

New York, Jan'y, 13th 1831.

Dear Sir,

A few days since I found lying on the table in my laboratory, your acceptable letter of the 11th inst, together with a parcel of interesting plants - for which be pleased to accept my thanks. Being confined to-day by an indisposition which prevents me from my duties at the medical college - but wh. does not incapacitate me altogether from light mental occupation, I have amused myself by looking over your specimens - The cryptogamia I must leave for examination in the Spring - but I think you have determined most of them correctly.

The fern wh. you name Asplen. Felix fem., is what I have always called A. asplenoides - It is probably A. Felix fem. of Pursh - & also the A. angustum of Muhlbaux.

A. cristatum of your parcel appears to be exactly what Dr. Hooker, in the Edin. Journal of Science, for Feb'y 1822., has called A. Goldranum - after Mr. Goldie a Scotch botanist who visited this country some years ago. Hooker has given a fine figure of it in the Magnificent Denar. felicium - It must be the plant called A. Felix fem. by Pursh - but a distinct species from the European fern so called.

A. dilatatum seems to be identical with A. intermedium

Mitella cordifolia, agrees exactly with what I have described under this name - of which I have suspected to be the same as M. nuda

It must also be the *M. prostrata* of Michx., I have never seen but two species of this genus (excluding *M. grandiflora* of Pursh which is the type of R. Brown's genus *Telleima*) among all the plants which have been sent to me from many parts of N. America. The figure in Lam. ill. t. 373 f. 3 has the leaves more acute & serrate than in any of any specimens - but his fig. 2. of the same plate is exactly one plant, & the latter is referred by all authors (even by DeCandolle in his last vol. (4th) of the *Prodromus*) to *M. indica*.

You ask whether my *Trisetum purpuraceum* is not identical with *Dactyloctenium striata* of Michx. - you probably meant *Arenaria striata* of that author. It may be so - but his description is so imperfect that the matter cannot be settled without a reference to his herbarium. I hope to see that herb. myself before many months, when I expect to clear up a number of doubts relating to N. American Botany.

The specimens which you numbered, & which you desired me to examine appear to be as follows - (The leaves were in some instances not sufficiently advanced to develop their characters)

1. *Andropogon furcatus*
2. *Pleurina indica*
3. *Staphylea trifoliata*
4. *Panicum nitidum* - var -
5. an species not determined - don't seem to be any of those described in my book - but the *Panicum* vary greatly.
6. *Poa serotina*
7. *Carex acutata* (young) & *C. scopoides* & *Chytocoma* (young)
8. *C. stellulata* - scarcely distinct from *C. scopoides*

It gives me great pleasure to learn that I am to be benefited by your future labours in botany. I hope that I shall be able to assist you by the communication of such plants as are peculiar to this region, as well as of foreign specimens. At the present season I am much occupied - but my labours are ended early in the spring, when I shall take the earliest opportunity of sending you a collection of dried plants. In the mean time I beg you will accept a small parcel of pretty rare Swedish, Lapland & Norwegian plants put up for me by Prof. Barling of Stockholm. I have also added the *Systema Algaram* of Agardh, a small work by one of the first Algologists of the day - containing all the species known in 1822, of the dept. of Cryptogamia headed of. They shall be left in charge of Mr. J. Brown, 27 Beekman St. who, I hope, will be able to forward them to you in the course of the winter. I shall always be thankful for good specimens of the rarer plants of your neighbourhood, as I need a large stock to keep my friends in Dutch supplied.

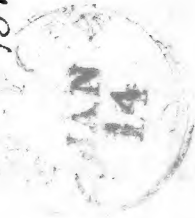
J. Asa Gray.

I remain
yours truly
J. Torrey

Dr. Asa Gray

Bridgewater, Andrus Co

New York.



New York, April 29th 1831

Dear Sir,

I have just found a note on my study table, left by Mr. F. Brown, informing me of an opportunity of sending a parcel to you on Tuesday next. Unfortunately I am in the midst of the confusion of removing my quarters, & my collections are so deranged & un-come-at-able, that I fear it will not be in my power to send you much at this time. I will, however, try & put up a few specimens for you, for I hope, on Monday next to have at least my own apartment in order.

If you should visit New York the present season I hope it will not be when I am absent at Princeton - for I expect to spend about 9 weeks at that place, commencing with the first of June next. My residence in the city is No. 30 Mc. Dougal St. - on the corner of Prince St. - where I shall be very happy to see you.

I am at present much occupied with botanical pursuits. The 2^d. vol. of my Flora is at last resumed, - & I am engaged in superintending the printing of an American ed.ⁿ of Lindley's new work, entitled "An Introduction to the Natural System of Botany" It is an 800. ed. of about 400 closely printed pages - & in the best style of that distinguished Botanist. It is the very work which has been needed for years - for it is the 1st treatise on the Subject in the English language - if we except the

Translation of Desfieux by Sir J. E. Smith. I have prepared an Appendix containing all the known North American genera, with the authority for each genus - a few synonyms - & the number of species hitherto observed within the limits of our Flora - that is - from Mexico, north -; the whole arranged according to the improved orders in the body of the work. There will be also a few tables exhibiting the relative proportions of the different grand divisions, tribes, & orders. I have also prefixed to the principal work a very excellent little introduction to botany by the same author.

I have, the present season resumed the study of Mosses & have commenced a general account of the species hitherto observed in North America. The skeleton of the work is already prepared - & a place provided for any new materials which may come to hand. You will oblige me very much by collecting for me all the Musci which you observe. I wish by a large quantity of each species - so that when I have determined a number I may have enough to last for some time. The specimens should be in fruit if it is possible to obtain them in that State. I am sure we have many new species in the Middle of Northern States. For I showed my collection to Mr Drummond the great Scotch Muscologist a few days ago & there were many in it with which he was unacquainted. This gentleman, as you are probably already acquainted accompanied Capt Franklin & Dr. Richards on their last expedition to the North.

He spent two years (most of the time among the Rocky Mountains) & made extensive collections, especially of the Mosses. On his return he published 50 sets of dried specimens, each containing about 200 species of Mosses - one set I have just received. This gentleman is just now on his way to the regions west of the Mississippi for the purpose of collecting plants. He sent out two tons of paper round by the way of New Orleans! So that you may judge how extensively he intends to collect.

~~But~~ Mosses - I particularly with Hepaticae - these growing generally with the Mosses can be collected with them - let them be collected even without fruit. Though I have mentioned these tribes I do not wish you to confine yourself to them - I want all the rarer plants - and also such as are somewhat peculiar to the region around you - In return I hope to furnish you with European specimens authentically named - & also such plants as grow in this region, that you do not already possess.

We have but little botanical news here - indeed there are but few workers left. Mr. Schweinitz has just sent to Germany, to have printed his great work on N. American fungi, in 3 vols. Mr. Halsey is preparing a Catalogue of the Cryptogamous plants, growing within 30 miles of New York, & I am getting up a new Catalogue of the Flowering Plants, according to the Nat. Method.

I am Dear Sir
Yours truly
J. Torrey

Dr. A. Gray

Bridgewater

Oneida Co. N. York

Fac: of Mr. Clarke

New York, Oct. 6th 1837.

Dear Sir

Your parcel & letter were left at my house by Mr. Brown during my absence - & last Saturday a gentleman called & stated that there w^d be an opportunity of sending to Bridgewater this day - I accordingly closed a package for you without delay & took to Mr. B's office - but the person whom I saw there knew nothing of any one being to-day for your part of the country - the bundle was left notwithstanding & will be ready for the next chance that offers -

The specimens wh. you sent me were very acceptable - I have examined them pretty carefully & the result you will find in the inclosed sheet. Of some I should be glad of a further supply; as you will find by my list. Any number of these & of such as I formerly requested would be thankfully received & a return made in such duplicates as I have on hand -

I have put up for you some native plants - chiefly from N. Jersey. I regret that the number is not greater - but want of time prevents me from selecting more - You will also

find in the parcel, some exotic papers of Cyperaceae. They are
(for the most part)
sent with the original labels - on which I have written the donors names - a list of wh. you will find on the other side -

I am glad that the microscope pleases you, & I hope it will enable you to make a great number of useful discoveries. Little can be done in philosophical botany without such an instrument. For the knowledge that is required by a mere superficial examⁿ is scarcely worth pursuing.

The paper which you sent me have been laid aside for a future study - but I would mention that such as you have labelled, are generally named correctly.

The Monograph of *Cancer* published in the 2nd vol. of the *Annals*, &c. was also printed separately, & I will make inquiry for a copy if one can be found. The separate edⁿ was very rare.

Respecting works on Entomology I can give you but little information of value. We have as yet very few on American insects alone - You probably are acquainted with Say's papers in the *Ann. Acad. Phil.* & in some of the *New Harmony* periodicals - Also the 5th vol. of No. of his *Amer. Entomology*. Le Conte & some French Entomologists are publishing an account of *N. Am. Lepidoptera* of wh. the 7th No (I think) has just been rec^d. It contains several coloured plates in each No.

- Martin - Prof. at Munich - writes on *Palms*, & *Frauller* in Brazil
Agardh Prof. of Botany at Lund, Sweden
Reichel in " " Stuttgart. Author of *Nomencl. botan.*
Soleirob French Botanist at Metz, France. All marked "Corse" are from him.
Stewart. Late of Edinburgh. - accurate botanist.
Trinius Prof. bot. & Sect. Roy. Acad. Sc. St. Petersburg. author of works on *Grasses*
Shepherd Curator of Bot. Gard. Liverpool
Haworth of London - author of works on succulent plants -
Jacqueminot of Paris - accurate botanist of *Traveller* -
Turczaninow of St. Petersburg -
Graville of Edinburgh - author of *Fl. Edin.*, *Crypt. bot.*, *Algae Britan.* &c.
Treviranus Prof. Bot. Breslau, Silesia
Lindley " " Mus. Lond. author of many botan! works
Siringe of Geneva, apiculturist of the land, & redactor of many parts of his works
Lehmann Prof. Bot. Hamburg. author of many bot! works.

The above is a list of botanists who have contributed to the collection of *Grasses* &c. just prepared for you.

I regret that you close your botanical labours for the season before collecting the *Asplen* & *Solid* you. If you have any rare or doubtful species of these genera I should be very glad to examine them.

I am Dear Sir,
your truly
G. Loring

H. Gray.

Dr. Asa Gray

Bridgewater

Ohio Co. N. York.



CR

New York, Sept. 14th. 1832.

Dear Sir,

Your letter containing an enclosure of some money came safely to hand. You need not have concerned yourself about such a trifle, as I supposed it had slipped your memory.

Yesterday I went to the Neversink Hills with my friend Mr. Cooper. We were disappointed, after reaching there, to find that the Steam boat would return in two hours & a half, - so that we had but little time to explore. If the whole range of hills were examined, I doubt not but some interesting things might be discovered. The plants which I found (not in the collection made in our exped. the week preceding) were only the following. Ilex aquifolium - large trees, & in great plenty - a beautiful evergreen, from which the new principle Ilicine may be obtained in any desirable quantity, Eupatorium hypopifolium, Gnaphalium germanicum (the first time I ever saw native species) Poa quinquefida R. Baccharis halimifolia & Cakile maritima

It never answers to be hurried on a botanical excursion. A few hours in a new locality will seldom reward one for the trouble & expense of reaching it. A whole month might be spent in examining the fine region of N. Jersey, without exhausting it.

Mr. C. in wandering along the beach near the "Ocean House"; just as the boat was returning from Red Bank on her way back, found a remarkable species of *Pholas*, & also a beautiful little bivalve shell lately described by young Conrad of Philadelphia in his new Conchological work. These unexpected acquisitions induced him to remain, with the intention of coming up to-day. I left him one of my botanical books in which to place any interesting specimens he might observe.

Next season, unless you are better employed during your release from the Gymnasium, I must try and make some arrangement for your making a thorough exploration of the Pines. You might spend six weeks there, & collect a vast number of specimens, at a moderate expense. I wish you would in the mean time endeavor to acquire the art of drawing plants. Confine your attention to this Dept. of drawing, & I am sure will make very fair representations of plants in the course of six months.

Try & send me those rare plants of which you made a memorandum, before the winter begins, & add to them whatever you may have received that you think would interest me.

J. Gray.

Remain
Dear Sir
Yours truly
J. Torrey

Plants received from Dr. Gray, Sept. 1832

- No 1. *Solidago nemoralis* (*puberula* Nutt). No 2, 3, 4 undetermined
 " 6 - axillaris \ No 7. *Carex*!
 7, 8, 9 *Aster* - undet. 10. *A. paniculatus*,
 " *A. corymbosus*. 12. *A. macrophyllus*.
 "*Carex leucomorpha* var? Swamp near Utica" *C. Haldryana* Dewey
 "*Carex*, 'Shore of L. Erie. Probably a var. of *C. lupulina*.
 "*C. leopodioides*" *C. festucacea*, with more spikelets than usual.

P.S. I have this moment received Mr. Schumley's long expected work on the Fungi of N. America. You may have seen it at Bethlehem. It forms the 2nd part of Vol. IV. (N. Series) of the Trans. Amer. Phil. Soc. The author complains of some inaccuracies which it contains, the printing having been done in Philadelphia, so far from his residence that he could not correct the press - The work includes 3098 species, & occupies 175 pages of closely printed 4to. with a plate of numerous figures. It will be difficult to procure it, without purchasing the large volume of wh. it forms a part.

I have also recd. specimens of *Erythraea pulchella* from Sluagh, Long Island, where it is abundant! We have now 2 spec. of the genus for our Flora. - One of your *C. Centaureium*

Ms
Dr. Anna Gray

Gymnasium,

Utica, New York

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6
2

Answered
Mar 22

Medical College, N. York. Saturday evening. March 1st
1834

Dear Doctor

I closed the Chemical Course last evening, & as you may suppose, I feel not a little relieved. Still I have an unpleasant task before me, - the examination of the Candidates for the Degree of M.D. By way of relieving the tediousness, I mean to scribble a letter to you. I pur-
-posed writing to you as soon as the College business was con-
-cluded. With Mr. Clark's assistance, & a little extra exertion on my own part, I was able to make all necessary preparations for the lectures. The young men behaved very well to the last hour.

I hope you had a pleasant journey home, & that you found all your friends in good health. Here, we continue very much as we were when you left us.

Within a week I have received some packages of plants

1. A choice collection from Prof. Fischer of St. Petersburg - chiefly collected in Siberia - all neatly labelled - & Fischer's own name written on each paper! There are about four hundred plants in this lot - many of them species new to me -
2. A collection of very nice things from North Carolina - sent by the Modest Mr. Moses A. Curtis - whose letters have amused you not a little.
3. A good collection from Florida - the parcel alluded to by St. Aden, as sent in his box of books. I only received it yesterday!

I received a few days ago, a letter from Dr. Loomis, one of the compilers of the Newberry Catalogue, informing me that he had transmitted a small collection of plants to me, principally species that I had marked in his list. The parcel is in town, but it has not been called for yet.

Mr. H. B. Croom, the other author of the Catalogue has written to me from Tuscaloosa, informing me that he had taken up his residence in Florida, & would collect plants for me as far as his feeble health & professional duties (as a lawyer?) would permit.

One of our students, who returns soon to New Orleans, & has herborized with G. W. Clinton, volunteered to collect largely for me in Louisiana. I think he will not disappoint me.

I have received duplicate bills of lading of my plants, &c. shipped for me at Havre so long since. - but the vessel which has the box on board (though long since due) has not yet arrived. ~~Do not yet despair~~ - but "hope deferred" &c

Mr. Cakes has written me a long letter. He is still working very leisurely at his New England Flora, but he will not publish it less than three years - not until I have come out with the Synopsis. He complains, with good reason, of the great number of nominal species with which our Floras are crowded, & says we must not spare them,

I do intend to cut them down without mercy. I have already designated two or three regiments.

Leconte was in the laboratory last week - He has received no answer to his enquiries respecting the Cavabry Expedition. Neither has Maj. Delafield heard from Washington on the subject.

I have almost made up my mind to deliver a course of popular botanical lectures in this city, previous to my going to Princeton. My friends say that I shall succeed, & that a choice class can be raised with a very little exertion. I shall probably lecture at Niblo's Saloon, a very respectable place, & conveniently situated, for the rich people of the "West End". It is said that I can have the hall of Columbia College to lecture in - This would save me at least one hundred dollars, but I could hardly expect to large a class there, as at Niblo's. When I have completed my arrangements I will write to you again. If I do lecture in New York, I shall not leave the city for Princeton till the middle of May next.

Yours truly

P.S. Monday morning. We are all well this morning, & are chatting as usual a few minutes after breakfast. The children often talk about you. They say that they do not have such pleasant rides on your back as they used to have. Mr. T. desires me to send you his kind regards, & Edward wishes to be remembered to you. & if that he thinks you might have written to him earlier. J. C.

W
Asa Gray, M.D.

Utica, New York



New York, May 2nd 1834.

Dear Sir,

Your letter of the 7th ult., together with the two copies of N. Am. Gr. & Cyp. were left at my house in due time, but I suffered the opportunity of sending the books by Mr. DeWolf, to pass. Indeed I have had no time to write a single letter for two or three weeks, but as I am constantly occupied in making preparation for my botanical lectures. They cost me much more time & labour than my chemical course - for that Charlestown Whittow would not, (after putting me off till it was time for me to commence) let me have the transparencies unless at the exorbitant price of \$400! So I have been obliged to make numerous large drawings, & to obtain aid from Mrs. T. & several friends - but I have to make selection of objects & superintend the whole work. I shall have an extensive set of illustrations before me finished - a set that will be far more useful than Charley's big pictures - I lecture without notes, as I have the subject constantly in my mind. My class is pretty large - say about 90 - & I shall make about 200 dollars by the affair - Many of my

friends attend gratuitously. I have made no special efforts to obtain a large class. For I wish our citizens to attend to the subject spontaneously - without being drawn or coerced. Many would join a new class if I would commence one - but I will wait (I.V.) till next year, & then I shall have all my drawings & illustrations prepared so that lecturing will be mere play to me -

Charles Whitford is making desperate efforts to get up a class in Botany, but I don't think he will succeed. He is vexed that I can do without his transparencies & wishes to draw away persons from my lectures - but he is known to be a mere quack, & every one laughs at his attempt.

I have received all my plants from Paris, but have not yet distributed them in my herbarium. Riddell has sent some more specimens from Ohio - better things than those in his last parcels -

We have no botanical news of importance. A German botanist called on me two days ago, & gave me some *Caricines* & *Groenias* which he collected in Saxony. - Another Chap brought me a letter from Dr. Abert of Union Coll. - He was a German & was said to be a botanist - but I doubt it. His name is Rev. Mr. Sumner.

by Hooker -

Collections have been rec^d from Drummond from Texas - they are said to be good - but I don't feel much interest in plants from that quarter. I would rather have a new Yankee grass than a new palm from any of the Mexican States.

When you come down next fall, I hope you will bring with you roots of some of the rarer native plants of your quarter for cultivation in my garden. I have become exceedingly fond of horticulture & wish to crowd as many species as possible into my little spot of ground.

I must go to Princeton in about three weeks. I begin to be sick of lecturing so constantly, & shall make arrangements if possible, to remain in the city next year. Nothing but want of money makes me work in this way, but I must get rid of what I still owe for my expenses incurred last year, before I relinquish these money-making jobs.

Poor Boyd is still in the dark room - as proud & as foolish as ever - He has been very sick - & is still weak - We shall try to send him back to Ireland.

I have rec^d from Dr. Brown (Mr. B. I mean!) two or three good specimens of Vanadate of lead - now, he says, exhausted - for the mine is no longer worked. If you promise to look for a diamond for me, I will let you have one of the duplicates.

I wish you would let me have 4 more copies of the *Gram.* & *Cyp.* The *Lycium* have subscribed for a copy - & I sent them one

from your last parcel - Mr. Carey took the other copy. I will
two copies for "Major Downing" of Heidelberg - & a copy for D. Hitchcock
Prof. Hitchcock will ~~subscribe~~ also. I think you can dispose of
leftly copies the present season -
Mrs. T. has not yet rec^d. the Maple Melodist - We are anxiously expecting
it - & have made up our mouths for the precious sweet. Yours truly,
S. Torrey.

Ms

Ana Gray, M.D.

Utica,

New York

New York, Jan^y. 16th 1835.

My dear friend

I wrote you about a fortnight since - but there was nothing special in my letter that required an answer. I am as busy as a bee - but I am not as successful in treasuring up any thing useful. How I should like to have looked in upon you last new year! Are your spirits good? Will Newell certainly succeed? - and are we to wait till the whole proposed sum is subscribed before any thing is done for our departments? I long to fit up a new laboratory for Princeton. & I think we shall have one yet. Our good friends there need a little pushing on the subject. - The pneumatic trough that I wrote to you about, has been sent to New Orleans. A friend of mine there wrote to me to have him send on without delay & I let him have what I had made for Princeton. I was glad that this request came, for I saw that several improvements could be made in the apparatus. - Another is far advanced, & will be finished next week. It will be just the thing, & will be a credit to Princeton. Pray have the old rickety concern ^{be} sent to Botany Bay - or where I will never see it again. I should like to spend about \$100 on the trough & its appendages.

Let me know soon, what I may expect to expend on the Chem. Dept next spring. What do you think I have engaged for you? - A grand pair of large human shears - This is an article that you have long needed greatly. You must also have a good grindstone of a turning lathe.

Does Jäger talk any more of leaving Princeton? I wish he would go, for he is only a clog to us. Gray (my assistant) would be a great acquisition in Jäger's place. He is a first rate fellow. & is good both in Chemistry & Natural History. He would do great credit to the college - for he must make a noise in the world - & he will be continually publishing. He has just prepared for publication in the Annals of the Lyceum, two capital botanical papers. He is a good scientific & practical mineralogist. Keep your eye upon him. I should be very sorry to have him leave me, - but he will have to be in some public institution one of these days.

Have ^{you} been dubbed with a diploma from the - I must now say - American Philosophical Society? They have had the penetration to discover my modest merits - & as you so greatly resemble me - (I mean in modesty) I suppose you have likewise had this blushing honor put upon you!

We had a meeting of the Trustees of Princeton Medical College night before last - & we feel pretty confident of obtaining a new building - one that will be worthy of New York, & of the Medical Profession.

Remember me to ^{the} Malleans, & Dod, Mr & Prof. Alexander & all our friends & associates. Present my kind regards to Mrs H. I believe me very truly, yours. John Torrey

10

Professor Henry

Princeton

New Jersey



Dr. J. J. J. J.
June 16
1835

College of Phys. & Surg., New York, Feb 2nd 1835.

My dear friend.

Seated at the table in our Examination Hall, I feel that I cannot waste away the time more agreeably than in writing you a few lines. Your letter of the 27th ult. came to hand on Saturday, & this morning Mr. Hart (as I suppose) came into my laboratory to tell me that he had a parcel for you, enquiring whether I expected to have an opportunity of sending it to Princeton shortly. I sent for it at once, & it is now lying on the table at my side. I know not where to find your Mr. D. Hart, or I would send it by him. He dropped your letter to me into the post office. Dr. Rhinelander says that he will send to Princeton on Wednesday & perhaps I will entrust the parcel to him.

So you mean that I shall not be idle next summer! You must not expect me to lecture much oftener than I did last summer - not that I wish to be idle - but the young men must have time to study the subject, & to attend recitations. Pray let us have the text books in readiness this year. I will ascertain in time, whether there will be a new edition of Linnæus before the course commences.

I wrote to Bache last week. I returned thanks for my election. It is not probable that I shall send them a paper very soon for I have work on my hands that is hardly the thing they want - & besides, my botanical memoirs are pledged for the Lyceum.

I should like to work with you on Electricity. When will you conclude your experiments? Do put up all your Discoveries & secure them in the Phil. Trans., & then begin a fresh scroll. Has Faraday anticipated any use of your results?

Really I am sorry that Gray cannot obtain a place in Princeton, for I know he would be a great acquisition. He has no superior in Botany - considering his age - & any subject that he takes up he handles it in a masterly manner. He will stay with me till I go to Princeton - & then I know not what arrangement to make with him. Surely Jaeger cannot live in Princeton on his present salary, if he was soe pinched when he had two situations! I would not on any account drive him away, though I think he is of very little use to us - but if he should take it into his head to leave us - why I should like to see a very good man in his place

= Cherries! Cherries! Cherries! You shall have some if they are to be got - I mean Mrs. Henry shall - for I would not hunt them up for you, as much as I care for you. I have several times looked for some for myself, but I could find none that pleased me - There are some to be had with the stones in them - but they are not so good as the others. Tomorrow, or the next day, I will make a fresh search for some -

The pneumatic trough is in my laboratory. I think it best not to have it varnished till it reaches Princeton - for

it may get bruised in the transportation. You must not expect to see anything very grand - or you will be disappointed. It is a good article, however, & will not disgrace the college, as the old one did. I shall have it packed shortly, & take it on with me, for I must visit Princeton when an examination is over. Then I hope to make arrangements for the accommodation of my family during our residence there -

It was a good thought to hire a kitchen for a servant - Pray hold on to him till I come, & then the fellow can't go if he will. He shall have his hands full - I would rather have a worker in metals than in wood. You don't say whether you will take the large shears. I can get an excellent pair - quite large for \$6!

It is time for me to stop, as it is nearly my turn to examine. Present my regards to Mrs. Henry, & remember me to all our friends in Princeton

Yours very truly
John Torrey

Dr. Torrey
Feb 1835

Professor Joseph Henry

Director

Academy



New York, Feby. 18th 1835.

My dear friend.

I wrote you a letter on the 29th of December last, but no answer ~~to it~~ has yet been received. Perhaps it miscarried - I hope it did, for then you have a good excuse for not writing.

My course in the Medical College is nearly completed for this season. It terminates on the 28th of the month. There are pretty good prospects of our obtaining a new building in time for our next session. Our professors of Franklin are to have a joint meeting this evening, & I hope we shall be able to make definite arrangements on the subject. If the College is not built next summer, I have some idea of renting my house for a year - hiring one at Princeton. Can one be obtained that would suit me - Not in the village? I would like to live in the "West End" - not because it is stylish, but because it is a pleasant, & I think, a healthier situation than towards N. Brunswick.

I informed you that I had a new pneumatic apparatus for the college under consideration. It is now completed, I will, I think, please you. The glass air holders perform admirably. The whole will cost not much.

short of \$100, but it will last as long as the College
stands.

I wished to be informed whether there is any prospect
of Jaeger leaving the Institution. I wish we could find
a place for my friend Dr. Gray, in the College. He is
an uncommonly fine fellow & will make a great noise in
the scientific world one of these days. It is good policy
for the College to secure the services & affections of young
men of talent. Let them grow up with the Institution.
How would it do for Gray to be a Tutor, or Assistant
in Chemistry? Dr. Maclean cannot have any desire now
to be an assistant. It would injure him as a practitioner
- or very much. & prevent him from taking a high stand
in his profession. Besides, he is not exactly calculated
for the situation. If the College purges & the classes
increase, an assistant will be needed in any department.
& it appears to me that he might also be a Tutor.

Gray has a Capital Herbar. & Collection of minerals.
He understands most of the branches of Natural History
well. & in Botany he has few superiors. You know
that he is my ass^t in Chem. - but I cannot afford
to retain him with my present income.

I had a letter from Johnny Vaughan yesterday. The
old man wishes me to make some remarks on Ruthless

botanical paper for Dr. Short of Kentucky, one of the
Subscribers to the ~~Am.~~ Phil. Trans.

I purpose making a visit to Princeton shortly.
So you must break up your jinnery, & prepare
for an inspection. Why have none of the Princetonians
ever been here this winter? Will you not come soon?

I have no time to write more, though I have much
to say. Write soon & believe me your truly,

Prof. Jos. Henry. F. A. P. S. ?

John Torrey

W

Prof. J. Henry

Princeton

New Jersey



Dr Tenney
Feb 16th
1835

Princeton, May 29th 1835.

My dear friend .

I have not been able, till now, to redeem the promise I made you on our parting; that I would write very soon. The day I arrived here I was taken with a pretty high fever & diarrhoea. The former left me the next day - but the latter is still unsubdued. I hope, however, to be better after taking some medicine this evening. Yesterday I gave my first lecture - but I have not felt strong enough to hold forth to-day, & to make, besides, the preparation for the lecture.

The country looks pleasant indeed. I saw some good plants as we passed along the road - but I have not yet been able to get out & collect a single specimen. It is tantalizing to one, to see the woods so near & not be able to dash down to them. Have you been out since I left? I wish much to have you see some of our rarer plants in situ - for we really have a very rich, though rather scattered Flora.

I suppose that you are as busy as ever in the study. I should be delighted to look in upon you - if it were only for an hour - but that pleasure I must forego, for one week - then (D.V.) I hope to spend two or three days at my own happy home

You are probably preparing for your journey. Have you been able to get all your grass books glued? If you will put up some sets of specimens of their labels, I will attend to the gluing for you. Mrs. S. informs me that the long expected box of Florida plants has arrived! It will be a choice study for me if I live to return.

Did you urge Chilton to send the *trough* &c? He is so slow that he almost exhausts my patience. Perhaps I shall get the apparatus by the time the course is half through!

I am not happy here without my family - but I could bear the separation better were I well enough to work hard. & were my quarters more agreeable. This tavern has degenerated from a Temperance House to a rum shop. The company that recort to it of the boarders, are rather low. There is much drinking, smoking, & carousing within its walls. & I long to be in a more quiet place.

The Senior class this year is said to be a good one. It numbers about 60. We have 215 students on the ground, & there will probably be five more here soon. This is well.

Saturday morning - I hope I shall soon be strong again - for my disease has subsided. & my appetite is good this morning. I find great difficulty in obtaining a good boarding house for my family. It is

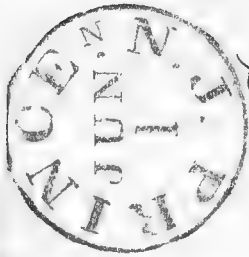
very doubtful whether they will be contented to remain long in any place that I may find for them.

I have looked over Lindley's "Ladies Botany" & think it will do very well to reprint in this country - if some twenty or thirty pages of new matter & about three more plates are added to the work. It would be no great labour to prepare an American edition, & I may, this summer write nearly what may be necessary to fit the work for the Yankees, & you can dish it up if you will take it off my hands.

You have a more serious task before you - but it will be quite within your power to finish it in three months; & perhaps in a shorter time. However, to write a regular *tour* for the preface to FINIS, - including 300 or 400 pages - is not mere play & cannot be done in so short a time as some people imagine - & we, too, may have miscalculated.

I have written a vigorous letter - but I have not been in a mood to write any other since I came here - Take it such as it is - I believe me

Yours in the best of bonds
John Torrey



MS

Dr. Asa Gray.

30 Mc. Dougal Street.

New York

Princeton, June 23rd, 1836.

Dear Doct^r.

I have been obliged to work very hard since I came here last Monday. The subjects on which I have lectured required many experiments, & the apparatus was so much deranged during the session of the new laboratory of the alterations in the air, that I have been constantly employed in replacing app^s. which I made last year, & repairing articles which I left in good order - ~~some persons~~ spilled mercury & acid in my beautiful pneumatic trough so that the bottom was rotted like a sieve, one of the glass gas holders was broken & of a multitude of little breakage & derangements to go at to remember. However, I shall probably not lecture here again - unless something should compel me to give up the journey.

I did not see the Gov^r. after all. He went on Saturday (I believe) to visit Mr. Atkes. & had not returned. On Monday evg. I addressed him a short letter, merely informing him that I had called twice at his lodgings, & that I have written him a letter. It cannot be possible, I think, that any new difficulty will occur, but I shall wait till I receive his answer, giving me, bona fide, the appointment.

When we meet I will talk over the best means
of arranging the whole business

I suppose Mrs. L. & the children went to Nyack
on Tuesday. They will probably remain till Saturday.
I have not yet ascertained whether she can be
accommodated hereabouts for a few weeks, but I
hope to learn tomorrow.

Did you finish the poor *Scleria*? I think we must
allow the genus *Hypoporum* to stand. It is perfectly easy
to tell one of them from a true *Scleria*, at a glance.
- but the difference in habit is not remarkable. Take
a good look at that *Kobresia*, & *Elyna* before you
send it to the printer. *Uncinia* *breviseta* will do,
- but what is Nuttall's *C. filiformis*? There must be
a genuine sp. in the Herb. of the Acad. in Philadelphia,
but I cannot to day look at it now.

I must break off here as the mail will
close in a minute or two. I could only
get ready the note for Mr. Stone, which I her
inclose. Please send it to him. If Halsey
is in town he will write something for King

or if you will wait till next week I will
do it. I regret that I am so hurried.

Believe me always yours

J. Torrey



PAID

20

Mr. Gray

Care of Dr. J. Torrey
30 Mc. Donald St.
New York

By William L. Marcy
Governor of the State of New York
The People of the State of New York
know ye that pursuant to authority vested in
me by the "act to provide for a geological survey
of the State" I have appointed and constituted
and by these presents do appoint and constitute
John Torrey of the City of New York Botanist
and do commit to him the botanical depart-
-ment of the work directed to be executed by the
act aforesaid

In testimony whereof I have subscribed
my name and affixed the privy seal of
the State this first day of July One
Thousand Eight Hundred and Thirty
Six.

W. L. Marcy

Princeton, July 12th 1836.

Dear Doctor,

We are all settled at a farm house about two miles from Princeton. The children have plenty of room, & abundance of fruit & milk. They are well, but Mrs. T. is feeble. She is always in poor health for a few days after a change of residence. If she were better, she would write to you, but you must not expect a letter for several days yet. I have not had time to finish my paper introduction to the Cyrenaean - but I hope to send it to you in a day or two. As I am obliged to take two long walks every day, if nothing can be done at home, in the way of study, I am able to do but little, except attending to the preparation for my lectures.

I found a letter here from Gov. Macey. He is very friendly, & wishes to know when & where I will commence my operations, as he intends furnishing me with recommendations & letters. Hitchcock has been obliged to resign his situation in the Survey, owing to ill health. I have heard nothing more about the appointment of Jackson.

We have a new No. of Silliman. & I suppose that my copy has reached No. 3. It is rather thin. Dana seems to have

written a good paper on Siamese crystals, as he seems inclined to call the old-fashioned hemitropes. There is no Calcicography, - so you will have nothing to add or alter from Dewey.

I have recd. no proof sheet from you, so that I suppose the printing has stuck again. Really we must call upon Norton to fire the great guns, when this opusculum is finished.

Will you ask my brother when he goes to town in his gig, if he will send Mr. Baker's box to the North Steam boat & rail road office? His boy will take it, & let him take a receipt for it, if they will give one -

Croon was to set out for the Springs the day after I left N. York. I fear he is not long for this world. His health is decidedly more feeble than it was last year. It will hardly be worth while to write out the paper on his two conifers until the 3rd vol. is published. I must get Halley to make a good drawing, with descriptions, of the new genus.

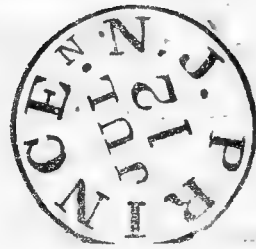
When you get through with the hardest part of the work at the Lyceum, you will, perhaps, be disposed to devote at some other monograph, or write out some of the saunders for the Flora. I should be glad to have you reserve a part of your time for this, or other matters connected with my botanical pursuits; as much as you can spare for \$200 per an. - beginning with the 1st of August. I shall not be able to take a larger sum from my income for this

ensuing year, as I am resolved (D.V.) to pay off every cent that I owe, & to keep a little in reserve in case of a change in my circumstances. Next winter will almost certainly be a dull one at the Med. College, & there may be impediments thrown in the way of the division of the estate in which I am interested.

If you are heard put to it for matter to fill up a meeting at the Lyceum, you will find in one of the lower Drawers (right side) of the red case in the inner study, a collection of minerals, left with me for the Lyceum, by Dr. Emmons. They were to be held back till his paper appeared. He has at length published, in the last No. of Silliman. I see ~~that~~ he has been practicing Nicol's method of grinding down fossil wood. I taught him the process when he was last in New York.

I must break off to prepare for a recitation. Please give the enclosed \$5 to Louisa. It is her wages.

Your sincere friend
J. Torrey



PAID 20

Ala Gray, M.D.

Lyceum of Nat. History,

New York.

Trinceton, July 18th 1836,

Dear Doctor,

Your letter of July 11th, crossed my first - & since that was received I have become a second time indebted to you for your interesting epistle of Thursday last - So your blessings honors are coming in thickly! What shall we do with all these outlandish parchments? I will sell mine - (at least some of them) for less than their first cost. I have written to Edward Shaw respecting the lost parcel of books - but I fear that it will be a long time before it reaches us. Sooner or later I suppose it will come to hand - for I have never lost any considerable parcel yet. The Brazilian grapes would aid us greatly in determining our Southern species & we must have the work, if we send for it again.

I am glad that the learned Mr. Batchelder has returned my copy of the work on Palenque. Will you see if you can get it forwarded by a private opportunity, to this place, as I have promised it to Prof. Henry. I will give him, also, (as he is greatly interested in the subject) the bas relief from the ruins - for I did not present them to the Lyceum - & they hardly come within the limits of permits.

Have you received any more letters from Dewey & Carey? These lovers of Cunicography must have had a delightful meeting! But I fear we shall disturb the serenity of our Rochester friend when the Cop. are published. Perhaps you will act prudently to break the shock by sounding a preliminary alarm. He is a good fellow indeed, & I greatly

regret having hurt his feelings. When you print *C. Emmonsii*, just
Dewey Mss. or he may think he has reason to complain of me, ~~but~~ after
what I have said about *C. Shortii*. *C. oxylopi* is very well - though
I should not have complained of *C. acuminata*. How came I to make that mis-
take about the Rocky Mountain *C. atrata*? You must be right, if you
found other specimens under that name from the same locality. I am a little
surprised at what you say about *C. nigromarginata* - & yet it appears to me that
Dewey somewhere says it has pubescent fruit. That is a good bit about
C. noranglica, it must be the same as *C. collecta*. Now that you print it out
I wonder we did not see it before. By the way I have not seen a whole
when I came here to decide respecting the proper orthography of *noranglica* - but
I think we may safely drop the st vowel, as is done in *Aspid. uroboraceus*

The proof sheet was returned yesterday. I did not get it till Saturday morning
& I was doubtful about the propriety of dispatching it by the Sabbath mail. Shall
I direct letters &c. to No. 30 - or to the Lyceum? I made some corrections, but
left several alterations for your decision.

As to the bill of freight for the Russian parcels, I fear it was neglected - but
my receipts will show & I will make all right on my return.
How strange that Dr. Grabau's parcel should have been so long in the
way. It is welcome, however, even at this late day. Witham's work we
will keep - the copy of Wright's annots. How I will present to Pickering.
You must have seen Mr. Greene by this time. Did he say anything
about the Texas plants which I requested him to spare for me?
You may safely lend Darlington Leaping's work. He has very few Compositae
which will fall into new genera - except the *Carolinenses* - of these
have been worked up by Hooker in fl. Bor.-Amer. Tell Griseb.
to gather 40 sp. of the *Callitha flabellifolia* for me. I will give him
other plants for them. So then you have floundered out of the bog we

got into in hunting hunting for a name whereunto to borrow the *C. Washingtonii*
You say that all Barratt's fine specimens of the plant have 2 stigmata. The
sp. from Bigelow (my original *C. Bigelovii*) I know had but two, - but I thought
some of the others (though I did not look sharply) had three. The come back again
them to *C. saxatilis*! - But what takes is it that is appended to *C. virginiana*?
I remember a case under that name in Schweinberg's herb. & I took (if
I mistake not) one of the specimens, but it cannot be the same as the
White Hill's plant, & besides we can identify the original species by
the published character. It is one of Lamarck's, I think. In noticing *C. aris-*
tata H. Br. remember what Dewey (in lit.?) says about it, that it a variety
of -- (I forget the species at this moment) which he described in his Can. Conf.
Why do you decline the offer I made you respecting the Floras? I
know it was little that I offered - but I only wish you to devote so
much of your time as you could conveniently spare, to the work. Perhaps
you think I cannot spare even so much, the 1st year - I can, perhaps,
give up more than this without inconvenience, as you will easily see, when you
consider that I am now but a quarter salary or so behind hand, & in a
year from this time (with ordinary success) I shall ^{not only} be out of debt, but have
a pretty handsome surplus. If you are willing to take the chance
of ~~the~~ a share of the profits of the Floras, I will agree, cheerfully, to
anything you may propose. I think I will publish on my own account
- I mean that I doubt whether it will be expedient to sell the copy
right, unless a good price is offered. - we will talk about all the details
when we meet. Of course I shall be happy to make due ⁱⁿ acknowledgment
of the aid you afford me - not only in general matters, but ⁱⁿ indicating
several of the families for which you are responsible. Further
it will be well for you to write several pretty full monographs
of orders that will be embraced in the 1st vol. - Then you can be guided for
your species, & you will stand out in bold relief than if it is merely stated in the

I shall not be sorry to see you with the Lyceum. I shall not be sorry to see you with the Lyceum. I shall not be sorry to see you with the Lyceum.

preface that you prepared certain families. In this way, too, I can claim a
 large proportion of the book for myself, as the working up of the matter into
 a symmetrical form, with some few additions after you have published the
 monographs, will be my own. I have just recd. a letter from Gov. Macy. - He leaves
 me untrammelled, & says he has confidence that I will do the work properly without any
 particular instructions from him. Mrs. T. & the children will probably return the last of the
 week. I will inform you by letter when they will set off; as I wish ~~to~~ to trouble you with making some
 arrangements for their accommodation. The papers are received - but irregularly. There was none
 to-day, & I have not yet seen the Observer - nor the Commercial since Thursday - I think that was the
 last. Did you send for Hitchcock's Ornithology? Have you seen the review of Colton's Researches in the
 last No. of Bib. Rep. Addison Alexander is said to be the author, & it is like a good one. You will receive the
 Intro. to the Cyp. con. & am peculiarly interested - Ever & affectionately yours. J. Torrey.

29

PAID

RECEIVED
 JUL 19 1852
 P. 11

John Gray, M.D.

Lycæum of Natural History

New York.

Piscata, July 28th 1836.

Dear Doctor

I received this morning Fig. 53. revise - which must be almost the last of the careers. I find but little to alter or correct - except some small matters which would probably have been noticed by you in a second reading. C. paupercula must be good, - & yet I should not wonder if we found the true C. alba at the north. All our specimens, however, appear to belong to one species. I am satisfied about C. Elliottii, that you have disentangled the synonymy correctly. We made it out pretty clearly that Dewey worked up his description from Elliott's handwriting. What was it that Dewey figured? As to C. lanthocarpa of Sprengel, we know as much about that as our friend of Rochester. It is a mere guess. The plant is rather variable as to spikes, & I wish you had decided it anew. I suppose that most of the C. Baldwinia-looking things which I laid out from Baldwin's specimens for distribution in the herb. belong to this species. So that queer looking thing from Ingalls is a distinct kind from all the others! Turgescens is not a bad specific name - especially as it groups with C. intumescens. Take care of altering all the Schubertii to Schubert. I had some hope that the Texan var. of C. stenolepis would turn out a new species when examined a-
gain

but I could not find any character to rely on. I wish I had obtained a drawing of *C. miliaris*. I did obtain drawings of two species. one was *C. paupercula* - what was the other? I gave both to Dewey. You need not trouble yourself to make out an index. I will attend to that when I come home. I must, if possible, go to Philadelphia, if it is only to look over *Cyperaceae*, before I finish off my paper - How would you like to have me notice the part you have done? Shall I say that the Causes are ~~our~~ joint work? The expression "we" is used in this part of the Monograph, - while in the other part it is (I think) "I". Suppose I say that for this we are equally responsible & give no particulars - But I will say it is all yours if you wish. Perhaps the expression in the lower part of page 418. might, in case I call it our joint work - look as if I had so little to do with it, that I did not know one of my own (& Schum.) species. - which is really true of *C. Elliptici* - for it was a made up description. It may be altered a little so as to avoid this appearance. - "and the name" &c. "given in the Monog. of N. American Causes (& by Prof. D."

How I long to be home, working with you at plants! I am just through the course here. Had I more company in the prosecution of Chemistry I should like it here very much. Mr. Henry is engaged in some other matters just now, - preparing some lectures on architecture & working something on Physics. So that although we see each other every

day, & have much very pleasant-interviews. we do not labour in science together. There is some chance of his consenting to stand as a candidate for Bache's place (~~to be~~ from the vacated). I don't like the idea of his removing to Philadelphia, for I think that the men of science there will have an unfavourable influence upon his spiritual welfare.

What were those plants from China? Are there any *Cyperaceae* among them? Mrs. S says that a letter was received about a box of plants. & that George Shaw was to attend to it. What specimens were they?

I thank you dear doctor for your kindness in receiving Mrs. Torrey & the children. I look upon you almost as one of my own family, so that I fear I call upon you sometimes when I have no claim upon you. It will not be worth while to send me letters after this week, as I shall probably not receive them.

Believe me affectionately yours

John Torrey

PAID 1/8



Asa Gray, M.D.

Lycæum of Natural History
New-York

Princeton, March 28th 1837.

Dear doctor:

I have just written an apology to the Committee on the Booksellers dinner - declining their invitation. So you need not look for me on Thursday.

Your paper on Ceratophyllaceae pleases me greatly. I see nothing in it to correct, save the typographical errors - which, of course, you will detect yourself. If, however, you will send me a revise, I should be glad to look over it. Have you searched, carefully, in the Analyse du Fruit for the observation alluded to by Arnott? Let the printer strike off a good number of extra copies of this paper. I should like thirty for myself. If I am spared this year I must endeavor to study, at the proper season, the fruit of Ceratophyllum, & settle the matter, if possible whether there is more than one species of the genus, - at least in the U. States. The young fruit of Nuphar, Nymphaea, Brasenia & Cabomba, must also be examined with the greatest attention. Indeed we must both of us look more at recent fruits, seeds, & ovals, than we have heretofore done -

In the Journal of Commerce of Monday last, I observed two arrivals from Greenwich - or rather one from that port & another direct from Glasgow. Perhaps Hooker has sent us something - but I am in his debt - both in parcels of letters, & he will wait, perhaps, till I pay him off, before he favors me with another remittance.

It may be well, however, to enquire at the Custom house, whether any thing has been received for us.

The spring is advancing rapidly here, & the flowers of *Sauvignaria* will show themselves in a few days. Would it not be well to look at the ovules & young seeds of this plant? I can bring some fresh specimens with me when I return to New York? - If possible I will return by the middle

of next week - The students waited on me yesterday to ~~show~~ the request that I would shorten the course by making my lectures longer - So I talked to them an hour & a half this morning, & this afternoon I met the class again.

They are all seniors, & they have completed all the studies of the first term, except Chemistry, & when I dismiss them, their vacation commences -

After I had written the first part of this letter, I went with little Jane to spend half an hour at Mrs. Henry's - but soon after we were seated a severe thunder shower commenced

& we were detained till the mail closed, so that you will not get my epistle till Thursday.

Little Jane is very happy - because she has full occupation for all her time - and is not obliged to study.

Wednesday afternoon - I have just heard a tedious recitation - this morning I lectured an hour & a half - so you may suppose (& I have a headache in addition) that I am not in a mood for writing a long letter. - I examined the red turpentine of the Torrey, & find it to be very soluble in alcohol, adding a deep & clear blood red solution. It is very inflammable, burning with much smoke & a fetid odour. Doubtless

is this resin that causes the wood to smell so disagreeably when heated or sawed, - for Mr. Croon says it is sometimes called Stinking Cedar in Florida. I intended to make more experiments on this substance, but a person took it from my table in my absence, & so it was lost. Did you see what Lindley says about *Sauria*, & *Mutilla spatuliformis*, in *Det. Bot.* p. 54? He says it is a sort of leafy *Manimulteria*. He also places *Gronovia* in *Loaseae* - thus removing it from *Cucurbitaceae* where *DeCandolle* & *Douglas* referred it. To *Loaseae* he also refers *Petal.*

anthera (Nutt.) - & he is right - if *Gronovia* belongs there. You remember, perhaps, that I always said that *Petalanthus* was nearly allied to *Gronovia* - & that the latter was certainly not one of the *Cucurbit*-family. I hope to find more of this plant among *Seventeenth* Texas specimens. My only specimen is in Brown's hands. Brown told me I was right in my reference - but that the genus was known

If I should not be able to write ~~before~~ another letter before the mail closes, I
hope you will take the trouble to inform Mrs. T. that we are well - Jane quite
contented & happy. Believe me affectionately yours J. Torrey



10

Asa Gray, M.D.
Lyceum of Nat. History
New York

ms
st.

New York, Aug. 2nd, 1838.

My dear friend,

It is a long time since I have heard from you - The accompanying printed notice will show that I have not been idle. Please tear off that part of the sheet & give it to Jaeger. & tell him that if he will send to Chilton's he will find a parcel for him, containing botanical specimens. I have done but little this season in

the way of Chemistry, except while instructing my private pupil - & I finished him off, several weeks ago. While experimenting on Potassium, to see the strange motions that are produced when it is placed on mercury, I was induced to try how Sodium would act. The moment the two metals came into contact, there was a strong explosion. At first I supposed this was owing to some moisture on the quack-iron - but the explosion took place even when both metals were perfectly dry. No author has noticed this curious fact, except Berzelius, & he mentions it very briefly. I suppose this is only an example of the general fact that light & heat are extricated whenever two substances enter into rapid chemical combination. - but it is not usual for two substances of the same class - & especially two metals to act thus. Something like it, however, is seen, in the explosive combination of platinum with tin or one or two other metals, when moderately heated together.

The Scientific Corps of the U.S. Scept. have received orders to be at Norfolk by the 10th inst - & the vessels are to sail (so they say) on the 10th. Johnson Hoyle, Eighth, young Mr. Mustrie and some others are left off. Dr. Gray has resigned, & has been appointed Prof. Bot. in the Univ. of Michigan. He will proceed to Detroit next week, & in the autumn probably go to Europe.

I have not recd. the mirrors - but I suppose they will come in good time! Have you written to Pixii? If he don't object, I shall make interest with

The Unity of Michigan, to employ some other manufacturer. I sent you
a few days ago, the report of the Senate respecting the pretended discovery
of a man, in Magnesian. Why will you not use your influence in putting
down this miserable spirit of quackery in our country. Mr. Talbot
& S. Dwight ought to be severely handled. You must get
the college to subscribe to our *Flora*. We cannot give away copies. Our bills
on Part I. alone amount to more than \$350. We pay as we go, & if any thing
is to be made we will have it ourselves. At any rate we are shall suffer less
by us. If on behalf of literary institutions don't patronize the work, we cannot
go on. My very kind regards to Mrs. Henry, & all your family. Yours
John Torrey

Prof. Joseph Henry.

Princeton

N. Jersey.

Dr. Torrey
New Aug 1838

New York, Aug. 1838.

My dear friend,

Last week in passing up the river in a Steamboat I was introduced to President S. E. Dwight, & although I avoided him, yet Col. Stone, who was also in the boat, seemed anxious that I should argue with him about the pretended magnetic discoveries of Dr. Sherwood. I, of course, took a stand against Dr. S., & on enquiring of the learned President whether he had read a piece in the Princeton Review, he seemed to be much annoyed, ~~that~~ & made some severe remarks respecting its author, which I resented warmly. He acknowledged that he had merely glanced over the article, as he was unwell when Dr. Sherwood showed it to him. I reproved him for condemning what he had never read - but he said that he did not possess the work, or something to that effect. I did not enter into any discussion with him, as to Dr. S.'s claims, partly because I did not understand the subject well enough - & partly because I knew him to be quite ignorant of it. He made several assertions, (I seemed fully to believe them) as to those discoveries, & I should like to know from you what they really are. If you have an extra copy of your article I should be very

glad to see it. For I am unacquainted with any person
who takes the Review. Perhaps, if the article is not long,
you will get one of the students to copy it for me. By the
way President D. seems to have been ~~down~~ disappointed
- & I think he is an unhappy man.

Dr. Gray has not returned from Michigan. We received
a letter from him to day. If he speaks in the strongest lan-
- guage of the beauty of the country & the enterprise of
the Managers of the University. I regret to learn, however,
that they have employed Davis as their architect - for I
don't entertain a very high opinion of his science. Dr. Gray
thinks as I do about him. The Dr. says, that the plans
which they expected from Mr D. had not all arrived, & that
the architect thought it best to go on to ~~Detroit~~ Michigan
of see the grounds himself. Dr. G. will probably wait
them for him, & then return to New York. He says,
that the Council are determined to make one or two pro-
- spective appointments in the autumn - of that you will
be one of them - Keep this close. I will give you more
particulars when the Dr. returns. Mr. Whipple, an
old friend of pupil of mine, who was at West Point when I
was stationed there, is one of the chief men in the University
I can carry any reasonable plan. He will be in New-
York in a week or two, & stop at my house, both on his
way to Philadelphia & on his return. It may be well for you

to happen this way when I give you a hint.

I hope that the account of Sherwood's discovery did not
reach the British Association, & thus expose us to ridicule
before that noble body. We must do all in our power
to ~~put an end to~~ ^{put an end to} quackery in our land - of every man must feel
so jealous of his own particular science as to refute all
pretended discoveries.

Did you get the plants for Jaeger? They were not
exactly what he asked for - but I sent him some rare
species in lieu of those which I have not on hand at present.

I am working at the Flora every day, but have not much
want for the labor, when I have to pay all the cost &
get scarcely any returns.

My very kind regards to Mrs. Henry & all our good
friends at Ponchartraine. Yours sincerely
John Torrey

Tuesday morning. Dr. Gray has just returned from Detroit. He says that a meeting
of the Council will be held on the 10th prox. when it is probable that some appropriations
will be made for apparatus. They will probably begin with \$5000, part of which
will be expended for chem. articles. This money will be for foreign appl. only. Now
Dr. G. wishes you to sit down & make out a list of articles in your branches, with an
estimate of the probable cost of each - to the amount - say, of \$3000. I will furnish a
catalogue of the chemicals. He wishes to send the statements immediately to the Board.
Set all ready by Friday, when the doctor will make you a visit. Yours J. T.

glad to see it. For I am unacquainted with any person
who takes the Review. Perhaps, if the article is not long,
you will get one of the students to copy it for me. By the
way President D. seems to have been ~~down~~ disappointed
& I think he is an unhappy man.

Dr. Gray has not returned from Michigan. We received
a letter from him today. If he speaks in the strongest lan-
- guage of the beauty of the country & the enterprise of
the Managers of the University. I regret to learn, however,
that they have employed Davis as their architect - for I
don't entertain a very high opinion of his science. Dr. Gray
thinks as I do about him. The Dr. says, that the plans
which they expected from Mr. D. had not all arrived, & that
the architect thought it best to go on to ~~Detroit~~ Michigan
& see the grounds himself. Dr. G. will probably wait
them for him. & then return to New York. He says
that the Council are determined to make one or two pro-
- fective appointments in the autumn - of that you will
be one of them - Keep this close. I will give you more
particulars when the Dr. returns. Mr. Whipple, an
old friend of pupil of mine, who was at West Point when I
was stationed there, is one of the chief men in the University
& can carry any reasonable plan. He will be in New-
York in a week or two. & stop at my house, both on his
way to Philadelphia & on his return. It may be well for you

to happen this way when I give you a hint.

I hope that the account of Sherwood's discovery did not
reach the British Association, & thus expose us to ridicule
before that noble body. We must do all in our power
to ~~put an end to~~ ^{put an end to} quackery in our land - of every man must feel
so jealous of his own particular science as to reject all
pretended discoveries.

Did you get the plants for Jaeger? They were not
exactly what he asked for - but I sent him some rare
species in lieu of those which I have not on hand at present.

I am working at the Flora every day, but have not much
left for the labor, when I have to pay all the cost
get scarcely any returns.

My very kind regards to Mrs. Henry & all our good
friends at Poncelet. Yours sincerely
John Torrey

Tuesday morning. Dr. Gray has just returned from Detroit. He says that a meeting
of the Council will be held on the 10th prox. when it is probable that some appropriations
will be made for apparatus. They will probably begin with \$5000, part of which
will be expended for chem. articles. This money will be for foreign app^l. only. Now
Dr. G. wishes you to sit down & make out a list of articles in your branches with an
estimate of the probable cost of each - to the amount say, of \$3000. I will furnish a
catalogue of the chemicals. He wishes to send the statements immediately to the Board.
Get all ready by Friday, when the doctor will make you a visit. Yours J. T.

Make out also a list of books in Natural History!

16
Professor J. Henry
Princeton
New Jersey

Dr Torrey
- meets Dr Shuttle
Merwood's farm
Aug 1838

TORREY TO HENRY NO. IV.

New York, Augt. 2nd, 1838.

You must get the college to subscribe to our Flora. We cannot give away copies. Our bills on Part I. alone amount to more than \$200. We pay as we go, and if any thing is to be made we will have it ourselves. —At any rate no one shall suffer loss by us. If botanists and literary institutions don't patronize the work, we cannot go on. —My very kind regards to Mrs. Henry, and all your family. Yours

John Torrey

NO. V.

New York, Augt. 1838.

Dr. Gray has not yet returned from Michigan. We received a letter from him to-day, and he speaks in the strongest language of the beauty of the country and the enterprise of the managers of the University.

I regret to learn, however, *****
He says that the Council are determined to make one or two prospective appointments in the autumn—and that you will be one of them—keep this close. I will give you more particulars when the Dr. returns. Mr. Whipple, an old friend and pupil of mine, who was at West Point when I was stationed there, is one of the chief men in the University and can carry any reasonable plan. He will be in New York in a week or two and stop at my house, both on his way to Philadelphia and on his return. It may be well for you to happen this way when I give you a hint.

I hope that the account of Snerwood's discovery did not reach the British Association, and thus expose us to ridicule before that noble body. We must do all in our power to put an end to quackery in our land—and every man must feel so jealous of his own particular science as to refute all pretended discoveries.

Tuesday morning. Dr. Gray has just returned from Detroit. He says that a meeting of the Council will be held on the 10th prox. when it is probable that some appropriations will be made for apparatus. They will probably begin with \$5000, part of which will be expended for chemical articles. This money will be for foreign apps. only. Now Dr. G. wishes you to sit down and make out a list of articles in your branches with an estimate of the probable cost of each—to the amount—say—of \$2000. I will furnish a catalogue of the Chemicals. He wishes to send the statement immediately to the Board. Get all ready by Friday, when the Doctor will make you a visit.

Yours J.T.

TORREY TO HENRY no. VII.

New York, Nov. 9th 1838.

Dr Gray did not get off till this morning. He was detained yesterday by adverse winds. He got your money and will doubtless faithfully attend to your commissions. He will make a good impression wherever he meets with men who are capable of appreciating him.

New York, Nov. 9th 1838.

My dear friend.

My assistant Mr. Bourne, (who is an excellent fellow & will do well) brought the mirrors safely - but the case is riving - nor is there any thing of hold - in a ball. He lost nothing - so that if there was any other article belonging to the apparatus it must have been left in Princeton. Please send it if there is now as you can - There are chances occurring almost every day - & if left at Chelton's I shall get it soon - My same blunder I ~~the~~ lost my honest Chap Goodrich. He misunderstood my last letter - & supposed I did not wish him, whereas I was greatly disappointed when he told me that he had gone off in rather a sad state of mind to the west - to seek his fortune. This new one I heard, & he is of excellent family - & hungry for knowledge. I am pleased to hear of your new discoveries in Magnetism & Galvanism. You will doubtless let me know all about them in due time.

I rather think with the *Pectus aplianus*, that we can hardly get up yet an apparatus for the purpose.

of science. There is indeed too much charlatanism in the country - enough to overpower our modest men.

Dr. Gray did not get off till this morning. He was detained yesterday by adverse winds. He got your money & will doubtless faithfully attend to your commission. He will make a good impression wherever he meets with men who are capable of appreciating him.

If you expect me to come on in the spring, I ought to have the lower room fitted up for the class. It is a disgrace to the ~~Clap~~ College that this matter is left unattended to to day, - & not only shows me plainly what estimate is put on my branch - but exposes to the public the little interest taken in science by the College.

The University Professors are out with their pamphlet - but I don't know whether it will do much good. All but a very small clique understand the whole business very well - ~~but~~ It may be of some importance however to put the history in a permanent form.

I went to see some of David's plans after Michaelmas Anniversary - a few evenings since. It will be rather an imposing Gothic building, but I fear that David

will not be able to make working plans, & that some grievous blunders as to the disposition of the rooms &c. will be made. I gave my orders respecting the accommodations for the Chemist - & I hope you will give yours when you come here to lecture. It is time that you commenced preparing those lectures. Let me urge you to write out lectures in full, & have them at your fingers end, & then make an abstract of them. Let all your experiments be numbered - & don't show too much. You will do well if you don't try too hard!

I wish you would lend me for a few days a few articles of electro magnetic app. - after you have completed ~~your~~ notes that you commenced for me. My class has never seen the Ed. Mag. Spark - I have not procured these things because they don't properly belong to my course - & also because I cannot yet afford to buy them.

- When you come to the city I shall of course expect you to use my house as if it were your own - With very kind regards to Mrs. Newry I remain faithfully yours
John Torrey

Prof. Henry
Princeton,
New Jersey

Dr. James
9th
1838

Dunelm's Landing, 1839

My dear brother,
We are now enjoying our-selves on the banks
of the North River in a pleasant farm house, with only an old
man and his wife. The only thing we need to make our
pleasure complete is your presence. You cannot imagine how much
we wish your return. Mather says she will remain in the
country until you come back. How can we enjoy ourselves
without you about the hills with us. Mr. Slotton whom I think
you have seen is our constant visitor, and tries to fill your place.

He frequently asks could Dr Gray do more?

Dear little Thetbet Gray grows sweeter every day, and is able
to sit alone, and I hope he will be able to run about all over
by the time you return. Mather says that you must not stay
longer than the first of September, as her patients will not hold
out. We have not yet seen the prints which you mentioned
for your lines, but we are curious to see them. Mather is thank-
ful to you for the articles you sent although she has not received
them. She desires me to request you not to send any more
things but bring them when you come. Aunt Maria Robert
wishes you to purchase for her a black silk net shawl with
deep fringe, very large size if you can get it for five dollars.
The price here is only twentyfive; they are very fashionable
and exceedingly beautiful.

And now as I have no more to say
I will subscribe my self your affectionate sister, Anne.

Anne Gray, June, 18th. 1839.

New York. July 11. 1839.

My dear friend -

It was only about four days ago that I received the box which you sent from Paris by the way of Havre - of last Saturday evening (two days ago) Mr. Torrey received the nice & valuable articles which you have presented to her - The girls were delighted with the long letters - but they have delayed the regular reading of it until this morning (Monday) as they were tired when it reached them - & then - wished their dear mother to read it for them leisurely. They have been reading for the last five or six weeks, at a place called Sweden's Landing, near Tappan - where they have good quarters - & enjoy themselves much - Mrs. T. is slowly improving - & I trust will be quite strong by the time you return to us. The girls grow of themselves every day. They talk of you very often - & long for your society again. Henry is a knowing chap - but is exceedingly mischievous - so that we have some trouble in keeping him within bounds. You would be pleased to see dear little Herbert Gray - He is very fat & lively. He creeps now - & begins to babble something that we call words - but hardly intelligible to any one but his parents. We still keep a wet nurse, - a healthy Scotch woman - & shall retain her till the hot weather is over. Mrs. T. has organized a Sabbath school, near her boarding house - & it is quite flourishing - so far as numbers are concerned - & we trust that a blessing will attend their effort. - There were two boxes sent to Wiley of Putnam's care - both of which I took possession of - giving Mrs. Wiley a receipt for the books. The boxes - particularly the larger one, were most wretchedly packed - so that they would have burst open with their own weight, had not Mr. W. ordered them repaired. The books could be seen between the boards - & there was no paper to guard the sides. The covers of the books have been chafed - & several of them injured by the nails that were driven through them. Mr. W. had some hesitation in passing the books, until I assured them they were for the University of Michigan - as the Custom house oath is very particular. I have not yet ascertained what duties he paid on the microscope, presents &c. If there is any thing wrong, I will endeavor to set all right when I ascertain the cost of the things. I only certified to the content of one (the larger) - of which he showed me an invoice - but on opening the smaller one, I found many of the University books in it. I took out the articles addressed to Mrs. T. & sent them up promptly by the Steam boat (for Sweden's) - the Capt. promising to send them ashore - but he kept them two days; & Mrs. T. was so much concerned, for fear they would be lost, that she dispatched little Jane to New York to enquire about them. I found them, however - & took them up myself on Saturday. You would have been pleased could you have made yourself invisible, & have found behind the grate or fence after parcel was opened! They could not imagine the use of the appendage to the ivory paper knives! & I could not unravel the mystery. Mrs. T. will, I hope, write to you by the next packet - & tell you how much she is pleased with your


presents & with your interesting journal. I thank you much for the letter of memoranda which you sent me. You must have enjoyed yourself in Paris - but it is a great drawback not to be familiar with the language. Where you are now I cannot tell. I received your letter written at Lyons (the last we have received) - dated April 17th. Others are probably on their way - but I shall not be disappointed if there are long chances in our correspondence now that you are so far away from the great radiating point. You will of course soon be with Eschschol. I have eagerly looked over the 9 vol. of his Gen. Bot. & cannot but admire the work for its prodigious learning & accuracy. You must get some valuable matter out of him. - I have had a great heat in examining Sullivan's microscope - but it must not be retained any longer - as he seems anxious to get it. He wishes you to make the other instrument as complete as possible - add to it every article of the last one - I shall take good care of your lenses &c. At West Point I examined the other day, a new instrument lately recd. from Paris. Rappailly's best microscope with eyepiece add. It performs well - but not equal to Chevalier's. We must take measures to have a supply of Chevalier's instruments kept here - for many botanists would get them at once if they knew where to find them. - Don't fail to see Ehrenberg - & learn all you can from him as to the arrangement of high powers. Get specimens from him of the fossil Infusoria. - Wiley & Putnam have sent for 25 copies more of the Flora. I am concerned to know how we shall work together in Lubeca. The Michigan business does not promise well. I have strong doubts whether they will conduct the University on the scale that we anticipated. Not a word has been sent to me by any of the officers since you left. & I am afraid that money is scarce with them. At any rate it will be several years before the Institution will be in full operation - I have not seen Carey since he wrote to the Governor about your money - but I think he would have called on me had he been successful.

I am receiving good plants now of them. Last week Dr. Leavenworth arrived from Tampa Bay, where he had been herboring six or eight weeks. He brought some good things - at least 20 that we had not seen before. Among them was the Conocarpus - & several "world over" subtropical plants, such as Batis Americana (Wright) Pimenta Amer., Scoparia Dulcis &c. Galt of Mobile, & two specialists have sent their 1st "Century" of plants, with large printed labels - but not named - I think they have been collecting largely for exchange, & wish to obtain our names for their plants. Carpenter (of Packen, Lou.) has sent another parcel - & of by the time that you return there will be a great heap to study - I begin now, my dear Doctor to count the months - or even weeks that will elapse before we meet. We hardly look for you before November - but, as much as we desire to see you - don't return till you have accomplished the most important part of your work. You will never wish to leave home again. We talk about you daily - (that is when we meet - for I am flying about the country)

I cherish for you, unswerving friendship. We pray that you may be kept
 from the evils of leprosy to which you are constantly exposed. The
 Lord bless & keep you my dear friend - Yours very faithfully
 J. Torrey

July 17. I took this letter to Carey to get your address, as your journal was in the country - but I was
 greatly disappointed to find that C. had it not - for he said that he left it in my study. I have looked
 high & low for it, but it is not to be found. Then I have had a search among Mr. Torrey's papers in
 the country for your letter to us containing your address - but we have all except the very one
 we want - I have kept your letter open, hoping to find the address soon - but it has not come


26
 26
 Dr. Asa Gray
 aux soins de M. M. de professeurs
 Erdlicher
 à Vienne
 en Autriche.
 Rhone.

to light - I cannot tell you how mortified & disappointed I am at my carelessness. I now as
 I am to leave town tomorrow to be absent 3 weeks - I shall send this letter to Carey to forward to
 Erdlicher at Vienna - where you will be by the time it reaches you - If you have a chance at
 Berlin to procure me a few chemicals I should be very glad of the following - or an array as you can obtain
 without inconvenience. Bromine 1 oz. Iodine 1/4 lb. Sodium 1/2 oz. Potash 1/2 gr. Nickel of Cobalt - good specimens. Pure Carb.
 Potash of Soda. 1 lb each. Soda of Potash pure 1/4 lb each. Selenium good spec^{ms} 2 Chlorides of Phosph^r - specimens - A few
 bottles with enamelled labels - for strong acids - Good scales for weighing 2-3 oz, a neat cast iron article of very accurate
 as well as cheap, was shown to me by Booth. Digering glasses in sets of 8-10 each, holding from 1/2 gill to 2 gts - very cheap
 Porcelain basins next middle sized ones - 3-4 porcelain tubes. A dozen or two ground stoppd. bottles - apoth^{ecary} - if cheap
 - the stoppers of this form  (i.e. depressed). All well at Sweden's this morning. Hubert Gray creeps about
 the rooms in fine style. If you like to meet, you will be pleased of him.

Proctor, Sept. 6th 1842.

My dear friend

As we have not heard from you for a week or more I suppose you have gone to the White Mts. It is rather late in the season to visit such high mountains in latitude 44°. You can hardly expect to find any thing new there - but I suppose you will gather a few living plants & to be able to say that you have seen them grow on their own soil. The insect plants have cost me a great deal of labor - & after all I shall not be able to do them justice. Mr. N. seems determined to have them, & I wish to make men. of the whole & take wherever I can, of the duplicates. Some of the *Cuscuta* belonging to genera already studied, were not labelled - & I have been puzzled with a few of them. Some of the genera still future, I have put up to submit to your examination that I may add their names to the Catalogue. Pray take them up at once - although you may have to study them some - what in advance -

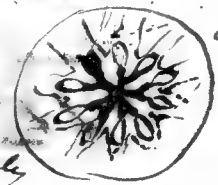
I have been three times to look for some flowers & fruit of *Adonis*, - & only found the plant in paper that the last time - The water has been so high that many aquatics have been drowned. The plant is as great a puzzle as ever. You must look at it again very carefully. There will be a small bottle of it, put up in spirits, in the parcel to be left at Wiley & Putnam's. The number of stamens is usually 7 - The stamens vary from 6 to 7 & 8. I cannot be sure that the tube of the ovary is open at the summit - but it seems to be so. When cut across just below the insertion of the pedicel it seems to be 3-celled  - but the dissepiments don't seem to show in the axis - of they rather seem to be formed by the projection, into the cavity, of the adnate styles. Further down, the tube is one celled & continues so to the base. The




ovate base of the ovary when laid open shows what appear to be 3 parallel
 placentae, bearing several ovules each toward their base. But then
 there seem to be given off from each of these placentae
 one (sometimes two?) styles, which are more or less
 contorted, & furnished with stigmata, just like those
 at the summit of the flower - but sometimes compressed
 more or less fimbriated & lacinate! What the mis-
 chief does it all mean? Admitting all the flowers
 that I have found to be monsters, ~~we~~ must explain
 the strange appearance somehow. But I write first to be sure that
 there is no mistake about the structure - & then I am willing to
 offer one or two theories that may give a rational view of so strange
 an appearance.




I have been looking at Huckleberries - particularly at
 the fruit of V. Stanicum. It has 10 apparent cells, but it
 nevertheless is pentacarpellary & has really but 5 cells,
 which are partially divided by a spongy septum, no projection
 of cellulose matter from the dorsal suture. It is easily
 seen in the immature fruit - ~~of the~~ There is but one row of
 seeds (when the seeds are numerous) in each cell - & the seeds of two contiguous
 cells are attached to the lobe of one placenta. I suspect this
 is the case in all the so-called decacarpellary Vacciniums. In
V. Stanicum, the endocarp (is about half the berries in one bush)
 is very apparent, being much thickened, very white, & of a
 dryish spongy texture. In that case the two lobes of each carpel
 were so much separated, that I thought them to be distinct carpels.



Section of
 the fruit
 showing
 only two of the
 2 lobed carpels.



a separate
 carpel, with
 its placenta
 & seeds.



In your last letter (Aug: 27) - you mention the
 expected arrival of Tuckerman - & what he
 would accompany you to the White Mts.
 I hardly thought he would be willing to leave
 his family so soon, after an absence of a year

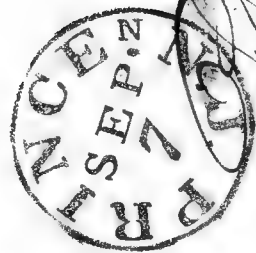
You ask me what is the evidence that Onclea obtusiloba grows near
 Boston? I saw a fine specimen of the plant in a small collection of
 ferns exhibited to me at Lowell, by Mr. W. Booth. I recognized it
 at the first glance. He said that it was loaned to him by Bigelow,
 to whom he was to return it. ~~that~~ Bigelow ^{tho} him it was found
 (by one of his pupils, I think) in the neighborhood of Boston - if I
 remember rightly - it was Brookline? I might have had the
 specimen by asking the owner for it - but it was returned - & mis-
 laid or lost! Some what Mr. Booth said, I conceived there would
 be no difficulty in obtaining a good supply of the plant the
 next season. That Empetrum Curadii, if not, after all, a Cerastium
 (which you know I said it came very near to) - must be a new genus.
 Had I seen the ^{right} fruit when I wrote my paper - & had I been
 able to compare it with Creme - I should probably have an-
 ticipated Klotz. Tuckerman was just in time to secure the
 naming of the plant.

How is it that Kneiskern will interfere with you by selling
 roots in Europe? You surely don't mean to go about the
 country, & collect yourself - except, when you are in a
 good locality, you may have enough for your own garden
 & two or three extra specimens besides? I supposed you
 meant, when your plants multiplied in the garden - to offer
 them in exchange with gardens in Europe. If you don't mean
 to dig up plants yourself. (which you cannot do here on a very
 limited scale) why Kneiskern will furnish you with the
 boxes ready put up, for less money than it would cost you
 to travel.

I have received a letter from Carpenter - he sends to my care plants
 for Kneiskern of Salsella - but none for me - he has been preparing
 a catalogue for the Job. Sewing of Linn. which contains descrip-
 tions of 100 n. sp. & var.!! We are to have copies as soon as they
 are ready.

Mrs. Torrey & Jane started for N.Y. yesterday - sleeping at the Colthamons - left in their boat this morning. They will be gone the rest of the week. Jane is to have her teeth adapted. Little Robert is in very good health - & his disease does not, I think, increase. He has scarcely any more pain - only once in some five or five days - & then from being thrown down, or stumbling - & not very violent. He walks not much better - but he will improve, I trust, after a while. The girls resumed their studies to-day, their teachers having returned last evening. I am lecturing on Botany - & the class seems pleased. I greatly need some good illustrations - & I hope one of these days to put into operation, my plan of making ^{of plants} imitations on a large scale, some of the more important parts ^{of plants} in paper board, or other material.

24



Prof. Asa Gray
 Harvard University
 Cambridge
 Massachusetts.

I hope Mrs. Torrey will bring some money from N.Y. I am grieved & mortified that I should not long have put you to memorandum for the want of what you so kindly advanced for me. The College will not be in a condition to pay till the Trustees meet at Commencement. We have about 200 dolls in N.Y. which we cannot draw till Mrs. Robert or one or two other heirs, who have been absent from the city, return. When I get the money, yours shall either be remitted to Parker, or left to your credit with Wiley & Putnam. I have only room to say that I hope you will write often, & believe me ever yours J. Torrey.

New York, N.Y. 11th 1842

My dear friend

Your parcel was received two days ago -
- for which - & the dead letter I feel very grateful
The letter was sent to Mrs. Loney by a safe private
opportunity the next morning. I have been greatly
hurried this week - but now am fully underway of feel-
comfortable. The class looks pretty well - but not much
larger than last year. This evening I took a
little recreation - & paid 50 cents for Dr. J. A. Smith's
1st Lect. on Geology - all I mean to attend.

It was well enough - of the pickers fair - about
75 tickets are sold - say 40 double ones - at 85 - & the
rest single tickets at 83. The room (Cabinet, up stairs)
was over then filled - & rather badly lighted. It had an
unpleasant echo - so that I heard the speeches indistinctly.
The affair will, I think - prove a failure
& the poor Lyceum must succumb in the end! Dr.
East Pell who loaned \$10,000 (second mortgage) several
years ago - says the Soc. must pay up next year - &
give collateral security - which they won't do -

I have rec'd a letter for the "firm" from a Mr. McKim

of Lanna, Pennsylvania - writing me and in the details
of difficult plants - His spirit is already answered - gen-
erally to his wishes - we will do the thing if we will
send a good collection of specimens, properly numbered

I have packed up the Buckley plants - of which will
take them to Wiley Putnam tomorrow

Your box from Kneiskern will probably arrive next
week - & shall be forwarded to Boston immediately

Ed Deane, who is packing me in Connecticut
writes a friendly letter - He wishes to go on an expedition
to the West

I have a letter from Zeyher, of "Schweitzingen by Mannheim,
Councillor private of the Court from the Grand Duke of Baden" -
asking very humbly for rare N. Am. plants - of which he
gives a list of Ranunculaceae from the Flora - with another
list of such as he can send in exchange

Buckley is here again - but is in difficulty about the big
boxes - We thought the matter was all arranged with
Coyne - but the system now asks \$100 for the freight
up stairs - of our little botanist is afraid to run the risk
He is attending some of the lectures in our College - & will
soon be ready to work at Botany -

McCabe, whom I saw at the July Meet. He every
says he has long had some plants put up for you -
Shall I send them to Cambridge?

Do you know that Capt. Courtney is here - keeping
a store for the sale of a new kind of flannel? It is flannel
- but I suppose he will succeed.

Young John Leconte has finished his studies in College &
has gone to Georgia. Both he & his Cousin (son of Leis)
will, I doubt not, collect plants for you - They can get
you the Sandozian, & some other good things

I find considerable difficulty in understanding Griffiths -
but shall find out what he means soon - The main points,
of course, are plain enough - but his detailed accounts of
both Santalum & Viscum are rather obscure - DeCayne
is rather severe on Leis. I suspect the Buckley has
an ovary more like Viscum than Santalum. It seems
to be solid, as in that genus, when very young - & to be
excavated only after impregnation. When Buckley says
his plants I will obtain a specimen from him for
you to examine -

Since I left home last Monday I have not heard
a word about Herbert or any of the others - so I must
they are as well as usual. It will be very tedious
here before the winter is over - but I will try &
be patient. Let me know what I can do for you
in the city, & I will endeavor to be prompt & kind
regards to Greene when you see him -
Ever affectionately
John Torrey

New York, Nov. 18th 1842

My dear friend -

Your letter of the 15-16th ult. came to hand yesterday - but - I have been so hurried that I could not reply to it till this evening. To day I called at Willy & Putnam's, & supposed I had your Memo^r for them in my hat - but it seems that I left it at the College - I went off in great haste to take a parcel to the Care of Mrs. Doney - Your parcel, (sent there several days ago, (with a letter from me, inside) was still on hand - as also some other matters which they ought to have sent off a week or more ago. It was my purpose - after I found there was still time to add the Linnæus's &c. to send them down this afternoon - but it was out of my power - Poor Din has not heard about the College this week - & I cannot spare Charles at this stage of my course. If possible I will see Mr. Colden early next week & find out how many copies of your article he wishes returned. Your bills shall also be attended to immediately. - I have not seen the Careys this week -

So Tuckerman is going to Schenectady! This will be good for our Botany - He found *Asplenium* near the College!

This afternoon a letter was brought in from Silliman - it chiefly related to the plants that he sent some weeks ago.

A few days ago I rec^d a letter from a gentleman - formerly of Princeton, giving me an account of some plants collected towards the Rocky Mountains by a Lt. Fremont in the U.S. service. He advised the gentleman to send the whole to me - of this morning a letter arrived from the gentleman himself, informing me that the box was dispatched from Washington on the 10th. It is by this time in N York. The specimens were collected, he says "the present year, in the course of a geographical exploration of the Rocky Mountains. The region over which the collection was made, extends from the 39th to the 42nd degree of N. Latitude - & from the 95th to the 112th Deg. W. Longitude. The labels ~~to~~ which are affixed to the specimens, will enable us to assign them their exact localities, on a topographical map of the Country which I am now engaged in constructing, based upon numerous astronomical positions, of the Basin and observations which I succeeded in to the top of the Mountains, will give us their limits."

He writes something like a foreigner, - but he signs himself J. C. Fremont, Lt. Topog. Engineer - He expects, next year, to continue the exploration to the Pacific & offers me what he collects - So here is a chance for you to get seeds &c. - How would it do to send a

collector with him. Leavenworth wishes to go somewhere - of this place might suit him - but ~~not us~~ in all respects - When I get the box, I will send you the counterpart. & such duplicates of the others (if there be any) as you may desire for your own herbarium.

My brother William came up from the prison two or three days ago. He says the box put up by Huerfano for you was sent on board a sloop - to be brought here. I hope you will receive it next week.

When I left home last Monday all were well. Hubert was very lively, & quite patient - but I fear that his back will need a renewal of the issue - as they seem determined to heal up, in spite of our efforts to keep them open. Mary Murphy is at Princeton, & succeeds admirably with the dear little fellow. I hope (Dr. J) to see them all tomorrow.

The miserable creature Cold stabbed himself this afternoon, about five o'clock - just before the law was put for his execution - He wished to be left alone for half an hour - which request the Sheriff very improperly granted - & when the door of the cell was opened to admit Dr. Anthony of the office of justice - the poor wretch was found weltering in his blood & quite dead!

Yours affectionately
J. Torrey

Prof. A. Gray
Harvard University
Cambridge
Massachusetts.

Princeton, Dec. 29th 1842

My dear Friend -

I should have written to you before, in reply to your kind letter, now full three weeks, had I not been under the impression that you would visit us about Christmas. Before I left the city I received a letter from Mrs. Torrey, informing me that she had heard from you - so I delayed writing till I knew your plans more particularly. You have, indeed, enough on your hands to keep you out of mischief for a twister month. Those Lowell lectures will give you full occupation while they last & you will sometimes wish history in the Red Sea, rather than you had undertaken the task. Still you will succeed beyond your expectations - & the remuneration will place you above pecuniary want for a long time.

I am afraid that I shall never do much more in Botany, besides finishing my State Report - unless I can manage either to live on a single professorship in Princeton - or obtain a botanical chair in some institution. I must, if possible have my place here put on a good foundation - so that I can resign in New York. Fifteen

hundred dollars & a house here (with some
odd & ends from other sources) would support
me comfortably. The ^{new} college has done
very poorly this present session. Scarcely being
more than 300 dollars after paying expenses of
the laboratory & travelling charges! We have,
it is true, more students than attended last
year - but they don't pay so well. The other
school don't succeed well either. I have
no job this winter. Only one extra lecture
& that a charity one

I came here, with Miss Parmelee, last Saturday.
The girls are all absent. Margaret & Jane
went to the River on Friday last - & the same
day, Eliza arrived in New York. They will all
be away until the beginning of next week -
so that I ~~lose~~ ^{lose} their pleasant society when
I have the best opportunity of enjoying it. It is
the greater trial to me, because I ^{remain} the Sabbath
before last in New York. Mrs. Torrey is as
well as usual, & is enjoying Miss Parmelee's
visit.

Friday 30th. We have fine winter weather
to-day. I have not yet been out of the house
though it is late in the afternoon. We are all going
to Mr. Alexander's this evening. They give, what

is very rare for them, a party this evening, & it is
to honor us! Truly we are no common folks!
I have spent my holidays thus far idly enough -
visiting & reading reviews, & thinking as little as pos-
sible of business. The house is very quiet & we
greatly desire the return of our dear girls. They will
not be here before perhaps, before I go to the city.

Carey had not even looked at Fremont's plants, when
I said him last - (which was about a fortnight ago)
& I began to lose all patience with him. He is very
wrong to lead so indolent & depending a life, & I told
him so. but he disarmed me by pleading guilty,
in the most humble manner. He has fine
sons, good friends, & enjoys a reasonable share
of health, with abundant time to prosecute any useful
object. To be sure he has lost much money - but there
is no danger of his suffering from want.

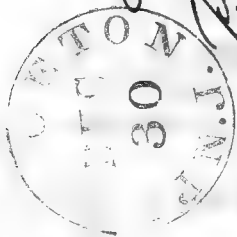
Buckley is anxious to complete his catalogue so as to
be ready for the next Librarian - but Carey lends
scarcely any aid, & the paper cannot be got ready
without his assistance - Endicott will furnish
a plate of Buckley's in lithography as cheaply as
any artist. Had he not better undertake it?

I hope we shall see you soon. You will, of
course, stop at the College as soon as you arrive in New York.
I expect to return on Tuesday morning. Mrs. Torrey sends
friendly salutations - Remains affectionately,
J. Torrey.

J. B.

Mr. Gray. M.D.

Prof. of Natural History
Harvard University
Cambridge, Mass.



New York Feb. 20th, 1843.

My dear friend,

The parcel by Adams' express came safely to hand last Thursday. I thank you for the kind letter it contained. I delivered Mr. Carey's last Friday evening. The parcel for Engelman & the note to Wiley & Putnam are also attended to. Hooker's letter was very satisfactory - but why was it so long on the way? He must long since have received mine, & I hope to receive an answer soon. What a splendid establishment he will make of Old Herd! We must aid him in storing it with all desirable American plants, & we can do much for him in the course of a few years.

Carey has not looked at plants since you left New York! I fear he will relapse into total apathy as regards Botany. You may be sure he will do nothing with Hydrophyllaceae. Buckley has opened half-a-dozen boxes of his boxes, & I call at Carey's store, with Cozgers, to look at them. They are not so clean & well defined as I expected to find them, & the limestone cannot be entirely removed without great-labour. Still the collection proper much interest & I think it would sell for several hundred dollars, in London Buckley does not please me altogether - but it is not worth while to particularize the cases in which his conduct is offensive. He looks candid, & he needs plain dealing to set him right.

I don't mean to give him information as to all the new genera founded on ^{his} plants. He brought me an *Acanthaceae* - some thing which he said did not agree with Ruellia or Justicia. - as, indeed, it does not. The plant is probably *J. bracteata* of Pursh, but is probably one of Nees' new genera. Is it in a late number of the *Linnæan* that he described some N. Amer. *Acanthaceae*? I forget just now. - The fruit of this plant is very curious indeed. Buckley says you told him I must describe the new *Dicentra* of he yields the point. If I send the new *Santalaceae* genus to Endicott, to whom must he look for pay? It can be drawn & printed in two or three days. How many copies must be ordered? - & is the stone to be reserved?

ps. I find that it is *Dicentra* *resubstantia* *Nutt. Arch. bot.*

I like the proposal of Hooker respecting the austral collection of the Exploring exped. - but can you persuade Pichey to recommend it? Surely it is the best that can be done with them. It will never do to work them up in this country until Hooker's N. Zealand flora is published.

There is now little chance of the Oregon appropriation being made - so that Lindheimer can hardly get a place in any government exped. - but why cannot he go with one of the trading Companies to St. Fee? Or up the Niagara with the few people? Buckley is urgent to accompany Audubon - but he will hardly be in time.

Bailey has written a long letter on the crystals in the bark, wood & leaves of ~~herb.~~ shrubs & even of herbaceous plants. He finds them in vast numbers in a great many orders - he has measured their angles & determined their primary forms of combination. In the lichen of *Populus grandidentata* a slice as thick as letter paper contains 1,000,000, in a square inch - & as there are about

a single rhombohedral crystal in each cell of the bark - thus.  in situ.

150 thousands of paper in an inch - there will be 150 millions of crystals in a cubic inch! They are, in almost all plants, oxalate of lime. He asks whether a summary account of his observations would not be interesting to the botanical public? Don't you say yes - certainly?

Can you copy for me the figures of *Ragoipteris*, *Pest. Phid. t. 3. f. 9. 10*? They are taken from *Dioscorea obtusifoliosa*, Schk. Did he copy from Schk. - or did he have original specimens. I sent to Hooker for a copy of Schkub's figure. Last week I made very satisfactory drawing of the venation, sori, &c. of the fragment in my herb. - & with the specimen loaned by Wright from Eaton's herb. I can make out quite a decent figure to be engraved for my report.

What do you think of Meisner's work? He seems to have given very little of his own. - & the form of the book is very awkward.

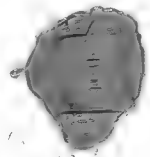
Tell Dr. Webster that *Platina* black is very dear. & I could hardly get him any in time for his lecture tomorrow. It is made without much difficulty - & I presume he has plenty of the scrap metal, fit only for distilling in ag. regia.

I went home last Saturday & found the family as well as usual. Little Herbert's back was giving sore - & I learn that it is now quite painful so that the poor child suffers much, & needs his mother's almost constant attention. Last Friday I received a joint letter from Mrs. Torrey & Eliza. They have all suffered from the cold weather, & the servants are out of patience. Many Murphy is to leave this week. Jim was so troublesome that they sent him away - & he goes tomorrow to the prison. They all wish themselves back in the city. I must, if possible, get a more comfortable house. On Friday I shall try & finish my course of lecturing, for I am weary of this mode of life - especially as I make scarcely anything by my labor of mission. Perhaps some opening will occur ere long. Yesterday I heard Dr. Skinner, in the morning - & in the afternoon young Dr. Beecher, who has been laboring in our church for the last fortnight. There is much

sermon among the people. & it is said that many of our Church
are awakened. Have you any good news to send from Boston or
its neighborhood? Our only hope for the world is in numerous & powerful
revivals of religion. Oh that I had more heart to engage in the blessed
work of spreading the gospel as far as my influence extends. - I must break
off for it is midnight.

Asa Gray, M.D.
Fisher Professor of Nat. History &
Harvard University
Cambridge, Mass.

Loebia ...
a ...
Link ...
+ 33 ...
Hester's ...



Tuesday morning. I ordered your box of plants sent off by Adams' Express line
You will get it to-day or tomorrow. Will you look at the seeds of *Ruellia*
stuck on the paper inside. Dip them for a moment in boiling water & apply your best
glass. I can only see imperfectly - but they are very beautiful. The sheaths of the
threads remain entire & distinct. The threads are mostly like annular vascular
tissues - but also in many cases contain a spiral filament. Have you ever seen such seeds?
Write soon & believe me cordially yours
J. Torrey

Mudge
Trustee Room, Medical College, ~~Feb. 2nd~~, 1843

Here I am at the examination table, & you know what a stupid business it is to gauge the brains of thick-headed students! I finished my lectures on Friday evening last, & the next morning went to Princeton - where I remained till yesterday noon. All were as well as usual - but Mrs. Loney was a good deal exhausted by nursing Herbert. The dear little fellow was beginning to mend his spirit with considerable felicity - & till I left home, he was gradually improving, so far as to enjoy himself & to sleep tolerably well - but - I don't think his disease is at all abated. He is very affectionate & endeavors to cheer me of more every day. I was pleased to hear him make an extempore prayer in his simple way. & of his own accord, to hear him say "Bless Dr. Gray." He talks about you, & I trust you will see him some time within your next vacation. When I was about leaving home, he said, "Father, I wish you to bring me a pair of crutches from New York, & then I can run about like sixty." These little matters would appear trifling to a stranger - but I know you will be interested in any thing that relates to one who is so dear to us both. - Jane accompanied me to New York, & is spending a few days with her friends. She expects to return with me on Saturday. Eliza & Mudge

are studious, & make decided progress with their present excellent teachers.

We are probably to have a change in medical college - Some days ago the Regents sent a notice to our Trustees, that unless sufficient reasons should be presented, they proposed, at their next meeting, the suppression of the chair of physiology - or rather, to merge it in Anatomy. The Trustees have sent up a remonstrance (prepared at a small meeting) - but it will not be regarded.

Webster has sent me another letter - inquiring what chemical text-book I would recommend for a class of boys - I could not help him - for I need a text-book myself - I mean one that will answer for Connecticut -

A small parcel, addressed to "Asa Gray Esq. Crosby St. New York" at the College yesterday - It shall be sent to Mr. & Mrs. Putnam - They put me up a copy of the new part of the Flora - It looks very well, - 5 in dog cheap at a dollar!

Since Friday last, I have not seen Buckley - He must have his Catalogue nearly finished - & after I have looked it over it shall be sent to you.


Will you look over your specimens of *Gentiana prostrata*, & see if that green plant with a stipitate

ovary can be the same. In none of my books, do I find any account of an exserted ovary in that plant. The species are said also, to be bifid - whereas they are entire in Fremont's *Gentiana*. [No - they are slightly bifid.]

Dr. Fisher has returned from Washington - He says that a bill was prepared, containing an elaborate plan for a national Institution, based on the Smithsonian legacy - but it was concluded not to bring it up till next session of Congress. The sum now amounting to about \$700,000. There will doubtless be a prospect of botany - if he was told that if the bill passed, I could have the place - Pichery, has said very plainly, that he does not wish it. So there is a faint prospect ahead.

March 30. Buckley came in this evening, & brought his *Mag. acc.* of his N.C. excursion. I shall take it home with me tomorrow, & send it to you in a few days. *Streptopus maculatus* n. sp. Buckl. has been adopted for the? *Ubulana puberula*. He left a blank for a subgeneric name - but I entirely declined the responsibility of touching the thing, as no one knows the fruit of it. He has 4 Phacelias - three of which are new. I have no confidence in these - but we have partly Carey's endorsement for them. He has written out the new *Diervilla* - with the name for me to fill up. This I understood you to say was to be for me to describe, as well as to name. *Andromeda recurva* stands in of *Zenobia*. There are 3 new *Carex*, *Reichenowia* (*B. robustif.*), *Arum polymorphum* he does not give up - but says at the end of his talk "possibly *A. quadratum* Mitt." *Fiji*, *penulifida*, *Vaccinium leucodermis*, *Hybridum odoratum*. *Andromeda* (*Leucoloba*) *montana*, *Scutellaria arguta*, *Angelica cubiti*. There is a "suppl. containing descriptions of some n. species from other places" - *Thalictrum debile*, *Tridacna*, *Chamaenerion* - changed from *Tridacna* *Tridacna*. *Justicia viridifolia*! *Melva leucobasis* - n. sp. descends from specimens given to him by DeCade. *Pteris Alabamensis*, *Salvia puberula*, *Phlox glauca*, *Sabbatia altissima*, *Delphinium palmatum*, *Smilax grandifolia*. We shall finish an exact *Homospora* group. Four have been rejected - more than $\frac{1}{2}$ of all the candidates.

March 6 (Monday evg.) I spent Saturday morning at Carey's, finishing Fremont's plants. - & at 2 left the College to call for Jane - who was to ~~come~~ return with me by the 2nd train for N.B. - but I was detained a few minutes, & had to take the 5 o'clock train afterwards. I found all the family very well. Don Herbert has been quite comfortable & happy for some days past - but I don't know that his disease is abated. This can only be ascertained after a considerable time. He talks much about you - & says "I love J. Gray" - & "I mean to write to him when I grow larger" - Yesterday, when lying on his bed & seeing the children playful around him, he said (rather in a humorous tone, than complaining) "what is the use of having legs if I can't use them?" He asked his mother what wicked thing he had been doing that God made him sick! - Carey says you did not wish under genus *Bigelovia* that that name had been used by Smith for *Boya* & *Forebaird*. - If


 J. M.
 Asa Gray, M.D.
 Fisher Prof. of Natural History
 Harvard University
 Cambridge, Mass.

This letter was directed before I left N York - & before Mrs. Torrey's return - on 3 March some one had the full letter.

I mistake not, however, DeCandolle himself mentions Smith's genus as one of the demolished *Bigelovias*. They received lately a few seeds from Engelman for you - & sent them to Wirtley & Putnam. Jane gave me the portion of your letter intended for me. - I did not know of Don & Kipp's obs. on the seeds of *Bracteanthes*. These ^{white hairs} of Ruell. *Spelium* are different from those of any seeds that I have seen. They rise up when moistened, having been apparently glued down or appressed to the surface of the seed. I have not the part of the *Linnæa* containing Nees' gen. of N. Am. acanth. You may be sure that the Tillimant will not agree to your plan respecting Collaborators - & sooner or later we shall have a new journal. I will endeavour to see Henry in the morning & communicate to him your message - Mrs. Torrey received your letter this afternoon, & I suppose will answer it soon. I shall be anxious to hear about the success of your first lecture - after that is over you will feel more comfortable - tho' your hard work will not be over. I am now fairly at work on Botany - & hope to get my report ready in three months. - Yours with much affection
 John Torrey.

Pomona, March 9th 1843.

My Dear friend,

I have just finished Buckley's Nyl.
- but it is still far from perfect. The man is illiterate
of vulgar - so much so that he can never be
licked into any decent shape. We must, how-
ever, endeavor to help him out with this paper
& then let him shift for himself. There was
so much to correct that I often felt disposed
to give up the thing in disgust. Pray read it
over once more & see if you can prime off
some more of its excrescences - We ought to place
our initials after the Diervilla sepiifolia, - or rather you
ought to name the plant yourself - for Buckley
knows not that it was distinct from D. trifida. I have
only in a few instances corrected his descriptions
of new plants. He mixes up the essential & detail
of character - & sometimes widely separates
parts of the description that ought to be placed
in succession. You will have to name
his new Canies - if they are new - Where
is the C. juncea? I don't see it mentioned in
his Nyl. -

I have sent off the copy of my account of
Fremont's plants - & hope to get a proof soon.

When you give directions to the printer of
Silliman, tell him to preserve the proof. For
we may have some difficulty with the author
respecting the alterations - & in any case
it will be well to have it in our
hands -

We are all pretty well this morning.
Nesby & his mother are just going out
to ride. - You must send him a line
in the next letter you write to Princeton -

Yours affectionately

J. Tracy

New York March 1843

I put up this parcel some time ago as you
see by the date - but had no opportunity of
sending it to New York - so that I have now
brought it myself. Just this moment, in
stepping out of the stage, I dropped the parcel
in the mud, & as I had to put on a new
wrapper, it afforded me an opportunity to add
a P.S. I left the family as well as
usual. Little Herbert remains about the
same - suffers but little pain, but is
not able to stand. He is cheerful & affec-
tionate - talks of you - & endears us all
to him more & more -

Your son

A. J. Torrey

Ponca, March 26th 1843.

My dear friend

I was in New York three days last week. I wrote you a letter, which I did not send, as it was not in time to go with a parcel sent by Express. Carey probably informed you that I made him a visit. He had just recd. a small parcel of seeds for you from Engleman & as he proposed forwarding it by Adams & Co's, I wished him to add to it, the Vef. of Buckley; N. C. seeds. I had been waiting for some opportunity to send it from Ponca - but none having occurred, I took it to New York. When I was in the city, Sanderford showed me a letter he had just recd from you, making enquiry respecting the box of plants. He had dispatched it some time before by the "Stonington N. Road line" - I took a receipt for it - but the receipt he could not then find. You will probably find the box at the office of the Company in Boston. It was directed to you, at Harvard University. I saw Buckley. He was working at shells. The sets of N. C. plants were all ready to distribute. He was to send a quantity to London by the next Packet - I wish you would write to Pauplin advising him of their being on the way. The price per 100. should not be over \$6.

May send me similar notes of Selirandra

It occurred to me while I was talking to him that he might go to Florida (for Audubon would not take him, & he could not go with Fremont) - so I dispatched him immediately for a son of Dr. Smith - the Platte man. The son is studying medicine in New York, & attended my last two courses of lectures. He had no doubt that his father would receive a subsidy very kindly, & afford him every facility for prosecuting his researches. Indeed the old gentleman told me so himself. He said the danger from Judaism is now over. Buckley wishes to go very shortly - & I think he had better set off as soon as he can pack up his traps. I hope none of the shuffling Seminoles will capture the little man. Perhaps you would like to have him collect seeds & roots for your garden. The passage to St. Augustine is about 18 dollars - & from thence to Platte the conveyance is easy & cheap.

Fremont has at last communicated to me his plans for the ensuing season. He is to leave Washington about the 5th of April - & before the 1st of May he expects to be beyond the western frontier of Missouri. He proposes crossing the mountains to the south of the

Great Pass - range along their western base - visit the mountainous region of the Flat-Head Country - probably go as far down as Fort Vancouver - & return by the head of the Missouri. This will do! - I have already given him directions for collection & preserving specimens & he promises to pay attention to what we, of course, consider the main object of the expedition.

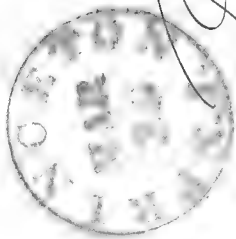
Mrs. Toney wrote to you last Saturday - & was looking for an answer already this morning! We are all in fair health. The girls are occupied as usual with their studies, & make good progress. They are busy in the parlour. I have taken possession of the room formerly used for a bedroom - which I have converted into a study. Dear little Herby is patient & cheerful. He was lying in my bed a few mornings ago, when he broke out of his own accord, "Oh, I wish Dr. Gray would write me another letter!" So he does think of talk about you - & that - not seldom. He had a hoarseness of cough for several days - but it is now much better.

The winter seems to be as severe as ever. Indeed the cold & snow have been more severe this month than in the preceding three months - To-day, however, there is a warmish rain, & I hope the end of the severe weather has come.

I rec'd a letter from Silliman & Co., a few days ago. They say nothing about the project - & you may be sure they won't agree to it in any desirable form. They have not written to Henry - I am glad to hear that you succeed so well in your lectures & recitations. The business will be more comfortable to you in a few months - How do you manage about illustrations? Can you get them done to your satisfaction? Let me hear from you in relation to Buckley - or write to him yourself -
Yours affectionately, John Torrey

MS
1874

Prof. A. Gray
Harvard University
Cambridge
Mass.



Princeton, April 14th 1843.

My dear friend.

Our last letter crossed (I think) in the way -
Yours is dated March 28th - Mrs. Torrey's arrived when
she was in New York. As it was partly addressed to
Herbert I read to him his own portion, which seemed to
please him much "That's good," said he, when I had
finished. Mrs. Torrey or Jane will write to you
soon. I am rejoiced to hear of your success in
teaching. Tell me what pictures you have had
done for the botanical course, & whether you can make
any use of my barbarous caricatures. I hope you
will get a pretty complete set in the course of the
season, & then I can copy them!

Have you written to Buckley respecting his manu-
script? If not, you must let him know immediately
what you will do - for he has made up his mind
to set out for Florida about the first of May - His
descriptions of plants are bad enough - but they may
perhaps be patched a little, & then supposed to pass for
what they are worth. I shall make the Buckleya
a separate article

The Thalictrum debile I made out & named myself
long ago, & he has adopted my name. Malva Lecontei is
a right good species - & we might have had it in the
Flora, for it has been in Leconte's herb. these ten years -

I have told Buckley that his big bones were worth about \$500, but that he must take care rather than have them remain on his hands. You must, however, send an assistant to examine them before making a bargain. They are still in Carey's loft.

I told you in my last that Fremont was to go out again, & by this time he must be at St. Louis. My catalogue of his plants will, I fear, be shockingly printed. I have only received one proof-sheet, & that was as bad as it could be. The whole style of the thing was changed from my MS. I wished it set up like my Rocky Mts. paper - but they made it purely Roman, & employed a very fine type. The extra copies that I requested have not been sent to me, & if they are as bad I fear they will be. I shall destroy the whole.

Have you received Tuckerman's Brochure on Canes? It is very creditable to him, & I like the arrangement very well. Does it include only such species as he has himself examined. I don't find the *C. Willdenovii* nor *C. Fraseri*, the former of wh. at least, he must possess*. By the way I have looked carefully at the fruit of the latter, looking to find some peculiarities in it, so as to remove it from the genus. There is none ripe in my specimens from Buckley. It is stipitate & almost winged-triangular in the half mature state. The stigmas also differ from those of any other Canes that I have examined: they are slightly glandular-scabrous, not manifestly pubescent or hairy. I think Tuckerman will do us much credit in a few years. What do you say to his elaborating the Juncei? - for Carey will not touch them. My stock of them is large, & I am sure Tuckerman would study them very successfully.

* I find *C. Willdenovii* in Tuckerman's list - the last species

I entirely approve of your proposal to Bentham respecting the Scriphul. & will select specimens for him when you think it is time. They should be examined first, & where we think there are new species, we ^{must} give them names.

You will be in time to give Buckley any further directions as to plants & seeds for your garden. It is very probable that the young *Gordonia* alluded to in my last letter, will accompany him - so that you may expect your plants will be well packed. How do they manage to put up plants during the growing season? The same question might be asked with regard to all plants of tropical countries? It is impossible to put them in cases - such as boxes - or even into tubs - unless one collects on a very limited scale. I suppose that most herbaceous spts may be raised after they have done flower.

Little Herbert is in fine spirits. He sleeps better of late, & for the last fortnight he has been able to stand, with a chair to support him. He gets up from the floor to his couch without assistance, & can creep up stairs. A favorite amusement with him now, is shooting arrows from a cross-bow. Just now, when he had exhausted his quiver, he ~~asked~~ asked me to pick them up - no, said I jestingly, for I did not shoot any of them. "Ah, but," says he, "Jonathan picked up David's arrows when he did not shoot any of them himself." This I thought so good a speech that I complied with his request. Telling him that I was writing you a letter, he said, "He'll think it from me, & then he'll write me another." Next Monday I am & I expect to visit Manchester to attend the wedding of my brother's daughter to the Rev. Mr. C. Threlk. of Princeton, who, for the last six months, has been stationed at the metropolis of the pine. I shall see Knesher, & gather, with him, some of the early plants of that region. I hope you found the contents of his box in good order.

I have just written to Tickerman, & should to send
him all the pieces in my hands. He will have
much attention to those hands, & brought a large edition
of them from Europe. He might, if he proposed being so, make
them the subject of a monograph, to be published in America.

1841

Prof. A. Gray
Harvard University
Cambridge Mass.



Do you have anything further respecting the views of
William on the Journal. Henry is going to Philadelphia
next week & he will take a letter to Brocke asking
for his views of your plan - Mrs. Jony & the
girls join in affectionate remembrance - I will send
you the letter.

Ponsectaw, May 12th 1843 -

Dear Doctor -

Your letter of the 7th was handed to me this afternoon, & not being able to sit in my study this evening, as the fire has gone out, I reply to it as well here by our comfortable hall stove - Mrs. Torrey is lying on the sofa by my side, in the convalescent state of a sick headache, having been in bed a good part of the day. The girls are all out attending a kind of commencement of the seminists at the Theol. Seminary - for ~~the~~ as in other colleges, the Divinity springs have their commencement at the end of their course. We had a large wedding - a rather bridal party last evening - Mrs. Schenk was with us, & all came off in fine style. In the midst of our fun, we heard some strange music just outside our hall door, & soon one of us stopped to listen, & finally many went out into the hall. We started on opening the door, two keepers, - curious strangers to all the company. It is probable (as they were evidently Germans, that they are on a tour through this part of the country, & having stopped at Ponsectaw some person must have told them of our party. They came in into the house, & then we were all gratified for some time with some excellent music.

I had a visit from Blodgett last week, he brought with him about 150 plants not in his former collections. He has visited a number of the keeps since we heard from him

There affixed quite a number of plants not found on the coast
I have also some plants from the main, collected by a Dr.
Henderson of the army. Blodgett will return in a month or
six weeks. He has given up practice & is to have an in-
terest in a mercantile establishment. This, he says, will
afford him some time for Botany - so that he will, this
season be able to explore a good deal on the main land.
The Mahogany is an undoubted native of that country. Blod-
gett has now trees 2 feet in diameter.

Did I tell you that the Bennies had sent me a letter about
the journal it was written by U, I suppose. Speaking of your
Department, they say that you are, & have been for
some time, their authority for all botanical matters
- "of the extension of the same system within proper limits,
which has long been our purpose, will give the journal a
tone of authority, in most matters, from which there will be no
appeal." This is not "coming up to the scratch."

I was in ^{New York} ~~town~~ from Monday afternoon till yesterday morning -
but did not see Buckley. I don't like to stick my Buckley
amongst the new species of our Lyceum friend. If his narrative must
be one a number, & his descriptions of plants are to come out
separately, I shall not be in good company. It may be
well, however, to reserve the genus merely by a diagnostic char-
acter which Buckley can give, or taken from my notes. It is
possible that Regel's friend may have got out before me - but
they won't know that the plant is *Borja distichophylla* of Nuttall.
I shall give you at the end of this letter a short description which
you can use or may seem best to you. The plate is in the hands
of the ~~Eng~~ lithographer, & I should like to know what number must be placed

laid out for me. I have not measured very
can find time to label them. Pray send me a copy if you can spare
& have long desired to possess it. What is to be the cost of the Fl. Brazil? You don't
one. I suppose, how many fasciculi have arrived. I will try
I have my subscription money ready down - but I would rather
the books had not arrived till the 1st of July or middle of June -
for then I have funds coming in.

I must have misunderstood one of your previous letters, for I was
under the impression that you had actually received the plants from
New & had set out a portion of them in your garden - or are you
expecting a second invoice?

Do you expect to get Hooker's original lecture drawings, or only
copies of them? I suppose he will never lecture any more -
but will he not keep them for Joe? I hope you will succeed.

Darlington says the Reliquiae are about one third printed - The work
goes on slowly, or it is done by his son, when other business does not
press. Still we shall see the book in two or three months. He again
urges the completion of the Flora, being afraid he will not live to see the
end of it.

I have heard through another of Dr. Mead's friends that we are to ex-
pect nothing this present year from the only botanist in Illinois. He
has certainly turned Millerite. He praised the Flora greatly & "he would
like to have seen it finished." I hope he may live long after it is done.

May 13. We have a second son (Edwin) of Dr. Grant's spending the pleasant part of the
season with us. He is the roughest specimen of humanity that I have seen in a
long time: a genuine cub. - but he is tractable & will improve rapidly under Mrs.
Torry's tuition. It is delightful here now, & I wish you were enjoying it with us.
It is impossible for me to leave America at present. The vacation will end next
week & then I must lecture in Chemistry.
Yours with much affection
John Torrey.




18 1/4

Prof. Asa Gray

Harvard University
Cambridge, Mass.

Princeton, May 17th 1843.

Dear Doctor

I sent you ^{the} letter three or four days ago, & having a number of matters noted for another, I commence filling another sheet, which I may dispatch soon. The gerts brought me some *Obolonia* last week, & I have been studying the fresh plant. It is much more nearly related to *Orobanchaceae* than to *Gentianaceae* - although it is certainly not parasitic. The placentation is remarkable. On cutting across the ovary or half ripe capsule (the mature fruit I have not seen) the following appearance is presented. There is a thin membranous exterior covering, loosely investing a thick integument, & only adhering to it at (a)(a) in a line from the summit to the base, thus dividing the space between the integuments into 2 thin cells (b, b). The inner integument is 4-lobed by the folding in of its sides, & the ^{single} central cavity is completely lined with very numerous anastomosing ovals. The integument is bilamellate & on splitting it down the (membrane) capsule readily separates into two parts at a-a - & here will probably be the line of dehiscence. Is the thin exterior covering pericarp, & the interior cell a large hollow placenta ^{arising from the base} - or is the latter from exocarp & the latter endocarp, the only organic connection (except at the base) being where the 2 pericarpial leaves are united at a-a (ventral suture)? Or ~~whether~~ if the outer membrane is pericarp, can the placentae be parietal, & so large as to meet each other at the points marked x.x? In the last case the placentae are one-lifous only on the face towards the axis. In *Orobanchaceae* the parietal placentae are pretty wide, & if we imagine them to be so broad as to meet & unite at their edges they would make a complete cell. 

I must get some more of the fresh plant & study it carefully, so as to give an account of it Benthams. What do botanists now say of the relative position of the carabell, in *Scroph.* & *Gent*? I don't see ~~that~~ that *Endlicher* makes any use of the character - nor do you notice it in your text-book. In *Obolonia* the carabell are right & left.

I am desirous of knowing whether the plants from Kew arrived safely. It would be a great pity were you to lose or find a collection.

Tuckermans will take the pains of do his best with them. They shall be sent to Schenckady without delay, & you had better forward your own that he may have all our materials. His own stock of them is good, & I think he will make a good job of these homely things. Can't you send him a specimen of Carex Fraseri? It is not in his herbarium.

He agrees with us that C. Barrattii is near C. glauca. He expects to accompany you & Baker to Mt. "Katahdin," about the end of June. How I should like to be one of the party!

I will put up in a day or two, my N. Am. Scrophulariaceae & send them to Beutham. Shall they be sent to Pampling's care?

The College opens here ~~next~~ Thursday - but my lectures will not begin till about the 22nd. I somewhat expect Charles with me again, but I don't know whether he can come for the small remuneration we can afford him. There is a good prospect that he will succeed old Mr. Meindersen at the Medical College. The old man is worn out, & is so deaf & unmannerly that he does us much harm, & has been the cause of our losing the debt. The Trustees gave him notice that next autumn he would be superseded. I am sorry for him, & did not know of the change till I visited the city lately. The old woman had

another of very severe paralytic stroke about a month ago. She is quite helpless, & unable to articulate. Her mind is shattered - & much of the time she raves violently. I think she will not live many days. When I spoke to her of the Sabian she brightened up, & made most significant gestures, that she knew him well, & loved him too. I believe she is a very sincere Christian.

May 16. In last night's newspaper it is stated that in Sir Wm. D. Stewart's Rocky Mts. Exped. there are a number of scientific men. Among them is a "Prof. Mersche, Baltimore, Md.,". Who is he? We must keep a look out for this Chap. & not let him steal or snatch on us.

This morning a sudden stop was put to all the nuptial festivities in honor of the newly married pair, by the news of the ~~late~~ death of Mr. Saml. Whittleman, the youngest uncle of Mrs. Schenck. He was at his wedding, gay & full of life. The sting of their wound is the thought that he had no Sabian to trust in. Like the rest of his family he had been bred up in the double heresy of Unitarianism & Universalism. Mr. & Mrs. S. have just started for Manchester.

I must break off here to be in time for the post - All send love - Harry is in fine spirits. He walks where he can have the support of a wall or a chair - & manages to work his way up & down stairs, & over most of the house - He looks for a visit from you soon.

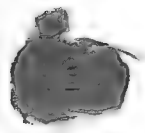
Your affectionately

Wm. Lloyd Garrison

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Prof. A. Gray
Harvard University
Cambridge Mass.



Princeton, June, 1843.


Dear Doctor

Eliza received your letter, & I hope will fill at least one page of this sheet in return. She did not seem so much attracted from you. I greatly wish that she would exercise herself more in epistolary writing. She & the other children are much occupied in their studies & recitations - & in a day or two they are to recommence their French.

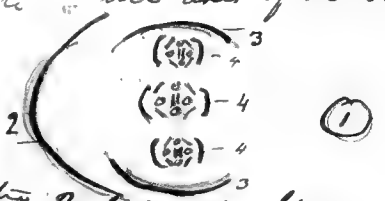
I have had a very good drawing of the *Obolaria* prepared - but have no new views to offer concerning its placentation. I wait for the fruit to ripen - to see whether any change will take place in the appearance of the ^{the} ovuliferous walls. It will be important too, to examine the seeds. The root has (as Darlington states) something of a coralloid appearance, the fibres - but I could not find that in any case ~~that~~ ^{the} plant was parasitic. The relative position of the carpels with respect to the axis is not constant.

The most common arrangement is this, for the solitary caudice axillary flower. Fig 4 Stem.

2 Bract. 3 Bracteoles or sepals. 4 Petals (united $\frac{2}{3}$ of the way up) 5 Stamens 6 ovary. (represented larger in the following)


The outer circle is the membranaceous covering (exoc. & endocarp united?) The ~~inner~~ wavy circle is the ovuliferous cavity united with the exterior covg. at (a.a.). The parallel lines show the direction of the laminae of the stigma. ^(perpendicular to the axis) There is a deep groove at a.a., but no appearance of a suture any where else. Can the carpels be collateral, & a.a. the ventral sutures? The peduncles are often 3-flowered

In this case the relative position of the sepals? ~~the~~ axis of the central flower
~~is~~ to the axis is reversed. If the lamellae of the stigmas in all three
 flowers are in the same line & tangential to the axis of the stem. The
 lamellae are perpendicular to the axis of the branch &
 1 Axis of the stem. 2 General bract or
 cauline leaf subtending the peduncle. 3 Bract of the 2 lateral flowers. 4 Sepals



I have been looking at Brodiaea, & am puzzled to explain (accord-
 ing to the generally received doctrine) the 4 parallel placental
 in a dicarpellary ovary. They are plainly enough to be seen - 4 of them,
 equidistant & similar. The style is conical & tapering, the
 stigma bilobed. There is a continuous cavity from the body of the
 ovary to summit of the style, & the stigma is furrowed between
 its lobes. Did Rudolphi notice this in his figure? Did he not give
 any details of the ovary & capsule? If he did they are not
 copied in your figure. Are the ovules attached both to
 the ventral & dorsal sutures?

June 22d. - This sheet was commenced a fortnight ago
 I laid aside for a favorable opportunity to examine some other
 plants & give you my views of their structure - but I have
 been prevented by various duties, as well as by a visit to New-
 York & back again from the prevailing epidemic. Mrs.
 Tomp has received a letter from you since I returned, & I
 the note by Mr. Sullivant was handed to me two or
 three days ago. I am glad that I saw him, though
 for little more than half an hour. I might have
 spent part of a day with him had I been aware that he was
 in New York. The parcel of Buckley plants (including
 Mevner) I left at Wiley & Putnam's myself. The young
 man who used to attend to such affairs, took it, & I

laid it under the counter. I told him there were parcels coming
 for Mr. S. from you, & that the whole were to be forwarded
 together. I found my parcel of H. Brail. &c.

The Cyperaceae pleased me greatly, although I cannot adopt all
 Nees' genera. I see he adds our *Ptilocarya*.
 When you come this way call at Thoburn's & ask if they have heard
 from Mr. Leray. He removed to St. Louis (I think) - about the
 time I left Kuester's plants for him. Perhaps Thoburn
 would advance the money - as poor K. needs it greatly.
 Cannot you manage to visit Quaker Bridge & some other parts
 of the River, in July. Eliza & I, are going in a small
 wagon with Kuester.

I have been examining young *Huchleberia*. Several are dead
 or celled, but the ~~cells~~ carpels are only 5, the dorsal suture
 which are more or less inflated, & even soldered to the placenta.
 There is a placental lobe in each half cell. Sometimes the endocarp
 becomes indurated, forming nucule. I have made a number
 of drawings which I will show you.

What a splendid affair was that Celebration last Saturday! I was
 somewhat pressed to go with a friend - who would have paid my
 expenses - but I could not spare the time - & it is well that I
 came directly home.

To day I received a letter from Mr. Benton, &
learn, quite to my surprise, that Mrs. Fremont
accompanied her husband to the frontier of Mexico.
It must have been a sudden resolution on her part - for
his letter, dated two days before his departure,
said nothing about it - but remarked that Mrs. F.
had a little son, five weeks old, & I was doing well!
We shall, of course, get no drawing, very soon,
of the new Schweinitzia - nor any continuation
of the list of Californian plants. His notes
stopped that at No. 202.

When will you print your notes on Fendler's
plants? I hope you will send me an early copy,
that I may distribute my specimens. Will
you please send me some other same

for a transcript of what these authors say about
Baker, if they are not too justice.

By the time this reaches you, I suppose
friend Carey will have arrived in Cambridge - if,
indeed he be not there already. I should like
to have sent a parcel to you by him, but
could not get it to the city. Tell him that
I shall keep his till he returns. If, however
he writes Carey Gregg for Booth, I will send
it to Cambridge in a letter.

Friday night - late. I have this
moment heard of a chance for sending
a parcel to New York tomorrow morning -
- I hope it may be in time for Mr. Carey.

1874

Prof. Asa Gray
Harvard University,
Cambridge, Mass.

Proctor, May 21 1844

My dear friend,

Mrs. Torrey left New York last Thursday, & of course was in Boston the next morning. I suppose that she made arrangements with you to get her safely transferred to the Eastern Rail. road. I fear this journey will be too severe for her debilitated frame. I should have preferred to have sent for Henry to see us. Had not my engagements here been so pressing it would have given me pleasure to accompany her. None of us know how long she will stay. We had she settled the matter herself. I suppose, however, that as soon as the boys are fitted with their summer clothes, she will return to Proctor. We all wish her back very much, although, thus far nothing has gone wrong. The girls do their best, - & all are in good health. Mrs. T. has doubtless informed you that Mr. R. L. Stuart & his wife have sailed for Europe. They are to visit England, Scotland, France Belgium & Holland - & expect to return in four months! Mrs. T. is to bring me out the best Chevalier (Charles) microscope that can be got for 100 dollars. This is as high as I can go at present. If I can afford a better in a year or two, this will always sell at cost or more.

We are drawing near the close of our college session, & ^{soon} I shall be gone at leisure - that is have more time for botany. You are doing but little, I suppose, except lecturing. How do the boys like the new plants? Do any of them promise to make botanists? Out of your great class at the Acad. too, you ought to have at least one in five hundred who will prosecute the science!

In studying some Scrophulariaceae some time ago, I noted several things to
consult you about. Here they are in the order of my memory.

Pedicularis Canadensis is not in your ed. of the sp. pl. Does it belong to *Linn.*?
Minutus ringens. The Gronov. plant is *M. alatus*. What is that of Herb. Linn?

Gratiola officinalis Herb. Mex. I had asked as = *G. aurea*. What do you say?

Eudochia ~~sp.~~ (if I suppose Bentham does so also) just Veronicæ Virginica in *Pæderes*
- but his character don't well apply to our species. Bought it to be modified to
as I receive it, or had it better be retained in *Gratiola*

Gerardia quercifolia (Glauca) is ~~affiliated~~ not in herb. Gronov. or I overlooked it.
- but he has a bit of *G. glauca* - & another specimen of the same is his *Rhynchon* Torr &c.

There is something queer about the fruit of *Phryma*. It is strange that *Eudochia*
should have merged this genus in *Piper* of Adamson - to which it has scarcely any re-
semblance. The ovary is one-celled, with a single ascending ovule. The fruit is enclosed in the
somewhat indurated calyx, & is fleshy, thick & coriaceous. The style is persistent, of at length
becomes somewhat lateral, top or arising a little below the obtuse summit. The seed is con-
formed to the cavity of fruit, but I being cred not find its integuments - for they either vanish
at an early period, or they adhere to the walls of the endosperm. - of yet there, when dissected
with care showed no trace of any adhering membranes. The cotyledons are replicate & folded in
each other; the cross cut showing the appearance represented in the margin. In some
respect the genus recedes from Verbenaceae - but not in any important character. I send
you several calyxes with the fruit (not quite ripe) to examine -
I with the reference to *Castilleja coriacea* Spreng. vol 2. p. 1000.

I should like to know whether you have had any more draw-
ings done for your College course. - of what they are - also what
are the subjects of the Lowell Illustrations. My bot. lectures here
will not begin till the middle of August next. I must be
preparing a pretty full set of picturae for your course. If I
had a good drilled artist I could make out a collection that would
suit my purpose. though it might not please every student.
Some of yours are rather too deep for ordinary students - when they
can understand difficult things, they can study them to good
advantage out of books. If, however, we can have time for
a long course, he may then enter into full details of many things

that cannot be introduced to advantage in a short course of lectures.

I have been looking for that discourse before the Nat. Hist. Socy, but
it has not come yet. You must send a copy to Mr Field (R.S.)

I sent by Stuart, parcels to DeCadeine, Jussieu, & Delefort.
- to the last, chiefly that I might have an opportunity of asking
him to show Stuart his fine sugar works.

Let me know how you succeed with the plants that you collected
last autumn. Has the Buckley a great fault? If it should show
both kinds of flowers watch them carefully

Have you tried the new microscope? Tell me how it performs,
compared with the best French microscope that you have seen:

We are all looking for a pleasant visit from you early in
July. Hervey talks about it often & will be right glad to see
you. I hear him praying for you every evening. Dear child,
it made me sad, while I dined, to hear him talk about Dr. Parker.
Last winter, when the little fellow had an alarming & long continued
cough, Dr. P. saw him, & was afraid one lung was diseased - &
he made a remark that he would not live two years. Herbert heard
this but said nothing. The other evening he repeated it to me, &
said, "No, Dr. Parker don't know - I am well enough" He
does enjoy life much, & runs about all day - the chief un-
pleasant symptom being a long breath that he draws every now
& then - but without any pain. I attribute it to his chest being
contracted by the curvature of the spine - so that he cannot, when
exercising get air enough without this occasional extra effort. Yet
I like that gradually the capacity of the chest will increase - &
this symptom disappear. He does not wear his jacket any more, &

I find that any taking does him more harm than good at present.
How I should like to go about with Mr. T. & yourself & point-out some
of the scenes of my youth in Boston & its neighborhood! You must ~~show~~
~~show~~ her the principal objects of interest about you, as far as can
be done ~~under~~ with propriety. You will be a judge of that. It might be
thought that I was unkind to let her travel alone - but I could not leave home
at this season - nor at any other time would it be right for both you to be absent
long at the same time. My best is full & I wish else. Yours truly, J. Torrey.

1874

Prof. A. Gray

Harvard University

Cambridge

Massachusetts

Proctor, March 28th 1845.

My Dear Friend.

You letter of "Wednesday Evg." came to hand in good time. I am glad to hear that you have recovered your health, & are again in working order. Better than you have not more than four more lectures to give. It will be great relief to you when the last is over. These cryptograms makes I have always found acceptable to my classes. But I never attempted to slip them out into a Public Course. They will bear it, however, quite as well as what relate to the higher classes. We have not yet received your parcel left at Wally's and Putnam's, but hope to get it early next week. I am quite anxious to see what you have written about Vivian & Müller.

Do let me have drawings of Peetole as soon as convenient. I think would be glad to engage his services - & give him for drawings. I do not think you make drawings from dried specimens, without a botanist to assist him? What a dreadful end for August Booth! He must have been long more a left-handed.

I am not fairly at work in Proctor - but don't despair myself about the College Course. I give them fair lectures - but not the most elaborate experiments.

many of which would be thrown away on a clasp that is just commencing chattering.

I have run over Fremont's plants, & furnished him the names of such as could be made out with a cursory examination. There are many most interesting shrubs from the mountains, that are quite new to me. What a pity they are in so sad a condition!

I recognized *Covonia* (called to *Purshia*) among them - of several, of which I don't know the natural order!

There were roots of *Laurin*, evidently alive - & I am getting them in some earth for you. Just now they look pretty vigorous. There were also several bulbs, that are now growing finely. You shall have them all in due time.

The number of curious Orob. in the collection, is considerable - of some must be quite new.

Among the most curious herbaceous plants is one that seems intermediate between *Cruceif.* & *Capparid.* It has the trifoliate leaves of the latter & the flowers of *Scutella*. But the fruit is very singular. It is bicarpellary, in 2 ovaries, with each cell of the ovary) - of the 2 carpels are indehiscent - separating from the base of the style, without any proper reflexion.

Each contains one seed, - the cotyledons incumbent. The indurated style remains firm & rigid like a little thorn. The lining of the testa is thickened & at first was taken for firm fleshy albumen. Four sepals - 4 petals. 6 stamens - somewhat tetra-dynamous. Flowers in very compact axillary racemes, resembling

heads. I enclose some fragments that you may form a better opinion of this queer plant.

We are all settled in our old ways in the big house. It is growing very pleasant, & we should be glad to have you with us. The girls are lively, & enjoying themselves - but Margaret is to leave us soon. The plan, I believe, is for her to spend another quarter at Mrs. Abbott's school in New York. Herbert is in good health & is busy about the house & in the garden. Sometimes he goes to the College with me. Mrs. Torrey is in tolerable health - but just now is somewhat troubled with headache.

We expected the promised letter from you last Monday - but it has not come yet. I hope she will get it tomorrow.

In the last two evenings we had Mr. Gough, the eloquent temperance lecturer, talking to the people of Princeton. He attracted & delighted all. Most of the Professors & old daddies say they never heard such a splendid fellow before - I heard him twice in New York - but did not so this time - as I was much fatigued & nervous - so that I feared I should get sick with excitement.

My microscope is now much used in daily use. It is a great comfort to me. How did I get along without out a good instrument for so many years?

Yours faithfully
W. C. Cress

Handwritten scribbles and numbers, possibly including '18/4'.

Dr. A. Gray

Harvard University
Cambridge, Massachusetts.

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New York, April 22, 1845

My dear friend.

By this time you have received my letter of various dates - sent yesterday from New York - The botanical drawings were sent at the same time. I forget whether I had opened Credé's parcel before the letter was dispatched. Are they not beautiful? Surely we have had nothing like them done by our artists. Now what shall we do to secure his services? On Fremont's return I think he will have at least 100 drawings of cuttings to execute - but I should like to employ him in the meantime. His Dutch letter sent with the pictures I cannot read. This letter dropped out of the parcel when I was showing the pictures to Endicott - & he said that one of his men who was in the next room would read it for me! But I put it in my pocket. I shall have it translated by a Theol. student.

I am curious to know more about *Dithraea*. My specimens as to habit, & just like a shell fungus one in the collection - & I don't think that either has been bitten off of their stems an unnatural form

If Harvey has got that fine *Papaveracea* I shall
be vexed. Where is it described? Let me have some
account of it in your next.

Did you notice in Wiley's circular that a translation of "Schleiden's prin-
ciples of Botany, by E. Lankester, F.L.S." is announced. It is in 8vo - with nu-
merous wood engravings. I suppose it must be out in London by this time.
Will you order a copy for me, when you send for one yourself?

A letter just received from Fremont says, "In regard to the plates
(for illustrating fully his next Report) Col. Benton desired me to tell
you that he has no doubt Congress will pay for every thing of that kind
F. says he will send me from the foot of the mountains, through Bent's
Fur Company, the plants he may collect up to that point."

Apr. 24. I have looked over your new Text-Book, & am much
pleas'd with it. The wood-cuts are excellent, & the text is greatly im-
proved. - By the way I had noticed in ed. 1. a little mistake, & turned to the
new ed., expecting to see it corrected. - Under *Araceae*, you say *spatha* usually
surrounded by a *spadix*.

Flour of Wednesday morning came in the next noon! Many thanks for
the plants sent to Mrs. Lovey. We expect them up to-day - & shall prize
them for your sake. I shall, of course, do all in my power to secure
the services of both Sprague & Prestele. When you send next to Bent's
had not better put up the rest of Fremont's Scribble? I should like, also, to have
him look at my *Hydrophyllum* & *Polemonium*.

The plants for drawing are in hand, & will soon be ready.

I am much obliged for your notes of the plants. My object is to describe
only a few of the choicest. That *Papav.* I must have if it be not
Bentham's *Romneya* - make that certain. Surely the Malpig. cannot
be any of *Supremis*. The ovary is single - which is rare in that order.
Just look at it again - & try also, what you can do with the *Krameria*.

Apr. 25 If Sprague makes drawings for Fremont or me, will he do them as cheaply
as Prestele? Another letter from F. says, "let us secure Prestele, & set him
at work on any of the present collection that you think proper &
he can be paid on my return. As many impressions can be struck
off as may be necessary for present circulation." The prin-
cipal part to be published in the regular report. Could Sprague
make drawings this summer, (under your eye) - & send them to
Prestele? Endicott would advance the money for the draw-
ing & engraving if he could have the printing - for this is the
chief consideration with him. If the Poppy thing is new, &
Sprague can draw it at once, - I wish you would see that it is
done immediately.

We are all quite well - but feel Margaret's absence. Mr. Ketch-
ings returned to-day - & the young ones are in high place. George spoke
again in the Church, last evening. The crowd was great, & all were
much pleased. More than 100 add. names were obtained.

Yours cordially,

Wm. Allen

18/4

Wm. S. Gray

Harvard University

Cambridge, Massachusetts

Amund, 1845

Proctor, May 15th 1845

Dear Doctor -

Your letter of Friday afternoon did not reach me till yesterday - & I could not then select the plants for Mrs Sprague. I have been spending two ~~weeks~~^{days} in New York. & might have taken the plants with me had I known of your waiting for me. Nevertheless I send some of the Fremontian, & leave it to you which of them shall be drawn. I will forward more by the next opportunity - This has offered unexpectedly - Mrs Mitchell is to go to New York in the morning -

I took Eliza to the city with me & left her there. She came back tonight.

When I was down, I found it necessary to have the Poppy done at once, & Miss Poole made a fair drawing of it under my eye. I did the dissections myself. Endicott says she will pay for any more drawings. For the enclosed ones Mr Sprague shall receive 2 dollars each, octavo size. (pub. doc.)

Mrs Toney has wiped her perspiration for some days. So that I trust the fever is broken. She took Arsenic - which acted very promptly. Eliza left Madge very well. Herby knocks around continually, & is very happy with his little cousin.

Among the plants selected are several undetermined - among the rest - that thing which I at first took to be Malpighi - that you may dig into it now & then when you have a few leisure moments. I shall not feel easy till it is made out. Perhaps Sprague can make a drawing of it by the aid of my dissections.

I must close - for it is very late -

Yours affectionately
John Toney.

Prof. A. Gray

Cambridge

Massachusetts.

Proctor, May 16th 1845

My dear friend.

I packed up for you last night, (in great haste) some plants from which you are to select such as you think it advisable to have figured. There are others that I will send soon. You will find another (loose) specimen of the *Rhus* there which you thought a "stained" *R. Missouriensis*. This looks as if it had been well fed, & holds its characters. I think it must be distinct. Is it worth it to send the rest of the *Scrophul.* to Bentham?

There are a few more among these last. If any are fit to be drawn, let Sprague do them first. I send the localities of those last forwarded. . . No. 309, 1844 on the San Joachin. No. 551. on the Vintners

a trib. of the Colorado of the West. 485 (1844) Mountains of Calif. (1844)

176 (1844) San Joachin - (empties into Bay of St. Francisco) 408 Mos. of Calif.

122 (1844) San Joachin. 450 (Mos. of Calif.)

759 Shore of Great Salt Lake.

May 19th Your letter of Friday came in good time. I thank you for the notes on *Compositae*. Your new genus *Nicolletia* I sent on to be added to the few plants that I descended for Fremont. It is well named. As mine were written in English (I dare not trust myself in Latin, without help;) I put yours in the same dress. The

Franseria was also served the same way. I put the *Spirulobium* into *Proropia*, for I found that it would belong to Bentham's section (*Bladh. Journ Bot.*) *Stromboscapa* - although an undoubted new species. I found at least the little caducous glands of the anthers. They exist also, I believe, in James's species. Bentham is a rare herbarist.

Do you see that Rich is to come out with two volumes of Botany of the Exploring Expedition? I heard this from Drayton, but could hardly believe it, but now it is officially announced. - two vol. of text, & a 2 folios of plates. Surely he could do nothing without aid. But Pickenip may have done up the materials for him.

May 24 I have dried some *Obolonia* for you, & shall send it by the first opportunity. The arborescence is intricate. This year I hope to determine the character of the ripe fruit & seeds.

Englemann has written to me, & sent the Lindheimer plants that I desired. He says that Young de Cante of my pupil Halsted (whom I wrote to you about, if I mistake not, on having undertaken a journey to the Upper Missouri) spent some time at St. Louis, & have concluded to extend their ramble to the Pacific & Oregon! Halsted will collect plants in good style & make fair observations on them - & de Cante will confine his attention to insects. The plants will all come into my hands - but there will be cross firing between H. & Fremont - & we must contrive some way to work up all the materials together.

Let me know how Sprague is getting along with the drawings. He has hard subjects for his pencil, but will be able to make tolerable figures of some of them. I should like to know how the price that I suggested will do. Three specimens shall be sent as soon as you wish them.

Have you got any living plants from Englemann? He cultivates some rare N. American species, of which you might obtain duplicates from him. *Melospiza lindheimeri*, six species of Texan Cacti &c. are in his garden.

Did you get any thing by the last steamer? I hope you will always put up the botanical news for me. Hooker must have another part of his ferns out by this time. Is it not time also for another number of the Flora of Brazil?

We are all sad this morning at parting with Mr. Mitchell, to whom we have become much attached. He has been spending the last week or so with us. I don't think that he ought to settle down as a pastor - for his health will hardly bear the severe duties of the office. It is probable that he will take an agency of travel for 6 months.

Madge is not strong - & I have advised her going up Mount for a while, & return to Princeton. Jane is much better satisfied at Jamaica than I supposed she would be, & will probably remain there till early in the autumn. Edwin Grant arrived two days ago - & is that same chaff. Still. He knows more, but has not improved in manners. The rest of you are as well as usual. Herbert has had a young cousin with him for a fortnight, with whom he plays all day. He talks about the visit that he expects to make you in a few weeks.

Ever cordially yours
John Torrey

P.S. May 26. It is so long since this letter was commenced that the first part of it is now stale - but it shall go off in this evening's mail. Mr. Torrey has had another severe time of sick headache but is now down again. The rest of us are well. We are looking for a letter from you, & hope it will come very soon; & then Mrs. T. will write -
Yours - J. T.

1884

Prof. A. Gray
Harvard University
Cambridge,
Massachusetts.

End 26, 27

My dear friend -

As usual I begin a new letter soon after dispatching my last: we shall have the cheap postage in two or three weeks & then you will not be taxed with my epistles so heavily. I can after this month send to you a single question, without filling a whole sheet. Often in studying plants I come square up against a wall, as it were - I cannot make an opening for want of means.

I need more books greatly. I often think of Hooker's advantage, - where he can ~~not~~ settle easily, so many doubts, by referring to older works. I have papered over several plants that I may both to you about them when we meet. Did you ever study

Cypripedium pubescens & *parviflorum*? They stand distinct in all our books - & Hooker gives a diagnosis taken from living specimens - but which I have never been able to verify. When I looked at *Cypripedium* last, I could make out but one yellow-flowered species - & that seems to be the *parviflorum* of Salisbury. If *pubescens* is not distinct the former name, being the older, must stand. We have all called the common one *C. pubescens*. The upper sepal is broadly lanceolate or ovate-lanceolate in all my specimens. Did you ever study the living plants?

Then again I am bothered about *Sisyrinchium*. We surely have but one species - which varies according to the soil of exposure - but what shall it be called. In *Sp. pl.* (bot & 2d ed.) it is *S. Bermudeana* (α) (the specific name being a proper one, which seems to have originated with Plukenet or some other father. If the Bermuda plant is the same (which is not impossible, we must fall back on that name as Michaux has done - though

he has another species - which is only a var. according to my notes on his herb.
S. anceps must have begun with Cavanilles. of Michx. ~~refers~~ regards it as
a var. of his own *S. Bermud.* Look at Pluk. alm. 348. t. 61. f. 2. which
Linn. (ed. 2) refers to *S. Bermud.* p. Also at Bermudensis f. Dill. Pluk. 48. t.
41. f. 18. another Synonym. My *S. sp.* fr. kept last year narrow
leaves than ours, but in other respects I see no difference. There don't seem to
be ^{much} ~~any~~ constancy in the length of the spathe. If there are two species, which
is the *S. Bermud.* & which the *anceps*. - or is neither *anceps*? Herbert
(Hook. fl. Bor. Am.) says "that the var. of *anceps* & *immaculatum* are in
reality hardly distinguishable". You must look over your specimens
of this genus & see how they stand.

Another ugly genus is *Smilax* - even the few species of New York
have troubled me not a little. The difficulty is owing not only to
the variable characters of the species, but some to the incompleteness of our
specimens of the brief descriptions in the older books. The character of the
petioles has ^{not} been sufficiently attended to. Chapman promised to
write a monog. of the Southern kinds, & I hope he will at least
furnish us with his full notes on them.

I leave *Melanthaceae* as you gave them in your Monograph.
except restoring the name of *Melanthium* to *Sciranth*. - as you
say must be done, in your N. Car. tour paper

Proctor June 23rd 1845. My dear friend. Your letter of the 17th is
before me, & there is also a half letter (of one sent to Mrs. T. if I mistake
not) that I cannot lay my hand on at this moment - but it will turn up when I
put my tables to rights" - First about our visit to Cambridge. Mrs. Torrey
will hardly be able to set out till next Monday - when (D.V.) it is our purpose
to leave here. We had made up our mind to go on the evening of Commencement

but Mrs. T. had a tolerably sharp chill to-day. & although we hope to break
up the fever at once it would hardly be safe to leave before she has
had two or three well days. I wish ^{we} were already on our way - for
it would do us both good to recreate & enjoy your society. Remember,
I mean, that I am determined not to be a tax on your time. I shall
have quite enough to occupy me in looking about, - & perhaps in doing
a little work that may be useful to both of us. Mrs. T. wishes to
go in the night line - because it is cheaper! but that I cannot agree to.
All to your want - I will bring with me enough of arsenate of
potash to poison all the bugs in Cambridge 2. The Malva (Nuttall's)
shall be put up for you. - I mean was satisfied with that variable group of
plants. 3. *Croton ellipticum* of Nuttall, I had considered the same
as *C. monanthogynum* (*Gynamblosis* - you remember!) - ~~as the same as~~
a plant from Arkansas, sent to be as *C. ellipt.* by N. in (I think) certainly
the same as Michaux; - but hardly *C. ellipt.* of Gen. n. am. pl. *C.*
ellipticum Willd. seems to be only a broad leaved form of *C. linearis*. Have
you looked into Klotzsch's paper on N. Am. *Croton* from Mex. am.
- (bound up with *Tuckermannia* Kl.) You know that Kl. makes *nuttallii*
neposii plant. his *Eugenia* *nuttalliana*. Kl. thinks that *C. monanthog.*
& *C. dijunctifl.* Michx. belong to *Handeandra*, Erioseb. & Indl. - which I do not
- his *Eugenia* will come into *Gynamb.* with a slight change of the
character.

Mrs. & Mrs. Nuttall, & their child are with us - They
came here on Friday last & will return to Phil. on Wednesday Evng. Jane
arrived at the same time. She will probably accompany us as far as New York.
I wish you were here just now, if it were only to enjoy a chemis. We have
had a great abundance of them of very fine quality. If I find it
desirable I will write again before we set out - Yours affectionately
Josh Torrey,

18

Prof. A. Gray

Harvard University

Cambridge,

Massachusetts.



Pinceton, Dec. 25th 1845

My dear friend.

It is now late on Christmas night - & I am once more in the bosom of my dear family. I did not come home on Saturday last - so that my absence from home has been longer than time than usual. I had felt a little anxious about Mrs. Torrey's health, for she had been quite indisposed for week or two before I left. & on my return I was pained to find that she had been seriously ill. She has suffered a pretty sharp attack of pleurisy which confined her several days to her bed, & required active treatment. It was thought best that I should not be informed of her illness, unless it increased. She is now so much better that she came down stairs yesterday, & this afternoon we had her company to dinner. The danger from the pleurisy is quite over - but I have fears about the after effects.

My time has been so much occupied in the city that I have not been able to write - at least such a letter as I would like to send. Two of your letters are before me - one of them at least a fortnight old (it is without date) - the other received a few days ago - (likewise without date - except "Thursday self"). The parcel of accompanying notes were received yesterday - & to-day - immediately after my arrival, I delivered the very acceptable presents to the girls. They will all make their acknowledgements in a day or two, when they get settled down a little. Madge came home of brought with her Mary Shaw, Eliza Knicker, & one of her schoolmates. Some have a lively house. This evening ~~that~~ ~~party~~ enjoyed their sports in the dining room (the large parlor will not be

ready till Saturday) - I think the holidays will pass quite pleasantly. Mr. Holton spends the evenings with us. He gives what time he can spare to Botany - & is daily making progress in some departments of the science.

Thanks for that specimen of *Guttierrezia*. It came in very good order, - but I have not yet had an opportunity of comparing it with *G. Californica*.

I have seen Carey twice - & by this time he is in Buffalo. He seems to have recovered much of his former zeal for Botany. Surely he is mistaken in saying that I ~~am~~ ^{am} not well. I am, to be sure, not very fat - but my general health is good. The biliousness & constipation of system that I commenced this that my appetite has not diminished - & the bronchitis only troubled me for two or three days early in the season.

I have not yet forwarded the parcel containing Fremont's plants - nor can you wish it just now - as all your time must be taken up in preparation for the Oct. lecture. I will, however, if you desire to, look over the specimens, send the parcel immediately away, return to the city.

The specimen of maize (with involucre grains) shall be sent in the parcel - as well as the debate on the Bot. election at Edinburgh. Your letter for Martin was put into Mr. Roberts' hands - & I did not say that it was certainly deposited in the letter-bag of the Haere packet.

I received letters from Hooper & Amott by the last steamer - the latter I enclose, as it is quite characteristic.

I am to remain at home (D.V.) till the Monday after New Year - which will enable me to rest, & look a little at Botany. Our house is now pretty comfortable - & in the spring I hope we shall have a pleasant visit from you - & then you will be able to give us some advice about laying out the lawn &c.

Does Frazer mean to do any more drawings of Fremont's plants? The new specimens will afford some good subjects - & you must select from them, when they arrive, such as it would be desirable to have figured. I have been expecting for the last fortnight some botanical drawings sent home by Fremont. Mrs. F. told me in a letter that Mr. Davell (whose her cousin) would forward them immediately. I suppose they were done by the Scotch gardeners who accompanied the expedition - but if they are not better than the specimens of his work sent to me by Fremont, they will only answer to the general part of colour of the plants. & new drawings must be made from them with the aid of dried specimens. I will forward the drawings as soon as they arrive.

The girls are all in fine health & spirits - & the boys are pretty well. Hastings goes off to the Fair, tomorrow. I must now stop for tonight.

Friday Morning. I have as yet seen only Eliza this morning, as the rest have not made their appearance. Mrs. Torrey has a headache - but is not otherwise worse than yesterday. It is now the midst of winter - & the sleighing is good. I should be glad to be with you, this that vacation - but having been so much absent from my family of late I cannot spare the pleasure of spending the whole time at home - Besides you are certainly too busy to entertain friends just now. I think you must say

this seem - to study without being run down with company; as has been
the case for some time past. I hope they ^{will} come off well - How glad I
should be to have such a fine set of illustrations and maps as you made you!
Then I could be done with some pleasure

Harby is up & busy at my side. He is the first to rise every morning - being
impatient to use his carpenter's tools. Harry & he agree exceedingly well.
"Tell Dr. Gray" (says Harby) "that I send him my love - & please send my 'little plant case' -
I wish him a happy Christmas" All the rest send love - of Mrs. I. will write, or dictate
a letter very shortly. Yours affectionately John Loney



Mrs. Ada Gray
Cambridge

Massachusetts



New York, Jan. 8th 1840

My dear friend.

I wrote to you on Christmas Day, while I was at Princeton, but have not received a line from you since. Are you punishing me for my long previous silence? I know you must be exceedingly busy just now, but I hope you will find time, at least to tell me how you are. On Tuesday I sent you a parcel by Adams; Express - I would have paid the freight, had I not been just then out of change. If Sprague is with you, he might as well go on with the Fremont drawings - I mean in case you are not using the whole of his time for the Lowell illustrations. The rough sketches sent by Fremont will be of use in showing the form of the plants, & also the colour of the flowers. I have sent you only such, as (also hardly clean) seemed to belong to the specimens placed in your parcel.

I heard from Mrs. Perry to day. She is still very feeble, but was able to write. The girls were all well - & I believe the boys were also. Hastings seems inclined to engage in mercantile business. So I shall look out a place for him in some store - (with a pious strict man, if possible) - & withdraw him from college before long. It is useless for him to study if he does not love it - & I do not think he will make either a doctor or a lawyer. We hoped that he would become a Christian & adopt his father's profession - so as to aid in spreading the gospel among the heathen - but he seems far from the kingdom of heaven - though his morals seem to be correct.

On my return to the city I found old Dr. Leavenworth in my laboratory - & ~~entertaining~~ ^{entertaining} on leave on ~~two~~ ^{two}. He returned the following day &

was interested in looking over Semont's plants. He is a Drychop.
of there is but little to be extracted from him.

What do you think of Major Downing's compliment from the Queen
of Belgium? It has made quite a talk here. In the paper. To-day
I was riding in an omnibus with his father-in-law, who told me how
the Major got into such luck. Major Davezac (of N. Orleans,
8th Aug. - memory) when about to visit Europe, advised Downing to send
the Suescien book - as she was very fond of historical presents - &
offered to let it present to her Majesty. The advice was followed.
Of course, in due time the ~~present~~ arrived. Suppose we
send her the Flora? - but then she must present two rings for
we shall quarrel if but one sent. The Major gave a
splendid fancy ball last week!

I have read your notice of Sullivan's Catalogue & descriptions of
mosses - & to-day the extra copy arrived - for which receive my thanks.
When may I hope to receive the collection? I am quite curious to see
it. It would take no great cooking for me to renew my study
of the mosses - provided I could find time to do so. I was once very
much interested in the tiny things.

Dr. Clark says that he either left your Microscope-pamphlet
at some place according to your direction, or returned it by mail.
He feels ~~sure~~ ^{sure} that he did with it what you wished him
to do - & then gave his conscience a discharge - but cannot
now tell anything more about it. The doctor works every
day several hours with his microscope, & I think ~~it~~ has become
a good obsession.

You must write to me soon after you receive this,
for I wish to know what you are doing. The girls
have probably returned thanks for their Christmas presents.
They seemed much pleased with them. The chest-men
are in use almost every day.

I have taken Madge home - or rather concluded not to
let her return. Mrs. Abbott would not tell Mrs. Torrey
what his terms were when she agreed to send the child - ex-
-cept that he would charge barely the cost of her board.
He wished to show his gratitude for our attention to him.
Now the bill has come in - & the board is somewhat
five dollars a week - ^{under - good charge for board} He gives us also, that his
charges are to be considerably increased. I know that his
expenses are very great - & he must remunerate himself - but
I cannot afford to pay so much. It was so at Miss Adams, with
regard to Jane - & I have just paid her a large bill. I think
Madge will get along very well with Eliza's help - & ~~of~~
assistance from some sewing student.

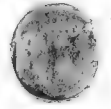
As soon as you get through with the Lowell lecture, I shall
expect a visit from you - or, if possible, go to Boston
myself. Remember me very kindly to George - & give
my respects to Dr. Wymann & Dr. Albro.

Yours as ever - most cordially
John Torrey

I have just closed this letter when you of the
 day afternoon - I was with welcome. On the occasion of
 your being in - I had been waiting till we had
 I don't know what the date is. I don't know till we had
 given. It probably comes in that manner than we had
 one. I think the other part was in the preceding
 place. or in the other part. It is very kind & very
 L.T.



Professor Gray
 Harvard University
 Cambridge, Massachusetts.



New York, Jan'y. 22nd 1846

My dear friend

First of all - pardon my writing to you on paper which is stamped with commercial emblems - I was in haste & could purchase no other at the time -

My last acknowledged yours of the 7th (I think it was) since which I have received nothing from you. Yet I will not complain knowing how often I need your forbearance. By this time you must be fairly underway with the Lowell lectures, & your mind be fully occupied. The preparation of the illustrations here, as usual (I suppose) gives you quite as much trouble as the lectures themselves. I am what you said in your last Prague will not be able to work for Iremont till till you are through. There must be at least a dozen plants in that last collection which I remain figuring. We will work over the rest of when we meet in the Spring.

Would you like to see the specimens sent to me by Bailey (collected by an Army officer about Cooper's Creek). There are some very curious things among them. How much I should be pleased to spend a month with you in studying new & rare plants!

This week I received from Blodgett the fruit of *Batis*. It is in fine condition, preserved in alcohol. Lindley was right as to the structure, as far as his materials would enable him to go. In my specimens many of the ovaries are abortive - but there are plenty of perfectly ripe seeds. They are without albumen, the radicle

near the hilum. The cystidons are large, fleshy & linear-oblong.

The outcrop is coraceous, - the testis membranaceous. I have nobody with me for studying its place in the system. Can it belong to *Urticinae*? You shall have part of the specimens soon. If I make out the true structure of affinities, shall I send a note to Hooker *frimontis* in *Jour. bot.*?

When I left Concord last Monday Mrs. Torrey was about as she had been for the preceding fortnight. The rheumatism is quite painful part of the time. I sincerely hope that it may not settle into a chronic form. As it is there is not much hope of her getting about for several weeks. It will not be prudent for her to be exposed to cold. I have advised her to keep in her room, & to maintain there in a steady & agreeable temperature. The girls & boys were all lively. Harlow has made up his mind to enter some mercantile office, as there is little prospect of his making a living by any profession. He told Mrs. Torrey candidly that he did not love study. Such being the case I don't think it my duty to burden him with the expense of keeping him. It was my hope that he would become a physician - & then either study for the ministry, or follow the footsteps of his father - now, however, he gives us little hope of becoming a physician. Edwin is a more promising boy - with all his shortcomings. I hear from him now & then. Mary is doing very well at home - & it amuses her mother to tractate her. Herby also begins to read at last - & is picking up all kinds of knowledge besides.

We have had a great snow in these diggings. With you it must have been severe indeed. The travelling even to Concord is much retarded. I saw a gentleman to-day who left there at 10 o'clock yesterday - & did not reach New York till 10 o'clock to-day! On Long's Island the snow is said to be very deep. We are not the Bostonians concerned about the Hibernian. There is great anxiety here to know what news she will bring. Surely the English will not commit themselves to hostile measures by the boggardism of our Congress. The idea of war is so dreadful that I cannot bear to dwell on it. - Talking of war - did I not ask you for a copy of Trevellick's pamphlet? Do try & get me a copy.

I talked with Prof. Henry about the vacant Professorship in Harvard - but hardly think he will be a candidate - chiefly because the salary will not support him - he now has 1500 (a 1700 - I forget which) and a comfortable house - he was offered 2500 in Philad. without a house. I don't think he would leave his present situation for less than \$2000 & a house. He would be a great acquisition to Cambridge - but I suppose it would be impossible to get for him so high a salary. Indeed I don't know that I ought to desire his leaving Concord - for he is one of the few persons there with whom I sympathize.

Yours very cordially
J. W. Torrey



Prof. A. Gray
Harvard University
Cambridge, Mass.



Procedon; Sept. 5th 1840

Dear Doctor -

Your letter of Saturday & Tuesday was received
last evening. I am glad you received the parcel
provided by Harkness - & that the Scrophs were all right
- (except the Gerandiacae)

It is a little curious that both Carey & myself paid
that Primula as a Dodecatheon. Neither of us could have
examined the flower - but taking for granted that it must
be a Dod. the only species to which we could refer it
seemed to be *D. dentatum*.

You say that I have not sent the Hydrophyllaceae of Fernand's
list of 3rd Collection. In the first there were only *Eutocia*
sericea & *Paeonia leucophylla* - both of which must have been
placed ~~in~~ in my Herbar. or they are gone - So I don't find
them in Herb. Fern. As to the Hydro. of Coll. 3. I will look
them up - but I was under the impression that (if any)
they were already sent to you.

You shall have good flowering & fruiting specimens of
Plome integrifolia

What did Delandolle's portrait cost you? I should like a
copy if not too dear.

Mr. & Mrs. Ward have not yet visited Concord. I don't know that they arrived in the Torontos last week - if Mrs. Torrey went to New York as soon as she heard the news - returning the next Monday - We expect the whole family here on Tuesday next - but only to stay a few days at present. They will return later in the autumn & perhaps spend part of the winter here.

It would suit me exactly to have a list of Thomasini's plants - In this I could select such as are wanting in my herbarium. It would not be a great labor, if abbreviations were used.

We have had awfully hot weather this week past - & are much in want of rain - none having fallen for nearly a fortnight.

Percy has just sent me several interesting Rhode Island plants, all of which he has probably communicated to you also. His *Hypocrepis adpressa* seems to be the true plant - but it is hardly *supracoccinea*. A *Scirpus* is one called by me *S. mucronatus* in H. N. York. - It is not described in the Mem. Cyp. I have the same plant from Natick, Barb. & N. York.

I hear nothing about the meeting of naturalists in New York - except a notice of the first days proceedings - in which, as usual, the Rogerses occupied nearly the whole time in a talk about earthquakes - Bagley was not there (as I believe) - if I rather think the meeting was a *deum* one. By the way - Bagley informs me that he found *Conostyge* in N. Island!

Thursday. This letter has remained too long unfinished. I have been occupied in lecturing & preparing matters for the reception of friends -

Mrs. Ward, Mr. & Mrs. Bellings, with their children, did not arrive here till to-day. We have now a house full - but part of them will leave tomorrow. Mr. Ward is attending the Dispensary meeting at New Haven & will be here next Wednesday. He brought out for me a large quantity of Indian plants collected by a friend of his - but I have not seen them yet. He says that Wright sent me a work on Indian plants, with illustrations - but I have not received it - though it was forwarded a year ago. Mrs. Ward has not altered so much as expected - considering she has resided more than nine years in a tropical climate.

On looking over my herbarium I find that the Hydrophyllaceae of *Linnæus* & *Journeaux* had been distributed - & that several of them were not inserted in my list. Don't you want all my Hydrophylls? Tell me what else I shall send you. Those unfortunate *Gerardia* - I have looked in every portfolio where there was any chance of their having been slipped in by mistake - & they have not turned up. You may possibly have them. The genus *Macranthera* is here - but that, I think, was not sent to Bentham - as he had been supplied with specimens for himself.

Did I not write to you about those *Enactis* &c. of *Durand* in my last letter? You don't say whether they shall be sent.

Friday morning. We are all bustling this morning. The children were up betimes & are as happy as possible. Mrs. Torrey sends her love to you & so does Herby, who says he will write to you soon. We



J

F. A. G. & Co

Cambridge

Massachusetts



New York, Dec. 18th 1845.

My dear friend -

You may remember my conversing with Agassiz about delivering a course of lectures in New York. The matter has been several times under consideration here; & it is thought by many intelligent persons, that it would be a great favor to have him come. If he will listen to the proposal, the invitation will be presented to him in an imposing form. I think a very good class would be formed to hear him. Will you sound him, & see what are his views. He said it would be necessary for him to spend full three weeks in New York, mostly to study Redfield's fossil fishes, & he might as well give us the lectures at that time. Please let me know as soon as convenient, whether it is probable he would accept our invitation.

I did not go home last week, but hope to get off in the morning. A letter received to-day informs me that all were in usual health.

Monday Evg. - I did not have time to finish this letter before I left town for Princeton. This afternoon I returned & have delivered my lectures. All went well. Next Friday I hope to go back & spend two days with the family. Prof. Henry was still at Washington. His wife told me this morning that she had just received a letter from him. He

was in good health & spirits - bringing the Reports to his view, - of having a fair prospect of making the Incubator what it ought to be. He is pestered down with letters - many of them applications for places. Hope to meet him next Friday or Saturday - when I shall learn what has been done.

Has Pickering left Boston? If he has, I think it strange that I saw nothing of him on his way through New York. Drayton has written any thing more respecting the Expedition's plants. I begin to feel anxious about the business.

Tuesday Ev. I was pained to read in the Boston papers a very unpleasant controversy between Dr. Jackson of Dana - Surely Hayes must have been mortified that his friend Dana was so officious. The making of Gun Cotton was no great matter to boast of - seeing that the process was pretty plainly given in the very papers that brought the news of the discovery.

I have pretty hard work in the Laboratory this winter. A very good assistant whom I trained last season, & who engaged to help me the present season, gave out after the first month, owing to certain conflicting duties at home. It is folly to depend on students of medicine, or any others, who don't mean to devote themselves to chemistry - unless one can find a regular under-taker who looks no higher than to be a servant. Such an one I cannot afford to employ.

Prof. Rice, who at one time wished to purchase our house at Princeton, has been advised by his friends not to do so, lest the project come to nothing - but to hire some place for a year or two - when the world knows better how a school can be supported there - So it is probable we shall be obliged to remain another year at Princeton - as I ~~would~~ not rent my house on any consideration.

Has Kneibens sent the rest of your plants? I directed Hastings to purchase of said him some paper. Can anything be done for the poor fellow? I would like to get him some employment if it was only on my brother's account - who had, more than 6 months ago, advanced him to the amount of about \$250. Did Tuckerman get his pay, & take the plants that he ordered of K.?

Dec. 24th - a rather Christmas morning - for it is between 12 & one o'clock! - Here is this letter still on hand - for I have been pressed too hard to finish it. I hope to be with my dear family to day. It would add much to my pleasure could I have your company. I have been out most of the evening looking up articles for the children. Hastings complains that the people at your Custom House won't send out of P. newspapers ^{unless} by the last steamer.

Olney has sent me a fine package of plants, which I have put into my trunk to enjoy at Princeton.

What a dreadful massacre of the poor heronians! This will surely break them up in the mountains. It seems well that good Grand did not live to see their fearful calamity.

As ever, cordially yours
John Torrey

Prof. A. Gray

Harvard University
Cambridge, Mass.

New York, Jan^y 11th 1847

My dear Friend

Your letter of - came in due time. I immediately took measures for obtaining subscribers to a course of Lectures from Agassiz. There are several circulars circulating privately by active young men. By the end of the week what the prospect is. We think there can be little doubt of filling our rooms - but it will not do for those who give the invitation to run much risk. Some of the folks at the other college have heard something about A. coming here to lecture. Draper told me he wrote that if the great man wants the room in the Lyceum, he can have it - but must pay for it. They ^{seem to} think, up there, that A. is a professional lecturer & will be obliged to them for patronizing him. Very few persons know with whom originated the plan of the proposed course. If the names fill up rapidly we shall keep the matter very much within our own circle. John August Smith says that A. cannot succeed in this city - for that both he & Lyell failed! To be sure the Lyceum lost about \$500 by the course of the Ex-president - but the only night that I heard Lyell, he had about 700 auditors - & we cannot say that he failed. John Aug. is circulating a story here that is calculated to hurt our plans. He says that Agassiz has broached sentiments (in regard to the origin of human races) that are considered, in Boston, as hostile to revealed religion.

Wm. A. Gray
Cambridge,
Massachusetts

of that he has been attacked in one of the pulpits of Boston!
How is this? Can it be possible? I surely would lend my
influence to the diffusion of such sentiments; & if there is
no foundation for the report, I hope you - will furnish me with
the evidence to contradict it. & to assure the subscribers to
this cause, that their religious opinions shall not be affected.
J. Delafield said that many persons would withhold their names
without some such guaranty.

As to the time for beginning the lectures, we think about the middle
of February would do. This would be ^{near} the commencement of
Lent. (as they say) - & many Episcopalians, who are too conscientious
to attend balls of the theatre during the Lent fast, would not scruple
to spend their evenings in listening to speaking.

I did not go home last Saturday. but hear that all are
well there. I have been here since Christmas week.
& will not return yet for some days.

Since I began this letter I received the proceedings of the
Amer. Academy - together with two extra copies of your
paper on Composites. I don't know how the Duke will like
your joke - but should like to have a peep at him at his first
reading of the article. That was a good hit to name
a genus *aphid.* - of the specific name is a happy one

I must break off here. & hasten to town where I have
some business to transact before bedtime - I shall
forward your parcels if you think they are worth the expense
- There is too one from Carey - the pamphlet on Algae - &
one or two other matters -
Yours affectionately
J. H. Torrey

Wiley's *Phytology* - 1843.
I have just been looking over the second edition of
Wiley's *Phytology*. I date of June looking through it
the "Hollyhock" Lewis of Cooche. It is plain in
the date of the translation is 1843. but there is no clue
to that of the original. It has some notes on Composites
& account with - for example
Kuhnia maculata (Kuhnia) - (see also *Phyt.* and *Bot.*)
Senecio *maculata* - *Phyt.* *maculata* - see J. B. Sowerby
Dr. *maculata* - *Phyt.* *maculata* - see J. B. Sowerby
Genus *Sideracanthus* *Phyt.* - found in *Phyt.* *maculata*
- *Jamaica* - found in *Phyt.* *maculata*? *maculata* *Phyt.*!
Do you not see any copies?


My dear friend - Your letter of Friday last came to hand the following Monday. The list of plants will be quite satisfactory to Fremont. I have copy from his copy the localities of the plants of which you sent the numbers.

No. 396 (1844) "Sandy plains among the mountains of California; very abundant; usually growing in tufts"

No. 414 (1843) "Encampment on the Arkansas, mouth of the Fontaine qui bouit River, Dark sandy soil, covering the bottom of the river. Bushes 4-5 ^{feet} broad; 4-6 high."

No. 7. (1844) Valley of the American Fork of the Sacramento River, Upper California.

Since I wrote so far, your letter of Monday was brought to the College, & delivered promptly to Mrs. Loney. She will reply to it in time for tomorrow's mail. I have just returned from Dr. Thimier's lecture. It is a great & responsible privilege to sit under the instruction of such a man. He is delivering a series of discourses on the Christian's course.


Prof. A. Gray
Harvard University
Cambridge
Mass.

I saw Mr. Willey on my way home, & he said that he also had received a letter from you this day. That long expected parcel of plants from St. Petersburg has come at last. It had been some weeks in the public store, & I sent Harlow for it. It proved to be a collection of about 700 specimens sent by the Macro Socy - made by Karoline of Kivaloff in Sargaria & I have also received a large package of Swedish plants, in beautiful condition - but three fourths of them I had prepared already. Do you think it worth while to keep an eye to that Smithsonian affair? If they establish a garden, & a professorship of botany with a good salary it may be a desirable situation. The Medical College in connection with Princeton with an income about 2500 dollars a year hereafter, & probably not take up more of my fund than would be required by a situation at Washington. I suppose the wild weather extends to Cambridge. Here the grass in the Park is quite green, & the river is open nearly all the way to Albany. Remember me kindly to Mr. Adams - & believe me cordially yours John Torrey.

New York, Feb. 17th 1847.

My dear friend -

I have allowed too long a time to elapse without writing to you - My time has ^{been} greatly cut up for a week or two past, - of me are now in the midst of our Examinations. Every night I am engaged till 12 o'clock. & in the day it is necessary for me to study when I am not taken up with company. Every day I have purposed writing to you - but have hitherto been prevented. Last Saturday I did not go home - but I heard yesterday that all were well. Next week my College labors for the season terminate.

It is probable that we shall remove to the city. For the good of the College I ought to live here - & I am convinced, also, that Princeton is not the place for my children. It is very pleasant there on many accounts - but there are serious objections to my remaining there much longer. A gentleman is negotiating for an place of I rather think he will purchase it - giving me rather more than it has cost me. Perhaps we may go back to our old house in McDougal St. - If the Princeton place is sold very soon I shall almost certainly keep our house here. I have not rented it yet - but the present tenant will be glad to have it.

Henry has gone to Washington again - & will remain there much of the time till Summer. He saw Wilkes there a few weeks ago - & as the conversation turned to the Exploring Exped.ⁿ - he asked what was going to be done with the Botany. "Ol" said "W." that is all arranged. He understood W. to say that the

Fans were to be done by Mackenridge - Some other Crypts
by Tuckerman - & he does not remember whether any other
Botanists had been employed - Perhaps W. thinks that
Rich has done all the rest. I am pretty sure that
W. will oppose any more of the plants being given out - for
he can hardly be made to understand the difference between
such a work as *Pennisetum* & *Brown's Modomus*. I have
written to Schering to know whether any further action will be
proper.

So Agassiz has made some new engagements in Boston!
Dr. Stevens, delayed ~~was there~~ nearly a week before he conveyed
to Ag. the resolution of our Board of Trustees - but I don't think
it would have made much difference, had he been informed by the
next mail - for Ag. was sick & tired - & had already partly
promised some lectures on glaciers. His course in the med. College
seems to have been agreed on after our proposal reached him.
He could not send me invitation much earlier, as it was necessary
to be done of a class first. I know that in case of failure, the
depo-blame would come on a few of us who were prominent in
the matter. Feuchtwanger, who was in Boston some
weeks ago, has been circulating a report here, that has caused
some unpleasant feelings - but he is such a fibber, that I cannot
believe him. He says that Dr. Gould told him, that he ^{Ag.} did not
wish to lecture here - that the New Yorkers cared for nothing but
to make money, & there was no love of science among us. Now
although there may be some little truth in these charges, it is
impossible that Agassiz ever made them. - Yet Feuchtwanger

assured me when I met him two or three days ago, that
Dr. Gould said it was so. Don't say any thing to Agassiz on
the subject.

My lectures ~~on~~ on Botany give considerable satis-
faction to the Class. If I had time to dress them up, they would
be more useful - & especially if I had a better set of illus-
trations. I have tried to touch up those notes on *Compositae*
classical &c. but must now wait till the college is closed.

That queer shrub of Florida, sent by Chapman is nearly
allied to *Salicaceae* & may drop in there for a while as a
supplement - but some of its characters are so peculiar that
if there were "a few more of the same sort" it ought to be the
type of an order. I found one or two flowers in ~~each~~ ^{some} spikes.
That were hermaphrodite - bearing a single stamen each - as
in some willows. There is a regular torus, as in *Salix* - but no
floral envelope. The early aments are just like those of many
willows - & have exactly the same scales. The ovary seems, however,
to be monocarpellary, & contains but a single ovule - the structure
of the latter is like that of willow. & the position of the embryo is right.

Do you wish to write a paper for the *1st* Vol. *Smithsonian Trans.*?

Prof. Henry will pay well - at least \$3 the page.
Tuesday. I wrote this for at Dr. Parker's last evening. Last year we commenced a new
mode of examⁿ - meeting in turn at each other's houses, & after work we have a nice supper! I
wonder that an improvement? - Some letters of the 15th have just arrived - in one envelope Dr. Knechen
owes me nothing that I wish paid. I get plants out of him now & then. Wood will miss it if he loses
- types. Your book will drive his off the track - but I lament that you work so hard - It is bad for
body & soul. Better take your chance when the flora is done than make such a slave of yourself! You

How is it that you collect for me? 16th
only reached me to day?

may find some things worked up tolerably well in the State Flora - of course I mean in the part which extends beyond N. W. Am. *Sarracenia heterophylla* is only a var. of *S. purpurea*. . . Endreott is showing out several sets of the State Nat. Hist. having got some letterpress at Albany - of retaining the lithographic stones as his own. I advised him to break up several of the sets into parts - as they will sell better in that way. Of course I shall endeavour to get several copies of the Flora - of them you shall have one. The numbers of Fremont's list I will



Prof. A. Gray

Cambridge

Massachusetts.

get when I go home on Saturday. Maj. DeLafayette's letter to Agassiz was not intended to benefit the Boyerant School - but was intended to record our apprehensions - for the members of the Lyceum expected to attend the course of Ag. in Corby St. The other school was taken by surprise. The Boyerant people are getting tired of the Lyceum of their have been several sharp spots already! They would be glad to eject the Society - finding its value & there is far left than the rent of the rooms (1200 doll. a year!). Remember me kindly to George - & present my regards to Agassiz - Yours cordially
John Torrey

Princeton, March 13th 1847

My dear friend -

Ormy returns to their place having Mrs Torrey handed me your letter of Monday last. I was glad to receive even a short epistle from you. Mine, which I dispatched some days ago to you must now be in your hands.

I inclose the pistillate flower of *Cocculus Carolinus*, of regret that I lost the other specimen. The drawings also are gone, which I regret, as they belonged to the set in my herbarium. Casey was with me on Sun a two last Thursday; I was quite cheerful. He said that you had sent him two sheets of the new work. Washington will send you my sheets of N.Y. Flora Vol. 2. I have not all of the appendix

After I had written so far on Saturday evening I paused for the night as I was very sleepy. This morning I found the sketches & specimens of *Cocculus*. They had slipped into my drawer in the hurry of packing, when I last went to New York. They will reach you, I hope, in good time.

As to ~~the~~ *Selenia* I find not the genus in my herbarium. What has become of it I know not - for I had several specimens of both varieties. I have looked over the *Cruciferae* five times this morning - without success. So my *Warea cuneifolia* with my sketches are gone. I have a notion that I selected them once for you & sent

on. Indeed I am almost sure that I did so - for I have this moment turned to a list of your wants - which is checked off ~~there~~ where they have been supplied. The list in part stands thus

- ✓ "Anamorta Lyric - the fruit ✓
- ✓ Schizandra - the fruiting spikes ✓
- ✓ Cronia - a copy of the plate ✓
- ✓ Cardamine rhomboides - fruit. no
- ✓ Leavenworthia (fruit. no) no
- ✓ Urena - fruit & flowers no
- ✓ Salsola - plant & sketches Sent the whole - no.
- ✓ Gymnandropsis no.
- ✓ "Clematis serrulata from Fremont" - no.

So you must look up these things for they were sent in one of my parcels & they may be lying in one of the pigeon holes of your study or in Sprague's hands.

I purchased lately at auction, a copy of the appendix to Parry's "Two Voyages", containing not only the botany, but the zoology &c - As I already have a poor copy of this work, & you informed me it was wanting in Mr. Sullivan's library, I thought it would be acceptable to him - unless you would like it yourself. The volume is nicely bound in full calf, & once belonged to poor Cooper.

In my appendix to State Botany I corrected the synonymy of *Polygala* - but I suppose my sheets will not reach you in time if you are printing so fast.

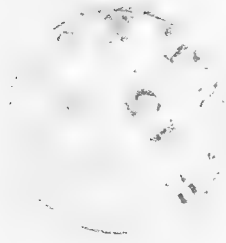
I am now at work again on Botany. The person who was negotiating for our house is so hard bargained that we could not

agree. He wishes the place very much. & I think he will yet be glad to take it - but he don't care about removing till Midsummer or later. This will answer our views very well if he don't give up altogether. We think that when the place is cleared up of the blooming we are out, we shall have but little opportunity of selling it at a fair price. I shall very shortly offer it for sale. We shall have the farm worked on share this year, & so get rid of much care, while our income from it will probably be greater than if we attended to the matter ourselves. There seems to be little doubt that in Ireland the demand for food will be nearly as great this year as the next - & we must raise all we can for the poor creatures.

I am sorry to hear of Deleport's illness. If he dies, what will become of his herbarium & library? Has he written them to the Museum?

We are all in usual health to day. The weather is such as you might expect in March - but some of the days have been pleasant. Very shortly the flowers will appear. I pity you poor fellows in the far north. Another dreary month must pass away before you can even see the bare ground. Don't you wish yourself back in a Christian land?

Thanks to ^{my} Tommasini for his compliments & kind intentions. I hope to make up a collection for him ere long. - I must close or lose my chance for the mail. Yours ever - John Torrey



5

Wm. A. Gray

Cambridge

Massachusetts



Princeton, March 10th 1849

Dear Doctor -

I forgot to mention in my last letter that Mrs. Jorrey expects to be in New York on Wednesday morning where she hopes to see you before she leaves town. It is her purpose to remain there about a week. I will ask her before I close at what place you can find her. I should be right glad to see you here - but I suppose your time will be too short to permit me that pleasure. If I could I would go down to the city - if I knew the new day you would be there. I should like to see you.

I shall take up *Mytiliadaeae* this week - so continue in my poor way, to study our family a little further. I have invited Cass to come here when the weather is pleasant. He is a keen observer of it a capital hand to review a manuscript when it has been roughly sketched - & preparatory to its being worked up further.

I am in pretty good botanical order & can sit down
composedly over a plant without thinking of charcoal
& crucibles. My library is deficient in working
books - but I can study the main points here, nearly
as well as if I were in Hooker's library.

Tell me what you still need for M. Am. Genera. It seems
that I have not sent you *Clome serotata* - at least it is not
checked off in your list. Would good specimens of *Clome*
~~*serotata*~~ *integrifolia* be of use to you? How far will
your first volume or part extend? - to Caryophyllaceae

If I get no fresh plants from Fremont soon, what
shall I dedicate to him of the old stock? If I pre-
pare an article for Smithsonian Transactions, tell me
what it should be. I had thought of new *Feruntaria* -
but it would be desirable to have colored plates, & these
could hardly be prepared from dried specimens, unless sketches
of the flowers were made on the spot.

Harling's Grant will probably forward you by express to day
the 2nd vol. of my State Flora. Believe me on ever yours

John Torrey

P.S. If you enquire of Wiley of Putnam's. Harbings will
tell you where *serotata* can be found. He will meet
you at the College

Princeton, March 29th 1847

My dear friend.

I know that you have no time to write letters - but possibly you may be able to read one occasionally, & I therefore shall venture mine. I trust that the Selcino of Cleome aimed in sufficiently good order for Sprague. He is good at a restoration, but would hardly, I suppose, undertake to separate & reunite the mixed fragments of two species. I was afraid to make the letter too heavy - or it would have been made thicker.

Have you an Asclepias, near to A. purpuraceus, from Sullivan? My specimen from him is much injured, & hardly fit for study. It has sepals, roots, & rather thickish leaves. Perhaps I can make out the flowers - but the fruit is not in my herbarium.

Have you seen Capt. Wilkes lately? Kottler informed Mrs. Tom has he called at the Medical College (I think last Wednesday) & enquired as to my whereabouts. He wished to know whether I would meet him in New York - but Kottler told him he thought my engagements would not permit me to do so. He then said that the next day or the same afternoon, he

would either go to Princeton or to Boston. I have heard nothing of him since. I thought it probable he might wish to see me about the Expedition plants; I have also conjectured that he was going to see of Tuckerman about the Lichens. Do you think that T. would undertake the other plants if he were asked to do so? I hardly think the Captain could have called on you - or at any rate, have conversed with you on the subject of Exped. Botany, without your writing to me at once.

Emerson has sent me his book on Massachusetts Lichens, & I like it much. I see he has thrown all responsibility in regard to Willows on the Duke.

How long do you mean to keep Mr. Carey? It will soon be pleasant enough here for him to come out - but I suppose you can find work enough for him this month to come. He will be welcomed by all the family at Vermont.

I should like to know whether you find anything new by a more rigid analysis of Crocine than I gave the plant. At times I have had misgivings as to the station we assigned it in the Flora. If you need a specimen or two of the plant I can supply you. Send me a proof of the engraving when finished.

Has Mr. Carey talked to you about Chapman's new shrub? I told you that it was very near Salicaceae. It should be placed between that order of Myricaceae - unless I am mistaken in its affinities. I have asked Chapman for more specimens, as mine have been much injured by post-mortem examinations.

Mr. Endicott has promised me two copies of the N.Y. State Flora - but they have not yet come to hand - & Van Benthuysen has just sent me word that I shall have two others from him - as soon as the sheets can be arranged - so we shall be secure - & also Hooker! If Endicott keeps his resolution to divide several copies of the entire natural history into sets, I shall immediately secure all the Botany for our friends.

Tuesday Morning. I have a letter from Mrs. Freeman. She cannot tell when her husband will return, but hopes it will be this coming summer. He has sent home no plants, since that box which was brought by Mr. Davell - & he will not trust those which he collected beyond the mountains, but keep them till he comes back himself. The last letter which the family received from him is dated the 1st of October - but dispatches from the fleet of Commodore Lockton are as late as Nov. 25th. These last require more assistance of Freeman. Mrs. F. hopes that the Dragon force under Kearny, & the U.S. Regiments will procure his release. She says her husband has no sympathies for the war. Gen. Kearny took the Lt. Col. commanding for F. - with discretionary orders, to stay or return as he thought best.

Mrs. Torrey regrets much that she did not see you in New York.
I think she will be obliged to go down again the latter part of the
week - but I suppose you will not be able to meet her. We are
all well except Margaret, who is suffering from a rheumatic affec-
-tion of the eyes but we hope she will soon be well. Herbert talks
about you. It would be right glad to see you. He learns fast. It
spends much of his time in my study. Harry is quite a good boy
if well, if spared, make a fine man. He is at a school taught by
a competent man.

Are there any vascular plants growing here that you wish me
to secure for the seed part of your Genera? It is well to look
out ahead, & to make as many drawings as possible from fresh
specimens. -

Give our kindest regards to Mrs. I believe me
ever yours
(John Torrey)

Ponceña, April 23rd 1847

My dear friend -

You - & Carey's letter (which shall I call it?)
came yesterday. I greatly regret that my specimens
of *Selenia* &c. never reached you. I now distinctly remember
them putting them up - & I am pretty sure they all
went together. They are certainly not in my herbarium,
as I was obliged to go over the whole of my *Concepcionae*
yesterday, to find them. Every specimen of the whole order
in my collection, was examined. Ask Sprague whether
he has not put them in some corner - & if how he
one or two of the same kind found your own herbarium
a joy to me. I shall be sorry to lose the specimens
for you and sake of mine. *Clematis integrifolia*
is ready for you & shall go by the first opportunity.
Perhaps you will find the last plants in some one of the parcels
forwarded from my herbarium. I keep a draw in my table
for you - which alas is now empty.

The six plates of your genera are very well done -
but have a little of Hegel's Dutch appearance about them - espe-
cially in the lettering. They do Sprague great credit -
& I have no doubt the letter press will equally praise
your work.

Thanks for the sheets of Northern Botany. It is well done & only needs a sprinkling of synonyms to make it just the thing.

I may not have the Asclepiadaceae ready in time for you - but my views of the northern species will be found in N.Y. Botany. I have been obliged to spend considerable time every day lately in poisoning my herbarium. The older portions of it have suffered from worms, & I must kill them off. What I have left for you will never be attacked again. I mean henceforth to poison every specimen that comes into my possession. Have you looked into your willows lately?

Mrs. Torrey has doubtless been much disappointed at not seeing you in New York. She is there still, & will probably not return till near the end of the week.

Mr. Carey must be up to his ears in the Sedges! I have a sort of promise that he will make a visit to Princeton, & he will be so fast in Caricography when he leaves you, that my collection will be flay for him. I should be greatly pleased to go with him over all the N. American species, & thoroughly revise the synonymy. Tell him I know just where he is sitting - & how he found every "new" of them - some happy discovery. Would I not give a raffle to be at his elbow?

Will Sprague be able to work for me this season? Tell me how much you can spare him - if at all.

Thursday. Mrs. Torrey has not returned yet. nor have I heard from her for several days. We are enjoying the fine weather.

The string having opened up, & the birds making sweet music in our lawn. The *Populus tremuloides* is in flower, & the grass is beginning to look quite green.

Again have I looked for the plants that you wish - but they don't grow up. I may grab up a little *Polemonium* from one of Leavenworth's old parcels. Did you ever find out where that figure, made under Swartz's direction, was published? My *Eudicium* is in New York - but I looked for it there, if I mistake not.

In describing the flower of *Asclepias* in the *Flora of N.Y.* I was not altogether pleased with the terms. The crown will do for *Corona staminea*, but some single word for *foli. crown*, or *excalis* would be convenient. What shall we render *gynostegium*? Have you *Decaisne's* *Asclep.* from the *Ann. sc. nat.*? I should like to borrow the work.

What rare *Asclepiad.* have you? I thought I have not laid aside for myself a specimen of *A. rubra* L. (*A. acuminata* M.). Did I ever get back those specimens that you left with Decaisne?

At last I have found, in a little parcel of duplicates, a specimen of *Scleria* in fl. & fr. - together with some pods of the var. with imperfect dissepiment. You can have them if the other specimens are found - otherwise I shall seed them for my own herb. I have concluded to send the *Scleria* of Cleome by this letter - allowing them to take their chance.

Henry returned on Wednesday evening. He is managing the Smithsonian pretty well - but there are so many conflicting interests that he is obliged to yield, on one or the whole - until he brought the trustees over to some of his views, he felt himself in a very uncertain state, & ready to offer his resignation of the vote went contrary to his wishes.

Many persons are quite disappointed that Prof. Agassiz felt himself obliged to decline lecturing in New York this spring - but we shall (D.V.) expect to hear him next autumn. This, as you once said, would probably aid our Med. College somewhat if he lectured out of term time. If he could favor us pretty early in August (when our preliminary course begins) - & so overlap on the regular lecturers, we should be well satisfied. If he is with you at Cambridge, give him my kind regards - & remember me affectionately to Cass, - who I suppose, has not left you yet.

As ever, cordially yours,

John Torrey

Write of Washington
Mum the
side is so
in *Scleria*

Providence, July 14th 1847.

Dear friend -

I was absent in Washington when your letter arrived - as it would have been answered before -

The enclosed specimens are what you asked for. I hope they will answer your purpose.

I went to Washington (at the expense of Uncle Sam!) to see St. Emory of Popof. Esq. (just appointed Maj. of Cavalry) who collected some nice plants on a march from the frontiers to California in the autumn of last year. He has given me the whole of the specimens in fine order. His most important collections were made in going from St. Lee to St. Diego. He succeeded the Rio del Norte for some distance - then struck off to the west till he reached the valley of the Gila - which he followed to its confluence with the Colorado - when he again proceeded west to St. Diego. The plants are very good - especially those from the Gila which, being California, must come into the flora. I will bring the whole with me to Cambridge.

Mr. Lowell, Port. St. N. Y.
N. Y.

I have recd. a letter Maj. Eaton, informing me that he had sent by Mr. Atwood, a collection of plants from the the the grounds. They have not come to hand - but I expect to find them in N.Y. He said that another officer (a Doctor) was collecting largely for me.

Can Mr. Sprague make about 50 drawings for Maj. Eaton before next winter? - or sooner? He would like to have them for his report, to give it interest. Maj. E. would, I suppose like them done like those of Fremont - & would pay the same price for them. He had a painter with him, who made pictures (that show the habit of coloring) of more than 100 species - but they were left in California. Maj. E. was obliged to return at half an hour notice, so that he had only time to make his botanical specimens. He gave orders for the drawings to follow him - & they are expected daily. They will aid Mr. Sprague to some extent.

The Mc. Gilverays came here a few days ago & remained only three days. They were to accompany me to Washington - but Mrs. G.'s health gave way - & they were obliged to give up the trip. I suppose they will not even go to Boston - but are by this time on their way to Canada.

They will remain till next spring at their Station.

The time of my going to Cambridge will depend on you. for it is hardly worth while for me to go while you are so busy. - I might, perhaps, be of some little use to you for a day or two. Is Carey in New York? I should be glad to see him here -

As to the Philadelphia business I can give you but little information that is satisfactory. The appointment is deferred till September. There are many candidates. Ellet of S. Car. Coll., Little Benny, The Rogers' family; Page of Washington - probably Parker of the Mint of N.Y. Some of my friends have put me on the list - but I have taken no active measures. I don't mean to take any till I am assured there will be at least an even chance of success. I am going to meet Bache this morning at the R.R. Depot. I travel with him to N.Y., with Prof. Henry - that I may talk the matter over. The ~~date~~ income will be reduced one quarter (the number of students being the same) - & extra apparatus will be needed. Then I shall probably have to relinquish Botany ^{if I get the place}. I know not what is best - but shall endeavor to find out the right path. If I keep my place in New York, I can probably have work at Washington for several years, to the amount of \$1500 a year. - Henry has

informally proposed a place in the Smithsonian, viz. to take
the Department of Organic Chemistry, & attend to the Natural
History - particularly Botany - but his plan was not definite
& I will talk to him about it. The salary will be \$3000.
The place will not be ready for occupation till next year
I must break off, as it is time to get ready for meeting
Bache. -

Yours faithfully
J. Torrey

Pouseton, July 15th 1847.

My Dear Friend —

You probably have received the letter which I sent you a day or two ago. I now think that it is probably better for me ^{to} wait until about the first of August before I visit you. By that time your book will be nearly or quite printed & we can work a little together.

Yesterday, I learned, in New York, that Mr & Mrs W. C. Gilroy had gone to Boston - instead of proceeding to Canada as I supposed they would. You have probably seen them - & if they are still in your neighborhood remember me most kindly to them. Had I been ready, I should have gone directly and met them.

Shall I send you at once the Compositae of Maj. Emory? You may perhaps be able to give me, on a page, some general notes of the more remarkable ones, according to the dates. Maj. Emory, in his notice in his Report, only such plants as will give a little interest to his narrative of ~~his~~ Topography. I will say what I know, in a cursory way, about the rest - & then we can take up the collection more leisurely. Such of the Compositae as you

think had better be drawn by Sprague. can be commenced
at once - I have the blank orders that will enable me to
draw on Emory from time to time, for remuneration. When
I go into Cambridge, the rest of the collection shall be brought
along. Indeed I think it will be best to forward you the
Conferences at once.

What do you think of ~~Griffith's~~ Griffith's Medical Botany? He
has been very industrious, & brought together a great mass of
matter -

I talked with Bache & Henry on our way to New York -
They think my chance will be far better, for the Philadelphia
place, now that the election is postponed. They advise that nothing
be done for a week or two - & then Henry will visit Philadelphia
& see how matters stand. If there is not a good chance for me
I had better withdraw my name.

Did you send me that copy of Ward's book? I had one
from the author - I have laid aside this second one to go back
in your next bundle.

Dr. Gilman says he went to Cambridge, & found his way
into your den - but the lion was not there! He much regrets
not seeing you -

The copy of Ward, to which I alluded above, & Martin's work on the
Botany of Norway; were, I suppose, the books alluded in a letter of
Mr. O.P. Willis, received about a month ago. He said that you put two
books in his hands for me, which he would bring with him to Princeton.
They were left on my table while I was absent.

The papers on Carices, by yourself & Carey, in the last No. of Silb. Journal
(an extra sheet sent to me some time ago) - are very good. The history of
Carice tobiacea is really curious. How long it often is before such matters are
"knights out"

I forgot to mention in a former letter, to warn you against soaking in
your mouth, any of the Dept. Sped. plants - because they have been pretty
well dored with arreniate of tartar.

Did I tell you that Henry will positively stick to the Pruthsonian?
He means to sink or swim with it. I have always looked forward to
a place in his Institution, as, ~~with~~ a comfortable support, with
the opportunity of attending to Botany. If he can make a situation
where I could be useful, I should prefer it to the medical College in
either N York or Philadelphia.

I brought my letter to be filled up by Mrs. Loring - but she pre-
ferred writing on a sheet of paper, & filling it. I have also will
send you a letter soon. We are all at home now, & have
no one staying with us, but our most excellent friend Mr. Mitchell
(whom you have seen at our house). He arrived here yesterday - & being

What I was writing to you, wished to be kindly remembered. Little
Hubby is leaving his ~~leisure~~ as usual, & spending much of his
time working under the trees. Harry is a good boy, & is likewise
making progress in his studies. Harbinger was well yesterday.
Wiley & Putnam ought to raise his salary. Mrs. P. promised to do so about
two months ago, but has done nothing since. I have a strong hope
that Prof. Henry means to take him as his private secretary. This will
be light service for him, with good pay, & abundant opportunities of
seeing new things. Prof. H. did not make a decided promise, to him
but said that he must not engage to stay more than six months at
10. of N.Y. This is only between ourselves at present

Do you wish a few seeds from Maj. Emory's plants? They look
fresh & sound, & I think most of them would germinate? Shall I send
them with the Compositae? Kind regards to George

Yours affectionately
Abner Torrey

Tell me whether I shall send my sheets of *Shale Botany*, vol. 2nd. I am told that copies of that vol. have long been ready for distribution at Albany.

Holden will look for *Nemopanthus* in Desv. *jour. Phys.*. I am almost certain it is not *Nemopanthus* in that work. Has an author a right to change the orthography of even his own names, if only they are glaringly incorrect?

I have ripe fruit of the two *Trigonias* for you. I then when I next send a parcel to Boston

You wrote for the localities of the following numbers of Fremont.

- No. 423 (1844) *Gilia deflexa* n. sp. Gr. Vesper River - sandy soil. May 7.
547 " " in Fremontii " - Uenta River, among Cedars, June 2.
519 " Some mistake about the number? In the margin of the list, I have written "*Venaria didymocarpa*." The date is May 20.
279 " (I am not certain whether you wish this locality; as the number is blotted in your margin). The locality can be found in the Report. - The date is April 13-14.
313 (1843) Kioway Creek, sandy soil. July 10.
556 (1844) Du Chesne of Lake Tohos, among Cedars. June 1st.
345 (") " A shrub a small tree, 10-12 feet high Naked sands of upland. April 18-19 (This must be in mountains of California).
324 (") Loose bare sands. April 23-24.
401. " Rocky & gravelly. April 25
414 " Sandy - stony. April 30.
484 " Rocky hills. May 31. "Immediately on being taken from the ground the flowers closed"

Did I tell you that Chapman's new Florida plant, which he thought belonged to Santalaceae. is near Sabiceae? There is, however, but a solitary ovule in each ovary - & the fruit is a drupe.

Remembrance must be given up. Prince Maximilian's Travels - (of which we have an English Transl.ⁿ with the orig. German plates, at Wiley & Putnam's, - only \$150) - were published in 1838-41. The last part contained two bot. appendix by Nees - of which I have seen two years. Is it not strange that Sabiceae was not taken up by Endlicher in his 3rd Suppl. 1843?

I know not what has become of my Leptodactylous. I sent you all the Poem. that I had. Perhaps they will turn up. Have you not surprised to see the long winged Scorpions? They found ~~one~~ ^{was} at Wiley & Putnam's while they were taking account of stocks.

Our Medical Commencement is to take place on Thursday & the graduates about 50 good fellows.

I left all well at Princeton last Saturday. The girls cannot bear the idea of leaving the Country - especially just as the pleasant season is coming on. The boys too will feel the change - Mrs. J. is quite ready to do what will be most advantageous for us all. I feel very unsettled. I hope to know very soon what we shall do. Unless the house at Princeton is sold, I must remain there for another year.

Write soon - Yours faithfully
John J. Moore

down by express. When you have examined the rest of Emory's plants
 I should like to know their names. as I must send him a little article
 for the appendix to his report, & will not have time to prepare it after
 the Med. College opens. We begin this year in October.
 We are all pretty well. & are living much after the old way. Mrs. Torrey
 is very sick & sends you her love. Yours affectionately
 John Torrey

Providence, Aug. 25th 1847

My dear friend

You must think it strange that I have not written
 to you since my return from Cambridge. I have, indeed
 been negligent but not indifferent, for I have thought much of
 you every day. Bailey must have called on you by this
 time. He spent some days with me, & purposed visiting Boston
 in a few days after he left Providence. I have heard
 of him since through Olney, with whom he spent an evening
 Bailey found the *Zosteria* in fruit on Long Island & Staten Island.
 - on his view of the scutellid spores of

Prof. A. Gray
 Harvard University
 Cambridge, Mass.



Wm. A. P.

genus & in *Najas*: the sheath of
 Our common species has the anther decidedly un-celled. It is
 in a plant from Hall. After we become acquainted with the male flowers,
 they are discerned without great difficulty. The circulation is seen
 to great advantage in the young leaves of *Caulinia*. Bailey told
 me that he had seen it in this plant.
 The filaments in the leaves of *Zosteria* are not spiral vessels. I

Princeton, Oct. 7th 1847

My dear friend -

On returning to Princeton last evening I found
your two good letters of Sept. 28th & Oct. 1st. I had
been absent a week in New York, delivering some botani-
cal lectures, as part of our "preliminary course"

I should you know, attended the meeting of Naturalists
& seemed greatly pleased with the proceedings. I have
not yet had any detailed account of the doing - but I
suppose that Silsbee will give ~~the~~ ^{to us} ~~the~~ in his
next journal

I thought that I had often talked to you of my old
friend Mr. Pierce. We were curators for many years in
the Lyceum of Nat. Hist. & made numerous mineralogical
excursions together. He very often went on long journeys ^{long} for
those days alone on foot. When he returned, he always
reported verbally to the Society his Discoveries. ~~It~~ It was
his practice to bring his specimens nicely wrapped in paper
& ~~in~~ ^{packed} in a small canvas bag, which he laid on his left
out of sight as he sat at the table. Then one by one
he would bring out the minerals, making a little talk over
each specimen. It was always an interesting ^{affair} well
as somewhat amusing occasion, when he returned from one

of his excursions. We wondered when he would come to the
bottom of that little knapsack! He was a most amiable
& worthy man, as well as a jealous of sharp sighted mind-
-er. You will see our names & some specimens in the
2nd ed. of Cleaveland's nummology. From the material
which he furnished me, as well as from my own collections
& observations, I made still more extensive contributions
for a 3rd ed. of the nummology - wh. also - is still in
the future. Many years ago I sent the author a consider-
-able quantity of mss. for his book. It is a long time
since I saw Mr. Peirce. I don't I received your letter I
was not aware that he closed his mortal career
Mr. Peirce was, for many years a correspondent of
mine - but it is a great while since I saw him. He
was a pretty keen bitant, but at length seemed to
have become tired of plants.

The illustrations will bring you more money & involve
time too, if you keep them ^{with} in your own hands. The
bookeller should a large part of the profits & make
slow returns. Most of the subscribers will remit
money for their copies. & I, after you take the
cream, the slow sales may be effected through a
single house that will be contented with small profits.
Herbert (formerly with Bailey & Selman) would be glad
to serve you on ~~a~~ moderate terms.

When I go to N. York I will send you the Collyer Bot. Illustrations
& try to get along with what I can patch up. After three
more lectures, which I am to deliver next week, I purpose
giving one a week during a considerable part of the
winter - Perhaps you can let me have a few of them when
you are further advanced in your course. I must get
up a set for myself should I ever lecture on Botany
again. We could both make a good set, now that
we know our wants. When you have a half hour
to spare I wish you would make me out a list of plates
you think would be a pretty full set for about 15 lectures.

Mr. Spencer has been down with Dr. Gilman's microscope.
He stopped a day with Bailey - who was rapturous in his
praise of the instrument. It resolved the Neo. Hippocampus
without difficulty, - of this object was sent out strong by
Dacchetti as one of the severest tests used in London. It also
brought out lines in other Infusoria - of much more difficult
resolution (says Bailey) than Neo. Hippocampus. Mr. S. has
returned to make arrangements for removing to health
- which may take place next spring. I am sure he
will succeed.

Spang wrote to me that he would be in N. Y. by
the 10th or 12th. His lectures are to begin on the 15th.
& I think we shall fill the room. The Trustees
have had the sd. reflecting room nicely cleaned up, &
have offered it to him for his investigations, while he is
in the city.

I shall take care that he calls on the Careys. I shall
with probably attend his lectures. We think that our
tickets will soon be at a premium!

—
We cannot tell yet whether our class at the Medical
College will be large. The prospect is fair. We
have improved the building in some respects. An ad-
ditional story has been raised on the rear part, &
an excellent dissecting room finished in it. Dr. Clark
has been made a prof. of physiology &c. You
know what I think of the doctor. He is hardworking
& of fair mind, but without genius. His faculty
of colleagues dare not speak very highly of him.

—
We have not yet decided when to board in N. York.
I shall not return till the middle of November. Elizabeth
& Madge will go down next week to hear Agassiz.
Jane was to return this day - & we were to see
her this evening.

—
In examining birds for my lectures I found that in
Philadelphia (Conn.) they are concealed in the base of the
pellets as in Platanus. This fact is not mentioned in any
grey books.

I learn that Mrs. M. Gilroy has a daughter &
that both mother & infant are doing well.

Kind regards to Lady Jane & your brother

Cordially yours
Wm. C. Cress

New York, Nov. 27th 1847

It is long since I heard from you directly; but Haskings informed me some time ago that you had received my last letter. If you have had your time as fully occupied as I have had, there is sufficient cause for your silence.

We have now been settled here for three weeks, & are well satisfied with our quarters. The house where we board is very pleasant - of our fare all that we could wish.

By this time you must have nearly completed your *Millers Botany*. Pray send me one of the last proofs. When is the general book to come out? It will sell pretty well both at home & in Europe.

Agassiz completed his lectures here last Tuesday night. He fully sustained his reputation. All who heard him were delighted with the man. We gave him the entire use of a large room in the College, where he had every convenience for his pursuits. Two artists were drawing there constantly. He attended several hours,

every day, & while prosecuting his own researches, made very many beautiful demonstrations to some dozen or more gentlemen who were engaged in Nat. History. The receipts from the regular course were a little over \$1000. He volunteered three or four lectures on Embryology & Zoology to our medical students. To these we invited a good many of the more respectable members of the profession, so that the room was well filled. Finding these subjects attractive to his audience he extended the course to six lectures. When it was terminated, the class held a meeting; passed some complimentary resolutions & subscribed for a testimonial of their gratitude. With the subscription a handsome silver box was purchased & after a suitable inscription was engraved upon it, the cavity was filled with \$250 in half eagles. At the time was short, between the close of his lectures & his departure from the city, we collected up what we think otherwise have got. I know of some other subscriptions which came in too late, but were probably handed to him after the formal presentation. We have thus made up for him ~~the~~ nearly \$1300 - which is pretty well for New York. Dr. Storer called on Speer & Tilton, & induced them to send Agassiz a

free ticket for a passage to Charleston in their Steam
Nathan. He sailed this afternoon, & expects to return
here by the last of December. On Thanksgiving night
he gave a lecture on Geology at Brooklyn. where he
has been staying since he came this way. This lecture
probably gained him \$100. He seems in very good
health & spirits.

I have received a letter from Hooker. It was written
on a sheet containing a Kensington Circular soliciting contribu-
tions to the Botanical Museum. Probably you received
one of the same. Dr. Doe is to be gone three years! & was
to sail in a week from the 1st Nov^r, with Lord Dalhousie the
new Governor general of India. Lord John Russell has
granted £800 towards his expenses in India - & at Bombay
he will be attached to the Admiral's staff, with full pay
& gratification, & £300 a year to spend in botanizing on shore.
Three or four collectors will accompany him.

Nov. 29th I send you a letter that I lately received from
Rugel, but hardly know whether to take his plants or not.
He is rather tricky (I think) - & will probably keep back the
rare & new species. I am willing to give him double price
for such as I want - & think I shall tell him so.

Fremont seems to have got himself into rather a bad fix - but we shall see what his father-in-law will do for him. Of course there is no danger of his being condemned - or even of losing his citizenship - Indeed I cannot but hope that he may turn the tables on his prosecutors. I received a letter from him a few days ago. His plants were all left in California - but ^{he} ~~she~~ gave orders to have them sent round by water. I shall get them one of these days.

Bridges is here again! He arrived about a fortnight ago. I leave to-day for Canada. He is the same old experienced - notwithstanding he is now Sir Harford. I think he will set out in the Spring on an exploring journey, either to California or to South America.

Agassiz gave me the other day a letter of some botanical pamphlets from Desfries - which ought to have reached me a long time ago. They were brought out by Desor. at least the letter states so. - You probably have a set of the same.

Remember me very kindly to Lady Jane & your brother.
Yours faithfully
John Torrey

California, with orders to be sent round by the
first vessel. They are expected here very soon,
& will fall into my hands when they arrive.
I am requesting for a pretty full collection
of plants made in the Kootenai Riv. by the Rev.
Dr. Spalding, & sent by him to the National
Institute. They will be sent, as soon as cer-
tain formalities can be attended to.

Dr. Griffith is very desirous of seeing *Miquel* on the
Piperaceae. Do you know the work? & how
can he obtain it? He is now gathering
materials for a work on Botany.

I should like to have spent my vacation with
you - but your time was too much engaged with
urgent duties - & I thought it better to wait
till you were more at leisure. Present my
high regards, & the congratulations of the New Year
to Miss Corwin - as well as to your brother,
& believe me, as ever

Yours,
C. C. Torrey

New York, Jan^y, 5th 1848.

Dear Doctr

Your short letter of "Thursday" came a
few days before I left town for Washington
& I meant to have replied to it by Adams &
to have sent a parcel by him, but other
duties prevented. He will tell you about
our having met at Wash^g: as well as in N York.
I spent my time very pleasantly with
Prof^r & saw much of Henry, Wilkes, Fremont &
Emory is still there, & greatly wishes his list
of plants. The first lesson day you can com-
mand, let me have the names of such as you
can make out. If Emory could have had
the money I should like to have had of ~~original~~ ^{twice}
the plants - but when the price was ~~too~~ ^{too}
what I told E. they would cost at the outside
this was an end of the business. As for S.
I changed only \$2 for Fremont, I thought myself
safe in estimating the cost at \$3. You know
that me only with a few dissections. & these of
such parts as are barely essential. Perhaps

with this understanding Mr. S. will draw half
a dozen of such as you may select from
the plants of Maj. S. in your possession. If
he should undertake them, they will be needed in
about a fortnight from the time you receive
this.

I have received some nice Mexican plants from
Dr. Helvid. I have selected a few duplicates
for Beutham. Do you know of a good chance to
get them to him safely? Dr. Edwards, also, has
sent another parcel - from Monterey.

Sorry I am that you are obliged to leave the
Lichens out of your N. Botany. They are more
studied in this country than the mosses. Try
to get them out in some journal. so that Extractions
may be obtained by our botanists.

When I was in Philadelphia last week I
enquired for Nuttall - but his whereabouts was
not known. Dr. Gauntzinger told me that N. refused
to tell where he lodged, & that he behaved queerly -
having called only once at the Academy since
he arrived in Philadelphia.

Wrightzema, has been here. Having been un-
successful in making a bargain with booksellers
to publish his work, he went to Washington
of these applied to Beutham & Fremont. They told
me it would be printed by the Government - but
I could not learn whether it was to be paid for.
I think it probable, however, that he will
either receive some compensation for his
labour - or that the Govt. will give him a situation
in the Army as Surgeon.

Fremont seems little concerned about the result
of the trial. I say that when it is over he will
prepare for another Expedition. I told him that
I coincided him in having taken a downward step
when he passed from Prof. Eng. to be a mere gunpowder
man. He rather agreed with me - & his wife
was decidedly of my opinion. He says that he
wishes to complete the Survey of California, &
then to prepare a more complete account of the
country & its productions, than has hitherto appear-
ed. The plants wh. he collected in his last Expedi-
(except those sent back from the N. M. by
Dr. Mc Donnell) were all left in good order, in

New York July. 18th 1848.

My dear friend

Your letter of the 17th - had been too long unanswered, when your second arrived, reminding me how negligent I had been. You must be indulgent to me about these times, for I have much to do. The examinations have been some time in progress, I occupy every evening, until about midnight. In my lectures I am on ~~the~~ Organic Chemistry, which needs putting up every year, more than the rest of the sciences. The close of the session is, however, near at hand, & then I shall be left hampered.

Your first letter enclosed - figure of *Streptanthus*, & you wished some information respecting *S. obtusifolius* & *S. maculatus*. Unless I send to Poncelet for the portfolio containing that genus (& I could do so without much trouble, as there is a student in the Seminary who is acquainted with my Herbarium) you will have to wait for an answer until I go home. If you say so, I will forward my portfolio containing *Clematis* before returning to P.

Many thanks for the N. Botany! It is a capital book, & will

Did I inform you that Mitchell has been working at Gambel's plants? I think he has prepared a paper which will be published in the Phil. Trans, or the Ann. Acad. Sci. He sent me fragments of two plants collected by G. in an island near St. Barbours. One of them is a tree, apparently *Asplenium*. The other is what he considers a n. s. of *Ranunc. Parnassia* - but I think he has seen before the n. s. It is a shrub, with small white flowers in cymes on short branches. Stam. 10. with 10. filaments. Pet. 4. Stam. 10. I follow carefully with small seeds in each. The seeds with a large funiculus, connective expanded at the umbilicus. It calls the young *Crotophaga*.

do the science great good. I have not yet had time to examine it critically, but shall do so soon. The Lichens of Tuckermans seem to have been done with great care, & I doubt not with-
out help of his housekeeper that he has forced out some fine articles. In the copy of *Brier*, I am also much indebted to you - Mr. Bolton kindly undertook the distribution of the copies of the proceedings of the Amer. Acad. Why did you not send him Tuckermans' Lichens? He seems quite anxious to obtain it - Perhaps, however, it will be as well to ascertain how your Botany He will write a notice of your book for the N. Y. Observer

You have received, I suppose, the 11th. vol. of *D. S. P.*.. What an amazing family *Acanthaceae* has become! There is not a great deal in the vol. to interest an Am. Botanist - I mean in relation to our own plants - unless we are to take in all Mexico - which seems to be almost determined on by our wretched government -

Don't you wish Gregg's plants while studying those of ~~St. Louis~~ collections? What were those plants of Gregg sent to you by Hunt some time ago? They will serve, perhaps in some cases, to make out duplicates of those in the *And. coll.* of which there are

only solitary specimens. I have set Holton, & a young man in my laboratory, at work, in preparing labels for the duplicates of this coll. of Gregg. These dupl. I will send to you - I also the original, that you may share them as you think proper - for I think it likely you will have from other sources, some that were solitary in Gregg's parcel. As I had a few matters ready for you, perhaps I will send them, together with such of Gregg's plants as are ready, some time next week - waiting to see whether you wish me to forward you at the same time those matters from Princeton -

Please let me know what is the plant collected by St. Aubert - It was also in Emory's collection - when (when I showed it to you in Cambridge) you called it *Zinnia* - which is probably a mistake - I have not looked it up - as it got mistaid, & I have had no time to study the thing since it was found - You can return it in your next, or I may have occasion to visit it -

Feb. 20th - I told you, I believe, that I had received from the printer of Littlejohn, five copies of my *Flore* in sheets - one I mean to send you, one to Hooker, a third to Dupuis (whom I promised it long ago.) & the last is for myself. The sheets that I have used thus far are for Holton - you have one or two of them, together with the plates, which I wish you would send in your next parcel. I will have your copy bound - I would be glad to get the plates

closed. but they cannot be done. to please me as Mrs. Knapp (late Pooley) cannot do them for many months yet - her health being poor, & much work having been already performed by her -

I suppose I shall find great improvements in your study when I next visit Cambridge - which may be next summer. It will be a great comfort to walk with plenty of elbow room - Cary comes to see me now & then, & I call on him pretty often. He has my whole stock of Caries, & will put them in complete order. He showed me a letter, with critical remarks on Caries, from Booth - You will see it I presume, in due time.

Mrs. Torrey & some of the children will return to Cassin on Saturday, & I shall follow them as soon as the College business is closed up. We shall, if possible, remove permanently to New York next winter, & march board at P. during the time of my lectures there - as was our plan in former years.

We are all well. Herby is working in the laboratory - as is his custom almost every day. He is only beginning to read with some little facility - but is very quick to learn other things. Give my kindest regards to Miss Jane, & to Mr. Loring, & believe me

affectionately yours
Wm. Torrey

Princeton, May 12th 1848

My dear friend -

Your kind letter of the 12th reached me in good time, & I should have replied to it at once had I not been much pressed, for a day or two past.

So you are actually married - & are quietly settled down at Cambridge! I counted the days, one by one, for some time before the important event, - & would gladly have been present at the ceremony. had it taken place under other circumstances. I was a comparative stranger to nearly all the persons who were present - & then you were all to scatter in every direction immediately after the wedding - so that I should have been left alone, with no one to cheer me. Do you know that a wedding generally makes me feel sad - if you would have made me so in a special manner. I fully believe that you have received from the Lord one of the best of women; & that you will live happily together.

but I have had difficulty in keeping down an under-
-fined jealous sort of feeling, as if she had taken from
me one of my best friends. When we know each
other better, this feeling will give place to one of
a pure, lober's kind. but just now I am half vexed
with her for absorbing so much of your affection that
you won't hereafter have the same kind of intercourse with
me that I have enjoyed so long. I am prepared,
however, to love her as a sister, but fear to let her
see much of me, because she cannot be expected to
bear with my weaknesses as you have done. As
soon as our vacation arrives, I shall make you a
short visit.

I send you what I believe to be sound fruit of *Berberis*
- but have been surprised how generally (except some from ^{seed.} *ashmoo*) they
are abortive. Of *Sageretia* I send you all that remain on my
specimen. The little sketches ~~are~~ made long ago - I can hardly aid you
in completing the anatomy. Of *Stewartia pentagyna* I send a good
capsule - but the fruit of *Gordonia pubescens* is not in my herbarium.

About how many of those Texan plants of Wright are desiderata
in my herbarium? I should like to have some if they are not
too dear. I will take the Kookkookhy plants when Carey tells
me what I want. I gladly pay \$8 for 100 for them. ... ^{thousands}
does not care much for plants that are not indigenous to New
Jersey - I mean to procure them for his herbarium.

The parcel sent to Hastings has not yet been received, but
we look for it tonight. We shall all just some of that
carptological nonsense under our heads. I tell you our
dreams when we meet. Two of the girls (who had been some
weeks in New York - saw by Eliza) returned a day or two ago.
Margaret is there still, but her eyes are so much better
that we expect her home in a fortnight. You were informed
that she was attacked with
med. I believe, that nearly a year ago. She was attacked with
a painful affection of her eyes, that prevented her ~~and~~ reading them
bread. There was nothing to be noticed in their appearance -
was she injured by using them for ordinary purposes - but reading
gave her great pain. Dr. DeLaford says it is a common dis-
- ease of young persons who read much at night. I hope she will
soon be permanently cured.

Did I tell you that our dear boy Harbidge has (we we believe)
become a Christian! He is to make a public profession of re-
-baptism at the next Communion in Dr. Adams's Church. He has great peace
of mind. Do drop him a line now & then, for he thinks much

of you -

Have you seen Nuttall's paper on Gambel's plants, in Proceedings
of Phil. Acad.? Gambel has had some extra copies struck off: I told
Nuttall before he published *Croton* - (which he considered as *Panicum*) that
it was a *Panicum* plant - & I thought, near Nuttallia. He left out
his own remarks - but seemed afraid to substitute mine.

Wislizenus report is out - containing Englemans's Supplement. You can
get it of some member of Congress - but if you don't succeed, I will
let you have the only extra copy that was sent to me, of which
I had intended for Hooker. I have some extras of the Supplement.
I can spare you two of them.

Has Nuttall published a *Linnaea longiflora* from Oregon? In Peking's
notes on Sept Exped-plants, he ticketed a specimen "L. longifl. Nutt."
It seems distinct from ours. I raise to say the genus *Linnaea* has
disappeared from my herb. & I cannot imagine what has
become of it.

Carey is working every day on *Carex* - both my own - & those of
Sept Exped. - & I think he is pretty cheerful.

Did you receive letters of introduction from DeCassine & DeForest

Princeton, July 31. 1848

Dear Doct^r -

Harkings brought me your letter on Saturday evening. I am glad to learn that you & Jane had accomplished so much travelling without an accident, & hope you are by this time safe in Cambridge

The promised parcel could not be prepared in time for ^{your} visit to New York, but I hope to send it by Harkings when he returns to the city.

Hutton would be very glad of a testimonial from you - one that would answer his purpose should the situation in view (a place in the Free Academy) embrace both Chemistry & Natural History. He would like to have it ready for use as soon as you can conveniently prepare it.

The Linnæus brought by Harkings, are ^{ready} all ready. When I told you of my desiderata I had received 1844, most of 1846


and (I think) one or two numbers of 1847. I did not know that ⁱⁿ 1845 the work was interrupted - of therefore asked for the whole of that year. Since I applied for the missing parts various numbers (some of them back ones) have been received. You sent me the whole of 1844 (which I had already) - of 1846, no 1, which I wanted - of 1847, nos 1, 3, 4, two copies of 5, & two copies of 6. I only needed one of that year. There was, lastly, no 1 of 1848. So that out of 15 nos. I only retained 3. I will put the rest in your parcel - as ~~they~~ some of them may have been selected ^{in N.Y.} by mistake, & you may need them to complete your set.

You once asked me about a case of Surgical instruments which you said Mr. Wiley had charged to you - & I told you I knew nothing about the matter, as I had never ordered any thing of the kind. Mr. W's bookkeeper sent me a bill last Saturday for said box - ~~for which~~ ^{amounting to} the large sum of \$113.97! He says it was on your bill - but that he must charge it to me! Are you getting crazy my good friend? I know that I am a careless person about accounts - but as to a case of Surgical instruments, imported by Wiley or any other man, I am perfectly ignorant. The things are entirely out of

my line. I have imported nothing from France; or any part of Europe (save a few books of my microscope) for about nine years. Indeed I never imported apparatus but for Lewis since I left West Point. This matter can easily be traced back by the books of the firm - if they can find out who ordered the instruments. I have an obscure recollection that when you spoke of this matter to me some time ago, you said that Wiley himself was rather uncertain who ordered the box - & put it down to you more or less conjecture than certainty. When I told you that my account was smaller than I expected to find it, I supposed it might be 20 or 30 doll. more - & that sums out to be the case. I settled the matter about the Martins of Verd. (fl. Bras.) rec'd last winter.

I have been waiting for some printed labels in order to prepare you a set of Fremont's plants (2nd Exp.) Only part of the specimens can be sent just now.

What do you think our puzzling *Amaranth*-plant turns out to be? Why *Helianthus lanuginosa* of Nuttall! The old frenchy name state in which Emory collected it bears but little resemblance to the flowering condition of the plant. Surely it must be removed from the genus. If Mr. Sprague has done that drawing of Fremont's can you not have it engraved & send me a proof of it? Fremont has not yet informed me how many species I may have figured - but I expect to hear from him tomorrow - or very soon after.

I have examined nearly ripe siliques of *Stachytarix nataris* B. from Montreal
(Dr. Holmes) - & they have only a rudimentary septum  - a narrow margin.

I see Douglas's Hook. Cey. is only a luxuriant form of *A. glab.* James
plant probably grew on a high mountain & was stunted. In my notes on
Oregon plants I find Hooker's plant placed as *B. of glab.*

Most of the plants that you wanted - either for your Herbarium or merely
to examine - will be found in the parcel to be dispatched this week.
I have divided all my *Fallugia* ^(from Emory & Merriam) with you. Of *Greggia* there was
but one spec^m in hb. Gray - but I have divided it. There is scarcely enough
left for comparison with *Cowanica*. I greatly fear that good Dr. Engelman
has gone too far in making a genus here.

That rough *Argemone* seems to pass unrecognizably into the common
white-fl^d form. I send you some spec^ms for comparison.

It is late & I must break off. The mail closes at 1/2 past
5 AM. & I must have my letter ready to send off before I am
out of bed. Mrs. Torrey will try & make you a short visit
next month or in September. If she & the girls were present
(they have long been ailing) they would send their love to Jane &
you. If it is I will send the love myself. I am, as ever

Affectionately, yours & her friend

John Torrey

is a very poor collector - He snatches little bits - when it is easy enough to take plenty of good specimens. They were more favorably situated for collecting than most botanical hawtells are.

Tell Wilkes plainly what you will do - of what you won't do - I get the contract written out, so that there will be no misunderstanding as to the terms. He will kick of flounder - but finally accede to your demands.

The parcel containing the long expected case, the Genera, &c. &c. came soon after my last letter to you was dispatched. For all which receive my sincere thanks. The case was appreciated by all the family & the girls will tell you their dreams about it. The genera is a noble work.

It does yourself, of our country great credit. When we meet, I shall talk to you about it in detail - My kindest regards to Jane (I will send her my love when we next meet) in which we all join ardently - Yours ever
John Torrey

Proctor, Tuesday night,

May 30th 1848.

My dear friend.

Your letter was brought me this afternoon. You are perfectly excusable, during the honey moon, for not being a prompt correspondent. - I had, however, supposed you had gone on a journey, & hoped you would look in upon us some day.

Mrs. Torrey regrets that her letter to Jane failed. I know that she wrote to her - & of the letter was a very friendly one. She all were waiting for her reply - & now we understand why none has come! She will write another soon. Pray bring her with you when you go to Washington, & leave her with us till you get through your business there.

I am not surprised at Wilkes' late
movement: I hope you will make a good
bargain with him. From the first I told
him that the only way to get the ~~the~~ ^{the} ~~plants~~
plants properly done, was to have them put
out to the micrographers - but he pushed at
the suggestion of said the work must be
done at home. I offered to undertake the
distribution, & to visit Europe for the purpose -
but he said it was out of the question.
On no account would the expenses of a trip to
Europe be paid by Government. I finally
told him that I had no desire to do any
more of the plants, besides those which I
have in hand, - except, perhaps, the Land
with Island Collections - which can better
be made a special study than any other
of the extra American plants. I also ap-
-=red him, that unless you or Englemann
undertook the work it would never be

done at all. Now that Englemann
has positively declined, he will be obliged
to fall back on you - & you can make
your own terms. As to remuneration,
it must be equal to from a five years
work. ^(at the pay the others get 1250-1500 dollars)
- as you cannot finish the job in
left time. According to Pickett's state-
-ment, there are about 10,000 sp. in all
the collections. Of the orig. of Californian
there are what he estimated at 1500 sp. - but
there will not be so many. The rest will
make only ~~8000~~ 8000 sp. Some of the collec-
-tions - especially those which have been
- messed by Nuttall & Rich. - are in a
very unsatisfactory state - & you will
not be able to do much with them. Many
of the specimens have no duplicates - &
no material is left to work on. Pickett's

that Dr. will not agree to his sending the plants
out of the country.

I am glad that you saw Carey. He writes
to me that my Carices will be up by the freight
train this evening - so he has completed that task.
- as well as the Expl. Exped. Carices. I could not
get ready for to-day - my notes on the Kootkooche
plants which I received from Washington. My de-
-termination does not differ materially from his
- but in a few instances I am persuaded he will
change some of his names.

You must have had an unsatisfactory trip
as far as sightseeing was attempted. The time
for so long a journey was quite too short. In
Washington you must have been almost wholly
occupied in looking over plants & talking with Webb
- so I fear that I saw but little. Far
better would it have been if you had left
here in Princeton, & stopped for here ^{for Monday} to-day
have a morning train of Cars that leaves here
a little past 7 o'clock - & arrives in N. York at 12 past 10
- this is about as soon as you can attend to business
in the city. I am really vexed to think of my having
lost the opportunity of seeing her & you - except in

such a hasty way, as to destroy nearly all the pleasure of the visit. I remember me affecting
to her. She must regard me as an elder brother - but as I am such an old fellow now - probably
she will rather consider me a sort of uncle - I am sorry.

Princeton, Saturday afternoon

My Dear Friend -

Great was our disappointment
at not seeing you ~~at noon~~ to-day. I
should have been waiting for you at
the depot, had I not been obliged to
lecture from 11. till 12 o'clock. - I finally
ran home - so anxious was I to see
you & yours. The girls had been prepar-
ing since I received your letter - & were
ready to make you short stay with
us as agreeable as possible. - The de-
-vants also were all aching to see the bride.
- Surely nothing but Jane's indisposition from
travelling all night in the Cars could have
- have prevented your coming. The girls
are so grieved at your unappearance
that they can hardly be comforted. I would

greatly to see you & Jane - for I fear
she will not for a long time see us all
together - perhaps never in Princeton.
Mrs. Torrey is unfortunately in ^{Germany}
of is to leave in the afternoon train -
so that you will not see her at all.
This will disappoint her much. Strange
it is that her letter to Jane should
have miscarried.

I had much
to say to you about that Washington
affair - Don't be hasty in making
a bargain. You had scarcely time
enough to form a judgement of the
collections. Some of them have been greatly
injured by Pich & his daughterman, & not
enough of material is left either to confirm
his doings - or for describing anew. - Piching
has put the plants into families of genera
tolerably well - but he is not well
acquainted with the details of botany. I find

many errors in his names of genera - & ~~for~~
even in his reference to families. It is
a wonder, however - that he knows so much
about plants. - You must see that he
disgorges his notes ~~to~~ on the remaining collec-
-tions. I think he would not have given up
those which I have unless Wilkes had sent
an order for them. - You will get much
of your work done in Europe without charge
- or at least for a moderate compensation.
Some monographers will take nothing - others
may charge high. You must make "the
Committee" agree to what will pay you well
for your trouble - or throw up the job alto-
-gether. I wish I had asked you
to arrange with Wilkes, as to the Algae. Prof.
Bailey wishes to submit the entire collection
to Harvey - Indeed it requires this, as a con-
-dition of his working them up - rather, I should
say - to his determining the species - for the working
up will be done by Bailey. B. is afraid

D. Gray - Questions about *Batis*.

Do you know anything about the "Plant. Amer. pict." quoted throughout by Jacq. in his Select. Stirp. Amer. (of wh. you gave me a dupl. copy) Is it not the work alluded to in the bibl. bot. prefixed to Del. Syst. bot. l. as "ed. additio tab. pictis altera sine anno"? Have you Flora, P. Brown Sam. or on Jacq. Stirp. Amer. herb.? ~~The~~ Some or all of 1835 I think are in N. Y. Herp. library - but you can turn to them if in Cambridge, when you are consulting the lib. on your own account -

Have you Markus. Consp.? Does he seem to have examd. *Batis* for himself? Does Meisner (Jen.) give any reasons for placing it next to Urticaceae?

Have you the Sexan plant alluded to by Leudl. reg. King. p. 287?

* Does Markus prefer it as a new order - or only as a section of some other order?

Seeds of Eupetrum - not suberoid - but erect, as in Crem. (see Bot. of Kolkhiethales) - You had said...

for "Mons. Trécul, voyageur naturaliste du Muséum de Paris" He
is in New York, & will soon make me a visit. He wrote
to me enquiring if I had received letters for him from St. Louis,
so that it seems his arrival was expected - probably by Engelman.
He seems to be something of a chap - for he brought out some
botanical books of his own - on Acquisitions bud - Nuphar
tuber - & roots - &c. What his places are, I know not -

A letter received from Harkness last night says that Hotten
on receiving a parcel from you jumped for joy! Do you know
that our Rev. friend has been appointed Prof. of Botany in the N.Y.
Coll. of Pharmacy? This is neither an honor, nor a source of copper
- but will cause him much hard work: I am told that he is a
Capitot teacher. In Chemistry, I know that he did wonders in Prof.

Tappan's school. I hope the poor chap will get a comfortable place
one of these days. The next letter you write to him address D. J. F. H.
He was declared in the Observer, & I have addressed him with the Esculapian
title. He will send you a long explanation, & beg you to spare him -

Remember your promise to give me notes on Orphea & Latif. Compositae
for Exp. & Ed. - Mrs. Loomis is writing to you, on a dance -

- but was interrupted by domestic calls - so that her letter cannot go
with mine. I shall call your wife Jane tell she forbids me - She

6 /
took you with all your encumbrances, & as you & I were so closely
allied, I know she will allow me to call her by her Christian name.
You have partly promised to make us a visit when you take an
excursion together. It is now very pleasant here; & you may
feel assured of a hearty welcome at Clermont.

I must close or lose the morning mail.

Your affectionately
John Torrey.

Cash wants this return

Pompton, Aug. 9th 1848.

Dear Doctor -

+ Will you please date your letters ~~and~~ mean the year
of month, (as well as the day of the week - which you commonly
designate) ~~for~~ in arranging a map of them lately I cannot
always (by circumstantial evidence) make out the year
in which they were written. Not one in 15 or 20 has the
year recorded - Of the first 15 lying in a heap before me,
11 have nothing but the name of the week upon them, of July
one of them has the An. Dom.

Yours of the 2nd. came in good time. You do not allude
to the arrival of the box which I sent by Harkings. Hope
it has reached you by this time. He probably sent with it
the parcels which you expected -

I am investigating that matter of the "Suspical Dubbe-
-ment" - I hope to straighten it up soon. I did not know
when I first heard of it that the change was made against
me when it was first entered. The charge of \$20. Cash -
to D. S. Jan. 17. 1844. I don't understand. You can refer to your
account & see if those volumes of D.C. prod. are charged to you - W. L. P.

rendered to account of items in my last settlement with them; & indeed
a reference to old account would not clear up the matter - sets
whether ~~the~~ ^{the} votes of Dr. which I had, were turned over for you
or imputed specially for me. If you are tolerably sure that
I owe the \$20, why of course I will pay it. Here is the mischief
just keeping a regular book. I have been so much annoyed
from not understanding my pecuniary for some years past, that
late in the day as it is, I am going to reform thoroughly. My
affairs are in such a train, that by the middle of January next,
I hope to do an entire "cash business" This will save me a
vast deal of anxiety.

There is a new ed. of Emory's Report to be printed soon - if you
shall have a copy of it. I am promised some for distribution.
The Map of Fremont is probably not out yet, for it was not
sent to me with his pamphlet -

Sprague had better work on the new Postulac. if you fall con-
fident it is new. I have a vague impression that I have seen
something like it - either a fig. or a spec. Let me hear of you
of Fremont's soon -

Mrs. Torrey left here yesterday morning, with Herbert, to make
some visits to friends & relatives. Perhaps she will take a run to
Cambridge immediately after Commencement (say about the 24th
of the month). No one will accompany her but Herbert.

What an awful and poor Baker has come to! I fear he
not so deranged, as to be incapable for walking unbidden into
his Maker's presence. I am much pained to think of him - for
there is nothing in his case, on which hope can cling. His poor wife
will not be so great a sufferer as if he had lived a few years
longer. I trust that Sprague if you will not love by him -

Aug. 14th - Your letter of Friday evg. reached me an hour
two ago. I have a chance to send the parcel to New York early to-
morrow morning. I will scrape together such things as you want of I
can lay my hand on.

I will send Sprague a description of the new Fremontia - but cannot have
it ready to go by this opportunity - By the way, Mrs. C. has lost her
bill for a new spec. That is bad for Botany. I had great
hope of some precious collection from her to unexplored regions

Argemone. I find that James in his prod. notes - of I think also in Long's Repertory
called the rough Argemone abstrusa (It is so named in herb.). If you have
the book - see what he says under date of July 19

+ How many Fremontian drawings of former set in Prague ~~supposed~~ family?
Let me know that I may tell the Col.

Mr. Field of the College will take these (Glen St. - but I have not collected
the money - I will get it immediately & remit by letter.

I had seen that ~~was~~ there is probability of Baker's having been drawn
by accident rather than by his own hand - Do let me know the par-
-ticulars in your next -

Streptanthus virgatus Nutt. - if seen in my herb. has unaccountable
marks appeared. Did we not put the (!) marks against some spec. of
which Nutt. had no duplicates - of which we had in herb. Acad. Phila.

I have some roots of Salak, from Mexico, in Breckinridge's care
at Washington. Do you visit them? They were brought by Col.

Erney

Do you know that Greppia, Engl. is Covania purpurea Zucc. pl. nov.?

Thanks for Proceedings of Amer. Acad. Also for extra sheet of
Sill. Journ. - containing Kunze's article on Suen. He is wrong in several
places - but gives good hints. Love to Jane - You do not say how
the good father is. Tell me when you write again. Yours affectionately
John Torrey

Tuesday Ev. Aug. 23rd 1848

Dear Doctor.

This is a busy day with you - but the bustle & confusion will be over by the time my letter arrives. As yet I am uncertain whether Mrs. Torrey will go to Cambridge. She is now at West Point, with Herbert - & will remain, I presume, till Monday. If she goes to Boston it must be soon after that.

You are driving hard, I presume, at those Fendlerians & Englishians. Do you wish to examine my own set of Monte-very plants? It contains many of which there are no duplicates - for those sorry species were obtained, in many cases, by snatching specimens while stragglers of the enemy were watching a chance to catch them! Is Englemann to do Geop's plants? I suppose there need be no delicacy felt by either of us, if we should find new plants among them, about the right of making them public. They will hardly come in my way - but they may come ⁱⁿ your - Halsted has some more Mexican specimens for me - He had about 2000, collected around Vera Cruz, where he left, when he started for the mountains, in charge of the quartermaster - but on his return to that place, nothing could be heard of them!

Edward (did I tell you?) has been ordered to ~~the~~ California, from Monterey - & is now on the march. He promises to collect plants whenever he has a chance. Fremont's projects seem to be knocked in the head, for the present. I have not heard from him yet about those drawings - but shall write again this evening. I hoped to have sent him a proof of the Fremontia, by this time. As to the description - I have been so full of business that I could not stop very readily to draw it up - Besides - ~~could~~ might it not lead Sprague astray if I were to make some mistake about the minute anatomy? He would, perhaps, think that he ~~was~~ ~~was~~ when I saw - & yet he is generally too acute to be deceived in that way.

To-day I sent money for the two genera illustr. to Harkness to forward to you in New York bills. Maclean & Field have not paid me - but I will get it out of them.

The testimonial for Holton (J. F.) can be directed to Robert Kelly Esq. Pres. of the Board of Education of the City & County of New York. Ray sent it forthwith - or it may be too late. It is said that Prof. Horace Webster, who has just resigned in Geneva College, (& who served with me at West Point) will be placed at the head of the Free Academy.

You did not tell me how many of that old set of Fremontian drawings were to be printed by Sprague. I trust he has the original specimens from which several of them were taken. I don't find in my herb. the new *Bushua* which he drew two years ago.

I have received no letter from Carey lately. Is he in New York? I wish he would come here & spend a few weeks with me. We could dig into some tough genera, & sharpen our scimitars into by working & reading together - as you & he were wont to do! I am almost afraid to enquire about Saml. Carey, fearing that he is beginning to run down. He will go fast when the disease takes fair hold of him.

Every day I am engaged in studying Picher's plants, from the miserable bits that he has preserved. Some cannot be determined with any certainty - & others must be thrown aside from the imperfectness of the specimens. I am sometimes relieved by turning to the Koochooskee set of Spalding's or the Cyprus series of Fremont.

Shortly I shall have the remainder of Fremont's duplicates for you - which I mean to send with a parcel for Tuckerman - containing Lichens, Pteridophytes &c.

I am just making arrangements for getting a supply of herb. paper - I hope to have all my plants glued down by Mrs. Torrey & the girls before Spring. Give my love to Jane, & believe me yours most affectionately

John Torrey

Toronto, August 26th 1848

Dear Doctor,

Your kind letter of the 10th - 22nd is before me. It probably crossed one of mine to you - for I sent one to Hastings, who was to forward it after putting my remittance of \$12 into Boston money.

Emory's Report is badly printed. There are some mistakes in my bot. appendix - of very many in Albert's. If the selfsame mistakes keep their word, the 2nd edⁿ will be improved. But Emory has doubts whether they will send me the proof. I don't like the plates at all - I will never publish any more, unless the drawings are done by a regular botanical artist.

I can get no definite answer to my questions from Fremont. He seems to be much pressed - & only writes briefly about a few points that he wishes to be informed of, or he goes on with his writing - So I cannot tell yet whether he will pay for Gambell's plants. I fear, however, there are no funds on which he can draw to aid the Botany of his Expedⁿ.

Glad I am that you agree with me about that Lathyrus. I

could make nothing of it but a var. of *L. palumbus*.

When we studied that *Melva obtusa* year ago, it seemed a good species - but I thought that among Fremont's plants there were specimens that connected it with *M. rotundifolia*. I have now work containing a description of *M. brevis*.

I noticed the radicle was *inferior* in *Sida melocifera*, & also several other points in which ^{this} of other species differ from *Sida* - meaning to consult you about these matters - but I sent off these Melvaceae ~~with~~ in haste & afterwards neglected to give you my remarks. Several of the genera of this family need a complete revision - at least so far as the N. Am. species are concerned. You are probably quite right in thinking that *S. melocifera* of DC. ~~is~~ distinct from the N. W. Coast plant, DC. could not, however, have known any thing about its radicle, as he seems to have described the plant from a drawing.

Your letter gave me the first intelligence of Mrs. Wilkes's death. I pity the poor Captain - who is bereaved indeed. She was a pleasant friendly woman. You have probably heard that the Senior Enders died last week. This was unexpected to me, for I had a business friendly letter from him quite recently. I knew, indeed, that he was ~~was~~ threatened with pulmonary disease - I supposed he might not live a year - but had not the least idea he was so near his end!

I have ^{just} heard from Mrs. Torrey, who is still at West Point. She finds it ^{will} not be possible for her to visit Boston at present - & probably

not till some time in October or later. Mrs. Bailey wishes to make her long promised visit now, while the season is pleasant, & Mrs. Torrey will accompany her to Princeton on Monday. So she will be much disappointed - but still hopes to see you before winter. I hope James's father will continue to mend. She will not stay at Cambridge now, in the expectation of entertaining Mrs. T. & I suppose will be glad to receive her good father as much as possible. Permit to him my kind regards, & best wishes for his speedy recovery.

— Sure enough - that *Geranium Fremontii* is not described in either of Fremont's reports! I had supposed the specific character was given in one of them. Of course I will take Englemann's name for it - should there be no doubt of the identity of his plant. It don't seem to be either of Endler 88 or 89. In several species (those of Endler included) the styles are distinct more than half their length.

No. 97 Endler (Rhor) is not in my set. I send the note which I made on *R. albidum* to *glabra* from Aegion (Expl. Exped.)

The Dalea no. 211. Frem. July 30, 1845 I had marked in my herb. as a *M. sp.* meaning to describe it among Fremont's last collections. Your proposed name (*D. Fremontii*) will do very well for it.

That *Tribulus* (*Halleboellianus*) *maximus* seems to be common from the Arkansas to Monterey. I have it from Gregg, Edwards, Edwards. Can Nuttall's *T. tinjuria* be the same? He has described the fruit incorrectly, if his is our plant. I have another *Halleboellianus* ^{from} *Erroy* with a flower nearly as large as that of *Trib. cistoides*. No doubt - a genuine Kall. - The style is long & slender. The leaves 4-5 pairs. I call it *H. grandiflora*.

Henry is here & wishes a paper from me for Smithsonian Cabinet. How
would it do to publish some of Fremont's plants there instead of in *Am. Acad.*
trans? He will pay well & I give plates - paying for the drawings
from Smith's fund.

I have an article on *Balis* - long journal - which I should like to
see in your trans. if a plate would be allowed. I think there are some
curious points about the plant. Its structure has never been understood
from the time of Koenig. Lindley is partly right as to the fern. flower -
as to the affinities of the plant - but the male flowers are not cor-
rectly described by any author. Would Sprague make a drawing of
it? He sketched the fern. spike - but went no farther. I could send
him all my rough figures - which would be something of a guide for
him.

Monday - Aug. 28th. Tell me whether you expect to have anything
sent from New York soon. I have another portion of Fremontian
plants ready for you. The Coniferae are not ready yet. Of the
rest, I have selected for you whenever I could divide, except in
doubtful cases, where the specimens are single, but where there may
be several specimens, attached to the same species. Where the plants
are regularly skinned, there will no doubt be some more to divide
with you.

I am looking for Mrs. Loring to-day. Give my best love to
Jane -
Yours affectionately
John Torrey

Princeton, August 30th 1848

My Dear Friend

I commence another letter to you before the last has reached Cambridge, lest I may forget what Prof. Henry told me to-day about plates for a paper on *Fecunditate* plants. He will give a dozen if required - or even more - if ready to pay for the drawing & engraving at once: in advance if Mr. Sprague denies it, as the funds are all ready hand for the purpose. He would prefer having the bill for engraving & drawing made out by one person: This would suit Sprague - if he can do both.

Sept. 4th. I have your letter of August 30th. First on business - I was surprised to think how you have been suffering for want of money - chiefly on my account - It is so near the time of the opening of Med. Coll. that I supposed myself to run very low - hoping, about the middle of October, to make leeway of to pay an instalment of what I have too long owed you. I will tell you frankly that my treasury is nearly empty: Thinking, however, that a little would be better than nothing, & as Henry offered me, the other day to pay for drawings in advance if wished, I took \$100 from

him this morning, which I herewith enclose. The money is, unfortunately at a discount, in Boston, but is at par in New York - & will pay any thing you may owe there. Henry gave it to me just as he was getting into the Stage for New York. I hope to send you \$50 about the end of the month. & if soon as the College opens, another instalment. This \$100 from Henry will replace what you have advanced to Sprague for Smithsonian of Fremont.

On turning over a great heap of old letters, I find one from Dr. Hadley, dated June 22, alluding to a pair of Morris gr. which was imported from France for him. He speaks of having received a letter from you respecting them - & that you had forwarded them to Geneva (I being in Princeton at the time). He remitted a draft, which it seems, was a balance, to meet the bill, - he not having sent enough in a previous remittance (the letter relating to which I do not find). Now as a credit for \$98.95 was given shortly after - by W. & P. of the bill which they sent to me (minus 0 yrs of 4 mos. int.) is exactly that sum, I presume it was paid with the money sent by Dr. Hadley, & that you took charge of the business in my absence. If this is not the clue to the affair of the "musical instruments" I am greatly mistaken.

What a strange blunder I made about the ~~Latin~~ side malvaceae! "Superior" was a lapsus, I assure you. I have turned again to my description made when I was studying the Malvaceae of the U.S. Exped. & find that the radicle is said to be inferior.

A parcel of Fremont's 3rd Exped. plants was sent to N. York for you, last week - & I put up with them some Monterey & other Mexican Malvaceae. Perhaps Dr. Carey will take them to Cambridge.

You can do what you please with Fremont's Malv. No 428, 1846. Hook. fl. Bor. Am. part III (containing Malvaceae) was published in 1830 - consequently before Pierl's relig. ~~Manuscript~~

This morning just as Henry was going off, he showed me a box which had just come in from Miss Dix, & was intended for me. It contains fresh plants of Alchemilla. Miss Dix sent me some once before ^{Miss D.} but the parcel miscarried. Henry saw last week in Philad. when she told him she had more for me. He told her to send the box to Princeton - & deposited it in care of Smith's Inst. I took out two or three leaves & some fruit - & Henry offered to forward you the box immediately without expense. The roots will probably grow. I will do for you good. You will get them tomorrow.

I will send the Batis by Carey - or, if he has gone - by some other opportunity.

Hastings Grant came up on Saturday & returned this morning. He is very lovely - & has greatly improved since he became a Christian.

Laird. I received a letter from Beutham, he again acknowledges
the receipt of Moberg's plants - & will forward notes on them soon -
Wallich had been with him distributing Indian specimens. He feared there
would be few for us - as many names were on the list

Beutham finds among the Edwardian Moberg plants, what he presumes
to be *Amoroxicia*. I puzzled over the thing, but should never have thought
of looking among Rosaceae for it! The plant seems to have been known
hitherto only through Moquin's drawing. As Beutham will probably
"make a talk" about it, we will let it alone till he has published his
remarks. I have a duplicate for you

B. says that "Comber's Collection contains much that neither Douglas nor Nuttall
had". Hartweg has a few new things - as yet he has only gone through his
Rosaceae, Onagraceae & Ranunc. Among the former is a very curious species
wh. he calls *Chamaerubus*, with a foliage diff. from any other in the family.
One Ranunc. is new (*R. Canadensis* Benth.) *R. Flam.* "well disting. in H. & Arn. - is
not the European plant - wh. has fr. & style of *propterus*. One *Flam.* must
have a new name: - *R. rhinoceros*, Jy. n. sp. He hopes to have
Hartweg's Mt. ready for printing when he goes to London in November -
If before that time we publish any of them, he wishes our names.

Mrs. Torrey & Herbert are safely home again; much regretting that
they could not visit Cambridge. They would have gone had not Mrs. Bailey been
desirous of returning with Mrs. Torrey - but when they were ready - one of Mrs. B's
children was taken sick - & he has not arrived here yet! Poor Mrs. Torrey - I
greatly lament his illness - Jane is doubtless nursing him. Give my love to
her & believe me ever, yours John Torrey

Princeton, Sept. 9th 1848

My dear friend.

Your letter of the 6th, arrived yesterday, & I am glad you received mine, which I began to be fearful might have miscarried.

In a few days I shall forward you a parcel containing various matters - among the rest, those Fremont plants in Hastings hands. * Carey thinks he will not go to Boston for two weeks yet - & I shall see him in the meantime. You will receive the specimens for Sprague to figure. If more than a dozen, select such as you think most interesting.

Before figuring that Amaranthaceous plant, satisfy yourself of its novelty - I mean as to its being a distinct genus. The new concealment of the fruit is not of great importance - but it seems to be a constant character in the specimens that I have seen from numerous localities.

I am of your opinion that those separate flowers, of a Bombacenes? plant must belong to G. 1846. Fremont would never have collected the fallen (as they seem to be) flowers, without taking specimens of the plant from which they dropped. He could not have thought them of sufficient interest ~~to~~ to bring home without more of the plant. Now among the few plants that accompanied those flowers (further more put up in a small book - as if gathered on some lateral excursion) - the plant G. is the only one they are likely to belong to. The pubescence is the same. Then those specimens have gone

* P.S. These I find have been sent.

fruits about as mature as might be formed while such persistent
leathery flowers would last. The base of the corolla fits pretty well
the ovary of the other plant. When the whole it would not be unwise to describe it.

I have looked again at that other remarkable plant that I conjecture
- red might be a new Bromeliaceae genus. The filaments seem to be
slightly monadelphous at the base, as far as I can ascertain from
the imperfect withered flowers on my specimens.

Since I wrote to you I have been looking over some of Gregg's un-
determined plants - laid aside for examⁿ - & find a single specimen
of *Amarococcus* among them. I must have sent a duplicate to you
- but you shall nevertheless have one of Dr. Edwards'. I wonder what

Euglenmann made of it - for he must have the plant in his set.

It is quite a pretty study - to make out its affinities - but we must

not interfere with Bentham - who first detected it in our collection,

& will probably have something to say about it in Coulter's plants -

Guaiacum angustifolium Eng. I do not recognize in my set of

Gregg's plants. May it not be one of those which I sent you. I

have not other plant of the genus, except the one from Key West.

- neither is *Cuscuta Nicholsonii* in my herb. - at least in the
place where it ought to be, if I have it.

My *Kallstroemia* may be *Chamaecrista tubuloides* - but it is hardy
probable. I have made a note to consult Martius, when I go to

New York. It is somewhat doubtful now whether Engelm's seed ed.
- for which I sent some new descriptions some weeks ago, will be printed

very soon. It ought to be secured, for Bentham will be out with it. I

had called it *H. grandiflora*. Bentham says if we publish any
Californian plants before next November, he will adopt our names. I
suppose he will not reject them if sent in West. I will send you
my specimen for comparison.

In reviewing Baker the other day, of comparing it with *Euphe-
tracae*, I was startled at what you say about *Eupetrum* itself, viz.
that the seeds are pendulous, with the radicle pointing upward! You must
have turned the cockeyes round in examining them. I find them orthodox
You can easily tell the superior extremity, if the nut slips under the knife, by its
being considerably more obtuse than the inferior part. - Come now - this is
almost a set-off for my blunder about *Ridii*! - which however, was only of this pen.

Fremont passed here on his way to New York - & from thence to the
far west - last Thursday. He will have a rough journey of it, as he must
cross the Californian mountains in midwinter!

Did Euglenmann say anything in his letter about *Sagittaria pusilla*?

He writes to me (Aug. 26.) that there is a true *Sagittaria* & that you are
mistaken in supposing it is his *Eclimodorus subulatus*. Eng. is deriving

of working out the pines of California & Oregon for me, &
them out for him. Have you any to add? He will make drawings
of the new species, if any, or of such as have not been figured.

New York. Tuesday I came to the city yesterday, &
went immediately to see Carey. We had a good & long botanical
talk - & then went to dine with his brother Sam, who looks poorly

I hardly think he will go to Cambridge very soon. He has not looked
better for years. His residence in the country, of some small addition

to his income, have done him great good. Did he tell you of his
finding ~~the~~ a rare Chenopod. in the wacke grounds near his house?
He has been looking very closely at Chenopods lately, & settled several
interesting points respecting our common species. If you have
anything for Hooker, I can send it soon, as I have a pretty
good sized box nearly ready for him. Give my love to Jane
& believe me cordially yours. John Torrey

Hutton was singularly pleased with his visit to Cambridge. He will stand a good chance

of getting the natural history department in the new free college of N York - but can hardly expect the Chair of Chemistry. **Ellet** will probably be the man. I have just heard

that Loomis (who has been two months at the west) has accepted our appointment. He will take Henry's place. I saw Prof. Davis when I was in New York - & he said the University people wished him to succeed Loomis - if L. came to Princeton. He expressed a desire to have the Chair of which I will doubtless obtain it.

Tell me in your next how Mr. Loring is. Give my love to Jane - Remember me to Agassiz - & believe me, as ever -

Yours faithfully
John Torrey

Princeton, Sept. 14th 1848

Dear Doctor -

On returning home last evening, I found your letter (no date) - enquiring about *Achrafati* - &c.

No. 400, 1845 Fremont seems to be exactly *Achraf.* *Milpavinensis* - according to Nutt's sp. of fragments (including legume) from Herb. Lamb. I found legumes on my sp. of Fremont's plant - No. 56, 1845. does not seem to differ materially from Fendler's 148 (of which you sent a few legumes) can not be the same - The leg. is much larger & of a different form - If the plant has a different aspect

No. 149. Fendler. I have nothing agreeing well with this. It looks like *A. flavovirens* more than any other - but is not that. It is more like 148 Fendler. No. 146 Fendler. cannot be *A. pedunculata* if the character of the legume is constant. The pods

of some fleshy kind, undergo~~ing~~ considerable
change at maturity - & especially when quite
dry. They often become thin - but not (so far
as I know) hard & brittle. I enclose
^{2 leaf} a ^{leaf} from my only specimen - which has
no flowers. The habit of foliage will do
well enough for you No. 146 Fend.

I left Baker with Mackenzies to forward.
He thought there would be a chance in a day or
two. In the mean time let Sprague work
at the Botanic. of Amaranth. The bottle of
potted Baker shall go soon, with the rest of the
selected spec^s for Smithsonian Contribⁿ. I
was unsuccessful in finding either *Stoane* or
Prunella in New York - but have seen
the books - I forget where - perhaps in Philad.

Holton handed me the drawings & proofs of
Fremontia - with the parcel of Malvaceae &c.
The baggage had miscarried - but was recovered

after ~~three~~ days. I like your working
up of *S. L. M.* Malvaceae.

I send you the only fruit of Malvaceae in my
herb. The embryo shows finely. Remove what
you don't use, for Hb. Torr.

The drawing of *Fremontia* is fine - the proofs
don't do it justice. Holton keeps me - & I
remembered the other to return - but when I opened
my ~~trunk~~ ^{trunk} ~~the~~ ^{trunk} last night, it was there! I
don't know in what order the figures should run -

1. Skeletons 2. ^{trans} ~~Diap.~~ of flower 3. Stamens, 4-5
transverse view of anther. 6. Sect. of ovule. 7. vert. sect.
of petal & ovary 9 ovule - Will that do?

I see that Sprague has the way located - which
agrees with my obs. When I was at Cambridge he
thought there was 5 cells - How do you like
this sort of lettering **FREMONTIA CALIFORNICA?**

Henry would be willing to pay for more finished
(regularly shaded) drawings or engravings, if you
think they would be more desirable. Perhaps it
might be well to put more work in them seeing
they are for the Smithsonian Contribⁿ!

Ponceña, Sept. 15th 1848.

My dear Friend.

I have been looking again, since your letter came to hand (arrived yesterday) at our strange Fremontian plant, with separate flowers, like those of a Bombacea. The specimen in young fruit, which I conjectured might be the plant from which the flowers had fallen, have been subjected to a close scrutiny. I made ~~some~~ notes at the time, which I here enclose. I now have scarcely a doubt that my first conjecture was correct. The structure &c. of the persistent base of the calyx is exactly that of the lower part of the flower, & had not the former grown by the growth of the ovary (which fruit caused the separation) the two parts would match perfectly. The plant is apetalous & has neither bracteoles nor stipules. I agree with you ^{now} that we must not give it up as a Bombacea (at least as very "close haul" to *Pleurostemon*) because the ovary is one-celled & the fruit one-seeded. I did not know, till you informed me, that there were numerous ovules. The deeply 6-lobed calyx is remarkable. I find 12-14 stamens. With these hints look again at the plant. There are now more points of resemblance to *Chenopodium* ^{& Fremontia} than we saw before. The apetalous flower, & somewhat concave calyx, which is imbricated in articulation. The anthers are introse, as you say, of inclined, (at least when dry) to be somewhat tortuous

I have not examined another ovary, but shall look at this again again.
Did you see any traces of more than one cell? - Is not our plant rather
Dyctenaceae than Bombaceae? The authors are imbored - & so Lindley says they
are in Dyct. - Endlicher, however retains in Bomb. (Stercul.) many with exocarpean
stems.

Ehrenbergia - Mart. Nov. Gen. 2. p. 73. t. 163 is not the plant of Emory
which you think is one of Coulter's Mexican collection. Had you not better put it in
a note to Seudler's plants, under my name? I fear that Emory's seed. will
be too late for ~~Dr. Hance's~~ Hance's publication.

Saturday afternoon Mr Drayton has just called, on his
way to Boston, & as he expects to see you very soon, I send
by him the fruit of *Batis*, in spirits. Perhaps you have received
the dried specimens, left with Harkness, see them - I have urged
upon Drayton the importance of getting Sprague to work, im-
mediately, on Calif. & Mex. plants for Expt. & Herb. - About
50 plates will be required. I will select them at once if the
arrangement is made. Wilkes is in such affliction, that I
have felt unwilling to write to him on the subject - but Drayton
will see him ere long, & get his consent, I hope. I have not
the parcel of remaining plates for Smithsonian Contrib. ready, or it should
go with this.

Would it not do to figure our new *Bombacea*? You will not have no
doubt as to the flowers belonging to the other specimen. I can send back
my own sp. - of one to be sacrificed, if need be, to show the young
fruit. There are only two September left (if I remember rightly)

I must close before my sheet, as Drayton goes to New York by
the evening train - Yours cordially J. Torrey.

Did you tell Sprague how much pleased I was with the *Drepanites*?

I send sketches made from Vignot's of Emory's species of *Achyrocline*, Lamiac. Mart.
(They differ some - but those from Emory had no good flowers, but excellent fruits. Your
anagathion species are exactly like *Drepanites* - & will do to draw from.)

Pompton, Sept. 18th 1848.

Dear Doctor -

Your letter of Saturday was received this morning. As I expect soon to be in New York again, I will look up Jacq. Mich. Amer. herb., which is in the Hospital Library - but I should be glad of a transcript of P. Browne, of Sloane, ^{or Baker} if not too long. Perhaps I can will oblige me so much, (if not otherwise occupied) as to copy what I want, & then release you. I searched high & low for Macklin's Compecton, but found it not. It seems to me I had it once. All but a very few of my Bot. pamphlets are either bound, with Inst. Judicia, & a sort of, I put up in covers, with the contents smashed outside. Perhaps I let Dr. Beck have the Compecton, as I think it contained brief remarks on Nat. Med. - or loaned it to Griffiths.

My *Quercus* (from Gregg) - must have been put in my parcel for Bentham - to be examined - for I have it not. All my memorae must have been sent to him, as not one is put up in herb., & all the other Greggs are distributed.

The Shubby *Erna* Memoria - Fendler, no. 180 - was not in my set of his plants - nor do I find it among those of Eaton & Edwards.

Astragalus mollissimus is laid aside for you, and several plants resembling it. I have no. 157 Fendler. "Jil. 1845, Fremont" should have been (as you suspected) 1840.

Lupinus *docimbeus* will be sent to you shortly - also *Astragalus* *apophyllus* Nutt.

I am glad that you confirm my opinion of Arkaf. Expt. Expt. 543; for I came to the conclusion, ~~that it must be new~~. It is queer that they called it an *Oxytropis*. Some weeks ago I prepared notes on his determination of Spalding plants; ^{of which this is the mistake} You are right in saying that some of Spalding's specimens seem rather intermediate between 543, & 543(a); but one can hardly believe that they are the same. I will give them another examination before I send my letter off.

Nos. 140, & 308, 1845. Form. Expt. Expt. do not differ as I see. They agree well with *Oxytropis senecio* sub. Torr. ^{which} probably is only one of the numerous forms of *O. Lambertii*. Did I send you legumes? I have laid one aside for you.

Among Gregg's plants returned is a *Sida*, which you say is not in D.C. & new to you. I took it for *S. Elliottii*. On comparing it again, there seems to be no difference. We have it from Louisiana, & a var. from Texas.

A *Sphaeralcea* from the Valley of the Gila, was overlooked when I selected Malva for you. I have but one specimen, which is laid out to go in my next parcel. It seems to be new - or at least, it is not of *S. sphaeroma* D.C. - nor of *S. prostrata*.

Have you seen Malva *Lecontei* Buckley, in Hill's Journ. (vol. 45)? I have just found my specimen among some Indian tributed plants. Buckley gave it to me, & he rec'd it from Lili. It is not a true Malva, but I have had no time to study it. You will find it in the parcel now preparing for you.

The great Californian "*Hypophytis*" turns out to be a *Schweinitzia*! At least the corolla is monopetalous, & the anthers open by terminal pores. Your character of *Schweinitzia* had better be slightly modified to receive it. Sprague

must draw this, of course, if the materials are good enough. I hope also to receive from Mrs. Fremont, a drawing from life, of some notes, on this plant from Col. F. A few weeks before he left, he promised, (in a letter) to send me a drawing & description of a "singular red fleshy Californian plant". Prof. of business prevented him from fulfilling his intention. I have no doubt he alluded to this *Schweinitzia*, & have just written to Mrs. F. asking her to send the drawing & name, if she can find them. I think that she has many of his notes to copy out for me.

Yesterday, when revising Fremont's, & comparing it with Sprague's drawing, I found all the flowers in one specimen (laid aside for Hooker) with the calyx-lobes mucronate. I think all the specimens show some degree of mucronation - though some of them so much as the flowers on Hooker's. I send one for you to place with yours. Sprague had better alter his drawing to show these points moderately.

Wednesday. I find no more of the Bombaceae? Californian plant (the one with separate flowers) & must have divided what there was with you. (There will be enough to make a fair drawing, & fragments to keep.)

I have just extracted the embryos of the Californian *Schweinitzia* - but cannot make out its cotyledons. It is very minute & almost globose, without any apparent notch, & no distinct radicle. But I only tried twice, & may yet succeed in getting a better view the little body.

How would it do to include that in genus of *Corymbol*. in my decade *fulgens*? You remember the plant drawn by Sprague? I have put the specimen of a copy of the plate (I have unslaid the original drawing) in your parcel. Sprague can

review his work & make corrections. If you agree that it is best to have
more finished drawings for the Smithsonian paper, he can prepare a new one, using
this as a basis. Perhaps I will back up another paper for the rest of
those 800 plates. I hope to send your parcel to New York this week
- but opportunities are not frequent just now - Give my love to Jane
Yours affectionately John Torrey

Ponceña, Sept. 20th, 1848.

Dear Doct^r - Your letter of the 10th of "Wednesday" came this morning. One to you was dispatched last night, & is now, I trust, in Cambridge.

My fragment of *Spinaea discolor*, ~~and by some~~ taken from Lambert's Herb. was from a Mexican specimen, but named by Pursh. The Koorhoosky plant I saw, but merely remark in my notes, "base, 5-6 inches long" & I will send my fragment, but it clearly belongs to *S. anicefolia*. If there are two species, Pursh confounded them - but should not his name, "*discolor*" be retained for the 2nd Spec. I My *S. discolor* must be Nuttall's *diversa*; - also *S. anicefol.* - p. which you gave me - I think from interior of Calif. Dougl. I have Fremont's specimens also. Your *Fendler's* 188 must be the same - I see no difference.

No. 198. Don't agree well with any *Pteridilla* in my herbar. It is very un- like *P. effusa*. No. 199 I have not. - No. 203.

Do you know I have a strong suspicion that *Pteridilla Durandi* of the Flora in *Fraxina Indica*? Examine again, the specimen, which I shall put in your parcel. *P. zephyrina* Nutt. is not in my herb. You must have seen Nutt's plant; & refer it to *P. effusa* for Flora ^{in Dorenbury}

No. 370. Fremont, 1840. (Ranacea) This is a species of *Cerastium*, & the other specimen, as fruit only, is an *Anemone* - probably *Canad.* &

That Californian *Schweinitzi* I see in from the Upper Sacra- mento. On turning to Fremont's letter again, it seems that he only mentioned his intention of sending a "Colored drawing" of the plant - not a description also. The

label would be of little use, while we have the specimens. - But some information respecting its place of growth &c. would be acceptable.

I have just received a letter from Dr. Charles C. Parry, who graduated at our med. College a year or two ago. He is now botanist to the N.W. Geol. expedition - & has been active, the present season, collecting plants. In his letter were two specimens, a very neat little *Aspidium* (of *Dryopteris*) - near *A. fragrans*. It differs from my only specimen of that plant. (Kamtschatka) in being much smoother, & the pinnae only slightly crenate, &c. I have put up one of the specimens for you, in a parcel which was placed in the hands of a gentleman who leaves for N. York early tomorrow morning. Dr. Parry says the plant is very fragrant. The odor was so strong that he was led to seek from whence it came - & in doing so, found this elegant little fern. I hope it may prove new. Dr. P. will send me a full set of all his collections. He is very desirous of going out for an expedition of botanical to any place where they may send him - they paying his expenses. He makes very nice specimens.

Have you Martius's monograph of *Amaranth*. from Nov. act. N. Cas.?
If not, would you ask him if a copy cannot be got - or the volume containing it. It is from Vol. XIII.

Saturday I forgot, in sending off my parcel last night, to include the subg. *Anopon* of *Anothera* - but I have another chance for Monday morning & will dispatch a supplement for Hartweg to wrap with the other if still in his hands.

The n. gen. of *Portulacaceae* is nearest *Monocosmia* Lenz. - but differs in several respects. I have been carting around for a name to be put on it, but cannot find one to please me. It has a ^{membranous} ~~delicate~~ ^{membranous} calyx & the petals very large & roundish, somewhat cordate at the base. I rather think there is an obscure keel, but am not yet certain. Petals ^{constant} 4, but only three stamens, the filaments of which are filiform & inserted at the base of the petals. The ovary is one celled, with 10-12 stalked ovules at the base: style filiform; stigma. . . . Capsule membranous, ovate, much compressed, splitting from the apex to the base into two valves. Seeds 1-2, lenticular; punctulate, black & shining, without a strophiole. You will notice the circinate inflorescence - I sent (if I mistake not) a specimen to Sprague, showing the average appearance of the plant.

Has Cary gone to Cambridge yet? I have heard nothing of him since I left New York last week before last.

They are having a good meeting in Philadelphia - but I could not go to it. I am much occupied here just now, & besides, I could hardly afford to stay a week at a hotel, & I have no friend in Phil. with whom I am well acquainted enough to tarry. Henry, of St. Alexander is present, & will read papers. I understand the meeting will be prolonged through the greater part of next week.

Give my love to Jane. I hope she has recovered from her fatigue, & that her father is now comfortably settled in Boston - & she all well. I talk about you every day. Herby is quite fond of Botany, & keeps the neat little press which you gave him, constantly in use. He has collected some hundreds of fine specimens this season. Yours affectionately
John Torrey

P. Monday. I found your letter of Saturday in the P. Off. just now.

In Expt. Exped. I had referred *Onotheca pauciflora* to *O. contorta* Duff. - confirming of suspicion in H. & A. The capsule ^{you say from Glen Warden in the same} became curved in shape. I had adopted Hooker's view of *B. laevicaulis*, in Expt. Exped. I think you will agree with him, when you see a full set of specimens. I will send you all my *Mentzelias*. You don't of course, think of restoring *Barbarea* Nutt? If you do, a new name must be provided. All my Mentz. ^{sent} shall be

I have laid aside *Onoth. pachylopha*. Of *O. capitata* I have only a few specimens. If I could find ^{one} from Nuttall, it is lost or misplaced. In Flora you say to "Nutt"! - perhaps you saw his spec. in herb. Acad.

In *M. laevicaulis* there are often 10 petals, in which case the 5 exterior filaments are undilated. - according to Mackenzies notes, the *M. ovalis* (as I call it) of Wallawalla & Kootenai has pale yellow flowers.

This morning I sent off a small parcel to Hastings, which I requested him to enclose in the one forwarded two days previously, if that were still in his hands. I cannot (that I know of) send again until Wednesday or Thursday next.

To the *Onothecas* which you desired, I have added some others, which had been thrown into the portfolios, without being regularly studied. You may see some that will interest you - Please put names on each. *O. montana* & *margari-nata* are too near *O. capitata* - are they really distinct?

We have had Mrs. Bailey (of West Point), her eldest daughter, & a friend of Mrs. B. staying with us about a fortnight. They all left this morning - taking Jane with them, who expects to spend a month at West Point -

I think we shall remain here all winter - but as I lecture only 4 times a week at Med. Coll. I can spend three days in Princeton, & work much at Botany. There is an easy train to & from N. York. - Love to Jane - Yours affectionately J. Torrey

miss him greatly if he remains long - for I hoped
to spend many happy hours with him this present
winter. I fear he will be obliged to return on
account of his brother Sam's declining health.

Kerry says they had a Capital meeting in Phil-
adelphia - the best yet - by far. The scientific
men in Phil. held back for several days - but at
length came out. The principal difficulty hit
- to - (of the one which will exist always to some extent)
was to keep down the small fry who wish to "make
Capital" out of the meetings. Last year Agassiz
put down one of them - & others were made to
feel that they were out of place, this time. If
I live another year, I hope to attend the next
gathering, which, you know, is to be at Cambridge.

Friday Evening. I have a box nearly ready for
Hooker. Do you wish to put any thing in it? Is it
allowable to forward, under cover to him, small
parcels for other persons? I have something for Messrs
& Beutham, which I should ^{like} to send in Hooker's box - as
well as something for Mrs. Mc Gilroy.

I am much obliged to you for those Coulterian specimens,
& would be very thankful for any other duplicates or fragments
you can spare. Unfortunately you have to pay so dear for the few plants you want!

Ponca, Sept. 28th 1848.

Dear Doctor -

Your letter of yesterday has just come
to hand. I think one of mine must have crept
in. I answer promptly that you may
give me your advice as to my publishing a
few of the Californian plants, with more diagnostic
character, in order to secure the priority. They
were all discovered before Coulter visited ~~the~~ ^{California} ~~country~~
- & we ought to secure them for the country, as
well as for the traveller who brought them home.
The Rosaceous plant I came near making out,
there was a single specimen, with a solitary flower,
which I could hardly refer to *Mimosa*. Had there
been one more flower - or had the one I examined
been tolerably perfect, I should not have mistaken the
order. The plant is probably common in the
mountains of California.

Since I wrote the above I looked into a draw
(which came loose in a box) -
where I threw a bunch of the withered shrub, just asked
to see if I could find any fruit on it of some use.

Piscataway, October 5th 1848.

Dear Doct^r -

Your letter of 29th ult. of 2nd Oct. came last evg. The Mentzelias were in a parcel which I sent several days ago to Harkness: A letter from him announces their safe arrival in N York. You will get them, & the other matters which you desired, in a day or two. I sent a letter to Carey, hoping he would not leave N.Y. till Monday evening, & requesting him to call at Wiley's for a parcel.

I have no time to select & describe many of the Fremont's Califⁿ plants. Therefore shall merely select the most noteworthy. I had no intention of describing that Rosaceous genus - for it was wholly Bentham's - but the Limnanthus I had partly described before I knew of Harkness's discovery - but let them go. The Saxifraga had been described for months, in my notes, & you must put it in one of your papers - unless it will be sufficient to inform Bentham of the fact that I had it first. From a remark in his letter however, (which I stated once before if I mistake not) he will only regard the name which may be published when he sends his article to press. If this was his meaning I ought to subscribe him - but I may have misunderstood him. I did not intend figuring the Saxif. for Smithsonian Contributions.

add in
note -

but for the Expt. Exped. - as it was discovered by Pickering & Brackenridge. *Hypocnemis unifolium* must also be secured.

That account likewise be figured for Expt. Exped. I think that the folded plates for Expt. will, on the average, require few more details than are given of *Formantria*. In this very few that may have more than 10 small figs. he may change more -

That small paragraph of scolding was written before you sent the information about Markies - but I should have withdrawn it after you complied with my request - let it stand towards the next account!

You ask why I "suppressed" ~~part~~ part of D.C.'s character of *Cynopterus*! Why, man, D.C. owns (Mem. trib.) that he knew nothing about the plant, - & in proof - that he drew his character from Raf. (!) of Nutt. As to the monocious flowers - they are only somewhat ~~so~~ from abortion, as they are in very many Umbellif. with crowded flowers. In my pretty careful study of the fruit, I made out its character, as given in the *Flora*. D.C. don't say that the wings are from secondary jugae, but merely suspect that they may be so - which, I think, they are not. He concluded, I suppose, that ~~the wings~~ the secondary jugae were wings, because Nutt. described the "perfect seed" with 4 wings - this "imperfect" with 3. This happens in the way described in the *Flora* - viz from the obliteration (nearly) of the lateral wings in one mericarp, & the dorsal

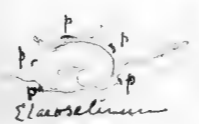
one in the other - a not unrequent occurrence in other genera.



When I go to New York on Monday next, I will send you a little parcel containing all (just as they were left on a bushy shrub for three) my materials in the genus *Cynopterus* - so that you can judge for yourself. The specimens are mostly Nuttallian, & therefore scabby - so you must not sacrifice none of them than is absolutely necessary. We have no others that are authentic. I have nos. 274 & 275 Fend. of the latter has 3 pericarps



also transv. sect.



Elaeocelinum

276 Fend. I have nothing just like this - but it looks much like a *Cynopterus*

on it, one of which I have out up to see the structure. Unfortunately 275 Fend. is so perfect as I could wish - one of the mericarps being short, distorted. Still it shows no resemblance to Dr. *Elaeocelinum*, not involute. The primary ribs, also, are winged - at least a dorsal one: the marginal of ~~central~~ dorsal one: the 2 lateral being wanting in my sketch. There is on one side of the commissure a process, which is an excellent proof from the want of resistance on the opposite mericarp being smaller & imperfect. I suppose we must have same plant in view - & one or the other of us must be greatly mistaken. *Elaeocelinum* itself agrees manifestly with the description in D.C.

What a pity it is that we adopted ~~so~~ so many of Nuttall's gen. & species - when they were founded on such imperfect materials. About all his subgen. of *Cynopterus* I have always been disappointed - for his miserable bits were not sufficient for verifying his characters.

Prof. Gussone of Murchison called on me last evening. He came on to see Prof. Hodge, & did not know till he reached here that I lived in Ponceville, but thought my home was New York. He told me that he had seen you in Cambridge, & proposed staying there until next spring. You know that he is a truly pious man.

but for the Expt. Expedⁿ - as it was discovered by Pickering & Brackenridge *Hypocnemis brevifolia* must also be secured.

That account likewise be figured for Expt. & Expt.

I think that the folded plates for Expt. will, on the average, require few more details than are given of *Formantria*. In this very few that may have more than 10 small figs. he may change mind -

That small paragraph of scolding was written before you sent the information about *Meribia* - but I withdrew it after you complied with my request let it stand towards the next account!

You ask why I "suppressed" ~~part~~ part of Dr. Cynopterus! Why, man, Dr. owns (Mem. to know nothing about the plant, - & in proof - that character from Raf. (!) of Nutt. As to the monocotylous group - they are only somewhat ~~so~~ from abortion, as they are in very many umbellifers with crowded flowers. In my pretty careful study of the fruit, I made out its character, as given in the Flora. Dr. don't say that the wings are from secondary veins, but merely suspect that they may be so - which, I think, they are not. He concluded, I suppose, that ~~both wings~~ the secondary veins were wings, because Nutt. described the "perfect seed" with 4 wings - the "imperfect" with 3. This happens in the way described in the Flora - viz from the obliteration (nearly) of the lateral wings in one mericarp, & the dorsal

276 Part. I have nothing just like this - but it looks much like a *Cynopterus*



one in the other - a not unrequent occurrence in other genera. When I go to New York on Monday next, I will send you a little parcel containing all my materials in the genus *Cynopterus* - (just as they were left a bushy Umb. for them) - so that you can judge for yourself. The specimens are mostly Nuttallian, & therefore scrappy - so you must not sacrifice none of them than is absolutely necessary. We have no other that are authentic.

I have nos. 274 & 275 Fend. of the latter has 3 pericarps on it, one of which I have cut up to see the structure. Unfortunately that one was not so perfect as I could wish - one of the mericarps being short, & the other being distorted. Still it shows no resemblance to Dr. *Elaeocarpus*, the ^{all} being not involute. The primary ribs, also, are winged - at least a part of them - viz. the marginal & ^{dorsal} ~~central~~ ones: the 2 lateral being wanting. In the accompanying sketch, there is on one side ^(at*) of the commissure a process, which seems to be only an excessive growth from the want of resistance on the opposite side - the other mericarp being smaller & imperfect. I suppose we must both have the same plant in view - & one or the other of us must be greatly mistaken. *Elaeocarpus* itself agrees manifestly with the character in Dr.

What a pity it is that one adopted ~~so~~ so many of Nuttall's gen. of species - when they were founded on such imperfect materials. About all his subgen. of *Cynopterus* I have always been disappointed - for his miserable bits were not sufficient for verifying his characters.

Prof. Gay of Mouchel called on me last evening. He came on to see Prof. Hodge, & did not know till he reached here that I lived in Ponceas, but thought my home was New York. He told me that he had seen you in Cambridge, & proposed staying there until next spring. You know that he is a truly pious man.

I hope that Carey is enjoying himself. & that he & you have got
over your crossness about the Cymatopteris. The fault was much more
yours than mine. He will have enough to employ him at Cambridge
& I should be delighted to spend a week there with him.

Did you look at that singular Angelica like plant with a dwarf stem
& large woody leaves from Reps. - Eft. Exped. - ? I cannot refer it
to any known genus. Tell Carey study it. If he is going to
revise Pucedanum he will have much trouble & no great satisfaction.
Nuttall made too many species, & they ought to be reduced. Indeed
the Umbelliferae are a very uninteresting & unsatisfactory group of
plants. One knows not what genera are among them & I have never
to be troubled with any great number of them again. The Rhizoids
are worth a part of them.

Our Medical College will not open so early as I expected -
The Professors are now convinced that to begin before other simi-
lar institutions will not draw so many students as the old plan -
& we shall commence on the 1st Nov. A preliminary course will,
however, be delivered their month - & I am to deliver a few bot-
anical lectures - beginning about the 15th inst. We shall add several
weeks to the other end of the term.

Remember me affectionately to Dave & Carey, & believe me
ever yours

John Torrey

Free Acad. Irregular lecture commence on the 30th
at midday. - but I am to give 8 lects. on Botany in the
preparatory course -

New York. Tuesday. I brought this letter to
the city to finish - but have not much to add.
This morning I gave my first lecture on Botany,
to a pretty good audience.

Harding has a parcel for you & proposed to
put into it the Carex Drummondii. Dewey
had pretty hard material to work on when he
made a n. sp. of these specimens. - I will write
to Carey soon. Remember me affectionately to him.

It is now pretty certain that we shall remain
at Princeton this winter. I only lecture four
times a week, & can be three full days with
my family - so that I hope to work considerably
at botany. I can also do something here, in
certain families that require few books, & no exten-
sive investigations - as in the case of *Cyperaceae*.

The remaining *Flaxmanii* shall be sent soon. They
can hardly go in the present parcel - as I have
no time to pack them. You do not say what you
think of *Pendula Durandi*? Give my love to Carey

Yours ever J. Loring

Princeton, October 13th 1848.

Dear Doctor

Your letter of Monday was received yester-
day. It may have been a day or more in the
P. Office, as I was in New York the first three
days of the week, & my man Pat. was absent -
also - so that no one was sent to look for letters.
Mrs. L. & I went to see Mary Shaw ~~Shaw~~. She
is now Mrs. Bennet. Her husband is a lawyer of
New York - a respectable, sensible of private man.

I sent a letter to Bentham, by a vessel which
sailed on Wednesday - and told him about the Saxif-
raga *pelchata* &c. - so that I hope these matters
are all arranged. I agree with you that there
will be no impropriety in figuring his n. sp. of
Rosaceae. I forgot to tell you that he calls it
Chamaerubus. He did not give me the name of the
species - but that will come in time. I shall be obliged
to depend on you for a flowering specimen - but can
furnish tolerable fruit.

Will it do to call that *Hypocnemis rigidum*, when I know
that in Pickering's notes it is named *H. angustifolium*?

By this time you have received the parcel which I
left in Harkness's hands for you. Surely you will
change your mind about *Gymnosperm*, whenever you see my
specimens & sketches. As to your *Fandlin* 278 it
agrees with them. How can you say that my sketch of
it proves your views to be correct! That monstrous growth
on one side of the *Commisura* has nothing to do with a
~~rib~~ rib. I think, too, that you will find no truly
moolate seeds in your plant. What may have appeared
to be such in one or two cases, was probably the effect
of lateral compression in drying the specimens. Why do you
persist in referring to DC. when he says that he knows no-
thing about the plant, & his description is hashed out of Ruffini
& Nuttall's - & when, indeed, he asserts no such thing as that
the wings are from secondary ribs. He says "Vallaeulae planae
in nervis" & adds, in parenthesis, "jugo primario rotatae?" The
wings were not noticed by Raf. or Nutt. - & were, of course, unknown
to DC. They are in the places where they almost always occur, i.e.
in the intervals of the primaries - or beneath the secondaries. The sec-
ondaries being only 4 when complete, there is, generally but little differ-
ence in knowing them from the primaries.

Thanks for the account of *Boates*, from Browne Jan.
His description is quite as good as that of *Jaeger*.

How long will Casey remain with you? What is he doing?
I knew he would be fully occupied - but I should like to
know what he is working at in particular. I suppose, however,
he has been dipping into *Umbelliferae* - & I don't envy him. The
Carex Drummondiana shall go in my next parcel.

I am glad you agree with me as to ~~the~~ 499 & 499(a)
1845, Fremont - for I could make nothing of them but
Rhannus oleifolius. I think Nuttall's *R. launifolius*
is a form of the same species.

Mr. Brace has applied for the Professorship of History
& Belles Lettes, in the new Free Academy of New York.
& has requested a testimonial from me. I fear he is
too late - as I understand the principal chairs will be
filled immediately, & there are many applicants.

I don't know what Hooker means about an appointment
that I have been expecting. It may be a new version
of an old story - probably in relation to the Oregon Calif.
plants. Perhaps, however, it may be he has heard that
I was a candidate for the Chem. Chair in the Univ. of Penn.
Had I known more about the ^{NY} Free Acad. in time, I
might have asked for the Chem. Professorship in it. I have
told the trustees (the Superintendent or Rector) that I would take
the place if appointed - but being fearful the nomination
was made. It would suit me very well - for I could
keep my place in the West College - & do the duties required at the

Pompton, October 21, 1848

My dear friend -

I received yours when I was in New York. I would have attended to your request about the *Rhus* in time, had I not expected to ~~not~~ be home so soon. I hardly thought one of the girls could have turned readily to the plant.

"*Rhus longicaulis*: leaves of branches glabrous; leaflets 9-10, lanceolate-oblong, acutely serrate, somewhat glaucous underneath; panicle terminal, thyrsoid, distinctly pedunculate; calyx scarcely half the length of the petals; anthers linear-oblong." It grows in various parts of Oregon.

Don't set Sprague to draw that *Pavonia Lecontei* till you hear from me again. The old Major thinks he can find a better specimen of it. He can easily obtain for you the fresh seeds, or a living plant, as it is growing in his brother's old garden in Georgia.

On the last page I send a diagnostic character of the *Menispermaceae* and *Heuchera*. It seems to connect sections 1 & 2 of the Flora. What is

Hauch. Regelii Shubler in Linnaea?

I saw Mr. Saul Lacey in the street yesterday. He had been very well for several weeks, but the night before, he was awakened by a discharge of blood from his throat. He was attending to his business, as usual, & did not look at all as one would suppose after such a hemorrhage.

I completed my first week of botanical lectures yesterday -
Hall (IV) continues till the end of the month, on the same subject. Our
regular courses will not commence till the 30th inst. - on the 1st of Dec. - We
found it was an injury to the college (of course to the professor) to be
gone before the usual time. Our prospects cannot be known till
more students arrive.

I am now (I believe) fairly before the Free Academy as a candidate
for the chair of Chemistry. Nearly all the other Professors were
nominated (almost as good as appointed) last week. Indeed they were
selected a fortnight ago. I regret that Mr Brace was too late
for my testimony. Great exertions were made for all the places,
by numerous applicants. There were 150 candidates, of the Committee
were 5/2 hours every night for more than a week, reading testimonials!

My application was put in last week. - of a member of the nominating
Committee who returned to the city yesterday, after an absence of
some days, told me that the Department of Chemistry was probably
left unfilled on account of my ^{name being} unexpectedly presented, & the wish to
see him on the subject. If I fail it will be because I did not offer in
time. Indeed I know very little about the institution until quite
late - but now I find it will be highly respectable. It would suit me
exactly - & I shall try hard for the place. Henry has sent the Board
a strong letter in my behalf. Thus far I have not sent any other testi-
monial - but will procure others if my friends in the Board think it des-
irable that I should do so -

news of very saleable house in N. York - of about the same value
which he purposes disposing of, that he may buy more & reside here
with his family. His pecuniary affairs are growing brighter.

Mrs. Torrey of the girls were much pleased with Jane's kind note to me.
One of the girls will, I hope, soon be able to make her a short visit. They
feel a little shy, however, as they ~~had~~ have never had the pleasure of even
seeing your wife. - It will probably be Eliza or Madge who will
go - as Jane has taken her share of travelling for the season. She left us
nearly a month ago, - & is now at West Point. The great difficulty about
Mrs. Torrey's leaving home is that the boys will be left very much to themselves.
Their sisters cannot take all the care of them that is necessary. Tell Jane
I will answer her note soon: there is no time to write mine by this
mail. Give my love to her & Carey. - Yours affectionately
John Torrey

New York, October 20th 1848.

Dear Doctor -

I am working tooth & nail for the Profess-
-orship of Chemistry in the Free Academy. Had I
not been misinformed by the Superintendent, who told
me that nothing would be done in Chemistry for some
months - perhaps for a year - I should have begun
early & had my testimonials ready in good time.
Two of the gentlemen told me also, that testimonials
would not be necessary - except from two or three
prominent men. Now, I find, that the Committee
of Nominations had already selected a chemist nearly
a fortnight ago; & that my unexpected application
had caused a delay. They say that now, every thing
will depend on the number & strength of my tes-
-timonials. I have been writing at a furious rate
for two days to all the chemists of my acquan-
-tance - viz. J. C. Beck, Bailey, Henry, Bache, Remick,
Chelton, the Rogers' House, Fraser, Patterson of No. 10
(Cotton Street) Gule, Page, Dana, Haupp, Stillman, Helt-
-cock & Hadley. I have also asked a letter from Appling -
but from no others, who ~~are~~, or have not been, real live chemists.

I suppose it will be of no use to ask Horsford or
Webster. The latter I don't like to ask a favor of &
the former is doubtless pledged to Gibbs. If you think
he would give a general opinion - without being informed
what place I am seeking - perhaps it would do you
to ask him for a short note. You may say that it will
be useful to me. I sent him a journal lately - for
which he expressed thankfulness -

This matter, of my bot. Lectures have kept me
so busy that I have had no time for any thing else.
I must succeed, if I can make the Committee
hold back. If, however, Gibbs (who will be the
man, if I fail) or his friends know the position of
affairs, they will (especially if they have active friends
in the Committee) urge the nomination immediately.

If you can get any thing out of Horsford, please do
so without delay - for there is not a moment to
be lost -

There is a parcel for me at the store of Dr. Munroe's
Boston & lately sent from England. The charges are \$1.25. I
enclose a dollar of some post office stamps (to save weight). Will

you take the trouble to call for the parcel when you happen to
pass the store, & keep it for me.

Much will depend on my success in the matter of the Free
Academy, as to my future plans. If I am nominated
(which will be equivalent to an election) I shall probably make
a disposition of my house at Princeton immediately - but
probably not remove the family until Spring.

Give my love to Jane & Carey

Wm. Torrey

Pouseton, October 28th 1848.

My dear friend

Your letter of yesterday morning I all along back-
was received an hour ago. I answer it while I have time.
for on Monday morning (29th) I must start for the city. I shall
have a busy week. The college opens on Monday night. After
next day I commence my regular course. Yesterday I
dispatched a letter to you, chiefly relating to the new professor-
ship. I have since heard that the Commissioners will probably
delay the appointment for some months. This will make very
success some time - but I would like to begin work there early
in the Spring, so as to pull up stakes here at once.

I have selected me a two plants to send you. They shall go
in a parcel to Tuckerman on Monday or Tuesday. One is
Geranium Fremontii - all I have. My original specimen, from
which Sprague made his drawing, got misplaced somewhere in your
study - there are five sheets of. You will see that the plant
has nothing to do with 88 or 89 Fendler. As to *G. carpatense*
Jancy, nothing is left but the imperfect description. Likely enough
it may be *G. Fremontii* - if we must hitch a real plant on to
it - or expunge the species. Rather a pity it was admitted.

As the exchanging process is rather difficult - we had better give
up *G. Fremontii*. & turn it over to *G. carpatovianum*. The latter
was got not far from Abert's locality.

I have thrown in a small *Geranium* from Valley of Joazias
California (Fremont's 2nd Expedⁿ). which I have never examined -
There were but three specimens - all poor. It seems distinct
from any other N. Am. *Geranium* in my herb. Can it be an *Androsium*?

Mead's *Heuchera Richardsonii* is exactly Hooker's plant, except
that the branches of the pedicel are rather longer - I see no difference
in the flowers when carefully looked at & dissected under the microscope
"H. hispida" from your garden does not differ in any character
of importance. Hooker's *H. Richardsonii* is quite as large as Mead's

That Californian *Hypericum* was called by me *H. angustifol.* Pech. var.
from memory - It stands as "*H. linifolium*" in his list, but he does not say
whether he thinks it new or not - As usual with any thing that
struck him as curious, he adds a brief note - His name is not
very appropriate - & as you say, I am not bound to adopt it.

I have removed from my sheet of *Asiaticum canescens*, one of the
three specimens of which were glued down - You will see that it is
the same as your *Fendleri* var. The capsule of Fremont's plant was by

a gross blunder - on by a slip of the pen - called *obovate*, instead
of *ovate*. It is just like the fruit which you sent me - &
which I return -

When I go to New York, I will see if Ledebur has found the *Pavonia*,
& forward it to you

That Capsule of *Malvastrum Floridae*, Nutt. belongs to the real plant.
I did not look at it before sending it to you - Whether we had the
fruit when that ^{part of the} Flora was written, or not, I am uncertain; for many
plants from Blodgett have come in since, & have been distrib-
uted. If the plant is a *Hibiscus*, it must be looked for among the
old species of that genus. [On looking again at the herbarium
I find that we had at first only a flowering specimen of "*M. Flori-
danae*". The original folio is just as we left it - ^{the fruiting spec^s was received since we removed to Princeton} P. Pickering testified
to its being identical with Nuttall's - & no mistake as to the genus
was suspected.]

I greatly regret to hear of James Dickneap, & trust she will soon
recover her wonted health. Eliza will, of course defer her visit till you
inform us of James being strong enough to resume her place in the
family - I send her my love & sympathy -

Although you will suffer less, I shall heartily welcome Carey's return
to New York. He will find lots of work ready for him!

Ever your John Torrey.

It will give me pleasure to do what you
wish for Ledebur.

and 27th.

Princeton, Nov. 24th 1828

My dear friend.

Your letter of the 15th (postmarked 17th) came before I had answered your previous one. I received it when I was extremely busy & could not reply to it at once. I have been in the city only part of two days this week. My usual lecture-days are Tuesday & the three following ones - but as Thanksgiving came this week I omitted the Friday lecture & postponed it till Monday next. This accounts for my hurry since your last letter was recd.

I meant to have forwarded a draft for the interest due you - but could not get one before leaving town. I, to save time have procured one here, - but it is on the Bank of New York - & you can, however, get it cashed without difficulty in Boston - & I will pay the cost of this for you.

As yet, very little money has come in at the Med. College; & I would have sent some. There is a great falling off in all the Med. Schools of New York - of some other places. I had supposed we would have a good season - but have been disappointed. I wish your ~~best~~ that money to raise till about the middle

of January, when I am determined to tell that Mr. Douglass
is gone. I will try, however, what I can do before
that time: but there is no receipt, from the Med. Coll. are
very small indeed. It is very mortifying some that you
are now suffering for your great kindness to me. The
draft which you sent to Rudolph was paid the moment it
was presented.

I am glad the parcel reached you safely. I meant
to have enclosed a letter - but there was no time. Carey's
letter slipped out of I did not observe it till just
as I was leaving town for Princeton. I shall enclose
it with this. We have had some pleasant talks -
I have been digging into Chambers.

You did right in not asking Knapp for a testimonial
for me - I had a sufficient number of excellent ones, without
his. The Committee have not reported yet - but I am
told that I will probably receive the appointment. With
regard to Gibbs he was not a candidate (when I applied) by
his own act. One two of his friends - while he was in
Delaware lecturing - hearing that an objectionable man was
a prominent candidate, with a prospect of being appointed,

volunteered, without consulting even the family of Gibbs -
to put in an application for him, & obtained many sig-
natures of physicians in his behalf. Gibbs, at this
time - was trying hard for Elletts place in Columbia S.C.
- of his brother wrote to me, a very few days after I offered
myself for the N.Y. Chair, urging me to procure addi-
-tional testimonials for D.G. I did as he request-
ed. I believe not any reason to complain of me.
The place in S.C. is still open. The N.Y. Committee have
never pledged themselves to any candidate for any of the
situations - & any one soliciting them to do so - would be readily
handed - but I learn from a friend you is an officer of the
Academy, that it has been incidentally mentioned that my claims
are higher than those of any other candidate.

It was Washburn
Gibbs, & remained
of Mr. Hartung.

I am ashamed, ^{that} the amount of charges on Monroe & Co's parcel
was neglected. A one doll. bill is certainly lying on this page
now, while I write - so that I can hardly fail to enclose it -
& if the P.O. stamps can be got here - the 25 cents shall be added.
There will be nothing to pay on Lind. Jan. bet. - but you must make
Green & Tuckerman bear the cost of Express to Boston.

I deeply regret to learn that Jane does not mend more rapidly, but
hope she will not remain so feeble much longer - Don't let her expect

herself to you been in more than is necessary. She must not be
uneasy about having visited Eliza, (who is now in New York, with
her aunt Mrs. Robert) as it would only give her unnecessary trouble.
Eliza will be happy to make you a visit whenever James' health
is fully established. My Jane has returned to West Point. I will
remain there for a week or two more. Madge goes to the City next
week & will spend ^{part of} the winter there & the rest at Washington. Prof.
& Mrs. Henry insist upon her staying with them from N. Year till
Crownin-day! The rest of us will remain at the old stone house
till spring, by which time I hope to arrange my affairs so as to be
more permanently to the city.

Of ~~Gordonia~~ ~~patens~~ ~~Laniata~~ I have no perfect seeds. Of
the Florida Mahogany I can only send you fine fruit. The rest
of the plant is not in my herbarium - nor do I remember it as being
among Blodgett's plants. You remember Hooker's fig. in Bot. misc.

If Schumann could return my Potentillas very promptly I should be
willing to loan him the species he desires - but these Dutchmen are
so slow that I should fear it would be a long time ere they came
back - I will send them to you in my next parcel, - when you can
do with them as you would do with your own - I wish them to be useful
without running unnecessary risk.

That Prestele account was long ago arranged with Rudcott - who settled
with the Dutchman for me.

I now remember there was a third letter from you - which was
the one that came after my return to the city last Tuesday - while I was
engaged in preparing for a lecture - I only glanced at it & meant to have
thought it with me here. This I will answer soon. Yours ever J. H. M.

New York, Nov-29th 1848

My dear friend -

Yours of the 27th was rece^d. this morning. Sorry indeed I am to hear of Jane's relapse - but trust it is not of a serious character. She must not give herself the least uneasiness about Eliza's invitation; but wait until her health is quite established. Eliza is enjoying herself in New York, & has not yet visited all the friends who are desirous of seeing her. She was surprised (from having misunderstood what I said) that Jane hoped to be well enough to receive her by the first week in December - & I believe, wrote to her to that effect - but this is your consequence.

I called this evening on Le Conte, & he says the Pavoia is not in his possession! Buckley must have received the whole of the Major's stock. What is to be done? If any specimens will suit you, cut it up as much as you please. Next spring, however, I hope you will receive living specimens, & seeds of the plant, for the Major has sent for both.

I think there will be little doubt of my having \$100 for you before Christmas.

Holton will make enquiry about Crane's minerals. Le Conte says they were certainly sent to the University at the time the Lyceum vacated.

the building, before taking possession of the rooms in the
Suyverant Institute: It is probable that they are still there
- of safe -

Yesterday I spent at Carey's quarters; studying Chenopods. He
was fuming about his paper, & threatened to send you a dreadfully
scolding letter unless he could get before morning - Before that time,
however, you must have heard from him on the subject - He told me
of Legouez's luck. This is a grand arrangement for both him
& Sullivan. They will make a beautiful job of your paper! Drayton,
when here the other day, told me that his son (a young doctor &
good draftsman) meant to settle in Columbus (at Sullivan's
invitation) & was to make some botanical drawings for me.

You ask why not keep the Mrs. Douglas St. house. If I remove to this
city. It would, indeed, suit me very well on many accounts,
but it is too far from the Free Academy - that being on 23rd St.
near Lexington Avenue - which is nearly two miles from the Med. College -
- of course about the same distance from the M. D. Street. From the latter
place there is no direct communication to the Free Acad. - but from the
Med. College I can go by the Harlem Road; & my home were near the
Acad. I could pass up & down between my two places of business with
speed, & at little cost. Besides, the rent for up-town are quite low,
& it would save me at least \$100 a year to live there. I shall not
sell the old homestead unless I get a fair price for it.

Hymenocladia is the new name for the genus of that you once called
Hymenobolus. It is not characterized in Emory's report - which you

will receive soon. I am glad you find the 2nd. Sp. of this genus among
Gregg's plants.

You don't say, in your last, how poor Mrs. Sprague is - but I suppose
there is no hope of her recovery. Will S. begin the Exped. plants
before he does those for Smithsonian Contab.??

So Gramineae Fremontii stands after all - & we are to have Sauer's spec.
restored besides! I hope you will find good characters for them - for those
employed by Rupprecht are hardly sufficient.

As to Phlox leucocoma; I am somewhat staggered. Your suggestion
that the flowers differ from a kind of bicolority is perhaps well founded
- many plants show quite as much difference in their flowers - when the
leaves are not at all separated.

Dec. 10th! This letter got smothered at the medical college of I
received it just as I was leaving for home. Now I shall take it
to the Princeton Postoffice myself. - I have just looked at
No. 400 Leubner's pl. - & have no doubt it is Zinnia grandiflora. It is
also the same as Abert's plant, of which you have a fragment. The name
- Zinnia of Eaton & Edwards seems different.

No changes in the Journal of Botany

I have a letter from Beekman, which I enclose - & send back
your pen line.

You don't say in your last letter to Carey (whom I see often) how
Jane is - but merely that she will write to him herself soon.

I see by the newspapers that at the last meeting of the Board of
Cabin, I was nominated Prof. Chem. in the Free Academy -

Eliza says she will leave for Boston on Thursday next, on the
day line - as you advised her. She much regrets that she has
troubled you with so many newspapers. Now if Jane is not likely
to receive her, tell me frankly. At any rate I hope neither of you
will at all change the ordinary habits of your household - if Eliza
will, I am sure, with you not to discommode yourself in the least
on her account -

We have delightful weather here. The grass is quite green
& there has been no frost for a week or more. You
know, of course, that the long-headed cholera has at last
reached the borders of our city - but no case has originated
there yet. I trust we shall be spared the severe judgment
we all deserve -

Jane returned last Saturday, after a long absence from home.
She will probably remain here the rest of the winter. Madge's
eyes are improving & she hopes soon to leave for Washington.
The boys are doing well, & are leaving fast. Becket
makes quite as rapid progress as we desire -

Mrs. Torrey's health is pretty good, except that he has occasional
attacks of rheumatic headache. Just now she is suffering from one
but she nevertheless joins me in love to you & Jane -

Yours faithfully
A. W. Torrey

New York, Dec. 22nd
1848.

I hope Eliza is enjoying herself.
I wish she does not take the strength
of Jane. They will like each other,
I think. Tell her that she must
write often. I can only send her
a few lines now - as it is midnight
& I have worked like a dog all day.
Tomorrow morning (20th) I must rise
early - as I expect to visit my
dear home - where I have not
been for nearly a fortnight.

Give my love to Jane - & believe
me as ever - Yours

J. Torrey

My dear friend -

I am disappointed & mortified
that the students whom I
expected in the last two days to
pay for their tickets have kept
back. I felt so positive that
I would have the \$100 promised
to you that I considered it as
in your hands. Now, at the
last hour, I find but \$85 in
hand - except the \$5 which I
must send Eliza - to replace
what she borrowed of you. I
urged the girl to take more
money when she was leaving,
as I was sure she would need

It - but she stoutly refused - Had
I anticipated being so short at this
moment, I would have retained some
money that was in my hands - After
the holidays I will draw up the
boys of ~~them~~ ^{them} ~~remits~~ the balance
of the \$100. - Dr. Watts has
about \$200 of mine in his hands
but he won't distribute (he is ^{the}
- ~~member~~ ^{member} of the faculty) till he has
all the bills settled. This I shall
get by & by

You will have seen by the papers,
ere this reaches you - that I
lost my election in the Free Acad.
- ~~every~~ ^{every} - to the astonishment of all
my friends - & of a great many others.

The other side used incredible pains
to mine success - Calling on all
the Commisaries, - & urging ^{partly}
- ^{especially} the appointments of Gibby
- also saying false things about
me - When, however - we consider
that the appointment was made by

36 small politicians, there is no need
of feeling mortified at the result.

The majority of the Nominating Comtee
were sure of my having a large majority!

It is all, doubtless, for the best - &
I try to be cheerful & thankful too,
under the disappointment. My plans
must now be modified - but I have
not had time to make them - I will
not be a candidate again for a place
where the persons having power to elect
are no judges of scientific qualifications.

as he is much attached to H. of her
only wishes money enough to supply his
every day wants.

Carey is brighter & seems like himself
again. He works at plants more
or less every day - & also goes into
society more than he has done for
many years past.

I am glad to hear that Jane
improves. Though it be but "slightly" -
Give my love to her - & tell her
to guard her feet well this winter.
Very many ladies are constantly taking
parch colds by neglecting to keep their
feet dry & warm.

Yours affectionately

John Torrey

New York. Nov: 9th 46

My dear Doctor -

I have been so much occu-
-pied in the Laboratory, as is always
the case at the beginning of a course,
that I have neglected answering your
letter. . . Several times I started
to get you a small draft - but was
interrupted by calls &c. . . At last
I sent Holton to purchase one for
\$50. - but I fear he has not obtained
the right kind - tho' the person who
sold it to him (a broker in Wall St.)
said it would be as good as Cash in
Boston. This will pay the interest
- of also for the two copies of Gen. Ill.
- as well as for expenses on box
(which Hastings's ought to have
prepaid - as I told him)

I wish you would let me know
whether there was any balance due
you on some remittance last year
I was to have sent \$100. but if
I remember rightly the whole of it
was not sent. As you don't
want the \$500 - we will let that re-
main a while - till I see how much
you have -

How I regret missing Harvey! If I
can get off about Christmas I will
go to Cambridge - if then see him, I think
he still be with you - if any else
I hope to be much in his society when
he next visits the city. Last night
I saw Mrs. Doctor Rodgers (sister of
Mrs. Jacob Harvey) - who had much to
say about Prof. H. He made a very

favourable impression on those who
made his acquaintance here

With Mr. Sprague send me another
drawing as quickly as possible - that Per-
telle may fill up a blank of work of
two double plates? Is Perrettel to be
redrawn? I have no hope that he
will ever do the Expt. Exped. work. So that
we had better look out for another
artist. Indeed there will be enough
for to employ another constantly for
years, even if Sprague recovers suffi-
ciently to work at his highest former
speed.

That n. gen. of Philod. you may find
at end of Pterid. - when we once
suspected it might possibly come.

Hastings's friend (Lohse) has gone into
the Merc. Library - proposes to buy
them for \$300. - & \$500 in Boston

Carex retrorsa, Schweinitzii
 alba, umbellata, aurea
Disperma, *trichosperma*
Poa elongata
Tridactylus purpurascens
Gaura biennis
Allium cernuum
Pterospora andromedea
Triphora pendula
Ranunculus cymbalaria
Rudbeckia hirta
Lunila glabella
Neotoma ceruua var. *latif.*
Mitella cordifolia
Epilobium molle
Streptopus distortus
Ligusticum actaeoplium
Euphorbia obtusata ? yes

more specimens of these would be very acceptable to Dr. Gray

- Hedysarum canadense* - *H. paniculatum*
 16. *Polygonum amphibium* var. *stiposum* For.
 17. — — — — — *acuminatum* For.
 18. *Hedysarum canadense*, as I have always called it
 19. — — — — — *rhini* Lat. ? very near *H. canadense*
 20. — — — — — *cuspidatum*
 21. *Astragalus canad.*? no fruit
 22. *Galium trifidum* var.
 23, 24, 25. *Salices* indeterminate
 26. *Aira subspicata*.
 27. *Aira flexuosa*
 28. *Panicum nitidum* var.
 29. — — — — — *dichotomum* var.
 30. — — — — — *depauperatum* Mull. - probably
 31. *Juncus acuminatus*
 32. — — — — — *polyceph.* (few fl. small) var?
 33. *Aporosa tenuiflora*. (leaves & sheaths rough little)
 34. *Carex* - aff. *lupul* (?) but S of *hystericum*! n. sp. - Colley
 35. — — — — — *unpubl. caea*
 "Carex triperma?" - of Dewey "C. cephaloph." yes.
 36. — — — — — *lacustris* young? not C. *trihacaba* -
 37. — — — — — *Deweyana*
 "C. laxifl.?" is C. *degiocarpa*
 "Inchod. scabrum;" yes. "around. canna" yes "Koeb. Pennsylv.?" yes

- "*Juncus polycephalus* var.?" probably
 "*Elymus virginicus*" *Sorbicum repens*
 "*Panicum clandest.*?" yes pan. more exerted than usual
 "*Astrag. Carolin.*" probably
 "*Hypopeltis obtusa*?" yes
 "*H. Marianum*" *H. Gronovii*
 "*Campanul. americana*?" yes.
 "*Onosmodium molle*" = *Lithospermum latifolium* Nutt.
Lysimachia revoluta Nutt.
 "*Hypericum galoides*" is *H. Kalmianum* - 5 styles.
 "*Myrsophyll. heliophyll.*?" - *Spicatum*?
 "*Scutellaria uterifolia*" is *pauciflora* Nutt. but leaves dent.
 "*Lonicera grata* fr.?" *paucifl.*? all but 1 pr. leaves perfect.
 "*Utricularia gibba*?" yes - mine -
 "*Pyrola asarifolia*?" yes -

Nascul
~~White number of North American plants~~

Coelock - I had Eliza's letter this evening. She will doubtless reply to it very soon.

Wardings is applying for the situation of Librarian in the Mass. Libry. He probably told you his plans - Will you send him a letter of recommendation - He cannot live on his present salary - of the business (as he does little but stand over the desk) injures his health. The salary of the Librarian is \$700 per year, & \$800 next. Wiley gives him \$300. The appointment will probably take place very shortly.

Last evg. I was at Sam. Carey's with J.C. Both seem pretty well - but John has been complaining.

Give my love to Liana, & believe me
Cordially yours

John Long

New York, Jan'y. 2nd 1849

My dear friend

Eliza & Harriet arrived here safely this morning. Greatly am I obliged to you & Jane for your very great kindness to my poor girl & also to Harriet. They are both delighted with their visit. I do hope you will be able to spend some time with us at Princeton next summer. Indeed you must let us trifles stop you. We can not boast of the pleasant society you have at Cambridge - but I think Liana would enjoy herself notwithstanding.

Jan'y. 25. My interruptions have been so numerous that I have not been able to continue my letter till now. The California fever affects even me - as I am obliged to answer many questions, & assist friends in their outfit. Now & then I get a small fee.

Halsted sailed this week for Panama - He goes out as Physician to the ^{Surveying} Company of the Ashmun Rail Road, & does not expect to be occupied in that service more than two or three months. He had hardly made

up his mind to accompany Emory - but I
rather think he would take the place of officer
to him. It was his expectation that orders
for California would reach him by the time
he had finished at Panama. He thought his
time, in both situations, would be a good
deal taken up with his medical duties,
- so that he could do little in Botany. He
I am pledged to him: for if Emory also,
he will have the place if he wishes it - &
Emory is allowed to take a surgeon - but amidst
I shall write to Emory from Ponceston
(where I expect to go tomorrow) of ingue
how the matter stands. If he held back
out, or they are willing to send a naturalist
who is not to act as physician, I will do
what I can for Wright - although I
had my man Dr. Parry in view. He held
himself would be willing that a special
botanist should accompany him, fearing
that his own time will be otherwise employed.
Has Buckley asked you to do any thing for

him? I recd. a letter, which I suppose
was from him - (but not signed) - asking me
to "solicit my friends at Washington", for
an appointment as mineralogist of San Diego,
for him, in California -

Thanks for the notes on Compositae -
which will soon be very useful to
me - - Also for continuation
of Fendler. You go off greatly into
collebral work - Take care or you will
never get out of the woods.

Your letter of Jan. 11th is still unread.
Many thanks for the notes of criticisms on
Emory's plants - That remark about Red-
dellia was a slip of the pen. I remember
- meaning to say James - but in my hurry
wrote Nuttall - I will see whether
Emory can have the correction made
in ed. 2.

You shall have the recipe for the new
glue when I write from Ponceston, for
it is now midnight, & I must retire at

Fremont's Collections. There seem to have been some good pickings amongst the former. Will you describe all Gregg's new ones in Pl. Zool.?

Thank Agassiz for the copy of his lectures, pub'd in the Boston Traveller. Tell him that ~~my~~ Mrs. Torrey & one of my daughters have pasted them very neatly into a volume, which is to be read aloud at our fire side. Thank Prof. Guyot also for his ^{admirable} lecture on Phys. Geography - I ask for a continuation of his favors to Prof. Hodge, Alexander & myself. If he leaves a note at the office of the Traveller, the papers will be forwarded to us by mail, without giving him further trouble. I delivered the copies of his lecture directed to his friends in Poncetia

Feb'y 5th! This, you see - was commenced at P. - & here it has remained more than a week, unfinished! My spare time has mostly been taken up in teaching Californian emigrants to spray gold. This has brought me a small tribute in fees.

I return Emory's letter. He has not replied to mine yet. On Saturday night Hastings was unanimously elected Lib. to the Mercant. Off. & will enter upon his duties this week. Ely & Madge are still in town. Mrs. T. is expected to-day. All pretty well. Love to all
your ever J. Torrey

Poncetia, Jan'y 27th 1849.

Dear Doctor -

I have just written a letter to Emory, telling him that in case Halsted withdraws, or there should be any difficulty about his appointment, to take Dr. Wright, as a capital fellow to collect plants. Had you not been so anxious to get Wright a place, I should have solicited the appointment of Dr. Parry, who asked me two months ago, to procure him a situation. If he had gone, I should have had a full set of his plants, - but I may hear of another place for him.

Fowler will make some grand collections about the Salt Lake - & the proximity of the Mormon settlements will enable him to be more thorough than if he were on a mere journey through the country. Such lovely specimens as he makes, too, will give an additional charm to the rarities of that interesting Country.

A large bundle (doubtless from Beetham) came in the other day - It contained all sorts of things (evidently duplicates thrown out of his herb^{um}), many of them highly desirable.

So poor Mrs. Sprague has gone at last! I was not, of course, surprised at the news, - as it had long been looked for - Will S. remain at Cambridge & pursue his calling? He ought to be working at the Illumination of Dept. Expedⁿ plants - as we shall be hard pushed when you will need his services yourself.

As to that glue I make it thus. A pound of the usual white sort is melted with a little more water than we commonly use. May for fastening down plants - Then half a pound of gum ammonia is digested (first bruised to a coarse powder) in a quart of alcohol mixed with one fifth water. It must be shaken occasionally, & in 24 hours the most of it will

be dissolved - Add this tincture to the melted glue, & stir the mixture; when it will be fit for use - It will keep well in summer - but the vessel in which it is put should be corked to prevent the evapⁿ of the alcohol - The spirit must also be added, occasionally, to the glue pot, while the vessel is over the lamp - to supply what evaporates - This cement is admirable for mending china ware &c. It is, indeed, the famous diamond cement, which is sold at so high a price!

Jan^y. 27. I have selected the *Pentillae* for Lehmann & shall take them with me to N. York in the morning. *P. humifusa* I have not. (you will see by the *Flora*, that it was known to us when the *Rosaceae* were decanted). *P. Durandii* we had better smother up as best we can - Perhaps you had as well tell Lehmann to omit it. *P. officina* p. is the only var. I have. & must have been desc^d from your sp^{ec}. for Dougl. It is from Nutt. sp.

I have not yet looked into the bundle of returned *Compositae* - but I brought ^{here} the list of those named from Gregg &

New York, Feb. 21st. 1849.

Dear Doct^r -

Your letter of the 17th (postmarked 19th) reached me yesterday - but I was in too much pain from toothache to answer it immediately. I saw Maj. Emory last Friday night. He had expected to sail the next day, but was prevented by some delay in obtaining funds - He went back to Washington - & will be here again to-day. It is his purpose to embark in the next packet for Chagres. When I saw him last week I had no expectation that Wright would go with him - nor did the Major. I had not found any one in town who was qualified to go as botanist, or ^{an} zoologist. He said that a gentleman (one of his staff) was to remain here, & proceed to Panama on the 14th March. This I thought would give me time to send for Dr. Parry. So I sent

a telegraphic dispatch to him the next day
(Saturday last). This would only go as far as
St. Louis - but was to be forwarded to Davenport
(Iowa) from that place. Had I known
that Wright would have gone - he should have
had my recommendation. What a pity my
letter was mislaid by Grant! If Parry
declines - or cannot reach in time, I will
take the responsibility of sending Wright in
his place - should he be willing to go. Indeed
I will endeavor to make an arrangement
with Maj. Emory to that effect.

How sorry I am that I missed seeing
Mr. Ch. Loring? It would have given me
great pleasure to have known him attending
when he was in New York. It happened to
be absent in Providence when he called - if he
had left town when I returned.

Miss Harvey (a daughter of the late Selden
Harvey) informs me that her uncle is expected
out next summer - say, about the first of
August. He would remain in the country six

or eight months if he could defray his ex-
penses by one or more courses of lectures.
Would Mr. Lovell engage him for the Institute
next winter? He could give a course quite
distinct from yours - & I am told that
he is a very good lecturer! If ^{he} you were
engaged in Boston, I think you might
obtain a small class for him in New York.

Have you my copy of Burnett's 'Outlines'?
I have lost sight of it for some time -
& think it probable I may have lent
it to you. Now of them I have a desire
to consult it.

Carey was in best evening, & to-day, I
have just made him a can full of the
new glue. It seems to do very well.
Love to Jane - Yours cordially

John Torrey

New York, March 1st 1849

Dear Doct^r

Your letter of Monday morning reached me the following day. I am glad you are not much disappointed about Wright - Botany will be the gainer by two collectors being in the field, instead of one. I will gladly contribute to Wright's outfit by supplying him with paper Emory sailed for ~~Spain~~ ^{Chagos} to-day - I made arrangements for Dr Parry to follow him - even if he should not be here by the 14th inst. If he cannot go I am to furnish another man - but he must know something of Geology as well as Botany Mrs Fremont expects to leave here on the 6th or 7th inst. for Chagos, with the hope of meeting her husband in California. She wishes a proof of the Fremontia to show him. Can you send me one in time? Pray try. When is Sprague going to do some more of Fremont's plants for the Smithsonian Contributions?

The day after I wrote to you about Harvey, his
niece told me that her mother had received a letter
from him, stating that Mr. Lowell had invited him
to lecture in Boston - So that matter is all arranged
& I am very glad. We shall all learn something
from him - & Bailey will not be disappointed about
his Exploring Exped. - *Algae*

Ravenel has just sent me a pretty full set
of his Cyperaceae &c - Many of them are very
interesting

I spent an evening with Carey, this week. He
is busily engaged in giving his plants & fruits
the new composition to answer very well. You
must tell Mr. Lowell about it. Perhaps I can
improve on the proposition sent to you in a
former letter. You shall know in a few days.
I am experimenting on the subject.

Hooker is very happy in his new situation &
seems admirably qualified to fill it.

By this time I hope that Jane has entirely recovered
her health. She ought to take especial care of herself
till your shocking hard winter is over.

If you wish to give any special directions to
Perry, let me have them before the 14th. You
will, of course, have a share of the plants that
we collect -
Yours cordially
John Torrey

Have you seen the English Translation of
Dufrenoy's Elements of Botany? It seems to be
well done - of the wood cuts are equal to the original.
The price is \$3.75 here - same size as the French. It
will do much good in England.

New York, April . 1849.

My dear friend -

You must think me either very negligent, or very busy to keep silent so long. I have, indeed, had my hands very full, but you are daily in my thoughts. - Your letter of the 17th. came in due time. I have been waiting ever since for an opportunity to write, as well as to select a few more plants for Sprague.

Are there not two or three Compositae that deserve to be figured. You know them much better than I do, & can tell which most need illustrating.

We must not forget that strange genus allied, perhaps, to *Fremontia* & *Chirothemum* - yet with very different fruit. You know this one with entire leaves, a one-celled fruit. & with a peltate that had separated. We must do our best to make out its affinities. I have better specimens to draw from than the one you have. The *Quercus*

longiglandosa (is *macradenia* too near *macrocarpa*?) is a noble species, of apparently new - Had it be well to figure

it? I send a sketch made by Fremont's painter, from the recent plant. Sprague can make a good figure from

this of the dried specimens. -

I send also, (poor specimen, to be sure, but sufficient) a
new *Adiantum* - or genus nearly allied to it, of yet of different
habit. Try & make something of it.

If you are not satisfied with that engraving of *Fernand* -
it had better be done over. It is not exactly the thing I,
I fear, don't do justice to Sprague's drawing. I expect

to be in New York next Wednesday, & if you have a chance
to send the drawings by Thursday, I can get them, & have
them forwarded to Prebles. As to the apparatus of
Baker, I think that Lindley has come very near the
mark - & told you so in one of my letters. See if he be
not right. I cannot say now as to the attachment of

the seed of your new *Schweinitzia*. Sprague is usually so ac-
curate that I should hesitate much before differing from him.

As Bentham has published so full a description of *Chromolaena*
I would not think of figuring it, if we have enough without it
to make out our Decade. I have tolerable fruit - which it has
up in the parcel for you.

That was, indeed, sad news from Fremont. I think he was
imprudent in setting out so late: yet if his guides had
known the way, he would have accomplished the purpose of
the mountains without much risk. I saw Mrs. Fremont

of Mrs. Benton in New York. Madam then knew nothing
of her husband's disaster. After all I trust she will meet
him on her arrival in San Francisco. Mr. B. means to get
an appropriation for working up Fremont's plants, next winter.
Wright got off nicely, & had a full supply of paper. He
is a queer looking chap - like, as our girls say - all the
botanical collector.

Dr. Parry, after going all the way to N. Orleans, & not finding
my letter for him there (as he ought to have done - it having
been sent) - returned, intending to spend the summer in Virginia
- but on arriving at Cincinnati, thinking he might yet have a
chance to accompany Emory - came to New York. I got him
off in the Crescent City; & he will probably find the Niger at
the Ithaca - as he was there when I lately heard from him
- he having been detained for want of funds that were promised
him. He goes as well provided, at Uncle Sam's expense.

He is to spend several years at the Ithaca (where the
R. Road is building) - & will have fine opportunities for collecting
plants.

Rachel has sent me a grand set of *Cyperaceae*. Is he a
Doctor?

Brackenridge is a candidate for the office of ~~the~~ gardener to
the public grounds in Washington. Cannot you send him a testi-
monial, addressed to the Secy. of the Home Department?

Last night I received from D. Royle, a set of Griffiths' works - pub-
lished in India - You have probably got the same - Griffiths
has a capital & original observer - but a little too dashing - like
his master, Lindley.

What do you think of Bailey's article on Microscopes in the last
Illustration? I scolded him for being so amiable & told him
if you had attacked Duckett, he would have cried peccavi! Yet
now that I look at the matter calmly, it appears that Bailey was
right & took the best course -

It is about a month since I was in the city & I have
not yet seen Carey in his new quarters. I long to another
day or two to work with him. We had a capital time over
the Pigweed of the Exploring Exped. just before he removed.
Next week I hope to be with him again. He is greatly im-
proved in health & seems to be in very good spirits.

I greatly regret to learn that Jane is so poorly: She was
improving slowly when you wrote last, & I trust she will
soon be strong. Mrs. Torrey is not well. She has
been near a fortnight in bed, receiving the benefit
of Dr. Delafield's prescription. Maddy is then still - Her eyes
are very much improved. The other girls are at home. Herbert
went with his mother. The country is delightful. Our Cherry
trees have been in flower several days. The late frosts did us
some damage. Give my love to Jane. Yours ever -
John Torrey

Do you see what a great ado Wood is making
in the Observer & other papers. Holtor is greatly
amused by it & says that you publisher must
follow suit, & come out with a long array of arti-
monials. Why don't you write to some members of
your Legislature, a few justices of the peace
& two or three dozen Country Clergymen for their
good opinion of your book. If then poor Wood
might send the residue of his ad. to auction!

I have had no Proceedings of the Phil. Soc. this
year - Have you published any?

On what terms do members receive the vols.
of the Amer. Acad.?

Alas, poor Endlicher! What a loss! Let
me know the particulars when you receive them.
I suppose he was over excited by the troubles
in Vienna. Indeed he was in a very unplea-
-sant situation if he had believed, I suppose
he would have had to flee the country.

We are all well. Eliza wrote to Miss
Gray this afternoon, & brought me the
letter to add a note - but there was no time
before the mail closed. I hope Paul is
improving, & that she will be able to make us
a visit this season. Give my love to her -
Yours ever - John Torrey

Princeton, May 23rd 1849

My dear friend

Your letter (very short) by Dr. Alexander,
of the parcel, were very acceptable. The Dr.
spent most of the day with me. After dinner
we took a botanical ramble together. He
seems to be an intelligent & liberal minded man,
as well as a gentleman. I had but little oppor-
tunity of testing his botanical knowledge,
but he seems to be well acquainted with European
plants, & with veg. organization. I advised
him to make Phil. his headquarters for a
couple of weeks, so as to get acquainted with some
of the leading men of science there, & also to make
excursions into the surrounding country - par-
-ticularly into N. Jersey.

I unfortunately destroyed the envelope of the
Linnæus - but I think the mem. on it that
that the expenses were about \$2 - which I
enclose - off you, let me know. I was glad
to get those journals - as I had none since 1847.
Did you notice an article on Texas plants -
(mostly Lindheimer) by Schell? Has this purchase
made any notices in nomenclature?

We must give a proclamation, like that of Par-
sefer Smith (I hope it will be treated more respectfully)
-forbidding these Dutchmen of their outside barbarians
from meddling with our native productions.

So Hooker has changed his B.S. Jan. once more! I
was surprised to learn, by your notice in Brit. Jan.
that the work paid so poorly. & that the author
purchased his own copy. We must now, I think,
be subscribers ourselves.

You do not say what you are doing. When is Vol. 2.
of Gen. Ill. coming out? Are you working on Echl. Def.
plants? Are they not most unsatisfactory specimens?
I get out of patience with Pichering of Brackewidge
every day. They told me it was impossible to get
better considering the hardships of their journey - but
Fremont got much better of far more numerous
specimens. Even when they were along shore &
close by the ship they obtained the worst specimens
Pichering, especially - seemed to look for the most
stained of ill-looking specimens - of them took usually
one of each kind.

Are your *Eriogonum* named? Pray send me your
set, & also Bentham's monog. I will return them in
a fortnight. I should be glad to see Nuttall's *Gaiety*
sp. - but must wait till I can visit Philad. His
genus *Erythraea* gradually runs into *Eriogonum*. Ben-
tham has not displayed his usual skill in drawing
up sp. ch. of this tribe.

I sent these capital drawings of *Sprague* to Reiche.
Are any more finished? Did you not say that the
Amaranthoid ("Androtheca") had been finished? If
so let me have it in your next. Have you studied
the plant enough to say whether the genus will stand?
How would it do to figure the plant called *Thamnosma*
nuttallii. And rept.?

What do you think of that peculiar name *Angelica*
umbellifera from Puget Sound (Echl. Def. plant). It
seems to be distinct from any genus in D.C. or
Eudlection.

Alexander brought me (as he probably did you) a
note from Hooker - the first in a long time. He
says that the parcel which I sent him ~~the~~
last autumn contained more rare & new plants
than he ever rec'd from N. Am. before! It was
the result of long gathering - I kept a corner
of a closet for him. & for a year or two laid
aside what I thought would please him. He
was a set of Fremont's last - (like yours) - of what
could be spared from Coll II. He does not,
however, make any allusion to a dozen large
pairs of peacht specimens (about half a hundred
wt.) which I sent in a box at the same time
& to the same address! It must have never arrived
- but I was careful to direct it properly - & I
took numerous pains to pack the jars & make
them tight. Part of them were for Mrs. Mrs. Gilroy

Poncetia, June 13th 1849.

Dear Doctor

Your letter of the 5th is before me - & I have also received the parcel of Erogonese & the Monograph &c. I am right glad that you found those new Compositae among the Expt-Exped. plants. Bentham will be surprised, & pleased too. Will you not write the precise localities of the plants? I can send you from Picheringi list, a copy of his brief notes about them.

As to that "other Bombaceous thing" (is it not almost Titaceus?) I think we may venture to restore one of the flowers. It seems to be apetalous, like *Fremontia* of Chénier: so that the fallen part must be regarded as calyx. Shall Sprague have this genus? or shall I give him the *Polulaceous* plant? I rather think you had better let me name his genus - as you & he have been so much associated. It will seem more desirable to be cited for me, than for you, to pay him the compliment. You once thought of giving him a *Melvocea* - but he deserves something more remarkable.

I am hard at work on *Eriogonum* - revising all my collection. Yours is not so good as I expected to find it. I have more named by Benth. on Hook. than you have - besides many more unnamed. Will you ask Jane if she will please copy for me the character of Bentham's n. sp. in Sulph. & also trace for the figures of *E. intricatum*? I shall send you descriptions ^{on the enclosed paper}

of Fendleri. Among them is one that I had before, from Fremont. & also from Shreve a most remarkable species with 2 minute perianths, which rather shrinks than enlarges, in fruit - & with a large, broadly 3-winged nut. It has, indeed, the fruit of Cal. of a Rheum, with the most of Ering. There are some good characters in this genus, which Bentham has not employed. The wood, has for me frequently 5, than 6, teeth. I need greatly Nuttall's n. sp. from Gambel. Dr. Zantinger informs me that specimens of them were not deposited in the Herb. Acad. & that Gambel has gone to California for two years. Dr. Z. is not aware that G. placed them in the hands of any member of his family before leaving home. Do you think Mr. Lowell would be willing to loan me the Erinogonum for a few days? I can return them in three or four days (being now quite ready to use them) - & will add to them a number from Fremont's duplicates. You have not put among your set, the few Calif. sp. from 3rd. Exp. that I gave you.

How long before you will give us some R. Fendleri? I should like to publish among them, some of Fremont's Ering. & perhaps, to make some remarks on the genus.

Among the plants of Eaton of Edwards (Mex.) that you returned, is an Oxalis: which you say "is an Oxalis" - as if I doubted this genus. I said on the label, that it might form a subgenus, - from certain peculiarities of the flower - but that it was not allied to O. papilionacea. As Bentham regarded it. That species has trifoliate leaves with cuneate, deltoid leaflets, some resemble roundish, or cuneate leaves! I saw Benth. at the same time, in another small collection from Halsted, the real O. papil. so well described & figured by Zuccarini: but he called it a remarkable n. sp. I should have thought that he confounded the two, were it not for the numbers. I his remarks on the specimens

Have you received the 4th number of the Journ. Acad. Phil. containing Nuttall's paper? He has made some alterations in the nomenclature from Synops. in Proceedings - & has besides added a quantity of gleanings - as usual. What do you think of his remarks under Chrysothamnus, Cyclachena (under Oxytenia) & Ptilomeris. He has made some characteristic observations under Pterochiton. Does he mean to insinuate that I knew of his having obtained hints as to that genus. I saw Sarcobatis from his notes in Herb. Acad. Phil.? I wonder how he found out that Pursh's Calligonum canescens (which at one time he regarded the same as his Strophium canescens, - is any Strophium occidentale? He seems to have assumed that Pursh's plant is different (although the description agrees with that in Gen. Am. pl.) - merely to appropriate the specific name.

I do not venture to give any opinion as to the affinities of Crocosoma, - unless he obviously alludes to it in saying that the flower is "a white Piony in miniature". Afterwards he says, it may as well form a suborder (of what?) Crocosomeae. He gave me a fragment (which was unfortunately destroyed) & stated that it was near Rosa - but I told him that it rather seemed to be Rosa & Spiraea. If there is a specimen in herbario, Lowell, please examine it & give me your opinion.

Eliza thanks Jane for her kind invitation to spend the week of the scientific meeting with her. She is not yet able to say whether she will be able to accompany me, but would like greatly to go. Give her & my love to Jane - the others would join if they were here. Yours affectionately John Torrey

High Dutchman in Buffalo don't understand the business of script engraving.

Can you lend me for a few days your copy of Lambert's *Reins*? I have made a pretty thorough study of the *Expl. Exped.* set - of sales of Fremont's - but need Lambert to verify some obscure points.

You had better send me the marks of nos. of Fremont's *Erif.* wt in the set that I have of yours - as I am now ready to give you my opinion about them.

I suppose that Jane is enjoying herself at Beverly - Give my love to her when you go down there - & present my kind regards to Mr. Lovins & the rest of the family. Mrs. T. & the girls send love to your daughter & yours affectionately
John Torrey

- I forget that you said the copy of *Erif.* *introduction* was made by Mr. Chas. Lovins. Thank him for me -

Wm. Torrey
Proctor, June 22nd, 1849

Dear Doctor -

Your letter of the 15th came & had nearly a week ago. Thanks to you & Jane (for I presume she aided you) for the copy of Bentham's figs. of ~~the~~ description of *Erifosium intricatum* - Did I not ask for descriptions of the other three or four?

I should like much to have them - Pray, also, procure for me the *Erifosium* of St. Gambel.

Some of those described in *Jour. Acad.* are of Nuttall's own collection - I suppose they are not in Mr. Lowell's set.

I have again written to Zangmeister to know whether they are in *Herb. Acad.* I am anxious to get these troublesome things off my hands.

Nuttall's characters are so badly drawn that I can make but little of them. He don't understand the true structure of the

To be, - for he puts in his diagnoses of the species, what belongs to the generic character, - & makes many other blunders.

Have you any fragment of Englemann's *Triop. atrovirens*? If not, - I must write to him for a sketch of the plant, of a few of the flowers.

I should have written to him a week or two ^{ago} had I not feared that the cholera, of the great fire had prevented him from looking at plants.

You do not say which of the Californian genera shall be given to Sprague. The most curious of them are the *Populacaceae*, & the one resembling *Pleurostema*.

You ask whether *Thamnosma* (M. Fendler) is not rather *Rutaceae*, than *Zanthoxylaceae*. It is exactly 6 of one & 1/2 doz of the other.

If you know of any distinguishing characters of the order - please inform me of it! The only one of much consequence is the deciduous flowers

P.S. Saturday afternoon. I have just rec'd your of June 22. As to *Popule*. Mr. Eudicott assured me long ago that he had settled my account with him - & so I took no more trouble about it. I shall write to Mr. E. on the subject of *Popule*. ~~But~~ I sent you some of the *Popule* - but they pointed to the only correct letterpress. This I do not think is called *Popule*.

in the latter - but some *Zanthoxi* are hermaphroditic. Is not *Thamnosma* near you?

Rutosoma? How is the embryo in the latter? In the former - the radicle is clearly inferior - whereas in all *Rutaceae* of *Zanthoxi* it is said to be superior!

I see you have had a grand celebration at Cambridge. If a regular account of it is published, please send it to me. I should like to have been present.

Rebell informs me that he had done the three plates - & if I write you would let him have some more drawings.

I should like, however, to see them before they are engraved. Make up your

mind, too, which genus shall be given to Sprague. The lettering of the plates had better be done in New York, as Eudicott is probably promised the printing of that

I was under the impression that I asked you
to correct the mistake about *C. mex.* in *Pl. Fend.*
My *C. ?* *Stumpfohii* (in *Ferns*, *and* *Exp.*) will
perhaps turn out to be a *Wrightia* - for
it has the same stipules, long style, long
stipitate ovary. & apparently, but 2-3 ovules
in each cell. My *Orythya* is very different
in gen. ch.

Have you any fruit of *O32* *Fend.*?

In examining a specimen collected near Monterey by
Dr. Edwards & Mr. Eaton (numbered 47) I lost the
only flower upon it. You said of it "Don't
know - good specimen in Coll. Tex. Rio Grande,
Wright." Let me have a bit in a letter.

Tomorrow I expect to make a visit to my
brother, in the Pines. Herbert is to accompany.
We hope to return before Sunday.

I am glad to hear that Jane is improving.
Give our love to her - We are all
well, - but have some fear about the Cholera
as it has come within three miles of us. Five per-
sons died in Kingston in two days last week -
Yours affectionately J. Torrey.

Proctor, July 10th 1849

Dear Doctor -

I was not aware that your last
letter had remained so long unanswer'd,
till I just now turned to it - date! Nearly
three weeks have elapsed since it was written.
The parcel containing *Erigeron*, *Lambert*,
Pursh &c. came safely. I had got over
head of ear in Borajon. when it arrived,
& could not take up the *Erigeron* again till
I had given the rough coat a dressing.

I write the rest of your "Borajon" mine
here, as I could see them to some advantage
& do you a service besides. The family gave
me more satisfaction than I expected it would.

If half a dozen species were settled (mostly
Californian, without fruit) I could do up all
the family very comfortably - I mean, of
course, that of N. Am. You must have

Can you send me *Myosotis* (English) California?
from your garden? There is a letter to it
every year from

received many since you sent me your Boreg
a year or two ago. I suppose there are
more of Henderson than the two or three that
I have. In your next parcel send me all
that you have of these pots. The other are
now well arranged. I find the family
done up very well in the Prod. ^{Alphouse}
has added much valuable matter to his
father's notes. Shall I add some remarks
to the Hendersons for the continuation of your
papers?

Mr. Lovell's *Eriogon.* have aided me but
little. Only two or three of Gambel's plants
are named - of as I feared, Nuttall's own
n. species are not included in the plants
that were sold as Gambel's. I hoped the
old gentleman would have embraced the
opportunity to turn a penny - of thrust
in some of his duplicates at ten pence a
piece

^{two} Some weeks ago I wrote to Reiche, remind-
ing him that Mr. Endicott paid his charge
against ~~me~~. Endicott says it was paid
three years ago - of charged to me. He wanted
to send immediately to P. of recover the money.
but I told him to wait till my letter
was answered. I have little doubt that
P. has forgotten the circumstance - but
Endicott's books show that he has been paid.

Thamnosma. I now think had better be
referred to *Rutaceae*.

I enclose a few seeds of what I suppose
is *Oleumella mexicana* - They look as if they
would grow. Did I not give you a fragment
of Nuttall's specimen (from whence there were
taken)? It must be D.C.'s plant - of is totally
distinct from ours - which ought to be called *C.*
angustifolia. Gregg's (of wh. I hope you
have a specimen) is still another species
(*C. serrulata*). very diff. in leaves & etc

I have been thinking of you
 and wondering how you are
 getting on. I hope you are
 well and happy. I have been
 very busy lately but I
 will try to write to you
 more often. I love you
 and miss you very much.
 Give my love to your
 family. I will see you
 soon.

I have been thinking of you
 and wondering how you are
 getting on. I hope you are
 well and happy. I have been
 very busy lately but I
 will try to write to you
 more often. I love you
 and miss you very much.
 Give my love to your
 family. I will see you
 soon.

I have been thinking of you and wondering how you are getting on. I hope you are well and happy. I have been very busy lately but I will try to write to you more often. I love you and miss you very much. Give my love to your family. I will see you soon.

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Handwritten text on the right page, appearing as bleed-through from the reverse side. The text is mostly illegible due to fading and bleed-through.

and I must not. The next
week will be in touch ex-
actly by the middle of the week.

Yours ever
Wm. W. Johnson

Friday, Aug. 1, 1847.

My dear friend -

I have been with you in the
many of your studies. I received the
book which you sent. It was long
to me for friend Carey, who is now
with us. We all enjoyed his visit
very much. The gift of his work
is to be sure. He is in the
habit of taking his notes, and by
the work which he has done
shows a still increasing. He will be
as soon settling and his work
the "Liberator" - it is by whom
he has so often published his
views that we wish to follow. In a
day or two we will attend to

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Wednesday at Hinson

Dear Doctor -

I have but a moment before Eliza takes her letter to the P.O. to write a few lines. She did not give me sufficient notice -

Your parcel came safely - Thanks - I see you have had a fine muddy fog time of it. The meeting must not be ended. I am greatly obliged for the newspaper containing an account of the proceedings.

Henry is enjoying himself. He don't work much - but talks of wanting as well as romps with the girls - They & Mrs. Torrey like him greatly. Upon the whole he has had good health of late - they fear. His son John (don't talk about it yet) has just sent me a letter, inquiring how he has enjoyed himself, & to an excellent young boy - but I have not yet asked the name. He will tell me all about it when the next letter from John is recd.

I have H.C. prod. xiii. The Pleni's are pretty well done - but it is strange that Sarsaparilla should be omitted when it was in herb. book. where Mosquin appears & have made great use of.

Clearly has not done justice to the Mycetozoa
I will send you a new note on those of Champé
for your Bibliog. in Sil. Jour. There are
some M. Mex. Nych. to be added.

What do you make of ~~the~~ 80 Fendl.? I
take it to be *Mycetozoa cubitula* & where did
you get the name of *hemic mexicanus*? It
is not in Mag. (35, 1860). I had only one
reference, & lost a part of it while submitting it
to the reviewer. He with the copy before him
asked me? Look at your Rec. ^{no.}

I hope to receive the remaining account of
the meeting. Much do I fear that I have
been shaken by the excitement, which, with
all his care she could not wholly avoid.

Engelmann has just sent me a short
letter - he is well, but has been worried
almost to death. I sent him a notice
of *Knittel's Cleomella mexicana*, & told him
my views of the genus - but he seems to
have made up his mind as to the distinctness
of *Knittel's* plant before I wrote him. He
sent me the diagnosis char. of *C. mex. C. angustif.*
(Same name as mine!) (*C. unicolor* (Repp)) - So I am too late
much love to Jane. Carey writes say the same - but he
has gone to walk with the girls - Yours ever J. Torrey

In your last you say nothing about any
more drawings for *Trinitarian* Contributions.
We have ~~only~~ ^{now} four engraved. Have
you sent any more to Berkeley? I have
proofs of the *Datis*, *Schweinfurdt*, & *Chry-*
sobaleinoid. What shall I call the
n. genera? Shall either of them be given
to Sprague? (*Spragueia*? *Spraguea*? - a what?)
Good old Darlington, too, ought to have
another genus - for the old one has been
swallowed up -

The plates already engraved ought to be
lettered. I send you ^a proofs of the *Datis*,
which you will forward to Berkeley if you
approve of the order of lettering. It is
desirable that we should be uniform in this
matter. Are you always so in *Gen. III*?
The leaves are shaded too darkly in *Datis*.
I hope to hear that Jane continues some-
what cheering - much love to her, in
which we all join. I am affectionately
Yours
John Torrey

Pompton, Nov. 14th 1849

Dear Doctor.

When I wrote to you last, I believe
Cary was still with me. He left us
last week, & we felt a void when we
heard his kind voice no more. Mrs. Torrey
& the girls, as well as Herbert, became
much attached to him. His is not,
I presume, visiting the Astors. We have
heard once from him since he returned to
the city.

Dr. Alexander came here last Monday
& left us yesterday. We all like him,
for he is a very intelligent, polite & agree-
able man. He seems the very liberal
- especially when it is remembered that he is
a rich Englishman. He went out into
the woods two or three times, - & I
gave him some dried plants. Had not
our house been crowded with the company
all the time he was at Pompton, I could
have well supplied him with many more

specimens. Le Conte came up last week & remained till Wednesday. We have also a young lady staying with us - of Hartung's also, (with a friend) is spending a week at home. I hoped Harvey would ^{have} ~~be~~ in upon us by this time. Some have thought it strange that he did not report himself at the Scientific Meeting. Early in the month he was with Bailey at West Point, & accompanied him on an excursion to Greenport (L.I.) in search of sea-weed. He was left rich in New York, and, as the date of Bailey's letter had not been fixed for several days.

Allen has just come in from Carey - he was in the city - but was about starting to spend a few days at Mr. Astor's country seat.

When Hartung returns to New York, I shall send by him some of your plants, with the copy of Lambert's Times, which you lent me.

Do you remember a singular plant in fruit - from Fremont's last Calif. Collection - of which we could make nothing? It is a shrub with entire opposite leaves, & a few ~~large~~ flowers in a loose cymose panicle. I have but one specimen, which was left with you for examination - of which I returned ad. "quite unknown" - Even the family could not be determined. Several times ~~again~~ I had it out, & as often put it away, without being able to ascertain its affinities. The ~~fruit~~ specimen is in fruit & the capsule, some specimens had been weathered. I found, however, two unweathered petals. What we took for half-ripe ~~single~~ seeds (2 collect. in each cell.) I have lately determined to be placental - & in one or two of the capsules I discovered a few minute seeds. The plant is Saxifragaceae ^(Philod.) next to Philod. - plus of Decumaria - but a fine new genus. I will send it to you that you may reexamine it with the new light lately shed upon its structure. The fruit, as in some other Saxifrag., is almost entirely superior.

New York, Oct. 22 1849

My dear friend

I can hardly say a season the opening of a new term
in College is. As we commenced mine than a fortnight
earlier than usual this year; & they wished to get as much
as possible out of me at Princeton before I left for New York,
my time has been fully occupied. I have time on
three unanswered letters of yours on hand - but I have
not forgotten - & intentionally neglected you. All the
parcels came safely - for which I am very thankful.
You ought to have received the Borag. &c. with Bot. Ill. &
Lamb. Riv. long ago. I intended to make up a large
parcel - & so delayed from week to week. It was my
design, also, to look at the Herb. Acad. Phil. before returning
Eng. & some others. I spent the 9th & 10th of this month in
Philad. - going over, pretty carefully the Eng. of Borag. Of
the former, Nuttall has marked as n. sp. about ~~4~~ twice as
many as he has described in Pl. Gamb. All his specimens
are uncharacteristic - many of them bits that you or I
would not permit a place in our herb. There are
two bits with ~~the same name~~ the same name. So he has

Some n. spec. of very many n. sp. of *Bryoz.* mostly without
fruit - named in a slip date sent off way - as if to secure
priority at all hazards. There is scarcely any thing worse
than this in all Rafinesque's doings.

Prof. Maclean paid me for the College Copy of Gen. Ill. when
I was at home last. Mr. Field has not sent his \$6 - but
as I am sure of it - I will include the amount in a draft
which I shall send you next week.

How odd I am that I have several times missed Henry.
It was on the watch for him - but when he was in the
city I was at Princeton. Carey was quite certain that
he would call at Lane St. as soon as he returned - but
of this I hope to find out when he was to be found - but there
was cross firing - & they did not meet. H. left a card for
me at the Med. Coll. - but it was too late to see him when
I returned from Princeton. I cannot go to Cambridge now
till the Christmas holidays - & by that time his lectures
will be over. Perhaps he will come here once more
- & then we may meet. I must see him somehow.

In two days I have had a box full of parcels ready
for you. It contains the families of books alluded to above
- also your *Nyctag.* and Dr. Lowell's *Erizog.* (for which I thank
him - & apologise for my keeping them so long) & a few

other matters for yourself. Also large parcels for Dupon
- because of Bentham. The freight on the box was to be
paid for me by Hartweg - I gave him the directions - but
the Express man has neglected to call for the box. It will
probably go tomorrow. Please send the parcels with your - when
you are forwarding any thing to Bentham - & to France.

Drayton called to see me last week - He says you
have no expectation of getting my drawings for *Expt. Eup.* done
by Sprenger. I fear too that that for Southwestern Contrib.
will never be completed. I am going to ~~send~~ for an artist
from Europe - if Walker of the "Lib. Con." will let me have
my way in the matter. It was my impression that

you were going to make only a kind of popular report on
our Forest Trees - a hundred pages - or so - with small wood
cuts - after the manner of Loudon - but Drayton says Sprenger
is making full figures for you - of that he has done quite a
number of them. If you mean to do up all the trees in this
style you cannot finish the report in many years. I
have some splendid oaks (several quite new) among the *Expt.*
Eup. unless Hartweg has discovered them. A letter
recd. this week from Bentham contains an uncorrected proof of 4
last paper *M. Kuehneri* - including ~~some~~ *Polygonaceae*, *Euphorb.*
&c. Eight more papers are in a pencil now on its way to me.

I received Booth's letter - in an enclosure from you. It is
very kind & of characteristic - making frequent allusion to you & Carey

Our Faculty made a sad mistake in beginning the term
so early - especially in our trials (the Broadway folks) begin
at the usual time (2nd Monday in Nov.) - & our circular
& owing to the Cholera having occupied my colleagues - & driven the
Trunkcar from town) was not out till September! The cruise
should have been extended into the spring - as we could then have
started fair with our neighbors - The month of March is also much
better for dissection, than October - a worse November - Thus far
we are much behind our numbers of last year. It is said that
the Philadelphia Schools are there. How is it with you.

That Borag. ^(with 2-part cylindrical fl. in axill. clusters) that I sent you from Espl. Exped. - which neither you nor I
could make out - though I put it away next to Heliotrop. & Codonia, is
a congener of Tegutia of Persoon - Surely it is very different from Codia
- but very near Teg. dichot. There are 2 in sp. in Euvoy's collection.
That other Borag. from Edwards of Latin - also sent by Wright. must
be a Codia - or rather a Hesperocarpus (S. & D.). To be sure the
insertion of the stamens of one or two small characters don't agree
with Dr. S. description - but the Stam. vary in their insertion of length - as
in some Rubraea &c. You must identify the plant I allude to
- small, suffrut. caespitose, - ellipt. acute leaves.

That B. gen. Saxif. (Philad.) - has spec^{im} in fruit; you will find in
your herbar. for I made a name. that it was sent to you. There were
only 2 dupl. - one for you - the other for Hooker

Did I send you my spec^{im} of Persephyllum - from Kitchell? It is not in my herbar.

I have not heard from Bailey very lately - at the last account he was quite poorly.
I had understood his mind to spend the winter in Florida. Some of Eliza me at West Point.
Mrs. T. has only made with her at Princeton. Herbert is in the River at my brother's
I hope to hear in your next that Jane is in good health. Give my love to
her - Cincy was well two days ago. - from working at B. Bacon.
Yours affectionately
John Torrey

Poncha, Nov. 30th 1849

My dear friend

It is so long since I have heard from you that I fear you or some must be sick. Did you not receive a letter from me a fortnight or more ago? It contained a check in advance for \$50 - & I wished you to let me know whether was not a balance due on \$100 I was to have remitted late last autumn or in the beginning of the winter - I don't remember whether the whole sum was sent.

We were all at home yesterday (keeping Thanksgiving) except Henry - who has been for some months in Wyoming, at school. We had some friends with us. & kept the day in regular New England style. Cary was to have come - & Le Conte too - but they were prevented.

I have had a visit from Brackening - He brought his Mt. of Capt. - Exped. ^{to} Term. & I looked

Pray send me by mail, if you can, a copy of Treasurers' pamphlet on Warrington's account.

over it cursorily. Only a portion of this work could
be examined with much care for want of time. We
will be here again, - if in the mean time it is to be
viewed the work himself, according to some rules which I
explained to him. He is a shrewd & well-informed
man - but lacks education, & is not familiar with
botanical writing. A few of recurring faults, he
will correct, as he perceived them at once when they
were pointed out. He describes well, & I have
much confidence in his determination of species - as
well as in the selection of synonyms. The drawings,
& many of the proofs, you have seen. Surely they
will not suffer by comparison with any thing of the
kind hitherto published.

Candlish prefers me to get ready the stones for
pressing. There are only three ~~of~~ plants done. Two
are on one stone, & one on another. Perhaps could have
the two stones ready if you would send another drawing.
You don't tell me whether the Fernonian is to be re-drawn.
- Neither do you give me your opinion as to which plant

shall be dedicated to Sprengel. Shall we give
another genus to Darlington?

A Mr. Coulter - an English Botanist, who has devoted
some attention to Cryptogamic Botany, called on me
in New York. He is very poor, & seems unable to
get along. I think he lacks force, & will not succeed
either as a lecturer or as a collector. Perhaps he
might do better in some expedition. He was to have
come up in the N. Brunswick Stage last night - but
he did not make his appearance.

I have written to Henry to find whether there is a
chance to send some naturalists on the Mexican
boundary line. He was just going to see Mr. Clayton
when I heard from him last. Nothing has come
from Parry yet - but I hope to receive a box from him
this week. Rich has returned from California,
& has brought a small but (Brackenridge says) nice
collection of plants with him. He will probably hand
it over to me, but he is so shy, that he must be
cautiously approached.

Lieute^{nt} of Walther must be at Panama by this time.
I think we shall get something from them. R. will
devote most of his time to a comparison of the animals
of the Pacific Coast: with those of the Gulf & Atlantic
waters - H. will probably be stationed, after a month
or two, as surgeon on board one of the Pacific Steamers;
he can only have a few days at a time for botanizing, in
the ports the vessel will visit.

I hope you had a pleasant Thanksgiving. Next
to home, I should have been most pleased to have been
in your little circle at the Bot. garden. Perhaps I
shall be with you in the Christmas holidays -

Mudge goes on Monday to Washington - I will prob-
ably remain there till March.

I am working at Botany all the time that
I can spare from the laboratory duties. I am able
to accomplish something.

Did you dispatch the parcel to Beckham? I
have received a quantity of Wallisian plants from
him - Mrs. Toney & the girls write in love
to Jane, with a good share for yourself. Yours ever
J. Loring.

Mrs Torrey has been here for more than a week - the last three or four days so sick that she could not return to Princeton. Now, however, she has so far recovered, (though still weak) that she hopes to return in the morning. We have made arrangements to board for at least two months in town - I shall come in after New Year - Judge seems to enjoy himself in Washington.

Unfortunately I made a promise to give a lecture (a charitable one) in Princeton, on the 26th inst. - without considering that it would interfere with my proposed visit to Cambridge. I will see whether I can be excused - but I fear the women will consider me as pledged. So it is doubtful, after all, whether I can go to see you in the holidays.

Carry is pretty well - I work at plants daily. Henry has given for a few days to the office - I have seen him from a five times, & like him much. I am pained to learn that Jane Day is not stout - but trust that she will soon be able to resume her place in the little study. Give my love to her & believe me affectionately yours, J. C. Torrey

New York Dec. 22nd 1849

My dear friend.

Your letter of the 17th inst. came to hand two days ago. Surely I had answered all yours but one, before this last was received! The other was dated Nov. 28th. My time has been so cut up with small matters, in addition to my laboratory duties, that I was obliged to leave ~~it~~ unattended almost every letter received within the last month. Now I have got through the most laborious part of my course - of the Berlin plain easy work.

The new drawings came safely also the nice dried plants from your garden & herb - as well as those obtained over ymine - many thanks for all these. I hardly know what else to have figured for Smithsonian Cabinet! These

ought to be 10 plates without plates -
or that must be put in a separate
paper - You must select two
or three new *Cuscuta* for me -
I shall send you my own specimen
of the Saxifragaceae (Philad.) plant
concerning which I wrote to you. It
is in rather poor condition - but you can
easily see what was the mode of
inflorescence - & from the fragments
& my sketches &c. make out its char-
acter. I don't know whether there
will be enough for a figure. You
will find a perfect petal which I
have put in a small envelope.

When I go home tomorrow I will select
two or three more plants if I can find
among *Fremontia* worthy of being figured.

I read Babington's & Hauchain's paper
on *Anacallis* when I was last in
Cambridge - but do not remember

all the points that were discussed. I
doubted at the time whether the plants
could be identical in species with our
Utah. When I examine my specimens
again, I will give you the result. As
to those which grow at Poecetum, they are
certainly - at least in most cases, hem-
isophyllous - & are clearly so shown in
my drawing - but the lithographer has
copied the flower very badly - the
anthers being represented almost like a
broad central rib to the sepals. I will
put up for Babington some of the re-
markable abnormal forms of the plant
of which I have a few duplicates in
alcohol.

In Moquin's *Anacallis*. (D.C. prodr.) I
think he has used a new name of *Neckleria*
in herb. Hook. for my *Eudolichia*. Please
look & see if that will not make my
descriptions unnecessary, unless perhaps
as a footnote in your last London paper.

New York, Jan'y. 11th 1840.

My dear friend

Your letter of the 9th was brought to me this morning. I greatly regret that it was not in my power to visit you during the holidays - but I had much to do at Princeton, & could not have done otherwise. We were all preparing to remove here for the rest of the winter, & Mrs. Torrey could not leave Princeton without me. We are now comfortably settled in a quiet plain family (no 308 Broadway) not far from the College. The two girls of Herbert are with us. I told you that Margaret was at Washington - where she will remain till Spring. I shall send you the Philadelphia plant in a day or two. Harkness had it in charge before the holidays, & I hoped he would forward it with some other matters.

Jan'y. 15th Sickness & business have prevented my finishing this letter. I am now myself again - Do you have almost settled the time for visiting Europe! I don't see how it is possible for you finish what you have undertaken to do, before the month of July. Really I think you

I will take Plebeian
I have a little bottle of the American strain of Adon. for Washington.
Harkness indicates against Craig. I will you send to me a little which?
Don't you mean to send that Plebeian Plebeian strains?

are making a perfect slave of yourself. The mind will go on just as well if you describe a few scores less of new genera of species. Pray don't begin any new work. You have enough on hand for years to come.

As to that plate of *Fremontia*, I don't think it quite comes up to the others of the set. You thought so once yourself. Still it is very good, & it need not be redrawn. Nor do I know whether it is worth while to add anything to it. As I must put *Batis* by itself - & there ought to be 10 plates of Mountain plants, each work may be printed separately.

I think the *Chamaebatia* ought to be engraved - & *Hymenoclea* of course - So we have done or laid out -

- | | |
|---------------------------|--------------------------------------|
| 1. <i>Fremontia</i> - | 6. n. gen. <i>Chrysobalanus</i> . |
| 2. n. gen. <i>Bombac?</i> | 7. <i>Chamaebatia</i> - |
| 3. " <i>Philad.</i> | 8. <i>Hymenoclea</i> - |
| 4. " <i>Portulac.</i> | 9. n. gen? near <i>Adeucostoma</i> . |
| 5. <i>Schweinitzia?</i> | 10. " " " " |
| | 11. <i>Batis</i> - |

The 10th might be one of the rarest new Compositae, but I am not able to say ^{just now} whether there is a n. genus of that family.

Two weeks ago, just as I returned from my holiday visit to P. I found a note informing me that a parcel addressed to ~~me~~ ^{me} was in the public store, & was to be sold the following week - As the time was near past - I supposed that the parcel was lost. After-

wards, however, I found it advertised to be sold the 29th inst. On enquiring, it proved to contain two books - & nothing more, except a letter, which was given to me. The books are from DeCane, a copy of *Fl. of N. Zealand* - one for each of us. They have been in the public store 2 yrs. of 4 mos.!! & yet I knew nothing of the matter. The expenses were so great that I at first was advised to let them be sold, as I might buy them for two or three doll. - but I shall try & get them out today, if they will let them go without duty.

Last night I saw Dr. Paken (who sent many of the plants from N. Mexico). He told me that Dr. Edwards was now stationed at St. Fe & I was collecting for me.

Did I tell you that Mr. Peck had returned from California, with some plants? He has concluded to place them in my hands, & I am expecting the parcel to-day. You shall share if there be any thing new. Brackenridge put me on the track - Prince of Sherking is expected home every day. He wrote to me from St. Francisco that he had a pretty full set of plants for me -

I cannot just now afford to purchase the 3rd. Vol. *Mem. Amer. Acad.* Your Feudler paper I have - & of there is nothing the 1st. I need particularly except the Botany. The 1st Feudt. however, I believe to be put in Vol. 4.

I had forgotten that Agassiz commenced, so early, his lectures in N. York. He has been engaged for a short course, by the

Both are very much discouraged as not getting any more. I am going to take charge of my bed. I have got upon in back, & hope to find him this evening.

Soc. of Mechanics of Tradersmen - a very respectable - & rather aristocratic concern. of the upper 10 - among the workers. They sell no tickets - of none but members, & their families are admitted. When I lectured before them several years ago, no ticket could be bought, at any price! So the public will no but little about the cause of your great man. He commenced last night & I have not seen him yet.

Carey is still rather poorly - but wakes up when you get him upon the dear plants. I spent an evening at his room, last week.

Your preceding letter made some inquiries about *Udora*. Until lately I had not seen the male flower, except in specimens sent by Engemann. Carey, however, has introduced them in sp^d of the plant from N. Jersey. He showed them to me. I may get you bits from Mr. Browne, who first got them - but was ignorant of the plant.

I send you spec^{im} with good male flowers, from Engemann - as you may have no dupl. My drawing of the plant, was badly copied by Rudloff. The original showed, most plainly, the stamens

They vary in number, in the hermaph. plant - from 3 to 8. Several of them others are often imperfect - but others contain regular pollen. Harvey told me, he now thinks his *Lagarosiphon* is hardly distinct from *Udora*. He says that the ovaries are orthotropous, as shown in his drawing (see my ^{plate} ~~drawing~~ & desc. in N. Y. Flora) but that by mistake they were called anachor in the text. It is not yet certain that *Anachor* is ident. with *Udora*. Carey says, his English *Udora* have ovaries of stigma. I get the female plant is said never to have been found by Pilchard & Stamitz!

I will write again when I send you *H. M. Zeal.* &c. Love to Jane
 Yours ever John Torrey

New York, Feb. 15th 1850.

My dear friend -

It is a long time since a letter passed between us - but I believe the fault is my own. For some time past I have been occupied in some extra duties at the laboratory of my correspondence has ^{been} suffered to get in arrears. I hope you received a small parcel left with Mr Mayor to be taken by Agassiz. The 'Plants of N. Zealand' cost \$1.25 - less than I expected to pay - but the trouble of getting the parcel through the Custom House was unusually great. The above, I mean is half of the charges on both copies. It is strange that de Caisnes' letter (the only information I could have had of anything being sent by him) was enclosed in the parcel!

Did I tell you that Rich had brought me a small collection of Californian plants? The *Campitaea* - if I mistake not - were sent to you by Agassiz. Since these were received, a Mr. Fitch has sent another small batch - & I am daily expecting a good set from crazy Bill Prince of Flushing. The box from Parry has not yet arrived.

Agassiz has doubtless told you of his doings here. Gillman is trying to get up a class for some lectures on Geology by the best man

but I have some fears that our new books will not come forward in sufficient numbers. I regret to learn from A. that it is the general impression among the intelligent people of Cambridge, that Webster is guilty of killing Dr. Parkman. At the worst I hope it will be shown that Dr. P. was killed in a sudden fit of anger.

What unpleasant news is that about Sol. Hooper! I hope the poor fellow will soon be released. His parents must be greatly distressed. Have you any particulars of the affair beyond the short paragraph ⁱⁿ the newspapers?

Johnston must have commenced his lectures by this time, with Lowell Drake. He says that he spent a week in New York & lectured twice at the Tabernacle. His first talk (on the application of Physical Geography & Geology to Agriculture) I liked very much: the second was much less interesting. There is a great deal in the little fellow's nodole - if he is sure to let you have it. He is a thorough Tory, & not very well bred - but I think means well. Madge, who saw much of him at Prof. Henry's, did not think him a very polished man. He needs a sharp penon to rebuke him now & then - if I once a time visited he had been in your hands. Upon the whole, however, he is a good fellow & is making himself very useful in "the States".

Have you printed the second part of Fendler's plants? If it is done please send me a copy by mail. I hope you have done justice to Schell. I ~~am~~ have set him right as to many of his new species.

You must be getting matters in order for your visit to Europe. It is a pity you undertook so many jobs while the work of Mr. East-Exp^d was on hand - for whatever is not actually printed when you leave home, must remain unpublished till you return. The Report on Forest Trees, if carried out according to your last plan will require about another year.

My course at the Medical College is drawing to a close - we commence our Examination next Monday. I am trying hard to dispose of my place at Princeton, so as to return to the city - not meaning, however, to give up my situation at the College. I can board in P. during the hottest months, & then give my lectures there - or I can be absent two nights in the week, & deliver three lectures - spending most of the time here in town.

We are all well. Mrs. Torrey is sitting by my side. She joins me in sending love to Jane & to yourself. Herby says tell Dr. Gray not to forget some hardy plants, & seeds for the spring. He is studying hard, so as to accompany you to Europe! I wish me to send you his love. Yours affectionately
John Torrey

The following plants are now figured,
from Fremont's Collections

- 1 *Fremontia* -
- 2 *Chamaebatia*
- 3 *Schmeinitzia*? or n. gen.
- 4 n. gen. *Bombac.*
- 5 " " *Portulacaceae.*
- 6 " " *Chrysothalam.*
- 7 " " *Philadelph.*
- 8 " " *Roraceae* - I asked you how this
} differs from *Prenan.* will you tell me?

To be drawn -

- 9 *Rhynchoslea* -
- 10 ?

In a short time his son is to be married. & then
the old chap talks of going to England - because (my
girls tell him) - he will be too happy here - & he is
only satisfied when he has something to worry over. So
they go on him. Mrs. Toney sends her love
to you & Jane - & so do I. Yours ever
John Toney

Princeton, March 26th 1830

My dear Doctor -

Your letter of the 21st came to hand
yesterday. I had been absent in New York
for several days. I am ashamed that
your two preceding favors were neglected
so long - but you would excuse me in
part if you know how much my time has
been cut up. Until last Monday, I had
been engaged not only in delivering lectures,
- but also, in examination of Candidates - & in
pursuing some troublesome researches for
one of our gentlemen. Now I am through
with city duties, & am once more among
the dear plants. Would that I
had taken with me when I last went to
the city, a specimen of the *Rhynchoslea*. I
have two specim^{ts} (from different parts of

California) of *H. Salicola* - but they are ~~both~~ poor.
The better of the two I am afraid to trust is a
letter - but will endeavor to forward it
by express in two or three days. In the
mean time I send several male heads of the
plant.

I have put with the *Hymenoclea*, my best
specimen of *Alcides flava*.

The package which you have for me can
be sent to the care of S. H. Grant, Mercantile
Library. Send the drawings to Berkeley Dist.

I shall be right glad to see you on
your way to Washington. So will we
all be - for I hope the family will be
complete by the time you come. Mary
is yet in Washington - but we look for
her every day. I left the two elder
girls in New York - but they, too, will be

here this week. Henry, you know,
perhaps, is at school in Wyoming.

I handed to Hastings your commission respect-
ing books for Wright - I hope he has
attended to it.

Your opinion of Johnston fully agrees with
mine - as does the notice in the Boston
paper which you sent me. I should be
wondered do better after the honesty which
you read to him. It takes years to beat
out of the head of a conceited Tory, the notion
that Americans are not more than half civi-
lized. Give him another poke before he leaves

Boston -

Although I saw Carey pretty often last
winter, we did but little botanical work.
He putters up his plants a good deal - &
has much of his herbarium in fine order. I
have not seen him in better spirits for years

Princeton, March 29th 1850.

My dear Doctor -

I wrote you a few days ago, I already wish
your opinion on a number of matters. The first thing
that presses on me - is the matter of Brackenridge's work. About
two thirds of the MS. are in my hands - I possess proof of nearly all
the plates - so far as completed. I promised long ago
to overlook the MS. & have already gone over some of it
with B. Sumner. He is not (as you are aware) a man of
education - but writes clearly & understands his subject well.
Since I corrected some of his errors of plan of style he has
re-written most of his work. Of course he alone is responsible
for its botanical accuracy. I will send you a portion of
the MS. which you can return when you go to Washington.
The specific characters are to be put in Latin - but the
detailed descriptions will remain in English (as in Dana's
& Gould's volumes). I am not certain whether the characters
of subdivisions of groups should be in Latin. They are mostly
from John Smith's work. "The Committee" are very anxious
- viz. that the work should be put to press without unnecessary
delay. Wilkes is very positive that the exact style of

The Nat. Hist. volumes should be alike - that is as to the
arrangement of the Descriptions, Synonyms &c. This ~~is~~
is a ~~higher~~ view ~~arrange~~, perhaps - but I don't think Dean
has adopted a very good model - especially in the manner
of placing his Synonyms.

Harry has sent me a letter since Walker broke up the
Surveying Corps - & seems uncertain what to do. He can
continue in the service, & work again, should the operations be
resumed in the autumn. He asks where he shall explore in
the mean time. What shall I tell him? What shall
I advise Fremont ^{to} do for Botany? for I suppose he will
soon have a voice in the Senate.

Whom will take care of your herb. sp. in your absence?
How shall I consult any of your books that I may need?
Had you not better return any of my herb. prop. that may
be in your possession? Such as Gen. Phlox &c.

Madge (who is still in Washington) says that Harvey
is there - lecturing on Seaweeds. He is so diffident, that
he don't do himself justice. She says that he hesitates &
flounders a good deal. In the house they like him much.

Will you deliver any lectures in W. D.? I suppose, however,
that you will hardly have time. Besides Henry don't offer

enough to tempt me - only \$25 for a single talk!
I could do much better in New York if I only had some good
illustrations. You never answered a question which I must have
asked in one of my more recent letters - Don't you remember
once giving me some hope that Mr. Lowell might deviate
from his rule as to the L. illustrations especially to a botanist
now that he is no himself? I really should like to
give a course in New York this Spring - & as the pictures
will probably not be used again in the Institute - at least
for some years - perhaps you might persuade him to lend
me a selection of them - for I would take good care of them.
Can't you put yourself in the way of asking him very soon?

We are hoping to have at least a short visit from you
early in April. Do bring Jane along. By the time you come
the girls will all be at home - & they all - as well as Mrs.
Lizzy & myself will be so glad to see her. As she has been
in Washington she can remain with us while you are there.
Don't fail to bring some nice seeds of a few plants for
Herbert - He talks about them every day. Poor little fellow
he is not well just now. nor has he been for some weeks
past.

You are doubtless greatly interested in the trial of Dr. Webster.
The testimony for the prisoner is rather stronger than I supposed

would be cleared - I is not, after all, very much in his
favor. I feared the worst from the beginning. It is possi-
ble that some other person may be implicated - but this
far it looks very black for your Professor. - There can be
no reasonable doubt of the body found in the Mill - being that
of Dr. Parkman. I unless settled to be a great scandal, Dr.
W. must have been concerned in making way with it.

I am working more or less at plants every day - but have
under many disadvantages for want of a better library. Were
I in New York, we might exchange both of specimens and
records - but I am afraid that I cannot remove this season.
It is very difficult to dispose of property in the country.
Perhaps, however - a purchaser may come along before summer -
Give my love to Jane - & Mr. Torrey's of Herkuty also

Yours cordially

John Torrey

collections.

However, I always share with you, except where there are but two specimens of ^{such as} ~~such as~~ I think Hooker ought to have one.

Let me have a proof of *Ficumbia* soon. as I wish the plate altered a little.

That money for Sprengel I will forward to you or to him, before long. It shall not be forgotten.

I wish that I had shown you a very fine specimen of your *Lespingia nana* (described from exs. *Exs.* in pl. *Harkness*) - sent to me by a friend in California. I shall have a drawing made from it.

Did I not send you descriptions of some N. Mex. *Eriopogon*? I thought that I had done so. They were intended for the part of *Fendler* - but if you have them, they can go in pl. *Siidh*. There was a n. sp. from Gregg = *E. ciliolatus*. It is 82 of Engl. list. His *E. abotrupus* is different. I sent also some notes on *Nyctag.* - which you must look up.

How many extra copies of *Smithsonian Mem.* does Henry give to authors? I want to get all he will allow.

- & if he is stingy - I shall pay for some myself.

Yours affectionately
J. M. Torrey

Proctor, April 20th 1850

My dear friend -

I hope you reached Boston safely - last night - & that by this time you have recovered from your fatigue.

I have concluded to describe three *Clo-*
-mella - as I had worked them out before Englemann's paper reached me - & he evidently knew not the *C. mexicana* before I sent him a fragment of *Hall's* spec. of *Fold* - since then it was the original species. Besides - he draws up his diagnosis from that fragment, & quotes it in his text.

On turning over those Greggan plants again, I found the real *Vauquelinia* - quite distinct from the plant you pointed out to me. It agrees well with Kunth's desc. It is numbered 599 - & Englemann (who don't name it) says it is = 104 - which is not in my set. It was also in

The former collection of Gregg - & you probably
have it. It looks like a poor *Crataegus*
- & has small coriaceous sharply toothed oval
leaves. There is no fruit. The other
plant, which you thought might be *Vauqueria*
linea - is, as I suspected - *Lindleya*! So that
we have both genera. You were right
in supposing I had the fruit - for I found
it among my *Rosaceae*

Your *Bauhinia* (pl. Lindl.) is just
what was returned to me by Bentham
as a "decidedly new sp. of *Capsia* - allied
to *C. baubiniifolia*". So look at it again.
Last summer I satisfied myself that
it was a *Capsia*. Dr. Edwards collected
it - & so did Gregg (I think) -

Do you remember that funny Chenopod - among Gregg's - called by Engelm.
namely *Chenopodium duntiflorum*?

It is a n. sp. of *Teloxys* - newsw. *aristata*
- but differing in the remarkably glandular flowers
& strongly carinate. or rather ^{carinate-comate} ~~subulate-subcapitate~~ sepals.
I have called it *T. glandulosa* in my herb. ^{I suppose}
for it must be what Moquin took for *T. aristata* ^{of several}
from Mexico. Did you look at the *Chenop. arista*
Linn. p. *Sp. pl.* 22. 2. ^(C. Virginicum ed.!) in *Herb. Linn.*? It must
be quite distinct from the Siberian plant by
the description. The *Mutellia* plant noticed
by Moq. is probably something very different

The plants which you brought from Fieschi
~~were~~ were, I suppose, those which he
had proposed sending me by Madge - & which
he said were ready for me - but when I came
to examine one of the parcels - (a small one
with the specimens in clean letter paper) I thought
they were for you - at any rate the small
parcel was: so I have laid it aside, without
taking any thing from it. If the other were
yours - you should have said so - & they shall
yet be forwarded, if you wish. Perhaps he had
other in view when he wrote about sending me his

New York, April 27th 1850.

Mrs. Tarrey received your letter this morning. It came last night - but Pat was so late in his coming - that she had retired. I am greatly obliged to you for the trouble you have taken for me respecting those botanical illustrations. It was, indeed, most kind - & I trust they will be turned to good account - as well as safely returned. Thank God for me - but I shall write to him myself. I came down this morning to make arrangements for the Lectures - as "it is getting late in the season". The box of specimens can be sent by Express to N. York - by Crosby St.

How sorry I am that I did not get down in time to see Harvey off! I fully expect to be with him before he left the country. He is a capital fellow, & imparts an acquaintance

I had a visit from Mr. Wood (the
author of Bot. Cliff Book) two days ago.
He seems to be a modest worthy man.
I was pleased with him. He is, however,
not a practical botanist - nor is he
much acquainted with structural botany
beyond what is contained in the ordinary
text book. He has ~~written~~ ^{written} a very
fine little ^{book} work for quite young persons
- I greatly wish me to speak favorably
of it. I don't know how to refuse the
man - if yet I have a great repugnance
to do any thing of the kind.

I am here at the Mercantile Library &
have just asked Harkness about the books
for Wright. He says that they come (with
the subscript. in advance to Scientific Amer-
ican) is about \$4. - which I shall pay
for you - as an offer to Plukenet if just handed
to me by Harkness - but not opened)

H. says you did not leave him Wright's
address. - Please send it.

With the box - send my acknowledgements if you
have them. I think you must also have
my Plantagines & Obacae - as they
are within my terms.

Did you return the Compositae of Plukenet?
He wishes their names.

Give me your views about a course
of 10 pop. lect. on Botany.

Can you send me sheets of your new
Bot. Text Book -

Much love to Jane - Your ever
J. Torrey

P.S. I have gone over the pictures carefully since I wrote the written - I find that they constitute two series - one numbered in black, the other in red. Of the former there are six Nos 9, 19, 21, 22 & 46. The red series is complete. Have any been left in Boston?

~~My dear friend~~

~~Yesterday I have been to the~~

~~to~~

New York, May 10th 1850.

My dear friend -

I came here to-day & found the box at the college - contents in good order. You have indeed been very kind to procure of me such drawings for me - and that too when you were overwhelmed with care.

These pictures are capital - just the style for illustration. All the work upon them tells - of there is not a useless stroke of the pencil. I was however, a little disappointed not to find any drawings of the testes; none of roots of stamens - no bulb of Only one figure of anat. of leaf. No stamens. I suppose you have no separate picture - but a selection to illustrate the subject may be made from the various parts of the plates. The only

I hope these Linnaei are the missing
ones of 1849. (4 & 5) - wh. I never received.

You doubtless saw by the papers that
poor Gregg perished in California. Poor fellow
- he has done much for our Botany.

A box that I have long been expecting
from ^{Parry} ~~Gregg~~ has not yet arrived - altho'
Lt. Whipple (Emory's astronomer) has
been back a month or two. It can
be seen that I have long been expecting
- tained sets of all Parry's collections to
March last. It was put into Whipple's
hands, with orders to deliver it to me
Capt. Abert knows nothing about it - but has
forwarded a letter from me to Whipple.

A ~~Mr.~~ (a.D.) Hugh M. Reister has
sent me old pods of *Erythronium herbaceum*
They have a regular debescence at the vertex
and some of finally also (but not completely) at
the dorsal - - I shall write
again soon - Yours in haste

J. Torrey

New York - May 24, 1850

My dear friend -

You doubtless think me
negligent in not informing you as to
the success of the Bot. lects. - but
when I have not been hard at work
preparing for them, I have been
too sick to write. Ever since Monday
night I have ^{had} such headache of small
or left withache - all from indigestion
- when eating - Now I am pretty well
again.

owing to bad management in advanc-
-ing of in sending out notices -
as well as in having (to please a few
personal friends) chosen the bad time
of 11 AM. for my lect. I have but
a small class - It was impossible

to get an afternoon audience among
the "upper crust" - & the evenings
seemed to be appropriated. However
as it was for the proceed, that
I gave the course of (though there will
not much more than ^{only} pay expenses) -
yet as I have happily just earned
\$250 by some valuable researches for
a Californian Gold Company - I
am as well off as if the lectures suc-
ceeded. I am, indeed, a little
mortified that my class is so small -
- but they take an interest in the
subject & seem well pleased. It
annoys me to see articles about the lectures
in the newspapers - I never wish to
see my name in one of those disgusting
concerns again - even though I am
named in them -

I hope the Text Book will be out
before the lectures are ended - some
copies will sell here

That copy of Spafix's Lake Sup. book
came all right - It was taken a Carey
- who saw that the direction was wrong.

I am not sorry that your sailing is
deferred till the 10th prox. as I have
a parcel for Hooker - not finished - wh.

I wish you would place in his hands
These books were sent to you by mistake
Mrs. Henry thought you left them at
Washington. They are margarets

Endicott will, of course, pay for the
Stone on which the Inscription is engraved. I
don't know when the original is. Perhaps
I may find it - but I have an impression
that it was sent back to be touched up by
Sprague. Prebble informed Endicott
lately that he had ~~not~~ received my six
drawings -

Pomfret, June 18th 1850

My dear friend -

I think of you & yours often every day - I try to imagine where you are, & what you are doing at sea - Sometimes I fear that Jane is suffering from sea-sickness - if that she will almost regret having undertaken the voyage - but she will soon forget all when once on terra firma -

I suppose you must by this time (just one week out) at least a third of the way over - so that my letter will reach England by steamer about the time you do. I have written to Sir William to-day - & take it for granted you will proceed at once to New.

A letter from Bentham came in yesterday - he was to be absent from home about two months from the date of his letter. It will, I suppose, be about the second week in August before you go to

The commencement will take place next week. I then we shall have a quiet time - for the students of the Seminary, as well as of the College will be away for at least six weeks -

Don't forget to keep a look out for some good broken botanical periodicals - if you I trust you have the list. Let me know whether I can send you any plants for your friends - or any specimens for comparison for my herbarium - I will forward them promptly to Sir William's care

Mrs. Torrey of Madge send their love to you & to Jane - Elizabeth of our Jane's would send not be omitted were they here. One or both of them will write when I send my next letter -

Bailey has arrived, & is looking much better than I expected to see him. He sends kind regards to you -

Give my loves to Jane, & believe me,
Yours,

John Torrey

See him. Perhaps he will be able to
look over many of your plants while he
is in London. This will save you the trouble
& expense of transporting so many large boxes
to Wales.

I ought, in my last, to have acknowledged
the receipt of your parcel - sent by express.
The contents were all in good order. I
was glad to find among them one or two
of my portfolios that I could not account for.
The plants of Wright are fine. He has
greatly improved in the quality of his
specimens. Dr. Engemann has sent me
another set of notes on Cleomella, which
might have taken the place of mine
had you not already decided to print what
I had furnished. He is very keen
of a capital disseminator of differences,
- though he is apt to make too many
species. Did I tell you that in
my desc. of Cleomella, in Rocky Mts. Pt.

style - has been printed by mistake for style.
- a typographical error, which I never observed
till lately - & which has caused D. S. to intro-
-duce - n. sp. unnecessarily -

I received a note from Bailey last evening
He was at Philadelphia - & is to be
here this morning - to stay several days
- I mean the Steam Whistle - & shall
soon have him by my side. Then we
will talk about you - He is rather
better, but has had another turn of hemor-
rhage. Poor fellow! I fear he never will
be sound again.

We are enjoying ourselves this delightful
season, at Princeton. The weather has been
all that one could have wished for this
last fortnight. Edin is in New York for
a few days - & Jane has been visiting Mrs.
Bailey, but will be here this week.
Herbert, who is playing about the room, by
says I must send you his love. He hopes
you will not forget to bring him some curiosity
for the half dollar which he is setting down for you!

been very poorly for several weeks past - having had
a miscarriage at Mt. Savage while on a visit there with
her husband. I am afraid she will be feeble
a long time.

Aug. 30. This has been a gloomy day in Boston.
Bro. Webster probably suffered this morning. He
seems to have had (from the statements which have
appeared from time to time) no correct views of
the crime which he committed, nor of the way to obtain
pardon of his Maker. I hope the truth was presented
by him as his probation was ended.

Agassiz has got himself into an unpleasant
controversy with the religious part of the community
in consequence of some views which he has promul-
gated as to the origin of man. He has shown more
temper of late than was becoming in defending his views.
I am sorry that he should lose any of his well-earned
fame by entering into a controversy where he can
gain no benefit.

I have filled my letter with all kinds of gossip -
more, I fear than you will have time to read - but you
may find some of it interesting. The rest can be
hurried over - Let me know all about your doings.
The girls, as well as Mrs. Torrey & Herbert send much love
to Jane & you - Even your affectionate friend

John Torrey

Princeton, August 27th 1850.

My dear friend -

By this time you must have nearly
finished your rambles on the Continent,
& ~~by the time~~ ^{when} this reaches you it is prob-
able you will be hard at work with Mr. Bee-
cher in Wales. I thought it was hardly
worth while to send you any letters while
you were on the wing, as there would not be
much chance of their hitting you. Yours
to me written at Ghent came safely - & I was
very glad to hear of your safety & good
health thus far - Especially was I glad to
hear such good news of Jane. We may
now hope that she will come home quite re-
stored. Don't fail in all your letters to
let me know the state of her health. I com-
municated her ~~letter~~ message to Eliza, who
will write to her very soon.

Many events have occurred since you
left home - some of which are important.
All the public men you know, of course
through the newspapers. What a sad
event was the death of our President! What
strange doings we have had in Congress!

Dr. Torrey (Aug. 27th 1850)

I doubt not your friends on this side have sent you many letters - so that you know every thing of a domestic kind that has occurred.

I have spent most of the time since we parted, here at Princeton. Once I went to

Worcester with a party of Chemists, to examine the famous illuminating gas of ~~the~~ ^{the} Painter & we completely exposed the humbug - Last week

I was at New Haven attending the Med. Soc. - which was said to be the best yet. A great number of Scientifics were present. & the

papers read were of, for the most part, of a highly respectable order. You will see the proceedings in due time. I wish you could have attended the British

Association - but perhaps you returned from the Continent in time for the voyage -

You will see all my *Enogoneae* in Bentham's hands - together with many belonging to Exfl. Exp. He has undertaken to work up this tribe for Meisner ^{to} whom the *Plygonaceae* have been committed. I hope Mr. B. will get the loan of Gambel's Enog. from Nuttall. Poor Gambel!

News has lately been received of his death in the lumber of California.

How I should like to spend a few months with you at Bentham's in studying *N. American* plants! It would not take more than half a year to settle most of the knotty points in our Botany with all the advantages we could command there. I was lately

studying the *Quercia California* of Benth. Pl. Karst. no. 327. He probably was not aware, when he

described that plant, that it was the *Willkissia* similar of Hook. (Fl. Bor. Am. 2. p. 70. t. 157. f. B.)

My specimens from Fremont are so decayed that I cannot determine the characters of the ovary. Hooker

has represented the placental as parietal, & so they seemed to be in the only form of flower that

I could sacrifice. I suppose Mr. B. has specimens of the Fl. Bor. Am. plants distributed by Hooker.

Ask him if he please compare a *Vil.* similar & *Burisia Calif.* I have not an original specimen

of Hooker's plant

I saw Carey when I was in the city last week. He probably writes to you, & I would tell you all about him. He is low-spirited again & is not quite so

well as he was last season. I am quite encouraged that we would enjoy himself & be in very tolerable

health if he did not take a sort of pleasure in mortifying his naturally sociable feelings. He keeps aloof even

from his daughter-in-law. Just now however, he has been prevailed on to go with her & John to Newport. Mrs. C. has

He is not a botanist. He & Thurber came here to see me. Neither of them, I believe has the official title of botanist - The former is Surgeon - & the latter a "Computer" - but both are expected to do duty as botanists. The Commissioner has left it to themselves to settle the question of Botanical rank - but Bigelow in his letter, writes to Thurber as his assistant. He says he will not play second fiddle to such a poor stick. The Commissioner will certainly have a full staff of Botanists, when all these are on the ground. By the way poor Emory & Parry ^{were} still at San Diego on the 20th of June last, unable to leave for want of funds. Baché told me the other day of a shameful business in the part of the late Sect. of the Interior. He took the funds which had been appropriated for Emory & used them in the outfit of Mr. Bartlett! He gave, however, permission to E. to draw on the Dept. if he could get the draft cashed in San Diego or San Francisco - This he may be able to do. You know that I was expecting a box from Parry when you left. It contained all his collections & was placed in the hands of Lieut. Whipple who was sent home with the Astronomical Instruments. The box he was to place in my hands - but he was in the U. States more than two months & I could get out of him no information about it. He would not reply to

my letters & verbal messages - which I have received since - & now it turns out that he lost the box on the Arkthure! He has gone again - & is now with Mr. Bartlett's party. It is well he slipped off to some, for I received from Emory a peremptory order for him to ~~send~~ ^{send} immediately to the Arkthure & look up the box! It is, I fear, lost forever - & Parry (who learned its fate from an officer) is almost heart broken about it.

Some weeks ago I received a letter from Wright, dated Port Lavaca - from whence he had dispatched two boxes to me "one containing Cactaceae & Echinocactus, ~~carpitous~~, ~~manispermia sulcata~~ & Echinocactus solidus. He says "they will doubtless be worth the freight, & if any thing more credit can be given them for them" ^{The other} ~~box~~ ^{boxes} contains a few plants of this season - such as he could procure in books. Also his winter coll. of Crypts. done up in separate parcels. Musc. & Hepat. for Silliman, Lieber for Tuckerman, & Fungi for Curtis. He says I must consult you as to the disposal of them. The whole would have been sent to you were he not pretty sure they would arrive after you had sailed - The 2^d box contains also some Phanog. plants which he says were collected in intervals of other employment. There he desires me to retain for him to make exchange with when he comes next. There are a few shells & a fossil or two for Leffler. He was preparing for his journey westward, but had yet received no means for carrying his plans into effect. He hoped, however, on his return to San Marco, to find there a remittance. He had only just received his paper, the want of which had indeed

him to abandon the idea of going westward the present season. He rec^d a letter from you, and pursued me, & King, another attempt to secure transportation to El Paso. He faces great difficulties, but will try and overcome them. - Thus you have the substance of his letter.

Dr. Short was here about a month ago. He came this way to take possession of a large property (about half a million) left him by a brother who died lately in Philadelphia. We planned an excursion to the mines, & another to Darlington - but just as we were about starting the D^r heard of the death of a favorite grandchild in Kentucky - & ~~immediately~~ immediately returned home. He told me that he would be glad to contribute to any botanical expedition that I would recommend to him - but he left so abruptly that I had no opportunity to say anything particular on the subject. Since his return, however, I have asked him to help Wright a little. I have no doubt he will subscribe handsomely. - Frazer told me at the New Haven meeting that Short had offered to defray the expense of a botanical exploration to the interior of ~~the~~ Africa - & would go as far as \$10,000 for this object!

Drayton, when here the other day, left in my charge for you a parcel endorsed as follows - "60 plates, or pieces of paper, on which are original drawings (colored) of plants, belonging to the U.S. Ex. Dep. To be returned to the Government." Shall I send this parcel to you?

I have overhauled a large portion of Brackenridge's Fern Book - but have had some trouble from Milker's interference. He wishes me to follow strictly the model of Dana - which I will not. Of course it will be done as I wish - which is nearly the plan that we agreed upon. Several sheets have been set up - but I see that Congress has refused to pass the bill appropriating \$25,000 for the publication of the Expl. Exped. works!

Mr. Bartlett, (after the form of Bartlett of Belfast, N.Y.) has been appointed the new Boundary Commissioner & has already started for El Paso. Bailey informed me, six weeks ago, that he had recommended Thimber of Providence as Botanist to the Survey - (not knowing any thing about Parry) Accordingly I wrote at once to Bartlett, informing him about Parry's position, & urging his claims to the situation - he replied that the appointments had already been made - (at the recommendation of the Secy. of the Interior) - but that he would retain Parry if he visited, as it was his intention to have a full scientific corps. This I communicated to Parry by the next steamer. Afterwards I found that a Dr. Bigelow of Ohio, had ^{also} been appointed ~~the~~ Surgeon & Botanist to ~~the~~ the Survey! Bigelow was strongly recommended by Sullivan, but I think

New York, Jan. 8th 1857.

My dear friend

Your letter of Dec^r. 19th reached me yesterday, and the envelope for Carey was detained to him last evening. I do with shame own how negligent I have been in allowing so long a time to pass without writing to you - and yet you are in my thoughts every day! Since you returned from the continent, I have been much engaged in the duties of the laboratory - but that was not a sufficient reason for not writing to you at least a short letter.

I was shocked to think of your painful and dangerous accident - & most thankful for your providential deliverance. It was a wonderful escape - & I know too well you believe in a particular Providence, to attribute this result to chance. It was God's care of you - & nothing else.

I have two letters from dear Jane, that I will endeavor to answer very soon. She

Some time ago I send Wright \$100, which I got from Dr. Shot - who asked me what he and Dr. A. Am. Anthony's

was very kind to spare me so much time when
her calls in other directions were so pressing -

I have followed you in my mind ^{with} my
prayer since you left home, & have often
imagined how you were employed. I know how
you & good Bentham sat & worked side by side
for weeks together - & how much precious infor-
mation he afforded you. What a pleasure
to work by the side of such a man! Those
Sandwich I. plants you can get along with at Kew -
They constitute the most interesting part of the Col-
lection, & are in the best state for examination
How I should like to have been with you at Harvey!
He is a very lovable man - especially when you
are alone with him. I have a great pile
of plants nearly ready for time - Part of it I
ought have sent last summer - but I wished
to dispatch the whole at once - with Carey's aid
in labelling I hope to finish them shortly.

Those Copies of the *Flora Hibernica* sent by Mackay
were placed in Carvill's hands, to be disposed of for
the author. A year afterwards not one was sold.
- & then the Carvill's smashed - so that I fear
the books were lost in the general wreck. Mackay

sent me one copy for myself - & wished the
others placed in some bookstore for sale. . .
Before I received Jane's second letter (written at
Parkiers House) the preparations of the *Hibernica*
plants were all boxed up & sent to Washington
- so that I could not send Mr Bentham a set of
them - There three sheets were nearly all disposed
of - & I was unwilling to send the original ^{Draw-}
ings, as they belong to the Smithsonian. If, however,
I can get ~~to~~ a set of the plates they shall go shortly
under cover to Hooker -

The printing of Prochazkides book commenced last
September - & after two proofs were sent to me
I received no more. Drayton had been to see me -
& we had carried on some correspondence res-
pecting the typography of the work - After much
work on his part (which, of course, was only the
echo of Wilkes's talk), I supposed that the plan
which we had both (you & I) agreed to, was accepted
by "the Committee" - & I waited patiently for more
proofs. I also had a personal discussion with
Wilkes, & I supposed that he also ^{had} yielded a
reluctant consent to our plan. Lately, however,
I received a letter from him - in true quarrel
- deck style - informing me that the ^{plan} ~~style~~ of Dana's

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volume is to be strictly adhered to in every particular
- of that there must be a transition of the Latin
specific character. - I had already worked for
several weeks on Brachynodes Nat - correcting the
language - adding many references, &c - of making
the work conform to our plan. Now, Wikes' says he
don't thank me for this - that B. is competent to
do his own work - of that all I had to do, was to attend
to the specific character. B. himself was very
grateful for my services. I told W. that I
could do nothing further in the matter. - of that
I would thank him also, to turn over the Oregon
& Californian Plants to you. This he will not do.

Now I write you to say in your next, whether you
mean to submit to these changes. I have written
to Agassiz on the subject - of hope he will soon
inform me whether he will follow Davis' plan -
or have one of his own.

Emory has returned, - leaving Parry in California. He
brought with him a fine set of plants - but - a large box
containing the whole of Parry's 1st season's collection, was lost on
the return by the carelessness of an officer who had it in charge.
Parry expects to leave for home, some time this month. - I have
a box of Salt Lake plants on the way from Washington. You
& Brewster shall have the dupl? - as well as those in Parry's
collection - I must break off - as the steamer
will sail in two hours - Give much love to Jane - who,
I hope has recovered from her fatigue & anxiety of nursing you
ever yours J. Torrey

New York, Feb. 20th 1851

My dear friend -

I was ~~right~~ glad to let you see - & to have it so fresh. It came too days ago - little more than a fortnight after it was written!

You have said what I expected from you, respecting the publication of the Engl. Exped. & I shall have occasion to use your letter - for those obstinate & ignorant men persist in having things their own way. Poor Brackenridge is not able to fight it out with them, & as they are determined to print his book, & will retain the English translations of the specific characters. I shall send your letter to B. to use it if necessary in justifying himself & me. Agassiz has written me rather a noncommittal letter - but agreeing that I am right.

Nothing more has been done in the actual printing of the Fern Book - & I am waiting patiently to know whether the Committee will take it entirely

out of my hands a note. If they persist in doing what we did oppose of, it will be necessary to put in a disclaimer of ~~my~~ having had any share in the plan of the work.

The Salt Lake plants, to which I alluded in my last letter, have come to hand - but the number of them is smaller than I anticipated. There are some good things among them. Perhaps I will send you the doubtful Compositae of the collection - Parry has not yet returned - but is expected daily. He will join Emory, who is to have the Survey of the Boundary between Texas & New Mexico.

Wright sends me letters pretty often. He has at last received some money which you left for him. Owing to some mismanagement Mr. Bartlett did not take it with him, as, I believe, you intended he should. Wright is in pretty good spirits - but fears he will not get U.S. transportation for his baggage, as the Government was about contracting for carrying the army stores, when he wrote.

Feb 24th

We are joggling on after the old fashion, at Princeton - where I am at present. The girls are all at home - if we have passed a happy winter thus far. I have come home every Saturday morning & returned on Tuesday in time for my lectures. The course will soon be over - of them I hope (D. W.) to have a comfortable time over the Botany. We are all as well as usual & send you & Jane much love. All of us rejoice over your late escape, & subsequent recovery. Eliza, who is just now at my side, says, "give Mrs. Gray my special love of warm remembrance". This, she says, is because she knows her much better than the rest of us do!

I see the Carey's now & then - Sam. not so often as the old ones. John is sad & apparently unhappy - so that I find it difficult to cheer him up. Indeed he refuses to take the proper means for making himself happy. He seldom visits his brother - & only visits his son John occasionally. Don't let him know that I told you - but I think he will leave the country ere long.

Holton has at last got a pretty comfortable situation - in a High School at Freehold. He will teach Botany, among other things. Worth all the perquisites, the place is worth \$900.

Dr. Torrey.

New York - Feb. 20. '57

I learn from Mr. Sprague that you expect to return next July. By this time you must have determined the greater part of the Edfl. Exped. plants - at least so far as to name the Genera. A vast deal of labor has been saved by your visit to Europe - to say nothing of its advantages to you in other respects. It must be a great satisfaction to you, once more to be working so near our warm & faithful friend Sir Williams. Had I not been so hard pressed for the last fortnight, with some extra of severe duties, I would have written to him by this opportunity - but I shall, if possible, send him a parcel by the next packet, - & also a few Eriogonaeae &c. for Bentham.

It was only by exploring the drawers of desks of Eudicote that I could get an incomplete set of those Fremontian plates. I hope they will be in time for Mr. Bentham.

Feb. 25. Here in New York once more. I found a kind letter from Booth - affectionate as usual - & tenderly alluding to you. If I have had returned give him my warm love. Remember me also affectionately to Sir Williams & Lady Hooker. I long to see them once more. Yours ever

John Torrey

if possible forwarded by the steamer
of next week. There will be some
Engagee of ^{in it} - for Bentham.

Our friend Carey continues extremely dull
& seems determined not to stay in New
York. Sam. is quite comfortable &
has passed the winter in better health
than he has enjoyed for many years.

Give my love to Jane, & remember me
affectionately to Sir William & Lady Hooker.
Give my very kind regards also to Miss Hooker
if she has not ~~gone~~ ^{seen} me. I suppose
the Doctor will soon be home - & then
there will be a happy meeting!

Ever yours
J. Torrey

Pompton, March 12 1857

My dear friend.

You will find enclosed a very char-
acteristic letter from Wilkes - to which I
shall send no definite reply until I
hear from you - I found that it was
necessary to forward your ^{last} letter to Wash-
ington, that both he & "the Committee"
(the Captains & other self) might know
your sentiments. His talk might do
for Middletown - but I am greatly misin-
formed if you submit to such quarter deck
insults. I am ready to throw up the
job - I don't wish you could do so like-
wise. We should be solicited to take it
again by those who are competent judges
of such matters. I hope we can
induce Agassiz to stand by us - but he is
not very reliable, I fear. His reply to me
was very equivocal.

The copy of Wilkes' letter which I send is
a literal one - punctuation & all.

Dr. Torrey

March 14, 57

March 14, 57

I finished up my business at the Medical College last week - I am already head at work on Botany. It is very refreshing to be among the dear plants once more, after toiling for five months in the Laboratory & Lecture Room.

We are all at home, - and, with the exception of Mrs. Torrey, - who is quite feeble - though moving about the house - we are as well as usual. The winter was an extremely mild one - but the spring is cold & stormy. Just now there is a storm of sleet - & it looks repulsive out of doors. I hope that you are enjoying yourself with dear Sir William. Jane was expected back from France about the time you wrote her. Take good care of her, so that she will come home completely recovered in health. I am quite impatient to see you both. It will not be long after your return before I make a visit to Boston. You gave me no information as to the

probable time you would remain abroad. - If the gallant Captain stops your rations, you may come back in quick time!

I have no botanical news of interest to communicate. Worsley is probably off on his journey up the Del Norte by this time. We have letters from Thurston every week or two, in the Providence News paper. It is rather too early to receive plants from him yet. Dr. Parry is not here - & I begin to fear he will not come. Emory wishes him to act as botanist to a surveying party (of which he is to take charge) for marking the boundary between Texas & New Mexico. Curtis sent me a nice parcel lately - from which I shall pick out a few specimens for Sir William. My time in New York was so much occupied that I could not complete the little collection I was making esp. for him. I will,

as well as of many in Europe, as will
compel the "Committee" to yield the
point for which we contend.

Pray excuse these long business details -
yet they may be of considerable impor-
tance - & may affect the movements of
the Doctor. I should be glad to
know as to the time you expect to return,
that I may arrange my business here so
as to make you a flying visit.

With love to the dear Doctor, in which Mrs.
Torrey & the girls join me.

I am very cordially yours,

John Torrey

Dear Doctor - I have just written to Beutham about
the parcel sent to Hobbs & Co. You had better look over
all the plants - as many of them are interesting. Where did
you publish Geysia Enoploea? Among the Koos-
kooky plants of the Dept. Exped. were specimens of a Cicoroid
plant (it is not among the Spreading plants) - which again
turns up in Capt. Fransburg's Salt Lake Collection.

I cannot distinguish it from Cicor arictineum - except
that the nearly ripe seeds are not as they are described in
that plant. Surely it must be indigenous; & it has
strange that a Cicor should be found in N. America!

Yours ever,
J. Torrey.

Princeton, March 28th 1851

Dear Mrs. Gray

I am truly ashamed that
so long a time has elapsed without
you having received an answer to your
kind letters of October last. To be sure
you wrote chiefly in behalf of the dear Doctor,
but I am nevertheless greatly indebted to you
for these favors.

The account of your tour on the Continent
was very interesting - & on your return
I shall hope to hear from you our life,
many details which you could hardly give
in a letter. You must tell me also, all
that you have seen of Iowa in England
& Ireland -

Just now I suppose the Doctor is hard
at work with Sir William - or rather
in Sir William's herbarium & library - for
our good friend is too much occupied with
his own concerns, to render us much as-
sistance.

Mr. Bentham was expected about this
time in London - & I trust that he
will soon receive a parcel of plants which
I sent him, enclosed in one to Sir W. Hooker
Tell the Doctor that I wish he would make
notes on the Conpositae in Bentham's parcel
Inform him also, that I have just dispatched
two large bundles of plants to Harvey by
his Cousin Mr. Harvey of New York.

By the last steamer I sent the Doctor
a copy of a letter which I had just
received from Capt. Wilkes. The Captain
made me a visit to-day - & we had
a long talk about the Botanical publica-
tions of the Expl. Exped. The Doctor's
letter to me (which I sent to him to read)
made him wince! The Library Com-
mittee of Congress are determined that
we shall translate the ^{Latin} specific charac-
-ters. When I undertook my part
of the work I had ^{given to me} some sheets of Mr. Dana's
Volume (on Zoophytes) ~~part~~ of some of

^{the latter}
Dr. Gould's (on Lichology) - these, & still, in press -
as models for me to follow. In my
letters & conversations, I had repeatedly in-
formed Capt. W. that the plan adopted by
Dr. Gray & myself for the Botanical volumes
would not differ more from Dana's & Gould's
than they differ from each other. To-day
the Capt. was taken all aback by my
showing him a sheet of Dr. Gould's volume
(printed as far as the 114th page) in which
the Latin specific character was not trans-
lated - & was followed (as in the plan of
Dr. G. & myself) by a detailed English des-
-cription! He said that he had never seen
a proof of Dr. Gould's volume - & he doubted
if the Committee would pay the bill for
the printing! Capt. W. & I parted
without coming to any agreement - but I
told him plainly that it was very evident
that the Committee were wholly incompetent
to superintend the publication of scientific
works. Now, every thing depends upon
the stand that Dr. Gray will take. If he
holds out we can get up such a represen-
tation, by the real naturalists of this country,

as dull as I have ever known him. An excellent cousin of his - an agreeable maiden lady... who came out last autumn, is now on a visit at our house - He says that Mr. C. had allowed his little property to run down so low, that a crisis was near at hand in his affairs. It was quite necessary, when he removed to his Mr. Johns' to do something. It is a great pity that he could not obtain some quiet easy situation that would afford him about \$1000 a year. He absolutely refuses to make a second visit to Princeton - but cannot give you the reason that he urged before viz. that the contrast in returning to his solitary lodgings wd be more than he could bear - for now he has a real home - & looks his son & his daughter-in-law, treat him with the greatest kindness & respect.

I recd a letter from Bentham by the last steamer. He says that D.C. will not want the Orig. till next year! so that the MS will remain in his own hands till called for. This will allow him time to insert all the new things that I sent him.

May 24th. I began this letter, as you see, some time ago - & brought it with me to N.Y. This is packet day - nothing very new, & all are as well as usual. The packet for Bentham (Erving) has not been received - must come in some

Yours affectionately
R. Torrey

Princeton, May 13th 1851

My dear friend

Your letter of April 3rd & 16th came in good time. I promptly forwarded the ~~original~~ letter to Englemann -

I agree with you that Wilkes's epistle to me was insistent. I rejoice that you have written so strongly to the Chairman of the Library Committee. What steps will be taken by Mr. Washington's gentleman I know not - but I think we shall gain our point. Wilkes says he had no idea that D-fould had diverted from the pattern of Dana - I seemed surprised when I showed him some of the proof sheets of "Conchology" - It was until some after he left Princeton, however, that I recalled a remark of his, when I showed that he had seen some recent proof-sheets of Gould's book - for he announced strongly on G. quoting his own descriptions from the Parkinsonian. I said that G. had no right

to do so - thus making the U-States pay for
unnecessary printing. He said that G. should
have stated but once - for all - that he
had already described the new species elsewhere.
Wilkes said that if they succeeded - in printing
a more extensive ed. of the *Exp. Exped. U.S.*
- these quotations should be stricken out!

I broke out into expressions of strong indignation
at such unpertinent interference -
I said that the whole scientific commu-
nity would resist such unparalleled con-
duct. I shall write immediately
to find out whether he has had any
trouble with Wilkes.

A fortnight ago I was in Washington,
but I did not call on Wilkes. You may
be sure that Brackenridge is true - but
he cannot yet cut himself loose from the
clique at Washington. I saw Emory,
& Parry - also Capt Stansbury of the Salt
Lake Expedition - Mr. Peck. &c.

Maj. Emory will allow \$400 for drawings.
As Mr. Sprague told me he could not do any

of them, I have written to DeCassine to have
them executed for me in Paris - under his
superintendence. He will probably talk
to you on the subject - for my letter will
reach him while you are in Paris.

Parry will be here in a day or two, & remain
for some weeks, preparing his Report.

Don't forget my imperfect journals - Pick up
what you can for me before you return - or
at least make a note of the places where they
can be got - if then I can easily obtain
them through Putnam - My copy of the
parcel of *Proformia* sent to Putnam, has not
yet been received.

When I was in New York three or four days
ago I called at the residence of J. Carey Jr. - whom
for the first time, I saw Mrs C. She is a gentle,
amiable person - homely - but of pleasing coun-
tenance. Her husband did not make his appear-
ance as he was desiring to drive out. Our old
friend has made up his mind, at last, to re-
side with his son, who is to fit up nice
cases for his plants &c. He had been quite
ill, & was in very low spirits. Indeed he is quite

New York, June 29th 1851.

My dear friend

It is long since I have received a letter from you - but I shall expect one as soon as you have time to write, after you leave Paris. A letter just come to hand from Boott, informs me that you were expected home immediately - & another friend having give me the same information. You will find two of my letters waiting for you in the care of Mr William. I hope you had a comfortable time in Paris. You must have been there when DeCaisne received some plants that I sent to be drawn under his direction. They are for Emory's Report - & I was obliged to send them abroad because Sprague had no time to do them.

I have just heard from Wright. He was about 4 days journey beyond San Antonio, & was on his way to El Paso. He had collected more than 150 species of plants - mostly such as he had obtained before, - but

some of them were new. It appears to me that we
can expect to find but few novelties in the Valley
of the Del Norte. after all that has been done ^{there} already.
Besides, he will be on the field of Humboldt & Bigelow
- who will have the whole season in which to work.

It is a pity it was not safe for him to go into
the Sierra Madre - where many choice plants must grow.
There is another region, too, that ought to be revisited -
the mountain ranges that Fremont passed along, when
he returned from California in 1844 - Also the sources
of the Sacramento away to the north - near Mr. Shelton
Ferry will probably go out with Prof. Emory - if the
latter should accept the survey of the Texas & N. Mexico
line - & in that case there would be some fine
discoveries made. He left me a fortnight ago - after
having gone over all his plants & supplied me with
notes upon them.

Quite to my surprise I learned yesterday that Sullivan
lost his wife a year ago by cholera. He was in
town, at the Allen house - but when I called there
this morning he had gone. I was told that he
meant to stay in the North for several weeks. He is

quite melancholy - & has not looked into his study
since his wife died. This accounts for his not
having replied to my last three letters - two of
which accompanied parcels of Insects & Reptiles.

I have sold my house in Princeton - & shall remove
to the City (D.C.) the first of November next. Greatly
do I regret, on many accounts, giving up my place
there - but it seemed desirable that I should live
near my principal business. It is only once in
several years that a good opportunity ^{occurs} for selling pro-
perty in the Country - & especially in Princeton.

I shall get for the house & about half of the land,
a thousand dollars more than the whole cost me.
To be sure I shall not be paid until three years -
but the security is of the best kind. The remaining
land will sell in small lots, at a good price -
but not very fast. If we get settled here it
will be an easy matter for us to meet every two
or three months - & also, at small expense, & without
delay, to exchange books & specimens -

Dr. J.

Providence, July 14. ^{New York, June 29. '57} I brought my letter home with me that I might give the latest intelligence, as the steamer does not sail till tomorrow.

Sullivan had gone when I called on Saturday at the Asher House. They thought that he had returned to the West.

I have heard lately from Emory, who says that Charles Pease (Ch. of the Lib. Com. of Congress) will do what is right in printing the Nat. History of the Expl. Expedn. Henry, whom I saw the other day, says that Mr. P. understands the matter. We may yet succeed in getting the whole business out of Wilkes' hands. I have no room to tell you the whole plan for this purpose. With proper management the publication of the Expl. Expedn. can be done over to the Smithsonian. I went to West Point a few

days ago - learning that Col. Davis of Mich. (a member of the Lib. Committee) had been appointed one of the Board of Examiners. ~~I~~ Hoping to converse with him on our business. Henry told me that Col. D. was certainly to be there - but on arriving at the Point. I was disappointed to learn that he would not come. Has Wilkes stopped your "paper"?

The parcel of Enigonee has not yet arrived. Pray enquire about it, for its loss would be irreparable. Once before, a parcel sent to Bentham was two or three years detained on the way to me. Give my love to Jane, whom I rejoice there is greatly improved in health.

Yours affectionately
John Torrey

Do you know what a copy of Beutham's Bot.
of the Sulphur Coals in London? Major Emory
had authorized me to get the work - & charge
it in making my account of expenses of
preparing Bot. Report.

I have no botanical news of much impor-
tance. Tuckerman has sent me an interesting
letter, giving me an account of his doings in
Europe. He means to devote himself hereafter
entirely to the Lichens - to which he may
possibly add the Pordraceids. He is seeking
things in lichens, & it may be as well for
him to stick to them alone.

Holten seems to be comfortably settled in
Wittich's School at Freehold - & has a good deal
of time for Botany.

Did Hooker get the plants I sent him
(twice I think within three or four months)?
Give my love to Jane, & tell her, that I
hope to see her at her own home in a very
short time after her return - God bless you both

Don't forget to enquire
about the Enig. case -
I don't know what yet arrived

Ever yours
John Torrey

Princeton, July 12th 1857

My dear friend.

I have written two or three times to
you since receiving your last letter,
& have been hoping, as each packet
arrived, to get news from you - You must
have remained on the Continent longer than
you expected; but surely you are back
in London by this time. Tell me all
about your movements - & what you
have been doing with Expedition Plants.
Let me know when you expect to turn
your face towards home.

Did you receive a few plants through
Hooker? There were several composite
that I should like to have your opinion
about. One was a little suffrutescent
plant from Salt Lake that I am inclined
to make a species of *Perilyle*, although it
differs somewhat from the characters of that
genus. The pappus in both ray & disk flowers



counts of a single brittle. I think there was also a new *Chenopodium* - quite distinct from any in the flora - or in P. Feudt. I am more desirous, however, that you should look at the Compositae collected by Parry in California. There are very few duplicates of Parry's Collections. I told you, I believe, that owing to the gross carelessness of Lt. Whipple who ~~took~~ took charge of all the specimens collected the first season - I was directed to place them in my hands - lost them in the Drift. Many of the plants could not be replaced, as they were obtained in an expedition from San Diego to the mouth of the Gila. Still I shall be able to glean some duplicates for you - though I am not aware that there are many novelties in the collection.

I have a German drawing some plants for a little report on Capt. Rumburg's Salt Lake plants. He makes pretty good work. but is not much accustomed to make analyses. Still I shall get a few pretty

fair drawings out of him. Is it not strange that I have not yet got a line from DeCaisne acknowledging the receipt of a draft for about 200 dollars of a parcel of plants which I sent to him through the late French Minister?

Did he tell you any thing about my having written to him?

We begin to count the weeks that we are to remain in Princeton. Our place has been so much improved since you were here, that all of us are quite sorry to leave it. I must, however, be true to my principal business - & so I make the sacrifice from a sense of duty.

Surprised I am to hear of dear Jane's improved health. Booth writes to me that she is quite stout, & can bear a good deal of fatigue. This is a matter for devout thankfulness.

Princeton, Sept. 5th 1851.

My dear friend

I rejoice to believe that you & dear Jane have returned in safety to your pleasant home. The vessel in which you were to have embarked I see arrived in Boston yesterday, & I trust that you are once more in your own home. Long have I been counting the days - & waiting for the time set for your embarkation: and since you sailed you have been very very often in my thoughts. My poor prayers have also ascended for your preservation.

It may be several months before I can make you a visit - but I shall be right glad to see you for a day or two before our Medical College opens. For a time, however, you will be almost overwhelmed with business: but will gradually, I trust,

get relieved, & then quietly pursue your
regular business.

How much I wish you ~~had~~ been at
the Albany meeting! We had a com-
fortable time. Eliza was with me,
& enjoyed herself greatly. She is
delighted with Peace, of whom she
saw a great deal.

I send you two letters which I
lately received from Wright. You
will see that he has been taken
under the wing of Col. Graham. This
will lessen your expenses - & his
plants will still fall into your
hands.

D. Bigelow has sent a box of plants
to the Smithsonian. They must be
very similar to what Wright has
collected. I have not heard of Thurber's
doings, - but no doubt he is hard at
work - & I expect more from him
than from Bigelow.

Tuckerman informs me that he has
been writing a *Flora Bostonica*, which
he intends to print. It is to embrace
a region within 30 miles of the Newbury.

The parcel containing the whole of my
Erigeron (of some belonging to the
Expl. Expedⁿ - as well as Parry's &
Capt. Faulkner's) has not been found.
Harkness examined the Public Store
- but it was not there.

I am afraid that Mr. Bentham did
not pack it well, & address it distinctly.
Some of my Scrophs. that he sent back
were in a miserable plight - the ends
of the bundle open, - & in this State
were pushed away in Wiley & Putnam's
Store for a year.

Harkness, don't remember how he sent
that parcel for Hooker - containing many
plants for Bentham, & some for you to examine
- I will not write more, as you have no time
to read my letters. Give my warm love to Jane -
& my congratulations on her safe return.
Yours faithfully & affectionately
J. Torrey

SUPPER.

Stewed Oysters.

Chicken Salad.

Lobster Salad.

Oysters fried.

Oysters escaloped.

Oysters baked in the shell.

Filet of Beef larded, Mushroom sauce.

Mutton Chops broiled, with Green Peas.

Roast Mallard Duck.

FRUITS.

Jas. Hoag's

Prof. Thumber

Prof. Porter

Denslow

Prof. Eaton

W. Lyon

Dr. Asa Gray

Dr. C. Pickering

Mrs. A. Green

R. Parsons

Thos. P. James

GEARISTIN

W. M. Davis

Dr. J. H. Reynolds

Mr. J. Denslow

Prof. Hayes

STONEY

Prof. Breyer

T. Buchanan

Dr. J. H. Torrey

2

Sept. 20. I have been in New York most of the
time since I commenced this letter. While there
I hoped to see Dr. Chapman - but he did not make
his appearance

What do you think! - Emory has been summoned
at very short notice to succeed Col. Graham on
the Mex. Bound. Survey! I suspected something was
in the wind. He wrote to me as he passed by
Princeton in the cars last ~~the~~ Monday, that he was
going to N. York - from whence to embark the next morning
for N. Alcant. He told me to send down Schott - &
also Parry, if he was in Princeton. Parry came on in the
next train. & all of us went to N.Y. in the evening. Parry,
when he left home expected to spend only a few days with
me - & he was obliged to go without bidding his family
good bye. Schott will act as draughtsman & will
make himself generally useful. Parry will collect plants as
before. This change will affect Wright - but he may stay
in the country ~~to~~ now that he is there. It is believed
that Emory will also take the place of Barlett, as Commissioner
so that the other Botanist will be in an awkward position.
I begged Emory to retain Thurber - but he will dismiss Bigelow
For a time, at least, there will be four Botanists in
the Boundary Commission!

We are all well - but are beginning to feel nervous
at the idea of leaving our old quarters. Are you settled
yet. If I can get off soon after the 1st of Oct. will
you be annoyed if I spend two or three days in Cambridge?
much love to Sam, in which we all join
Yours affectionately
John Torrey

Princeton, Sept. 15th 1851.

My dear friend -

How I long to see you, & have
a good talk with you! I cannot get off,
however, until the end of this month - & per-
haps not then. There is a world to do, be-
fore I can get settled in New York. The man-
aging of my own special herbs will be
a heavy task. Much of our herd of old ferns
which we shall sell, as we expect to board
until the first of May next, - & even after
that may not be able to get a house that
suits us. My movements will depend on
the action of our Trustees of the Med. College. If
we are to have a new building I shall wish
to get several miles out on the east side of
the Island - say in the vicinity of the proposed
New Park -

When I go to Boston
I may bring one of the girls with me for a
short visit.

Baird has probably told you that a box
of plants had been recd at the Smithsonian
- On turning over my letters, I found that
it must be a box collected last autumn
in passing through Texas to El Paso. It

Despatched from the same place in Febru-
ary last. Should it be sent to you, I
should like to study some of the Apetalous
families, such as Polyg. Amaranth. &
Chenopod. By the bye there was
in Wright's ~~Texan~~ ^{Texan} collection, of which you
sent me many specimens, a curious
Chenopod. between *Agripphyllum* &
Cosipernum, but nearer the former. It
is numbered 581 (1849). My specimen
was a poor one, & I have used it nearly
up in studying its character. Can you
let me have another ~~one~~?

Have you any notes of *Chenopodium*
aristatum from Virginia? in herb Linn.
It cannot be the genuine plant (from
obs. in sp. pl.) - & I think it cannot be
a *Teloxys* at all. I once sent you a descrip-
-tion of a new *Teloxys* from Mexico.

Did you make out that Composite sent in
my last letter? Dr. Bigelow sent at the same
time to me, a head of *Cosmidium gracile*, as
a supposed *Cosopsis*. It agrees well with the
orig. ^{description} ~~description~~ - & also with your str. in Ph. Feudt.
My str. from James has evaporated! I have others from Vermont &
Laudt.

I have also from him *Travera speciosa*, Hook-
& what seems to be a slender form of *Asplenium*
septentrionale. Has that species ever been
found before on this Continent? I have no
Fern-books with me - having lent them all
to Brackenridge - but this plant may be
Asp. australe, Sw.

Did you observe that list of Wright's ^{plants}
Can you send him a copy of your paper on
some *Cospos.* in Bot. Jour N. H. for Aug. 1845?
Direct to Frankena, near El Paso, - via Fort
Independence, Mo. - & prepay.

I have found the letter of Hastings Grant,
in which he has a mem. concerning that pa-
-cel sent to Hooker. It was forwarded to
me ago or last April. He says in his letter
dated April 5th 1851 - "the parcel was sent by
the Patrick Henry (London Packet) which sailed
last Tuesday [probably the 1st of April] They
would not sign a bill of lading - preferring
to ship it free" So I hope we shall
yet save the plants. I must write to
Hooker to enquire for the parcel in the
Packet Office in London

Princeton, Sept. 22, 1851

My dear friend

My letter again crossed yours. You will see from mine that the parcel by the Wisconsin has not been heard from - but I hope to learn soon that Chapman has it safe for me. I sent twice to Beutham - once a very few plants ~~actually~~ from Salt Lake - the other time mostly plants from Parry's California collection. The latter must have been those that failed.

I hope you will superintend Brackenridge's work, & get it through the press this winter. The "Committee" authorized him to engage some botanist to do this - & to pay \$150 for the job. I would do nothing unless they would let me have my own way in the matter.

If you don't come here before the 10th October we shall be all in confusion. Mrs. T. has much desired that you & Jane should make us a visit. I will try to be with you before our lectures commence in Med. College.

That Composite from N. Mexico I thought could not be *Carphocista*, as it has not a double papery

Leguminosae - but there were some others. The Composite for your examⁿ was sent at the same time. It makes no matter now - for I have other specimens of most, or all of them which you will see shortly.

Prof. Henry is here. He will leave tomorrow for Albany, & proposes making your visit towards the end of next week -

Curtis has not yet made his appearance - although we made an arrangement to meet in New York ten or twelve days ago. Neither have I heard of the arrival of Chapman - whoever he has been here about the middle of the month.

I have received a copy of Beutham's Report - which is to be paid for by the Government

Have you heard from Carey since you were here? It is more than a month since I saw him. He was snugly fixed in his son-in-law's house 15 West 21st St. - with much love to Jane -

Yours very affectionately
J. Torrey

Can a copy of Lindlicher be obtained in Boston? I should like to send one to Parry.

but 10-12 uniform linear-lanceolate foresae. If it be admitted into that genus, the character must be altered.

As I have engaged board within a stone's throw of the Med. College, & shall have my herb. & ~~read~~. Bot. books there, I hope to do something this coming winter in clearing off some old jobs. Perhaps I shall be able to dress up something further flora.

Sept. 25 Yours of yesterday has just come to hand. What a comfort to get letters so fresh! You will see that I had already rec^d. & answered in part your previous letter which expressed mine. I cannot yet tell what our movements will be - or rather when we shall get off. If I go before the lectures in New York Commence I remain with you a very short time, it will be in the hope of spending my holidays with you. Besides, ~~arrangement~~ by slipping off in the afternoon (starting an earlier hour than usual for my lecture, I can now & then spend a Saturday Sunday & Monday with you - so I don't meet my sleep those days.

Jane's letter has been read aloud to all the family - & the girls will answer it through Eliza to whom

it was directed. They would all like much to go & make a visit to Cambridge. but I suppose that no more than one - or perhaps two of them can leave us in moving time. Jane had better make her visit to Ditchfield before we go to see you - as we can hardly get off before the 10th of October.

Did I not tell you in my last that Emory would probably not disturb Mr. Thurber - but that he would dismiss Dr. Bigelow - who was hardly needed in the first place? Wright was not of the Commission - er's party - but had merely been taken under the wing of Col. Graham - now recalled. It is quite true that some change was made in the Commission - for the gentlemen of the party are entirely at loggerheads: There is a difference of some 40 miles in their estimate of the merid. eastern point. I hope that Parry will have an opportunity to explore pretty thoroughly the Sierra Madre region - for that, I am persuaded, is the most unexplored part of our country, except perhaps the eastern slope of the Sierra Nevada, where Fremont got some of his choicest plants.

The plants that I sent to Bentham, from Parry, I find from notes that I looked over to-day, were mostly

I have soaked & opened a little, but have not mutilated it. I save it as much as possible & send it to Hooker - for it will be better than no specimen. There are 5 sepals & as many (purple) ^{acute} petals - no bract I believe. The stamens are much as in *Sarracenia* but fewer in number. Fearing to injure the specimen I was unwilling to poke into it except to see that the ovary appeared to have a cup-like border at its upper edge, ^{on the} inside of which were 5 radiating grooves that looked like stigmas, but there was a short style with 5 lobes besides. You will see the queer thing for yourself. I called it long ago in my ^{Oreophora} ^{in February} ^{in February} You remember that Brackenridge's specimens had leaves (2-2½ feet long) - & flower stalks only (3-4 feet long!) - with a small fragment of a capsule. He found the plant in October. Dr. Kuhn's specimens were obtained near the Snake Mt. (where Brack. got his) - & the siliques are scarcely a span high - yet the flowers seem perfect - All the leaves are quite young & small. I will send you specimens by express - unless I find it can go safely by mail. If I can get a bill on Boston, I will send you \$200 tomorrow - & more shortly. Much love to Jane - Yours affectionately John Torrey

New York, Oct. 24th 1851

My dear friend

Your kind letter came two days ago. - I have been so pressed with extra duties (mostly reading from my late removal from Princeton) that I have not been able to sit for my Despatch - but (if not too late) it is my purpose to attend to this business in the morning.

Last night I had an agreeable surprise. My old friend Dr. G. W. Kuhn called at my laboratory, & laid on the table a little chubby parcel of plants which he had just brought from California - mostly from the Upper Sacramento. On turning them over I saw few species that were unusual - & therefore did not examine them sharply - but what was my joy afterwards to find the Darting toad - in flower & bud - & the *Sarracenia*-like plant of Brackenridge in flower!!

I could hardly refrain myself from shouting
for joy. The *Darlingtonia* does not
confirm all the remarks I made on the
flower. You may remember that I
thought it was apetalous, like the *Tremula*
& *Cheerokee*. Part of the flower had
fallen in the specimens of Fremont, being
as I thought, the tube of the Calyx; & the
parts fitted so well that you & Carey were
decided of my opinion that they once
formed part of an apetalous flower. The
specimen that I enclose makes it clear that
I was mistaken, & if it is fortunate that
the printer had not worked off my descrip-
tion of the plant. (The copy got mislaid &
could not be found for more than two months -
indeed it only came to light three days ago!)
Now you must get Sprague to make a
new drawing of a flowering branch, with
dissections of the parts - & Henry must open

to defray the expense of a new plate. - Can-
celling the impressions of the old one. Pray
set Sprague at work without delay. You will
see that the authors are cancelled. If this
plant is Meloid, Kunth's view of the stamens must
be adopted. I have not had time to

study the characters of the plant with the
new light that has come - but its general
appearance is that of *Syrax* - & of
Syrax in particular. Give me your
opinion. I hope to make a study of
the plant by day-light, tomorrow.

As to the *Sarracenioid*, it is a most remark-
able new genus. There are but three
specimens. One I must keep for my herb.
intact. The other two I shall forward to
you if Mr. Sprague will make a drawing
of the plant. It is probable that one

of the specimens will suffice for the dissections.
A flower which was broken off from its stalk,

Carey called on me last night - & of was in good spirits - He came also to Day, I bought a very beautiful *S. proserpinacifolia* -
who was introduced to him by Salsbach - The young man seems very feeling & is anxious to study under you. I to be certain to
- your servant - He will call on you next morning

New York, Oct. 30th 1851.

My dear friend

Your letters of Saturday & Tuesday last
are before me: the latter received yesterday.

I felt afraid; after the Sarracenia was dispatched to you
that it might ~~not~~ suffer on the way. I regretted not having
defended the specimen better - but I was in haste, &
knew how pleased you would be to see it. * Mine (the
only ^{some} one left) shall be sent by the first safe opportunity.

There is with it, the flowering stalk of the separate flower,
- which may serve to patch up your specimen. I am
not without good hope that we shall have the plant alive

before next spring. Dr. Muller was in my laboratory again
this evening. I took with him a rough drawing of the plant
which I made. This he will forward at once to an in-

telligent friend of his ^(Mr. Reading - was a candidate for the office of Governor of Calif.) who has long resided within 15 miles
of the locality of the plant, & who has many Indian servants.

Dr. H. knows that his friends will take great pains to
look up the queer thing. I have given directions how

* Mammian had left before I concluded to send the plant. - J. Holton left a letter.

I have an old plant from California, by Perry, that I cannot refer to any known Calif. genus.

It must be preserved & forwarded. In the second Darling-
tonia is probably knocked in the head - suppose you good friend
is complimented with an new genus? To be sure I called
it long ago in bot. Oreamphora - but that is no matter - I
surely we can now give him a genus that must stand.
The printing of my article cannot proceed till I get
the dissections from Prague: for I have been afraid to
look into the viscera of the flower, lest I might soil
them for the drawing. Oreamphora would not be a
bad specific name.

I have, at last, good ripe seeds of that Echinocystis-like
plant of Oregon & California. Indeed I had them
long ago without knowing what they were. What I now
have were taken by Dr. Kuhn from the fruit. In the
herb. of the Coll. Gleditsch was a pod which had cast its
seeds. They are unlike those of any other Cucurbitaceae that
I know of, being very large & plump (almost as thick as
wide) - with a nearly bony testa. I believe it is the same
plant as what we called a Sicyos, in the flora - but which was
described from poor specimens. The Herbarian specimens

are so much like our own ~~of~~ Echinocystis (without the fruit)
that I can hardly distinguish the two plants, ^{but} the root
is enormous - being from one foot to two feet in diameter.
It is well known to the inhabitants of California & Oregon by
the name of Physic Root. In Dr. Pickering's notes ^{the root}
is said to ~~be~~ be sometimes two feet in diam. I once thought
there were two plants - a Sicyos. of another very near, or iden-
tical with Echinocystis - but I now find them shading into each
other - ~~but~~ I have only ^{seen} the asperous ~~of~~ fruit of the
latter - with separate seeds by a different collector -
The fruit found by Pickering is larger than in our plant, & is 4-cells
nearly a quite to the summit. Dr. Kuhn says there is one seed
in each cell. The spines are somewhat rigid, & from $\frac{1}{2}$ to $\frac{3}{4}$ of
an inch long - stout at the base & tapering to a sharp slender
point. Smth. in his paper on Cucurb. in Hook. jour. bot.
(3. p. 279) is inclined to refer Hooker's Sicyos angul. to Etalerium
- which it is very unlike. It is probable - from the
character of the fruit, & of the seed, that, that the plant is
a new genus. I have two ripe & fresh seeds for you
& I hope ~~with~~ you will make them grow. Kuhn expects
a number of seeds of Californian plants, to await his return
to N. Orleans, where he now resides.

You business Statement in Imbitch comit. I like to send \$200 more next week. One boarding house in
83 Springst. at Mrs. Hallay's. The drawings will be ready for copying. The young authors of Borshstoria are coming
4-called (take some from a book) Henry goes to drawing the plates of Borshst. We need all pretty well - French love. & have
your affecy.

J. Parry

I have letters from Dr. Parry & Mr. Schott, (who accompanied
Maj. Emory). dated San Antonio, Oct. 10. On their way there
Maj. S. says he saw at Indranita, two boxes of plants, addressed
to you - probably, he says, from Mr. Wright.

I am now laying out for you a set of plants collected by
Dr. S. Bigelow in Texas, last autumn. They were sent to me
by Henry - having been forwarded for the Smithsonian Institution
There are three specimens of almost every plant. One set is
to be retained for the Smithsonian - one I shall keep - & the
third will be sent to you. Besides these three sets there will
be duplicates of perhaps $\frac{1}{4}$ th of the whole. The specimens
are badly pressed - but are in good working order. Bigelow
writes that it was with difficulty - ~~that~~ Bartlett could be induced to
let this collection be sent - & only consented because it was
made before the proper operations of the Board. Com. was begun
All the remaining collections, he says, must be described, to be de-
scribed in a separate work when the survey is closed.

— but ... he will probably have very little to say in the matter!
Parry writes that either the whole Com. will be broken up - or Emory
will have the entire control of it - & a letter (with a "private P.S.")
just come in from Henry intimates the same thing - as coming from the Sec. of Dept.
I shall try (Dr.) to arrange my letters, so as to leave New York on
Thanksgiving Day - or, if possible, the day before - & remain with you
till the following Tuesday morn. - a Monday eve.

New York, Nov. 4th 1857.

My dear friend

Mr. Hutton has just heard
of your letter, with room left for a
P.S. I have just finished a lecture
I am pretty tired. Most of the day I
have been occupied in putting up the
cases which I brought from Princeton
& shall soon have my herbarium ready.
Mr. H. brought me the sketches of *Crucifera*
(*Darlingtonia*). - & I shall send you
my description of the plant in a day
or two. There will be a little improve-
ment in placing it in *R. Fernandensis*
- How would it do to replace the *Darlingtonia*
with some other new pl. of Fernand - I
make a separate sheet paper of the *Breana*
thosa? I hope shall have my specimen
when I send you some of Bijelwi's Texan
plants the latter part of this week.

I hope to be with you on Thanksgiving Day
Yours faithfully
J. H. Brown

Coll. Char. 511 Broadway 4 Nov.

Dear Doctor Gray I arrived safe
& found all well on Sat. Morn.
Dr T. is having his cases put
up (the new accessions (25 ^{new} genera)
are distributed into the 55
pigeon-holes in which they be-
long & await the time when
my herbarium shall cost its
skin (I have sold my old genus-
holders) a week or two hence.

Ship Baltimore from
Havre arrived 19 Sept. - is
now at Pier 8 N R under-
arrest for excess of passengers
What next about her?

The Loflan fr. Matagorda
not arrived -

I regret very much having
forgotten those Cape Plants
I hope I may get them in

season to put in as I re-
view & change covers. I
will not yet direct them
to be expressed.

I shall to-morrow get
some Sandwich I. plants
unnamed. I will send them
on to you to keep what you
want & return the rest named.
I shall ~~take~~^{make} out a sett for
the S. Seas to receive others
for hereafter. Gulick takes
them. He desires very much the
Bot. of S. I. & Polyn^a of the explor-
ing Expedⁿ when you shall have
finished it. May I promise
them? He will collect plants
for you.

I think that seed you sowed
open when Dr Leigh was pres-
ent was cucurbitaceous.

My first lecture came off
last night.

I suppose I have written
more than you will want
to read & will close with
my best respects to Mrs
Gray

Ever yours
J. A. Holton.

New York, November 24th 1857

My dear friend.

Your note reached me on Saturday
but too late to answer it that day -
To day I have been so bored with calls
& laboratory matters that I could not write
in time for the mail.

It is my purpose to leave here on Wed-
nesday afternoon, by the Fall River boat
with Jane & Eliza. Mrs. Torrey would
be very much pleased to go, but cannot
just now bear the fatigue of travelling.
She is decidedly better than when we
left Princeton, & I think it best for her
to recruit still more ere she tries her
strength. Midge improves slowly, but

fears it would be a temptation to
me her eyes too much were she
to make you a visit. She fully ap-
preciates you & Jane's kindness in
giving her so cordial an invitation

I think you will have enough of us
if Jane & Eliza accompany me

You say that you would expect us on
Wednesday - Did you not mean Thursday
morning? For I thought I had settled my
intention of starting on Wednesday afternoon
(after an early lecture)
and in that case, I could not reach Boston

even by rail road until near midnight
& then it would be too late to cross over
to Cambridge until the next morning.

So we will take it easy, be with you (D.V.)
by the first conveyance after the cars arrive
from Fall River

Yours faithfully
John Torrey

Monday noon.

We have delightful weather here. I pity you in that Springfield climate. Already it seems your streets are covered with snow! The parcel of Beckwith's plants is in Adams' hands.

For an hour, after leaving the Agency Office. The course now lasts five months - & the proceeds, after deducting expenses, will, this year, not be \$1000. If I leave the College I can live some miles out of town - where I cannot do now, as it would be unpleasant (if in many directions, impossible) to travel at night - especially in the winter.

Capt. Pope is going out next January to the Llano Estacado, with a party, to explore for water, by digging in the sand. It is, I suppose, hardly worth while to ask him to collect plants. - He says that if we write to DePea our report till the end of February it will be in time - but we shall not need so much grace -

Parry has been appointed Prof. of History in a new college in Iowa. He sends me Sullivan's from that State! No news yet from Schott, or from Emory's party.

Recd. from Dr. Gray Oct. 23rd.

Podocarpus grandiflorus. California, Wallace
Calochortus = to one that I have received from Fremont (Michigan)
& which I regard as a n.s.p.

Gilia (Dactyloph.) - not in my herb. nor in Barry's Caty. Coll. Can it be *G. amara* Nutt. & Gray?

Bahia Wallacei - glad to get this

As to that whirling chair, I am afraid the man did not send
the one I ordered - for I purchased another one a few days af-
terwards & he sent me home an inferior article - Both of
them were to be a solid black walnut, like some that he
made for the Army Office. If it be not black walnut,
but stained (& highly polished) let me know. I hope you paid
no charges on the box - for the enclosed receipt will show that
it was to be delivered in Cambridge free - "

Nov. 6th

Can you spare bits of *Erigeron luteocephalus*
(Scheele) & *E. Texanum* (Schl.) - for I suppose you
have them.

My *Linnæa* is deficient { vol. XXIV. part 6
 { 8 - XXV - 4
of vol. XXVI I have my part 1. & I have
a duplicate of ~~part~~ vol. XXIV part 4 (returned in
your parcel)

Madge is on Staten Island, making a visit at
the Shaws. She is expected home today. I've her
letter to Jane on Friday last she probably set the time of
her going to Cambridge. Mrs. Torrey is getting
along nicely. She goes about the house as usual - but
cannot walk far out of doors. We all send much
love to dear Jane - Yours even J. Torrey

he was looking for me. I will set ^{all straight} ^{it}
when I write to him - which will be soon.

Thurber is already working hard on
his Report for Henry - & so is in better
spirits.

You have doubtless received Engelmann's
nice paper on those queer grasses
that we have discussed so much -
He seems to have determined their
characters satisfactorily. We
need not feel ashamed that the
Buffalo grass was not identified ^{by us}
since it is so unlike the ordinary
kind. Indeed I could hardly have
believed they were of the same species,
or even the same genus. Had not both
been found on the same root.

I talked with Baird, when he
was here lately, about these extra

Copies of the Mex. Bound. Rept.
(Many) - He thought they were
printed - & will yet be sent - but not
until all the regular sets are
bound & sent off. The plates, too,
will be forthcoming - but these
are more sure than the letter press.

By this time Chapman must
be with you - Please hand him
a note which I have put in your
envelope - When I came to close
the letter I had no envelope small
enough for Chapman's. Does
he mean to postpone the rest
of the printing till he comes next
again? Or will he remain here
till his book is through the

press? He might now leave
the work in Eaton's hands - if
he writes a few sheets. The
proof is so clean & distinct, that
no serious mistake can occur -

Our folks are at at Sweden's
yet. This fine weather will
keep them there as long as it
lasts. How I wish your
Jane was there - She needs some
change - if we could be most
happy to have her with us -
either at Sweden's - or later
in New York. Give my
love to her. Yours ever
Wm Lloyd Garrison

67 Crosby St. - Friday Evng.

My Dear friend

Your letter of "Monday" reached me to-day. I did not look at the envelope to see when it was mailed - but it is strange that it was so long on the way. On examining the seeds of the new *Theyrid*, they are all described as embryos! Large turpentine-cells occupy the whole thickened base of the seed. Eight or ten seeds are in this state - so that we cannot give the character of the embryos. I have no groups as to making the plant more than a Subgenus of *Theyra*.

It is now too late to send anything for Hooker - Indeed I have nothing ready for him worth his acceptance

The parcel of Erivjous - came to hand
two days ago - as you have probably
heard from Carey. A parcel
containing Salt Lake of Californian specimens
sent to Bentham through Hooker must
have been lost - There was some nice
Erivjous in it - which I was very anxious
- was that Bentham should examine.

I find that, that I have made a
mistake as to the date of your last
- It is not dated at all - Another
(older) letter of yours was lying open
on the table before me - & I was
looking at that as I wrote

Tell the girls that their mother
is pretty well, & goes down to her
meals - but that Maddy is now
taking her turn of sore throat, with

some fever. I hope she will be
better in the morning.
You must have a lovely time with
those romping girls, & the "nice old
gentleman" I fear they will dis-
tract you quite Jane. I hope to
come on & keep the peace next week.

They must be ready to return with me
by Wednesday - a Tuesday, of the week after
Christmas. Tell Jane that her Cousin
in St^{ts} fully expects her on New Year's Day

My dear Mother

My dear Mother
I am very glad to hear
all is well with you & the girls

I am very glad to hear
all is well with you & the girls

I am very glad to hear
all is well with you & the girls

I am very glad to hear
all is well with you & the girls

I am very glad to hear
all is well with you & the girls

(Mercuria)

Celtis rhauwoides will hardly do for
Acauthoceltis, as there is a C. rhauwoides
= which, although a syn. (probably) of
C. aculeata, ought not to be used for
a n. sp.

Did I not state in my
last letter that Planchon's monog. - a
the substance of it, is in the 3rd vol.
of Walpers' Annal. ? Our plant will
stand next to C. aculeata. It is
better to follow Planchon in considering
the group to which this & its allies
belong, as only a subgenus. - He, how-
ever regards Momisia Decand. as a
syn. of Sponia, while Klotzsch (in
Linnaea &c) makes it the same as
Mercuria H.B.K. Who is to be
followed ?

What is Celtis Texana Scheele (in Linnaea)
- with opposite leaves ?

I asked you once for your names of Wright's Erythraea
Have you determined them ? What do you make of
Greene's Californian E. Muhlbergii since you
refer his Penn. plant to E. ramorispinus ? I sometimes
think there is but one Calif. species of this genus
The stigma varies according to age. Greene's, ~~the~~
2nd section, are undistinguishable. Little reliance
can be placed on the length of the flower stalks. or etc

E. tricaulis Griseb. was described without soaking the
flowers. In my Douglasian specimen [which must have
been a dupl. of the plant examd. by Griseb. The corolla,
when soaked, shows the segment, to be lanceolate, & rather
obtusely very few "linear acuminate filices"!]
All the Californian species seem to be called *Cenchrus*
lugens by the Mexicans. - & now by the natives too.

My dear friend -

The bearer, Mr. N. Wilson, has called on me, & I am much pleased with him. He is a horticulturist from the Bot. Garden of Jamaica, - but proposes leaving there, to settle perhaps in the U. States. He is in correspondence with Sir W. Hervey, & knows many of your friends. As he proposes visiting Boston, I give him this note to you, hoping you will make his visit pleasantly profitable.

Yours ever
J. J. Torrey

New York, Jan^y. 5th 1852

De ardocta -

I have thought much of you
all since I left Cambridge, & I can
easily imagine your various employments.
Gladly would I be with you again - but
it may be midsummer before I can
make you another visit. It will be
saw, however, to send back of forth (when
we have any quiddities to discuss) - both
specimens & books.

I have not done much in the Botanical
way since I returned, except in distributing
plants in my herbarium. At length, however,
I have reach a part of my course where the
experiments are simple & require but little
preparation, & I can be in my plant room
some hours every day.

Looking over my Compend a few days ago,
I found a specimen of the great Thuya that

afforded me a ripe seed with a perfect embryo
I have made a sketch of it, & send my sketches,
with the seed, in this note. As you have
sent (I think) Richard's Calif. I send copies
of some of his figures of *Thuja occidentalis*.
The seed of that, has the same kind of oil folli-
cles in the testa (or that part ^{of it} which invests the
nucleus) that we find in the Californian plant.
The wing of the latter is very unequally 2-lobed
(part of the larger lobe is broken in the enclosed
specimen - & I have completed the outline in
dots) - but it ^{is} still different from that of *T.*
occidentalis. You will, I think, see that
the Californian tree will constitute only a
subgenus. I wish Mr. Sprague would
make a new sketch of the seed with its embryo -
& that you would forward it to Pursh.

I have a good chance for Paris. In a
week the Haave packet (Heaven) sails - & the
Surgeon - who is one of our graduates, will take
charge of any parcel for me, & deliver it
himself in Paris.

above El Paso. It is uncertain what will be his relations to the Commission when Mr. Graham leaves. I shall know when Parry's next letter comes to hand - which will be in two or three weeks.

The collections of Tuckerm are said to be very extensive & complete. It was thought that Mr. Bartlett's party meant to push as quite across to San Diego to as to occupy the whole time, & get out a book. The present Secty. of the Interior is doubtless in favor of giving the Commission credit to May - & we may soon hear of Mr. B's recall. Very likely Mr. Tuckerm will come home with him.

It may be obliged to go to Boston shortly in order to give testimony in a lawsuit. So you must not be surprised if I should look in upon you some evening just before dinner or tea!

Mrs T. has been quite ill for several days but is now much better. Madge is, I hope, recovering slowly. It is chiefly her lame back that troubles her now. The other girls are well, & will doubtless write soon - much love to Jane
Your ever J. Torrey

69 Crosby St. N York.

Jan 17. 1852.

My dear friend -

That Thuroid plant must be a species Endlicher's genus *Libocedrus*. Several species ^{of Thuja} that Hooker described & figured in the ~~2nd~~ ^{I. II. & IIIrd vols.} of *Land. Journ.* are referred to *Libocedrus* by Endl. Look at the figures. It seems that Don considered them as belonging to *Dacrydium*. Is it not strange that Hooker calls the strobile a capsule?

I have just received a small collection of plants from the Valley of the Sacramento, Calif. The new *Skyrax* (late *Darlingtonia*) ~~is~~ among them - from a new locality.

Tuesday. I have seen Carey three times since his return - He seems to have enjoyed himself very much, with the slight drawback of your Siberian climate. I hope the old chap will go to work now, & doubt a little botany for us. It is very like

by that I can tempt him with the prospect
for which he has something of a passion.

Darlington ought to have received my letter
(thanking him for his volume) - as I was
written immediately on my return from
Cambridge. I told him how delighted
I was with his book - & asked him if
he had sent a copy to Booth.

Your letter of the 15th came to hand
yesterday - but last night Gilman called
on me to say, that Dr. Blackman, the
Surgeon of the Hermann had concluded
nearly at the last moment, to lay over one
trip. This change has prevented my
doing any thing for you. I have
just thrown the order for your Gen. Ill.
into the fire. - So that "got along with" - "now
now, now, what next?"

Letters have just come in from Parry
& Schott - dated December 10th. Emsay
had superseded Col. Graham, who was to
start immediately for Washington. The

party was encamped 10 miles above El Paso.
The affair of the Commission are in wretched
flight. Mr. Bartlett with most of his party
(including Thurber) had gone to parts un-
known, leaving the remainder of his people without
funds or work - or anything else except pro-
visions. Major Emory orders are to join the
Commission after releasing Col. Graham - which
is almost impracticable with his poor outfit,
& at this inclement season of the year. He
thinks, however, that he will attempt to or-
ganize a small party & start in pursuit
of Mr. B. as far as Pecos Village on the Gila.

Mr. Schott will remain behind & he is
to go back to Eagle Pass, west of San Antonio
& survey the line down. This will afford
him a good opportunity to collect plants in
an interesting region.

Bijelow was at El Paso, & Dr. Parry saw his
collections - which are good, but most of
the plants had been previously detected by Wright
& others.

Wright was with Col. Graham, & had been
with a surveying party up the Rio Grande,

New York, Sept. 19th
1852

Dear Doctor

These letters have just
come in from Wright - & seeing
he may not have written to you
I transmits them for your perusal
He would be rejoiced, I think, to
get the sheets of St. Wright. - The
article from Tillman you have
probably sent him. Of course
you will send the poor fellow a letter.
I am glad that Quincy has retained
him. He seems to be afraid that
his collections will not in the Patent
Office,

They will not go there at any rate
What will be done with the specimens
collected under Col Graham? If left
to your disposal, you will secure a
set for St. Hart - & another for
me (I mean in case W. is
paid for his services, by the Govt.)
- Maj. Emory will doubtless put
all the collections made by his
party in my hands - & I will,
of course, share them with you.

- We had a good snow here yesterday
- the deepest one of the season - & the
streets are lively with sleigh bells.

I am working at Botany some
- left every day - but cannot accom-
- plish a great deal at this season.

We are all as usual at home, &
send love to Jane & your young ones
I, Truly

Ps. Mr. Le Roy (formerly with
Thorburn) who has just called on
me, wishes me to remind you of some
seeds of your garden that you promised
him. He is a most worthy chap, who
has struggled hard, & is now endeavoring
to do something with a small garden
near Kingsbridge

The *Quercus* (*Chrysimus*) enclosed in your letter seems to be very near *Q. cloveformis*, except that the leaves are not so much divided towards the base. I find, however, from other specimens of Fremont (1849.) that the leaves vary, being sometimes pennatifid, with the laminae much elongated. I think yours is only a state of *Q. cloveformis*.

Holtan has just come in & brought a draft, which I enclose

- I ought to have told you how grateful Merriam feels towards you for your kindness to him. He has several times spoken of it, & as he is a man of few words & is quite I think he feels quite as much as he expresses. He boards next door to the College, for \$2 per week, & sleeps in my little room - without cost he has a warm room, & gas light, & feels very happy. With much love to your
Yours affecly,

John Torrey

Answered

New York, Feb. 2nd 1852

My dear friend

Yours of the 24th Inst. came to hand in due time. Doubtless you have received Merriam's letter, & know that he concluded not to go to the Bahamas. I think his decision was wise - for I am quite sure he would ^{have} expended his small funds - & no money could be got for plants except after long delay, unless some friend advanced on them. I saw he was unhappy - for the information that he obtained from persons who knew the island, well, convinced him not only that the vegetation of them was quite limited, but also that living was very dear. It was with great reluctance that he abandoned the

expedition - chiefly ^{because} ~~that~~ it would disappoint
you.

There is a probability that I can obtain
a situation for him in an expedition to
the source of the Missouri & Yellowstone Rivers,
now contemplated by Government. If it is
sent out, Capt Stansbury will be the
Commander, & he says there will be
a chance for a botanist - intimating that
he will take one whom I nominate. In
the mean time I have urged Merriam
to study practical medicine & surgery
very hard - & to attend all the Cliniques
He is busily employed in this way every
day. If a botanist is appointed to
the proposed Exped. it is expected he
will be a physician & if so such will receive
pretty good pay.

Merriam studies some botany as might
& does some little jobs in my herbarium.

Did I tell you that Craighed the printer
had been burned out? Part of my Nest of
P. Feinert. was in his desk - & is destroyed
- Have you a proof of the first form? Well
that & some rough notes that I kept I
shall be able to rewrite the last part - but
not so well as before - nor can I replace
some of the observations

Merriam has written to you I believe, that
the \$50 of yours which he placed in my hands
of the Holtos fund, would be sent on at once
by Mr. H. himself.

I don't yet know whether J. Blackman will
go to Paris next month - Probably not. as he
is Surgeon to the Merriam & will wait
till she returns

curious undetermined ones among them.

I find that by overhauling my old notes. I can get along pretty well with the Memorandum paper, & hope to send you a proof soon.

We are pretty well through our course at the Med. College. & next week commence our examinations.

Feb 13th. Guyot called on me last night with his niece. He ought to write out his lectures. Mary, who has no doubt of his high attainments, was disappointed, from his hesitancy & prolixity. He used no notes - & evidently was so anxious about looking for correct words & expressions, that he could not do his subject justice. His audience was very respectable but not large. If he wrote his lectures, I am sure he would give general satisfaction. Then, again, he must speak louder - for many could not hear so as to understand him - If Jane has returned give her my love. I cannot yet tell whether I shall be required to visit Boston. Yours ever J. Torrey

New York, Feb 9. 12 1852

Dear Doctor

Your letter of the 4th has been lying some days on my table. I was so positive in refusing to take any commission for selling the books that I ceased pressing him - & yet I hardly is very that indeed of money. I hardly know what the poor fellow could do. He never was so low-spirited before - & has gone to New Haven for a few days - merely to get rid of the blues. A late attempt of his to deliver a course of Chem. lectures at Williamsburgh. has proved an entire failure, attended with a loss of some \$10 or \$15 - a serious one for him. He had been led to believe that a good class would be made up for him. If he don't go to Central America he will probably be invited to act as chaplain to

an institution here, for the benefit of
poor boys - He has admirable tact in
addressing those who are unaccustomed to
preaching & other instruction. I have
heard him lecture - & think he has few
superiors in teaching Botany & Chemistry

Memiam (a Maryland, as the girls call
him) is faithfully attending lectures, study-
ing French; & reading botanical & other
books - - doing small jobs for me oc-
casionaly. He is very desirous of resigning me
but I think he had better improve his
time, so as to be ready in case a situation
is obtained for him.

A letter from Capt. Taubert which I
received to-day gives encouragement that
an expediⁿ will be authorized by Congress the
present session - & he hopes to get the Com-
mand of it. Memiam is before him as
a candidate for the situation of botanist

L. Rigdon writes to me that by direction
of Maj. Emory he has placed in care of
Col. Graham all the plants which he collected
after reaching El Paso - including some from
the Gila, & other regions west of the Rio Grande
Parry also sends home a box - of Schott
a parcel - These are on the way, & will
probably reach New York in a few weeks.
Should there be any thing new among them
you, will, of course have a share

Guyot has been in town since Monday
& remains here to deliver two lectures on
the 1st Chapt. of Genesis. Some gentlemen
here invited him, & the Mercantile Liby.
have assumed the labor of advertising, ob-
taining a place &c. The first lecture
came off last evening at Hope Chapel.

I don't remember any special quadrats
in Compositae to send you - but I will look
over my herbar - & select some, if there be any

New York, ~~Feb~~ March 3rd,
1852

My dear Doctor - Yours of the
11th inst. has just come to hand.
I am surprized about the unsettle
plant of Stansbury - for I thought
it was agreed that I should call
it Monotheix - & it is entered
& Prunella under that name - My
Catalogue has also gone to press.
Don't you remember then - & how you
~~you~~ said that one of Linnaeus' plants would
make a second species? - I wrote this
in great haste

— Lundgren has just come in &
I communicated to him what you stated
& he would like to try & assist you. He
has had charge of an extensive herbarium
in Upsal - You are not obliged to keep him
if he does not suit - but I rather think

be would be able to aid you in various
ways -

Yours cordially.

New York, March 8th 1832

My dear friend -

Your letter of Saturday
has just come to hand. The
Salt Lake Monitions. I called Mr. Staus-
burgen - It is printed at Ph VII. of
my little article.

When Mr. Wright, who finished &
I hope you will send me the remaining
sheets soon. Morrison is working
spediously. I beging to do something
for me. When he is done a Sunday
lecturer I shall have none of this
time. He will send you a letter
soon.

Our Commencement
takes place on Thursday next of this
week - of then the College will be
closed for the season. - Morrison
will remain, however - I hope

proportion of the little room

Holton Hill expects to visit New
Grenada - ~~He~~ if he goes there will
be a fine opportunity for obtaining
plants from a region little known.

In haste yours ever

J. Torrey

New York, March 11/12 1852.

My dear friend.

I was out of town yesterday,
and on my return, found your letter of

Different times - but I was
in consequence of being at Pompton. Cary
has one - of Mr. R. L. Stuart another.
for about \$4 each - well bound!
Of course I must take the numbers sent
by Belf. - as they were ordered - but if
any are in Boston - (as your library) will
take them off my hands. I will give my
broken set (4 nos.) without any charge.
Let me know if you can find a pen-
cheon.

Some days ago I put in to the hands
of Hartings Grant, a memo to call on
Putnam for Mont. Fl. Brazil. but
he has not got it yet.

Merriman has been arranging my Lymanium
& has made a full index, with synonyms, of all
the genera in Bentham's latest enumerⁿ. - My
copies are numbered according to the Index, which
is packed on a large pasteboard - so that I can
find any plant in the adu with great ease -
He will do the same with other large adu,

You don't say anything about Lindgren in
your last letter. He is working on
his collection of mosses in my study -
- selecting some sets - one of which is
for Thot. ~~III~~ The number of species
in his collection. The best set will contain
about 500 species - Lindgren is
a very intelligent man, & I find him
to be all that I expected of him. Perhaps
I had better try him at giving & other
work before he goes on to Boston - in
case you think of giving him some
employment -

Your ever -
J. Torrey

New York, March 13th

1852

My dear friend -

Lundgren left with me
the accompanying volume, requesting
that I would forward it by the
first opportunity. Guyot departs to-
day for Cambridge, & I send it by him.
G. has not been very successful in
his lectures at Abbott's School. His
recent course, in the same part of the
city - & on the same subject, - satis-
fied the small number of persons who
take an interest in scientific matters.
Our people are so much taken up with
business, fashionable parties, flash lecturing,
& politics, that science is barely tolerated,
much less patronized, among us. Even
Keating obtained a class only by dint
of unrewarded exertions on the part of the
Crosby St. men.

Baird is in town - but he called yesterday when I was out, & I have not seen him yet. He will probably go to Boston before he returns to Washington.

As I am working now on my herbarium - putting up all the undistributed plants received for a year or more past, I should like those sheets of P. Wright as soon as you can let me have them. Remember my proposal to give you a share of my Pt. Fremont, for some extra copies of your paper. I am to have 100 for myself, after Kenny supplies all the botanists whose names I give him.

We have lovely spring weather here - but I suppose you are still suffering the rigors of Spitzbergen - Do come & thaw your old limbs for a few days

If then you can work mine nimbly for a season -

Much love to Jane.

Yours ever
J. Torrey

New York, March 16th 1852

My Dear friend.

Gibber has sent me another of his characteristic letters, & you are gently scolded as well as myself. I shall inclose it to you. See what he says about the Palmetto, & make your peace with him at once.

I don't know whether you have seen his Rhus from the N.C. mountains. I received the fruit from him to-day. No doubt it is quite distinct from R. prunula - What is R. elegans of Sib. which we strangely overlooked in the Flora? Pursh considered it a var. of R. glabra. Does it run under it. R. glabra, paniculata speciosa coccinea, Curtob. Carst. app. 4. t. 4. - as does Pursh? What says London in Arboret. - which I have not at hand - though I think he agrees with Pursh? It differs from R. glabra in its perfectly smooth berries & leaves green underneath. I have nicknamed it R. Gibberii in my herb.

* No. - I see that it is quoted under R. glabra

Do you think Mr. Lowell would like
a set of Lundgren's Maps?

What species of *Rhus* can you send
Gibbes? - I can put up for him any
of the N. species - & also *R. Coluroides*, Nutt.
- Can you spare any N. Mexican ones?

Bard did not call again - & I know
not where he is.

Peruse Gibbes's letter, & send it in my
next parcel -

Yours ever -
J. Torrey

Hobson seems determined to go to N. Grenada if possible. He is almost desperate about getting employment of some kind.

I have a few seeds from Buzelov which I can spare you - but you probably have most of them from Wright. Do you care much for "Botanical Plants" for the Garden?

"Mary Ann" & Lindgren work together, & help one another in many ways. They have gone out to-day to look for Nopes on Staten Island.

March 24th All well to-day. Midge has gone to spend the rest of the week at Mrs. Roberts - her first visit since Christmas. She improves slowly, & we hope will be able to walk comfortably in a few weeks. She reads better than she has done for two years - Much love to Jane - I hope to see her in six weeks. When I return I shall be able to spend a few days with you.

Yours
John Torrey

New York, March 20th 1852.

Dear Doct^r - I saw letter of the 18th came in to-day.

Would it not cost less to return three numbers of Beechey to Delf & pay him handsomely for his trouble & expenses - ~~than~~ to take them at his price? - I was unprepared with the idea that I had told you of my acquisition - at least so late as in my holiday visit to Cambridge - but it seems that I was mistaken. I supposed ~~too~~ too, that you had got all of my Denderata that were to be had - & so there was an end of the matter. If Delf will take back the books I will order the same amount in other works -

I will take half a dozen copies of your Wright paper - & give you one dozen of my P. Feenout. Come - there's a bargain for you!

I hear nothing yet of Baird & know
not where he is. The printer cannot work
for want of paper!

I meant that you should keep the front of
Gibbes's new plates. That plant seems to
be well known to the mountaineers of N. Cal.
- who warned G. that it was very poisonous.
Elliott says it was ~~the~~ ^{R. prunella} which poisoned
Lyon. It ought to be figured

March 23.

Lundgren is still working in my study at
the college - & I have said nothing to
him about your proposal, till I see
what may turn up here.

Harvey's book is worthy of him. Every
one praises him, but they think that
the printing of paper are not equal
those of other Smithsonian volumes

I have letters from Parry, to Jan. 14th &
(about El Paso), Bigelow, to Feb. 4th & Wright
to Feb. 10th. You have probably heard
from Wright yourself - & therefore are posted
up. It seems that Emory started with
a small party (including Parry) in pursuit
of Bartlett (not having heard of Cassin's death
of the Commissioner's journey to Acapulco!)
but that an express was sent for him
when a few days out. I infer that
Mr. Radzinski, who arrived at El Paso
some after Maj. E. Harris, has been appoint-
ed Acting Commissioner by the Mexicans.
What is to be done with the Commission
is hard to say. The whole business has
been very badly conducted from the
beginning.
A. Graham has not yet arrived to
my knowledge.

New York. April 19th 1852

My dear friend.

D^r Hunt has agreed to send Mr
Ludgren to the Mts. of N. Carolina
for several months, & he will set
out as soon as I hear from you. Please
give your advice on the following points.

- 1) What ought to be his route - &
what is the best & cheapest way
of transporting papers - Shall he
take all his traps with him - or
forward the heavy things part of the
way by sea
- 2) What parts of the Mts. are least explored
- 3) As he will not take all the money with
him that he needs - how shall I trans-
mit the lion from time to time

4. Where ought he to establish his
head quarters in the Mts?

5. Are there any seeds or roots of plants
in the region to be explored, that you
want?

6. What will be the probable cost
to an economical man, of three
or four months exploration in the
Mts of N.C. & in the adjoining regions.

7. As Dr. S. has offered to pay all the
expenses of a reasonable compensation
for Mr. L.'s time on his return - would
\$100 be too much for the latter?

It is understood that Mr. Lundgren is
to have one of the plants he may collect - the
rest to be Dr. S.'s.

Do you know any guides whom he
could engage for the more difficult
parts of the Mts.?

Pray answer as soon as you can for
it is nearly time that I was off.

I will write again soon on other
matters - Yours ever
A. S. Torrey

It is so cold here this morning that I
cannot feel comfortable without two pairs
of pantaloons. I hope you are enjoying
yourself at Cambridge - how much I would
prefer studying physics & speaking in
your laboratory to spending a week or
two in that miserable little town of
Haverhill. With my love to
Jane, & my warm thanks for all her
kindness to dear Herbert, as well as to
myself. Adieu me, ever yours

John Torrey

St. John, July 21, 1852.

My dear friend. We reached this
place on Monday afternoon having had
fine weather all the way from Boston.
- except that it was too cold for me.
I was actually obliged to lie in bed part
of one day in order to keep warm. Most
of my clothing was in the trunk, & I
only have that I depended on while ex-
posed to the sea air. Our party ex-
pected to go on from this place, in a steamer
which was to leave on our arrival, but
it sailed earlier than was expected so they
took a wagon. I objected to go when
it would be obliged to travel nearly all
the night - so they found some other
way for me. I am to leave here for
Haverhill today. The rest of the party
proceeded in an open wagon - just as
it commenced to rain they expected to
be out part of the night! I shall (if I
get on the ground quite early enough)

This is a beautiful town, & is well situated on a somewhat hilly peninsula. The people look much like "Americans" and I suppose most of them are so. I saw however one from Scotland or one of Scotland's descent. The services of the churches are exceedingly different from ours & we feel that we were not at home.

Herbert speaks into much affection of Mrs. Gray - he really loves her & she loves him. He will often speak of the kindness of Mrs. Spring.

I have not pleasant remembrance of his visits to Bowdoin. Just now he is writing to Mrs. Gray.

I have been obliged to purchase one dozen of other articles of clothing - but I am not in despair about the trunk. If it has been stolen, then one of the young men who attend the fruit store ought to be watched

rather than, however, it will turn up, if a truly pious & especially a politician, is employed to look for it at the different N. B. Halls. As I may be required here for a fortnight, I should like to have the trunk deposited at the P. Allen Hotel in this place. The landlady will forward it to me at Hopewell the place of which -

we have a fine view of the coast of Maine as well as in the interior. I often wish myself where that I might gather seaweed. What has become of the "State B. Journal" of Maine? He has not written to me for more than three years.

The history of this region seems to be very like that of Massachusetts - but I have had no opportunity of examining it minutely.

I hope you are drawing ahead with P. Wright
of that they will soon be off your hands. Pray
send me the sheets as fast as printed. I wrote
to Perry a day or two ago & told him he must
keep his eyes open if he expects to find any
thing where Wright has been. I think he

will make some good discoveries in going west from
El Paso.

Have you heard of an explo-
sion that has been in progress for a year, in
the interior of California, east of the Sierra Ne-
vada? I am told there is such an ^{explosive} out.

Jan 7. 1846. I wish you would give to Mr Carey
for me another copy of your article in the last Bulletin
- I sent the one you gave me to Perry. Dr. Chapman
also, would like to have one

We are all as well as usual except
Margaret, who, since her recovery from Scarlet
fever has had ~~so~~ much pain in her lower ex-
tremities of in her arms. We find that there
are some symptoms of spinal irritation (not
from any affection of the bone) - but which the
physician hopes will yield in time. This,
indeed, was probably the chief, if not the
only cause, of ~~the~~ trouble with her eyes. Since
the fever left her, her eyes are decidedly

better. I we hope they may yet be fully
restored to what they once were.

I trust that you are all enjoying your-
selves. Keep the old chap busy - who will
be sure to get into his Chief - Let Dave
manage him, for he can be cooked, but
twenty men could not drive him.

Tell him that Mrs. Aunt. Carey was at our
house yesterday.

I write this at the
College, & the girls of Mrs. T. would join in
love to you & yours.

I will, however,
send a good share, which you must divide
with Dave. Carey & yourself.

Ever cordially & affectionately yours

J. Torrey

You will have Passy's & Bachelors, if there
be any among them that you want.

I greatly regret - as does Herbert,
that ~~it~~ was necessary for me to
proceed directly home - much do
I desire to spend a few days with
you - I must, if possible

go & see Bailey tomorrow. Mr.
ward of Geneva, & his children are
here - I will spend a few days with
us. Herbert will write to you

or Mrs. Jay soon. He very often
speaks of her most affectionately - &
wished to stay a day or two - but
I thought he had given you trouble
enough. Give our love to dear

Gene, - they are all at home - &
with the exception of Mrs. J. in usual
health. Ever & affectionately yours

Alfred Jones

New York, Aug: 6th 1852.

My dear friend

You will, I suppose, be surpris-
ed to receive a letter from me dated
New York - I was detained so much
longer in New Brunswick than I expected
to be, that I parted directly home - es-
pecially as I had not received a single
letter since I left there! It was
my purpose, when I left Cambridge,
to stop a day or two with you on
my return. I hope, however, to see
you ere long. - When I reached

St. John last Wednesday morning, I heard
that an accident had occurred to one
of the Hudson River Boats - but I learned
no particulars till we arrived at
Portland yesterday morning. Then, to
my horror I read the names of Mrs.
Bailey & her daughter in the list of the lost.

Poor Downing, too - of his mother-in-law
Mrs. De Wint - likewise two daughters of
my friend Kinsey of W. Point! Bailey's
heart is lacerated - dear fellow I can
hardly bear to think of his Sufferings.
Our Jane had intended to come down
the river in the Henry Clay, the day she
was burned, & had written ^(from Rockland) home to
that purpose - You may imagine
the distress of Mrs. Loring & the girls -
till they received full particulars of
the accident. It was some hours before
they were assured that she was not in
the boat. The shock to Mrs. To frame
was so great, that she has been in
bed ever since - but ~~the~~ return of
herbs & myself have partly restored
her. She is even now desiring her-
self to come down stairs.
I returned this morning. It was

so late yesterday afternoon when we
arrived in Boston, that I found there
would not be time for us to visit
Cambridge even for half an hour
before the cars left - I was very
anxious to get news from home -

Among the many letters awaiting
my return, was one from Emory, announcing
his intention to send Wright home (by
his own device) with all the botanical
collection. He was to start by the
10th of June. I may be expected
this month. I will explain to
you in my next why all the plants
are to be put in my hands first.
It is a mere matter of etiquette -
I shall, of course, put them ~~in~~ I mean
those collected by Wright - for Bigelow, &
Emory will come also) in your hands -
only asking a full set for myself.

You will remember it is $11\frac{1}{4}$ by $15\frac{1}{4}$ in.

I hope to write you more at length when I return from Princeton & get settled -

Give my love to Jane. & tell her that Herbert received the letter which was directed to him at St. John. It (with several for me) did not come to hand till a few days ago!

Yours affectionately
John Torrey

New York, Sept. 11 - 1852

My dear friend

On returning from the Catskill Mts. this afternoon (where I left all the family, except Hastings), I found your letter enclosing specimens of *Heterochera*. I have not yet had time to compare the specimens with the other *Heterochera* in my Herbarium - nor can I do so till I return from Princeton, on Friday Evng.

I left all the family well, except Mrs. Torrey - who does not improve much. Eliza, however - who was so feeble that a walk of three or four blocks fatigued her - can now bear quite as much as any gentleman

of our party. Last Saturday she went over a mountain, four miles, to a lake, & came home in a drenching rain without injury. The following Monday she ascended the highest & most rugged summit of the Catskills. (at least 200 feet higher than the Round top) & made a visit in the evening. Yesterday she went to the bottom of a deep glen & performed a great deal of very severe climbing. Madge cannot do so much as this - but she can undergo very much more fatigue than would have exhausted her in New York.

I shall not return to the mountains, unless the plans of the family are

altered. I go to Princeton & lecture two days in the week. This I shall do all the present month & then my duties there will terminate for the season.

If possible I must spend two or three days with you before our medical lectures commence. Ere long we may expect Wright with his boxes of plants, & I should like to be in Cambridge when you run over his & the other collections, which he will bring with him.

As to that herbarium paper, I have mislaid the menu. you sent me, & cannot find it just now. Make the best bargain you can for me. & if there is some person near the store where it is kept, who will cut it to my size, I would be glad to have it done.

dulged. It is quite time that he settled
down to regular study - & I think of
putting him to school tomorrow. I am
sure that Jane had enough of his company
last summer, & must have found the excess
of him rather onerous. He loves her much,
& may make a short visit with me some
time before New Year if I have some ex-
tra fees.

With my next parcel I will have some
plants ready for you from Parry's collection.
As soon as I hear from Wright - or he calls
upon me; I shall know what is to be
done with his plants. You understand
why they came to me first. It is that
Major Emory determined from the commencement
of his duty as the Boundary Commission, that
all the collections made under his command
should come to me. Wright having been, since
Col. Graham was superseded, an employe of
Major E. & in the pay of Government, turned
over his specimens to me according to the
Major's plan. As, however, you had made

New York, Sept. 13th 1852.

Dear Doct^r

Your letter of the 10th came
to-day. I had heard of Jane's
misadventure. I am glad to learn that
she has nearly recovered. It was a narrow
escape.

Short came in last week & dined
with me. The next day I was to
meet him at Princeton - but he did
not come. So I infused bidding
him goodbye - for I presume he has
ere this, set out for the west.

If the herb. paper is not cut, let it
remain $1\frac{1}{2}$ inches wide. I shall be
glad to get it on the terms mentioned, &
if Henry get some money due me in
Washington, I will pay for it in three
or four weeks - otherwise I must postpone

payment till November 1876. Henry
was here, & left our home at Fochok this
morning with Bach, for New Haven. They
expect to remain there two days, & then
go to Cambridge.

Wright sent me a letter from St. Louis
saying that he would be here about the
9th of this month - but that he should
proceed at once to Weatherfield. He
may have peeped along without stopping
I wrote to him, informing him of the
safe arrival of his boxes, & asking
what he wishes done with them.

Starkings was instructed a fortnight
more ago, to procure that copy of D.C.
prods. - but he neglected to do so - If
Wright don't want it badly I should like
to have it.

It is a shame that Starkings should
have allowed my Bot. Appx to be printed
without my seeing the proof sheets. He

repeatedly promised to do so &
I several times reminded him that
I could not agree to having it printed
without my supervision. I wished to make
several corrections of alterations. Not
a single copy of the book has reached
me yet.

Herbert put a letter into Prof. Henry's
hands for Jane - but he had not yet
heard of the message in your last
letter.

I had written this for in the hope of
sending my letter by Prof. Hopkins (an
old friend) of the Naval Academy at
Annapolis - but it was not ready in
time. A small parcel was to have
been sent with the letter - but it must
wait until Starkings goes to Boston
next week.

Herbert would rejoice to go once more
to Cambridge - but I fear he cannot be

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previous arrangements with Wright, of the poor
man has never been properly remunerated for
his services. I make no claim for any thing
but a full single set for myself. It is also
understood that another set is to be received
for the Smithsonian, & that Dr. Short, out
of this - or out of the former's collections, is to
have a liberal supply for the contribution
which he made to Mr. Wright's expenses.

Of course I shall give you duplicates of
every thing you may want from the
collections of the other botanists of the Commission.

If the plants of Wright are sent to Cambridge
they had better all be placed in one large
box, as the packers do not pack to advantage
in stages. Perhaps, however, Wright will prefer
taking them to you himself.

No news from Lundgren for the last two
months. Short enquired whether any more
money was wanted - as he was quite ready
to fork over at my word. He is a right good
soul - & we must take him again next
Spring. What region is it desirable to

have explored? If Lundgren brings home
some nice collections that will be glad
to send him or some other botanist out
on a new expedition. Perhaps Southern
Florida would be a good field.

When you sent those last numbers of
the Proceed. Bot. Soc. N.H. there were
some duplicates which I have laid
aside to be returned. No. 11 of the
last Vol. was not sent. Why did
you send me No. 47 (Vol. V.) of Proceed.
Amer. Phil. Soc.? I had it direct
from the Society long ago. Perhaps it
was put in the parcel by mistake
- & I shall return it to you -

I send you from my herb. a *Fraxinus*
n. sp. - from the mountains south of the Bon-
gary line in California - collected by
Perry. Also another species from the
upper series - found by J. Bigelow. The
latter is probably in Wright's collection

Sept. 14 I failed in getting off my
parcel by Prof. Hopkins yesterday. but
it was of little consequence.

What time may I expect that herbarium
papered? I hope to have a great number
of plants gone down before spring.

In a letter from Bigelow lately received
he shows sensitiveness in not being credited
for first obtaining the seeds of *Kobresinia*
- but I told him that I was probably to blame
as I may have omitted to state on the label
that I gave you, who was the collector. Please
remember this in any future notice you
may take of his plants. His name is
J. M. Bigelow - not J. H. - as given in Pl.
Wright. p. 89. [Dr. Halsted's name you
incorrectly call "Halstead"]

Yours ever
J. Torrey

67 Crosby St. N. York,

Sept. 27th 1852

Dear Doctor

I have just left orders with
the Express man to call for a
box & panier, to be sent forthwith
to Cambridge. The box has not
been disturbed. The panier contains
a large bundle of some books, belonging
to Mr. Wright. I could not get this
smaller panier into the panier. As
I now understand the matter, this smaller
panier contains three sets of plants
which Mr. W. stipulated with Major
- Emory should be reserved for the
Government. He probably selected them
from the larger bundle. If this is so,

them they are not to be placed in your hands, but to be reserved for Major's disposal. My set can be taken from there - & the Major may wish to give the other two sets - to some institution Mr. Wright is by this time with you - I will come on before our lectures commence, if possible - but

I cannot leave here this present week - so that I shall have to see you after you have visited Marquise.

Carly was here on Saturday, & seemed a little interested in Botany - especially when he saw some plants just received from California - a few odd & ends collected by Rev. Mr. Fitch a missionary. I was delighted to find the *Semomkia* among them!

• Mrs L., Madge, & Harbings have not returned yet - but I look for them in two days -

Will you please put that small parcel in the panicle, directed to Mr. Wright, in view for reaching its destination?

Let me hear from you after receiving the plants -
Yours ever
J. Torrey

P.S. I locked the padlock on the panicle with a wire, as the key was lost. If you don't understand picking - break the lock as it is of little value -

New York, Sept. 28th 1852

Dear Docter -

I forgot to send the
letter of Reichenbach yesterday. Poor
Bogenhard comes to see me, & I keep
him along for the present till I hear
of employment for him: but he is
so ignorant of our language, that I
cannot get along with him. Yesterday
I gave him some more money & told him
to employ an English teacher at once.
After a little time he may be free
to me in working on my herbarium.

Mrs. Torrey & party arrived last
evening - rather sooner than we
expected. She & Madge enjoyed the
excursion very much indeed: & are
in very good health - for them... Hark
says that tonight is with you - & I

hope the plants will soon be in Cambridge
You will remember that I paid \$12
on the three boxes - my portion is
one of the boxes - or one third. I don't
know whether Mr. Wright was intended
to pay for transportation - but at any
rate I ought not to be at the expense
of all

This morning I received a capsule
of *Spermatia*. Mr. Fitch, who found
the plant in the Bear Valley, Mono Co.
- sent some capsules to Mr. Aspinwall
the great steamer proprietor - & I wrote
to Mr. F. desiring him to send me of
them some if still in his possession.

It is about as large as the pod of *Hibiscus*
lyracius. but there are no seeds -
- though many that are abortive. Mr. F.
says the ^{ripe} seeds are about two in each
cell & that they resemble those of
the ochea

— On reaching the College I found the
boxes here still - although Mr. Aspinwall
entered them in his book, & said he would
certainly call for them. I slip this
letter into the paper.

Yours faithfully
John Torrey

Carey has just left me after an
hour's talk - He is coming to
work at the College next Monday
if he has not the rouffley work

We are all in our usual health. As yet
the weather has been so warm that fires have
scarcely ^{been} kindled, except early in the morning
& at night - You know we must ex-
pect deck feet. Thus far we have not
tried our house in the winter, but I think
it will be comfortable -

Nothing has been heard from Lundgren since
last spring - I am now much concerned
about him. He could hardly have stayed for
several hundred dollars we owe him - &
he was under no obligation to remain longer
than two or three months. Besides, he left
a trunk of valuable articles of papers in
my possession. Dr. Gibbs is endeavoring
to trace him through the mountains, by means
of his friends there.

Dr. Bogerhard is looking up a little. We
have filled him out with some articles that he needed.
Nert has sent him \$50. Carey gives \$5 - I am
his little apothecary shop will make quite a show
in the suburbs of Williamsburg. I shall go to see
him again soon. Give my love to Jane.
& believe me faithfully yours
John Torrey

New York, November 1st 1832.

My dear friend,

I have indeed been very remiss
in my correspondence - but you can't think
how busy I have been. Last Summer
Dr. Ellet & I planned a department of practical
chemistry to be connected with my
chair - he to take the laboring oar. Just
when we were commencing to fit up
room for our purpose, he was appointed
one of the examiners in the Patent Office at
Washington - so that I considered our project
as ended. After ~~the~~ trying the place, however,
he did not like it, & returned to the city,
just as our Medical Lectures were opening.
We then resumed our operations, & very hard
work has been necessary to get in reading
for the boys. This year we wished very
few private students - of the number is full
with perhaps one exception. Now I am more
at leisure. The College is doing about as

well as it did last year. Wright ~~sent~~
a little about my not answering his letter - but
I thought he would come ~~to~~ here at any
rate - till the President published his views
about the appropriation for the Boundary Survey.
Now I hardly think any of the party will re-
main in the field - of besides, Wright is
talked of for the Japan Expedition: Still he
will have to come here for a day or two - es-
pecially if he goes with Com. Perry.

My Henry & wife have been spending a few
days with us. They left to-day. He spoke
about Wright - & seemed to think he would be sent
to Japan:

Carey & I are overhauling the Texan &
Mexican Collections from Parry, Bujelovs,
Schott, &c. I will select some for you
to examine.

The paper came some time ago - all
right - but no bill. I am unready
to pay - but don't know the amount.
Will you ask the house that sent it, to
whom I shall pay in New York?

In a day or two I shall come to that
Lupine of the Copper Mines - (found by Bujelovs)
& send it by mail. I now enclose
the Phaca that I suppose you alluded to -
- Also a new Pentyle with naked ~~the~~ achenia
- and a singular *Frauseria* from the Gila - found
by Parry - but sent to me in 1849 from the same
country by Fremont - I have identified it among
the plants of the latter under the name of *J. deltoidea*
- It connects *J.* with *Hy. nemoralis* -

Let me see your *Bot. Wright Part II.* as far
as printed. Are you going to do nothing
with Capt. Exped. Plants?

I wrote a Wright about five or six days
ago -

I am glad that you had a pleasant trip
to Sauguit - & hope you found your mother
& all in good health.

Of course I cannot get off to see you till
Thanksgiving day - when I will try to manage
to remain till the following Monday evening

You shall have a share of them. I dub you
The character of the new Laphania - which you must
comely
Laphania deflexa, n. sp.

L. puberula pubescens, raris; caulibus e
basi ramosis, raris ad apicem usque foliosis
monocephalis; foliis plerumque alternis
subrotundo-cordatis pedato-nerviatis, seg-
mentis oblongo-linearibus; Capitulis circ.
20-floris, ligulis nullis, Setae pappi
subum corollae disci appaente, vel plerum-
que nullae. - Breviser prostrata in
montibus near Presidio del Norte, August
2, 1852 Dr. J. M. Bigelow. Stems 3-4
inches high woody & branching towards
the base; the branches erect & simple. Leaves
scarcely one third of an inch long, cut into
numerous narrow segments. Heads 4-5 lines in
diameter. Scales of the involucre about 15. Setae
nunc hispid in the margin, the disk nearly
glabrous, blackish when mature. - This spe-
cies belongs to the *Laphania* series of the second
division of that section, as characterized by Dr. Gray
in Ph. Uniflor.

Eliza has, I believe, been writing to Jane -
give my love to her - I hope to greet you both on
Thanksgiving Day - Yours ever J. Torrey

New York, Nov. 30 1852 -

Dear Doctor

Your letter of the 3rd inst came to
hand yesterday. Wright came the day before
& he & Carey have been working very hard
ever since - I helping them as much as
possible. We are consolidating all the collections
of Bigelow, Schott, ^{Woodhouse} & Parry - together with those
which we brought last (which are smashed so as
to ruin them) & laying them out in sets.

I surely did not mean merely let you ex-
amine such plants of Bigelow & others, as you
might want - You know that I always
share with you - & give you my best dis-
plications. I only meant that I did not
intend to send what you had already of, or
could not want. Wright will be
able to sell what you would like. Tomorrow,
if possible we will select from the earlier fam-
ilies such as you need for immediate use &
dispatch them by express - the others to follow
as soon as we can lay them out.

I did not send a name for that *Aquilegia* be-
cause, after a reexamination of it I doubted if it were

Distinct from Leptoceras. When I go to the
College in the morning I will write a character of
the new Saphania, & also send the locality
of the Aquilegia [Oregon Mts. Byelow & Barry, May. 1852.
Wright is staying with me. He talks of going
to Cambridge when he leaves here. I shall need
him but three or four days more - If you
don't want him say so. He waits to hear
from Washington before he decides whether or not
he will return to the Boundary line. Baird has
been corresponding with him about going out
on an expedition to the Pacific Ocean - the
Northwest Coast generally & wintering at the Sand-
wich Islands - I had thought it was the so-called
Japan Exped: that he was to go in.

Albion has just come in from Short, enclosing
me from a Dr. Hardy of Asheville, from whom
Lundgren borrowed \$80. I have not received a
line from him since last May. - In June I sent
him \$100 - & the certified check was certainly
received by him & registered - for it has been
returned to me with his endorsement - paid - He
knew that more money was waiting for him -
& he could not have ~~been~~ written to me repeatedly
& all his letters have failed. One would suppose

he would keep writing till he received an an-
swer, rather than borrow money of strangers.
He has not written at all to Dr. Hart - although
he promised to keep him advised of his
movements, once a month. I cannot un-
derstand the matter. Last August (about
the 20th) he left Asheville for Cherokee Co.
& was to return in three weeks - but nothing
has been heard of him since. I have
written to Dr. Hardy & also to Dr. Gibbs, to
try to search him out through their friends
in the Mountain region.

I sent one of the family to see Brogenhad
again yesterday. He is in pretty good
spirits, & hopes gradually to get some busi-
ness, as his shop will make a respectable
figure when his new traps are finished.

Nov. 6. Casey did not come in till late to-day
& then not to work - He is probably going to leave
the County - as he has briefly informed you. Partic-
ulars next week. His absence has prevented my
getting your parcel ready in time for the express -
but we hope to dispatch it on Monday. I have
some plants coming from Dr. Wakenhouse, collected
between El Paso of the Pacific - many of them, he
says, in places not visited before by any botanist.

those you Cherokee - from whom answers
maybe expected soon.

Mrs. Torrey thanks Jane for her kind in-
-vitation - & hopes to make her a visit in
town as it is pleasant to know - next
season. The 3 other girls send much
love - & I add a good-bye - Thank
her for all her care of me. She is a
good wife, & a very warm friend -

I forget to pay Shalton for taking
my baggage to Boston - & am now
obliged to send stamps - You can
cash them for me.

Yours affectionately
John Torrey

New York, Nov. 30th 1852

My Dear Friend

I visited the Jewells in Boston
yesterday morning & next called on Mr.
Hager - according to agreement. We had
a very pleasant time together, until the
cars left for Stonington. Having secu-
-red a stateroom, I had a quiet & refreshing
sleep - board the boat, & reached home
this morning. The party from the fair
returned last night - all well.

This morning Wright presented himself
& dined with us. He spent most of the
day in arranging plants at the College. This
afternoon he left to report himself at Wash-
ington. He thinks they will need him there
but a few days - after which he hopes to
make you a visit.

I enjoyed my visit to you house
very much - & am now in good health &
spirits.

The girls, Harbings & Lebest had a jolly
time in the Dories.

I see by the evening paper that you
had a grand prospect in Boston to-day.
Exclusive preparations for it had already been
made before I left there.

Don't fail to send me the Plants of
Plant. Wright as fast as they are wanted
off. Let me know if there are any
families of which you desire sets. Remem-
ber I am ready to send anything you
ask for to the end of Confederation - or
beginning them if you wish. I don't like
to trouble you with a complete set -
& yet one don't know what may be useful
to you. If Carey had remained

a fortnight longer I should have had
all the collections ready for study &
distribution - as it is, I have
them all in families, so that I can

put my hand on any genus in half
a minute - but they are not in complete order.

A letter from Short has just come in.
It encloses another from G. S. E. Hardy of
Asheville - from whom Lindgren borrowed the
eighty dollars. It contains no later
information from L. but gives some par-
ticulars as to his movements. Truly odd
was borrowed about the 11th of July, before
going to the Black Mt. & fifty more after
his return - on the 9th July - 3 days ~~later~~
after which he "expedited" with the vote
down the French Road to the Warm Springs
& then on to Cherokee County - & back
to Asheville - to be gone four weeks."
It seems, however, that the free negro
boy who drove him, took him to Knoxville
ville in Tennessee! Why he went there
D. Hardy cannot tell - as he had been en-
gaged with packmen & vicariously for his
journey to Cherokee Co. Not a word has
been heard of him since he reached Knoxville
- but letters have been addressed to persons

New York, Dec. 31st 1852

Dear Doctor -

What do you think! The printer sent a revise of H. Fremont. to Baird, who has put back the smaller type all those words that we decided should be in large letters. He has also put "Torr." as well as "Nov. Gen." after each generic name which alterations I shall not agree to. I have accordingly written a strong letter to Henry protesting against Baird's interference. Had I not put the Smithsonian to the expense of the plates, I would break off, & refuse the paper, rather than submit to what I disapprove of. As to uniformity - which he talks about, there is nothing of the kind in the

Smithsonian publications.

his morning and the Californian
of whom I spoke to you - the man
who had made drawings made from
dried plants - promising with leaves
those of which his specimens were
described. He had been at

the American Institute, studying
the old fossils with a long account
of a nutmeg tree from the Sierra
Nevada. Among his specimens I

found one a Taxoid which I suspected
his nutmeg to belong to - I believed
I was correct. Immediately I done
with him to the Institute of found
the seed. It is that of a *Torreya* -
probably quite distinct from *T. taxifolia*.

I have the only specimen ... a branch
of two seeds -

I have also a pod, with two seeds, of the
great-rooted Cucurbit. of California - no
doubt a new genus -

Yours truly J. Torrey

never made a note of it - having
turned over all the pecuniary matters
to you - I had even supposed I might
be in debt to the Flora - & expected
an call to pay what might be 'due
as my share' ^{& left} in the early number.

I wrote to you that Baird had put back
all our alterations in Pt. Fremont. I wrote
a remonstrance to Henry, telling him it
was too bad to be crossed in these matters
by one who was a man never in scientific
possessing. He wrote an answer which I
recd. to-day. My letter to him had been shown
to Baird. He says it is important to be uniform
& that the names of Gen. & Sp. should always
the authors initials appended, otherwise it would
not be known who was authority for them. I told
him that when another publishes new plants
that such as were marked "Nov. Gen." or
"Nov. Sp." were presumed to be his own
& that it was superfluous to make the
addition of the author's name. - That
it was not done in the botanical
papers already printed in the publication

New York. Dec. 11th 1852,

Dear Doctor -

I am a little concerned to
know whether you received my letter
containing a check for \$100 -
sent on the 10th inst.

Wright came here on Thursday, &
left last evening - on his way
back from Washington. He will
visit you - next week -

I have a letter just recd. from Ojelski,
it seems that Maj. Emory is dispo-
sited that Wright made over the
plants of the last collecting to be
published as a mere appendix to his
former works. He wished to have
them published as part of the fruits of
his services. I can set the matter

straight with him. He will require
three sets of what Mr. W. collected
while on his journey home - as he
was still under pay as his assistant
So you will remember this in dis-
tributing the collections. It is of
little consequence to me - but I
wish to satisfy the Major.

Aletha has just come in from
the Boundary - The date is Nov. 15.
There was nothing said about their
closing operations. Probably the survey
will be continued down the Rio Grande
to its mouth - & the survey of the
western line be left till Congress
acts in the matter.

I have ascertained that Lundgren
reached Knoxville in Tennessee, & left
the next morning for a small town
about 30 miles below - do that he.

has probably slipped for Alabama
- & we shall not hear of him again

How many plants of Unguit (II) will
you figure - & what will they be
I have you out some more sheets for
me? I have nearly all of his
plants to end of Camp. glued down,
with to distribute them in my herbarium

Your letter of the 9th arrived after I
had written thus far. I am glad
that Mr & Mrs Loring had a good day
to embark - Yesterday, however, was
stormy - but those noble Steamers are
proof against any but the roughest weath-
ter, & I suppose you have no fears
as to their safety.

You permit in referring to late what
I owe you - or what I make no claim
to. As to the outlay for the Flora &

Contributions - pointing out several instances in your Pt. Wright - Also that if the genus were new & marked as such, it was superfluous to add "nov. sp." to the specific names - citing you again. I likewise explained to him that our papers were different in their plan, & ~~the~~ consequently it was not essential that ⁱⁿ the disposition of the matter, size of capitals &c. there should be an exact agreement. Indeed I was not a little annoyed at the cool impudence of Baird, & told Henry that the zoologists had a great deal to learn of botanists in matters of scientific printing. It is really just of a piece with the dictation of Wilkes. I also informed Prof. H. that if I could not have the paper printed according to my mind, I did not wish any extra copies from

the Smithsonian, but would get the printer
to set up the types as I wished, & pay
for my own copies. As soon as
I get his reply (My letter to him left
here today) I shall proceed with the
printing & send you more proofs.

I think there is another species of *Bom-*
bucace with an androecium like the one
you describe. Look in Endlicher -
(I am at home, where there are no botanical
books) & see if it be not there. Although
I contended for Kunth's theory - yet I never
seriously thought of adopting it - or I
should have described *Fremontia* differently.
By the way, I have just received five
seeds of *Fremontia*, & I send you one
of them. It is fresh, & will probably
grow. I would give you one or two more -
but I wish to draw them, & shall have
to cut at least one of them to show the
embryo. Try & make it grow.

I suppose we shall get letters from Casey
by the next steamer - as he promised to
write as soon as he arrived

Monday. If you will send that money
back - you need not go so till near the ^{beginning} of
May next - for I should only use it to
pay my rent - & it would be useless till
that time.

Who is Jas. W. Ward Esq.?

Give my love to Deane, & believe me
as ever, affectionately yours,

J. Torrey

There is a new *Sclinosaurus*, among Parry's plants.

You have probably heard that Thurber remains behind, at San Antonio, where he acts as quarter master to the remainder of the Surveying party, & in charge of the property of the Commission. The Commissioners will have nothing more to do in a few days - He has directed Schott (now in Washington) to turn over all his Collections to him. Indeed he has forbidden all the employees to publish anything until the general report is ready! What a pity he was not obeyed. He will probably send an order to me when he hears that I have the collections - but I should like to know how he will get them.

I cannot account for the delay of the printer in not sending me the remaining proofs of my botan. paper. He has had all the copy a long time, & I have urged him till I am ashamed. Perhaps he means to punish me for my neglect. As soon as the weather is milder I hope to pay you a short visit. We are all as well as usual. Saml. Carey has gone home. He is doing well, with a prospect of gaining the use of his limbs. His face is badly scarred - much love & care for all the family! - Yours affectionately J. Torrey.

New York, March 12th 1853.

My dear friend

Surely you must think hard of me, & I know that I ought to have written you many letters within the last five or six weeks - but I have been sorely pressed for time. I did not wish to write till I could send a long letter - but to do this was out of my power - Very unwisely (but, as I thought, for the best!) I took a number of private pupils, to work in the laboratory during the winter. There have been far more plague than profit to me; for they used up a great deal of my time; destroyed much apparatus & materials, & brought me very little money. Then I have had some jobs in the way of chemical investigations - these have paid pretty well. Every day I hoped to find some time for correspondence of Botany - but every day was disappointed - At last we have finished our five months work, & commencement is over! My lectures

at Princeton will be easy enough. I can easily leave here after breakfast, & Delain has lectures the same day, returning at night, if necessary. Some weeks I shall occupy two consecutive days. This will leave me at least five working days each week for Botany.

My landlord sold my house & the new owner asked \$1000 a year rent! We were intending to remove next May - as the street is filling up with bad houses. While looking out for new quarters, we unexpectedly found a house for sale uncommonly cheap - even for these dear times - so we purchased it.

It is in St. Marks Place (E. 8th.) near the W. 11th St. - a very handsome 4-story house with high basement & brown stone front - finished throughout in the best manner, with water apparatus, gas (to the attic!) & bath - besides warming furnace &c. The price was \$10,500. It cost the owner (who wanted to leave the city) 13,500. He gave in the bargain (what are usually removed & sold separately) all the gas chandeliers &c. I propose taking the whole apparatus for herbarium

and study. The annual expense will be no more than the rent I pay now.

All the Mexican Boundary plants have arrived & Parry is here helping me sort them. I shall have a great deal to write to you about them soon.

The copy of Pt. Wright (II) came safely & I greatly enjoyed the study of it. The check & draft were all right -

Parry brought some seeds, which have been divided into six sets. Two of the best I shall send abroad - one to Hooker. The other to Dupren. Do you wish a set? There may be some among them that Wright did not find. This afternoon I picked a few ripe seeds out of that Rutaceous or Zanthox. little shrub, with digitate leaves. You shall have half of them. No flowers of it were found.

Parry brought two or three very good specimens of *Heterosperum decanocarpum*, a flower. It has several very short ray flowers, which are inferior; the disk flowers only bearing achenia. There are usually 4 of the latter, two with long recurved awns, & two with ~~the~~ awns of scarcely curved.

Ps. Eliza has just gone to look over her
bundle of reviews for the no. of N. Am. that you
want - If she finds it, I will forward it by
mail - I am ~~stopping~~ ^{stopping} to go before this is
ready -

I hope you will find out from Rodney's
letter what is to be paid for the Fl. Brazil.
I see in it some joggery - but don't know
what they mean. I long to see my papers.

How shall I send your seeds? Probably
Wingate had the most of them - but
what you don't want can be sent
abroad.

Shubert has sent me (by my request)
his *dequens* type. It is excellent -
much better than yours

I wrote you many about the *Heterosperma*
~~of~~ *dicranocarpum*, now send the rough sketch of
the analysis which I made when I examined
the plant. The disk-flores are ~~only~~ ^{staminate}
only. of the rays fertile.

New York, March 19th 1853

Dear Doctor -

Your letter of 17th came to
hand this moment.

Unexpectedly an opportunity for London
occurred this morning, & I have dis-
patched the seeds for Hooker. They
were taken by Rev. J. D. Abbott. He
expected to leave London in a fortnight
after reaching there - & to go direct to
Paris - so I send *Jussieu's* seeds also.

The letter of Rodney to Green, & yours
to me, I put, long ago into Harkness's
Grant's hands. Joggery occasionally
on the subject. He called repeatedly
on Putnam "He" said the books had
not come - It seems, however, that he
let them slip through his hands. I
got the letters back only yesterday.
Eliza & Jane cannot read the German
writing better - although they read very

totally in Roman characters or seen
in printed German letters -

I send the pod of a *Chaetocarya* that
seems different from your *C. Wislizeni*.
Parry found it on "Mt. Carmel." The
plant is a climber - a rather twining
The terminal joint is far more leafy
than in your species. The leaves
in Parry's are oblong, the Roman
in much longer stalks

It appears to me you have been led
into error by Mr. Wright as to the
leaves of *Fouquieria*. The spines are not
the petioles of the primary leaves. If
you soak a specimen carefully you will
find a deep groove on the upper side of
the spine, in which is lodged the long
petiole of the leaf. but there is no
organic connection between them.

msd

I thought that I explained this
matter to you last ago.

Parry is working in my plant room
every day - but he is not so efficient as
Wright. It is probable that
Emory will go back & finish the survey
of the Rio Grande. I am

training one young pupet, a young
graduate of a fine fellow - to
go out, on some expedition. Perhaps
Capt. Maney will take him. He
(Capt. M.) expects to leave for the
Salt Lake next summer - Under
them - of them expect to the
S. West - There will also
be parties on the survey of the
R. Road route. They will all
help botany

Yours faithfully
J. T. Parry

over

that his home till he sails - which "they say"
will be next Saturday: but I doubt if he
sets off before next week.

= The new glue works beautifully. The addi-
tion of ammonia has completely neutralized the
acid, so that it no longer discolors the paper -
- "loses the adhesive quality" & the liquidity
remain unimpaired

By an accident I lost the specimens of
your *Torchromanes Petersii*. Perhaps you
can spare me a little bit more. It is
very curious that two species of *T.* should
have been found in Florida.

= Wright hopes you will send him a letter
before he sails - & also a copy of your paper
on *Nyctagineae* - & any other of your "Sci-
entific" articles that you can - spare -

I have a long letter from J. Carey - rec^d today
You will see that he is not likely to do any thing
more in Botany. We have not heard from Saint
C. for more than a week.

Tuesday afternoon. I hoped to hear from you
today but have been disappointed. I expected a proof

New York, March 19th 1853.
(evening).

Dear Doctor,

I wrote to you by this afternoon's
mail: & said that Eliza was examining
her stores, to find the number of the *Marta*
Amer. Review that you wanted. You thought
it was No. 120. She has it not - The
only ones in her possession (if she is prob-
ably she they are all you ever sent her) are
Nos. 122, 123, 125, 127-30. Of course
she will promptly send any of these that
you may want.

I am experimenting with a new
kind of glue, that remains liquid at all
temperatures above 40°. & is decidedly
stronger than common glue. It is
the "French Liquid Glue" that has been
much wanted for some months past in
our large towns. It is prepared by
soaking, for a few hours, good glue in 1½
times its weight of water, & then melting
it by suspending the vessel in boiling water.

The servant who went to look for Mr. M. Amey
brought me two numbers - there are

131 & 153

Then add strong nitric acid to the amount of $\frac{1}{4}$ the the weight of the dry glue. Effervescence will take place, with the escape of nitrous fumes. Let the glue stand for two or three days, & it will grow more & more liquid. The original material undergoes a material change by the addition of the nitric acid. The only objection to it for gluing plants (at least on our paper) is, that the slight excess of nitric acid takes the blue tint out of the paper - but the plants stick very strongly. To day I tried to remedy this defect, by neutralizing the acid with ammonia. Some plants glued with the modified article were laid aside to be examined on Monday, - when I hope to give you the result. It would be a great convenience to have a strong glue always ready for use - one, too, that would not gelatinise before the specimen could be adjusted. You know how at the plants are to separate from our smooth paper, unless the specimens were laid down

while the glue upon them is yet hot, or at least warm.

I am getting along nicely with my herbarium. Mrs. Loney gathers Down 60-100 plants (I mean sheets, folios-) every day.

The printer has not yet resumed his work on my paper - He told Marking that I had made him wait - & thus hinted that he was punishing me for my negligence; but he rather thought it was about time to get it off his hands. I would let me have a proof soon!

Do you know a High Ditchman named C. H. Schultz, captain; living at Deidesheim? He wishes some of our Compositae; & says he has some of mine, that I formerly sent to Sprengel

Monday afternoon. Wright has just made his appearance, in a naval frock coat, with brass buttons & a smart cap stuck on the top of his head! I did not know him at first. He has been on board his ship, & will make

The new Commissioner is not appointed - but
there will be one. This this matter is
arranged you & others of the Board of
Commissioners will get no treasury-pap.
You know that money was appropriated
to settle Maj. Emory's accounts.

We are all living in our old way - &
will be glad to see you on your way
to the ship -

As ever,
Yours truly
John Torrey

New York, March 19th 1853

My dear Sir,

Your letter reached me when I
was exceedingly busy in examining stu-
dents, & in closing up the accounts
of the Med. College. Last week
we set the young doctors a drift, &
now I am already hard at work on
the plants.

You are still ashore, - & I don't
see any prospect of your sailing
very soon. For one of your active
habits, it must be rather dull busi-
-ness to remain at home doing little
or nothing - at least, nothing to you
take. You must not, however,
expect much better times at sea.
The opportunities for collecting will
be few & far between - When

you have never yet a stock, there will be something to study - especially as the Govt. has been pretty liberal in furnishing the ship with books.

Dr Parry is working every day at the College, affording his plants, & incorporating ~~the~~ recent collections with those which you overhauled. We have also got a quantity of good paper - & stiff covers for Geneva with paste boards for tying up the bundles. By putting them in good condition, & making them easy to handle; the study of the collections will be far pleasanter, than to have them stowed away in clumsy unsightly heaps.

I forget whether I told you that I had purchased a house, & had ap-

propriated a whole story in it to my herbarium. Perhaps you may see the new arrangement before you sail. I wrote pretty often to Dr. Gray now - I have quite reformed my habits.

Several expeditions across the country to the Pacific will probably be made this year. The routes for a rail road are to be surveyed, - & something will be done for Dr Parry. We are keeping a good look out for our side

I have examined H. Wright with much satisfaction. Indeed it is my daily study - for I have had your full set of plants glued down, & am studying them by constant reference to Dr. Gray's descriptions & notes.

No direct news from Maj. Emory. He is busy, however. & will probably go out to finish the survey of the Redoubt

is the best I ever had & I have an
excellent window for the manuscript.

Herbert says you promised him a
few plants for his garden - but it is
now too late, I fear. Still if you
can spare him a few roots, he
might be sent in a box by express
to me here, 96 St. Mark's Place. I
enclose a note which he prepared for
you some days ago.

How fast, & how far will you go
with your Sept. Exped. volume? Has
any thing been done with Brakenridge's
ferns? You will have the edit. that
volume. It needs considerable time
being yet.

I long to make you a visit, & have a
copy time with you & dear Jane in
your snug little study. Much of my thoughts
are with you. We are all in our usual
health, & hope to see you in the course of the
season. Much love to Jane
J. Torrey.

New York, May 2nd 1853

Dear Doctor -

I have put up three seeds
of Parry, & have added to them about
50 more just received from Dr. Bigelow,
& a few that I have taken from
the specimens of plants brought by
Parry ~~Herbert~~ & others. They shall be
sent tomorrow by Express, as they may
be too late if kept longer -

Long ago I finished what I had
to do with those ^{Smith's} memoirs, & I hope
to receive, when Baird has leisure, the
copies that were promised me.

Mrs. Torrey received a letter from J. Gray
yesterday. Perhaps you also have heard
the news about the old chap! What do

Dear Doctor - Do you know anything about a paper by Arnott on *Calobrychis*,
pubd. in an Edinburgh Journal, which, I believe, was early discontinued.
If I mistake not it was called the *Edinb. Botau. & Phys. Journal*. I once
had a copy of the paper, & have quoted it in manuscript, in the
margin of my copy of *N.Y. Flora* - but cannot find it. No author
that I can refer to quotes it. Austin is eager to see the paper.
Have you Nutt. Pl. Garb.? You have not quoted it under *Pleurozium*, in
Parry's Plants. The *Elephocaria* are there described as *Cilia* - Sect. *Elepho*
genae, J. Torrey.

of my *Batis* article, of which I desired the
privilege to send you a copy in It is not done
- & so I forward one that I have just run
over - Please return it as soon as possible
Yours ever J. Torrey

you think of his going to be married to
his partner's daughter - a young lady of 26!
He has seemed wonderfully jishy of late
& now we see the cause of his high spirits!
I rather expected something of this kind.
This, I fear, will be the end of his
travelling. I sincerely hope the change
in his condition will promote his happi-
ness - & I think it will do so, if the
young lady is all that she is said to
be.

Wright called yesterday to say farewell.
He was to sail this morning for
Worck, to take on board some instruments,
&c. I am really glad the good
fellow has gone - for he has been most
annoying for some weeks, & has been
quite a bore. He & Parry caught me
the top of many hours. They were
extremely difficult to subvertain, & annoyed

me when I was at work by overlooking
& hanging about me. Schott spent
about ten days with us before he left
for Texas - but he is a most entertaining
& agreeable man. I wish you had
got acquainted with him.

I have put up a specimen of that
Scroph. from Texas, for Bentham, & shall
send it in a letter by the next packet.
Do you like Bentham's division of Scroph?
They are not very satisfactory to me - but
it is very difficult to define sections in a
family that is so natural as most of the
Scrophs.

I have a very kind letter from Hooker
he had received the seeds that I sent by
Mrs. G. Abbott.

My herbarium is now conveniently arranged,
& I am getting the new papers lined
up pretty fast. The new plant room

New York, May 7th 1853.

My dear Mr. Wright.

At a venture, I shall send you a few lines, thinking it probable that you have not yet left Norfolk. I have procured for you an additional volume of Knuth's *Enumeratio*, which shall be sent to day by express to Norfolk care of Capt. Ringgold. It will help fill up the gap between the end of *Alaudale*, & this work.

Nothing of moment has occurred since you left, except the dreadful rail road accident on the New Haven Road - I lost some excellent friends, with

when I had recently been spending
happy days. Many physicians also,
who were returning from the great Con-
vention in New York, were drawn.

I am working daily on the Boundary
plants of Cape (D.V.) to make a
good report on them by the end of the
season.

Major Emory & party must have
arrived in New Orleans by this time - &
perhaps Parry has joined them. Be sure
to see "Terima" at Davenport.

You must send letters whenever you
have a good opportunity. It will
always afford me great pleasure to hear
from you. Let me know, from
time to time, how I must address

you. Perhaps you have learned
what will be your route, & at what
places you will stop. I believe
that it is customary a dispatch
bag's always open at the Brooklyn
Navy Yard. - Those are sent as
opportunity offers. I should be glad
to be spared, however, whether my
letters to you had better be
sent in this way. I shall

keep you informed of all that occurs
in the botanical world. As to
ordinary news, you must depend
on the papers - which will doubt-
less be sent to the ships by every chance.

Yours very truly
Wm. Torrey

We are now all at home but about the middle
of June it is probable that most of the family
will go into the country. I purpose remaining
at home, except on Sundays, & a part of each
Saturday.

I have been studying the genus *Callitriche* a
little. ~~Isotria~~ Where has Kuntzinger described
the species? Has he published any thing on the
genus since the article quoted by Rudolphi (in
you)? Have you a copy of Arnott's paper?
What is the date of the volume in which it is
published? His *C. pedunculata* must be later than
Nuttall's (in Trans. Am. Phil. Soc. 5 (1828)). The
fruit of *Call.* is hardly a capsule - but consists of
4 cocci, which separate at maturity.

You do not inform me whether you are to
superintend the printing of Brackenridge's volume
& when it will go to press.

Give my love to Jane, & tell her we all
join heartily in the desire to have her come &
see us before the hottest weather is upon us.

Yours
John Torrey

New York, May 12th 1853

Dear Doctor -

Herbert was delighted with
the box of plants that you sent him. He
planted the whole immediately, & they
are doing well. Our little garden
will not hold much more, for we had
some good grape & other vines, as well
as some bushes. He will thank you
himself very much but the little fellow has
not much time for correspondence or for
recreation. He studies hard & is doing
very well at school.

I enclose you a letter which I received
from Wright, just as I was leaving for
Piscataway on Tuesday. It seems that his
vessel is a very poor sailor, & I should
not wonder if further delay occur in
a long time, or in procuring another ship.

Harbert says you thought it probable that
you might run on here for a day or
two. Pray do come, & let me know when
to expect you. If you don't come here
I may look in upon you at Cambridge
for a few days - but I cannot well
leave until after Tuesday next.

These recent accidents make one almost
afraid to venture by rail. I felt
the last sad one very deeply, as two
of the ladies (Mrs & Miss Robbins) were
much esteemed friends, whom I saw a good
deal of the few weeks previous to their
loss. They were mother & sister of Mrs.
Dr. Schank of Princeton, with whose house
I usually stay when I go on there to
lecture. I was walking with Miss Robbins
in this city a day or two before the accident.
The other mother were truly pious persons,
as we have reason to believe, & their things
greatly diminish the sorrow caused by their

sudden departure. The mother, at the
request of her relatives in New York, had
been retained here, to sit for her portrait.

May 16. I kept back my letter hoping to hear
from you, but I will wait no longer.

I have just received a letter from Parry. He was
taken sick on his way out west, & is still quite
feeble, waiting at St. Joseph to learn the result
of his application to Major Emory for leave of
absence - or even to be excused from joining
him at St. Joseph. He very reluctantly consented
to go out again. The work to be done on the
Boundary survey is chiefly on the Lower Rio Grande,
where the botany is comparatively uninteresting.
What will Thurber do with his plants? He is
hardly able to work them up alone, -- & besides,
Mr. Bartlett will never get an appropriation
for publishing an illustrated report.

Of course we expect you to bring Jane along with
you. It will give us all so much pleasure to
see her, & our present home is more comfortable
than we are so occupied when you were here last
time.

So you have had a visit from Sir Harford
& Lady Bridges! I shall be much pleased
to see them on their way home in the
autumn.

How long before Benthams will return?
Would he not like a fragment of the
Smithia speciosa?

I have Harvey's Propector, I would like
several hundred of his ^{say 300} *Algae*, but don't
see my way clear as yet, for a full
set. Perhaps I may get a windfall
of take more; if they should not be all
engaged when I am ready.

I received a letter from Parry today
he was still at Davenport Iowa, &
was waiting for orders from Mr. Emory.
He had quite recovered from his sickness.
He says that a scientific friend of his

New York, June 17th 1853

Dear friend
Lans. of the 13th came
to hand as I was about leaving for
Ponceston, & I go there once a week
of lecture on Botany: giving two
lectures a day, & returning the
same evening. Next Monday is
my last for the season.

That *Smithia speciosa* don't seem to
be a *Smithia* exactly. ~~It is~~ ^{It is} ~~not~~ ^{not} ~~at all~~ ^{at all}. The other plant mixed with
it is, I feel pretty sure, a *Memora*.
I send you specimens of both. The
principal part of ~~the~~ Sprengel's description
is taken from the flowering specimen -
which, however, has some fruit on it.

You will see that Sprengel gives a very
imperfect account of it. This is the way

I understand it.

The way don't
seem to be more

than 2-ovulate

of I think the pod has

but a single
joint - It
don't agree very

well either with

Suaeda or *Kotschyia* -

but it may be the former - for what you
say. Both have joint *Kotschyia*.

I rather think it will be best
for me to finish up my work at
Princeton, including Commencement,
before I make you a visit - but I
may look upon you at any time

The gas business before a committee
of the Corporation is not quite comple-
ted, & I am liable to be called before
them almost any day within a week.

Mrs. Lovey will probably go with me
to Cambridge after the family is settled
for the hot weather at Mt. Washington,
in Mass. - where they all expect to go
in a few days. It will be easy for
her to run on from Hence. She appre-
ciates the kindness of your dear Jane,
& will be glad to spend a few days with
her -

Do you know Mr. Ward of Cincinnati,
whose prospectus I enclose? From one
or two expressions respecting nomenclature
&c. I suspect he is not a regular botanist,
but he may do some good. Will you
lend him a hand?

in California, (whom he got acquainted
with there when collecting for the Boundary
Survey) has been hard at work for many
months collecting plants. I he thinks
~~no one~~ has found so many ^{Californian} species as him-
self. His name is Randall. I shall
take measures to get a set of his plants.

Lobb (an English collector) is still at
work. He has been in Oregon, & expects
to spend the present season in Southern
California near Los Angeles & San Diego.
To whom does he send his plants?

Wright got off at last. I recd.
a letter from him just as the
J. Hancock was starting. Any
thing for him will be sent by the
first opportunity if left at
the Naval Lyceum, Brooklyn.

I ~~saw~~ Capt. Wilkes two or three
evenings ago, at our Harkness and
Spartan, I spoke to him, but
we had no conversation together.

I suppose he must love you now
very much. Do you have occasion
to communicate with him any more?

The weather is quite hot here, but,
you know I bear the heat like a Sol-
amendax. In my study it is
rather warmer than below, but not
insufferable. The greater part
of the season I shall have a great
advantage in being so near the sun!
Of at all times I have such a
fine light for the microscope that
I would not give up there apart
for any other in the house -
With much love to - dare, I remain
your ever
John Lorry

Days. Henry is a fortunate Clerk
to bear off so fine a prize. He is
a partner in his brother Wm's house
& is making money fast.

Holton is expected home before long
I have many excellent specimens
of plants collected by him in New
Granada, & hope to get a set of
them on his return. Could he

dispose of two or three sets of
duplicates in Europe? There
may be five hundred species

Yours ever
J. Torrey

New York, June 24th 1853

My dear friend

Yours of the 17th we must
have copied my last to you. I
sent you two or three plants for
your opinion; but have not received
your answer

Don't Baird neglect me sadly, in
keeping back copies of my papers?
I don't mean to ask for them
again. It is probable, however,
from a remark in Henry's last letter,
that I shall receive them in a
day or two.

I fear it will not be possible to
get a copy of Cronq's Catalogue.

The whole edition was forwarded
to his brother - brother-in-law,
to whom I furnished a list of names
for distribution. I will try, however,
if see what can be done.

What is this *Lemna*? It is from
the headwaters of the Red River. The
Caps. is 10-valved. } the styles are
free to the base. I don't like
Engelmann's working up of the N. Am.
species of this genus.

Mrs. Torrey of Newbury stands
yesterday for Copake, of the
girls, with Mary Hewry, with follow
on Monday. I may not go till

after the 4th July, after which I
like to see you.

The weather has been unusually
hot for a week or more until
to-day. The three coroners have
had their hands full; in consequence
of the number of sudden
deaths from the excessive heat.

In my study the thermometer
stood some degrees above 90: To-
-day it is only 78°!

Did you know Henry Shaw? He
was married to a fine girl Miss
Brett of Middlebury (sister of
Mrs. Aspinwall of this city) last
Wednesday. He will probably
call at the garden in a few

The plant, it seemed to be pentandrous -
- but afterwards I certainly found the flowers
in the spec.^{im} exaud. & androm. It must
vary there. On looking at the
characters of *Theropetalum* they agree
pretty well with our plant. Have
you any of the genus in your herbar.
I have been examining my old plants
the Euphorbiaceae with a good deal
of interest. You have a *Dactyloph.*
- a plant of an allied genus in
Wright's last coll. - which Emory's col-
lector did not get - & they have
two not in Wright's - or at least
in my set of his plants. Has any
one been poking into Euph. since
Klotzsch? Can you identify *Scheelea*
new Euphorbia? Can that *Mezium*
be M. spatulata? I have a
great deal to talk about when
we meet - of some quadratics to
discuss. I am all alone
- for I scarcely see Harkness - he is
so little at home - Much love to Dana
Yours affectionately J. Torrey

New York, July 13th 1853

My dear Doctor -

Your letter of Monday came to
hand yesterday afternoon - & of another
one of yours has been waiting unan-
swered. I hoped to get off to Cam-
-bridge & back ago or near, but
have been detained by some work
for Uncle Sam - I am analyzing the
water for supplying Washington City
& making rept. as to its action on
lead - besides this I am investi-
gating the properties of the stone used
for enlarging the Capitol. Now
as I shall get me a two hundred
dollars for the job - I cannot afford
to let it slip out of my hands - It will
I trust be finished this week. To-day
a gentleman handed me a \$100 bill
for a little chemical advice which he
said was of great advantage in his business

Mrs Torrey was so poorly & longed so
much for a little retirement from
all care, that she accompanied the
girls to the country some days ago -
& will have to defer her visit to
Boston till she is stronger of the weather
is a little cooler. We have a quiet
place in Berkshire Co. near the N. S. line
There are two houses close together -
one of them we occupy exclusively -
& in the other two of the girls
lodge - They all eat together. Jane
left here to join them, this morning.
Elyza & Madge are improving rapidly
- & Herbert is in good condition -
I visited them a few days ago - So
my plan now, is to visit you alone
first - & then, when Mrs. T. can
bear the journey to take her on. She
highly appreciates the kindness of Jane
& yourself for your consent of cordial in-

vikation. I hope that your good Jane
has not tamed at home on our account.
Mrs. T. will doubtless write to her thank
you. To-day I took to the Dep. Office
a parcel containing 12 copies of my
papers for yourself - & several
sets for correspondents - we hope -
If you can enclose any of them
in your parcels I shall be glad
Pray suggest any other names - &
let me have a list of those to whom
you send copies of my papers.

I heard that Wright was to be in
England through Birmmham - from
whom I recd. a letter by the mail
that brought yours. He thinks that
the Mexican plant that we first took
to be Solanaceous & a few words through
was rather Scroph. - is the former
- & very much like a Thimogata. He
could not consult books of Tubaric when
he was in London. When I first had

Henry has, again, been pressing me to take the ~~apartment~~
of the N. York office. He says the Sec^y. of the Treasury
~~and~~ thinks I might retain my place in the
Med. Coll. - but I declined, much as I should
like the money. The work is monotonous & in-
cessant (in office hours) all the year round -
so that I should have no time whatever for
science. I can now live without another

office (if I retain Princeton, which is fair pay
& light work.) if I get occasional jobs. My
receipts for consultations & analyses ^{for the last 12}
months, ~~will~~ have been about \$600. - a perhaps more
very likely one of the Gas Co. will give me a
regular salary of \$500 to act as their Consulting
Chemist

Fremont has been here several days. & I have
had several long talks with him. He means to
explore a southern route for a R. R. before winter
sets in. He will start in August & return
when the snow is on the mountains, & show
that the road will be practicable in winter!
May he have better success than in his last
attempt to get through the snow! He ~~has~~
that \$2,000,000 had been offered for half of his
Calif. land. He will take it when certain families
has are gone through with. He promises to

New York, July 29th 1853.

My dear friend

Your letter of the 22nd did not
reach me till the 25th (Monday) -

Unfortunately I am still detained here
by that Washington work - some material
shipped to me for analysis a full month
ago, not having yet arrived. The vessel
that brought it here, merely touched at
New York & then went off somewhere to
Long Island - intending to return one of
these days - but she has not been since!

It is impossible for me to get off till I
work a day or two on the examination.
I will start the moment I am released.
If it is best for Jane to make her
visit to Leebfield, and not stay at home
on my account - glad as I should be to see her

Then she is bound to visit us in Berkshire.
- & after that I am to accompany my
Dorsey to Cambridge.

That news of the death of Desjardins made
me sad indeed. I can say with you
that I felt truly attached to him. His last
letter was full of kind feeling. He knew,
I felt, more about religion than any Frenchman
it has been my lot to get acquainted with.

I have not yet been able to get over &
see Bogenhard - but I purpose visiting
him after my return from the country. ^{when} it
is my intention to go tomorrow morning,
& to be here again on Monday. Did I tell
you that I made a proposition to him to
go out with some government ^{exped.} as bo-
tanist for a year, shutting up his little
shop in the mean time - & that he would
have at least \$600 on his return - enough

to begin the world with? Capt. Mearns expects
to go out in August, to explore the upper
Colorado. - wintering at Salt Lake - so as to make
an early start - & returning next September -
He has ~~not~~ ^{been} agreed to
take Bogenhard, if willing to go - & government
orders the exped. There seems little
hope of doing good in
his present employment - or rather in his
present station. The population around him
is very sparse, & mostly German: so that
of the German doctors around their point
these business into his hands, he must
do without it. I have helped him
very often, & have obtained money for him
to the amount of about \$150. Still I am
willing to do more. When I have talked
with him, I will tell you the result.

I heard from the folks in the mountains last
evening. Harkness left them in good health.
They would greatly enjoy a visit from you &
good Dave.

collect all he can in his rapid journey
I heard from Nuttall this week. He was
sorely little - felt himself growing old - &
though very desirous of coming to America
again, thinks the journey ~~would~~ would fa-
tigue him too much - He lives at
Fulham, near Liverpool

In studying Amaranthaceae lately I find
that Moquin (who is usually very accurate) has
made a blunder about his *Alternanthera*
laevigata. It is not Nuttall's plant at
all. (By the way, he seems to be unac-
quainted with Nuttall's *Arhans.* memoir) You
will remember that the ~~the~~ *Achyroanthus laev-*
igata N. is referred by me, in Enay's Report,
to *Alternanthera*, but with some doubt, as ^{it} has
some peculiarities - so that I proposed for it the
name of *Eudostea*. I am still a little doubtful
whether the character of the imbedded flowers
(or rather fruit) is constant. If *Portulacaria*
plant, (which is 592 Wright 1849. & also his
1757, of 1851-2) be a true *Alternanthera*, then

Endotheca cannot stand as a genus: for there will be nothing to distinguish it but the immersed flowers - a character which is not of generic importance.

Then, too, if ~~the~~ both are separated & placed in one genus, Nuttall's name, *Cladothrix*, must be adopted.

as mine would not be applicable to ~~the~~ the plant of Berlandieri. It is strange that Moquin

should have confounded them. His description is drawn from Berland's spec^m - but he saw Nuttall's

plant in Hooker's herb^m. (no doubt identical with mine).

The *A. laevis* of Moq. is suffruticose with small leaves, or very short petioles - The

other species is annual with larger leaves & conspicuous petioles & - Moquin should

be called *A. Berlandieri*. Wright 1756 (1851-2)

is the same as Nuttall's 1366. quoted by Moquin?

What is Coulter's?

I must stop as it is late & I must
write before 6 o'clock - Yours ever

J. Torrey

Mrs. Torrey has been most of the day
gluing plants in my study - chiefly
the specimens that you gave me when
I was at Cambridge. She has just
written you a note of thanks for this
beautiful new year's present brought by
Mr. Bruce. Herbert is busily en-
gaged (this being Saturday) in making a lamp
shade for Mrs. Gray. He was delighted
with his visit - & will be glad to go again
when his vacation occurs.

You ask whether my *S. Gen.* of *Labiata* is
not *Rhodochlamys*. - Certainly not. I had
already compared ^{it} with that - My genus (*Cyrtoclypeus*)
has in the young flower a bilabiate calyx. Both
lips are very short, ~~of equal~~ of entire. The tube of
the corolla is not inflated. The stamens are included
- filaments of the lower ones neither dilated nor united,
- the anthers are globose. *Didymus* of the style is
included. In fruit the calyx shows only a
contracted vil. is. with very obscure lips. I wish
Parry had ~~sent~~ collected enough to enable
me to send a dupl. to Bentham.

New York. Jan^y. 7th 1854.

My dear friend -

Now it is a week since I
returned - & I have not written to you
yet! You have, however, been in my
thoughts very many times. As usual
after I have been absent some days, there
was much business accumulated
on my return. - We had a tedious
ride home, & were glad enough ^{to get} turned
into our beds. On New Year's day
there was a great deal of visiting
& we had many students at our
house. I caught a severe cold
when riding in one of our abominable
open omnibuses (how much more com-
fortable yours are) - & it has been
growing worse ever since till today.

Yesterday I could not lecture - in
fact I have been out of the house since then.
Day. Still I have managed to write
a little on Botany.

The Dec. No. of Kew Miscell. came safely.
That Hakea is one that I described
in my Catalogue of Woodhouse's plants.

It is a pity I did not know it sooner. But
my Mt. was finished ^{some} some time ago. The
species is a remarkable one - not only on
account of its very numerous leaflets, but
for the small number of carpels: there
being only 6 or 8. The same, or a nearly
allied species, is in the herb. of the
Expl. Exped. from Claret River. I
have rather a poor specimen for you
from Herb. Woodhouse.

The *Chenopodium* from Suckley
must be wholly new. It is an *Obione*

of the Section *Helenus*, May. having the
bracts united quite to the summit.
I have written out a specific character
for it. How would O. Suckley name it
for a name?

It is strange that we at first overlooked
the character of that green Dröpf. When
I looked at it as Thurber turned over the
specimens I at once thought of *Mucron*
near - but yielded to your hint that
it was probably an old fruiting ~~of~~ *Sedum*
- remembering how we were once taken in
with *Set* *Demophis*. Your character is
beautifully drawn. If I see nothing to
add but a description of the embryo, which
I worked out of made a drawing of. The
specimen shall go to Bentham by the
next steamer, with your description &
name: the former of which (*Centrostegia*)
is, I think the better.

Phrase "folia glaberrima" will apply

There is ~~no~~ *Eriog.* of Sueden that I greatly want. It is ~~one~~ that I called *E. lachnogyneum* (No. 765) & made an analysis of in your herb. Even a little bit of it would be acceptable.

E. No. 767 Sued. also, would please me greatly, altho' I have a poor specimen of it from N. Mexico.

~~No. 767 Sued.~~

In my notes on *Eriog.* I state that "No. 1492 Harkn." in your herb. seems to be new. Now the number must be a mistake, for the *Eriog.* in P. Harkn. runs from 1940 upward - & there is no Number 1492 in the Catalogue. I ex. d. your plant before the last sheet of Harkn. appeared, & I must have meant 1942. Please look if I have made any remarks on the specimen.

We hear that Guyot is coming here. If you see him, tell him that we expect him at our house.

Mrs. Torrey is already at work again, & sends you of Jane her love - The girls would do so too if they were about - but they are in their chambers. Hubert is off at school. It is a bright cool morning - much love to Jane. Kindest regards
Ever yours J. Torrey

20059
If I had a drawing made, he should have half of my specimen. I received the plant fruit from Fremont who collected on the Vegas. His specimen was much injured & had only a flower bud or two, with two or three calices. Yet I marked it as near *Scutellaria*. It is a stem 3 ft. long with numerous spreading branches. The leaves are ovate entire, on short petioles, & are 6-8 lines long.

I have no sort of doubt that the genus is new, & very close to *Scutellaria*. I must give a little notice of it - so as to secure priority.

I have just looked at my specimens of *Wibegia* from La Paz, L. Calif (Mr. Piche) & find it just like Wright's - not like the subspiced one of Thurber.

Schott was here two days ago - He had just arrived from the Lower Rio Grande, having completed his work to the mouth of the River. He brought

me a good number of plants - some
of them not in Wright's collections - nor
in those of Bigelow. There will generally
be duplicates, or at least bits for you
- though of some he has only single specimens.
All the Compositae shall be separated, &
sent with the others that I hope to have
ready next week.

There is a *Stromboscapa* with globular
spikes which must be your *S. cinerarius*.
- It has good fruit - enough for you.
Daubentonia in fl. & fruit - plenty of the
former. Batis! from near the mouth
of the Rio Grande. *Mortonia Greggii*
in good state: so it seems to be - for I have
to-day I have no specimens of Gregg. Did
yours come from the set I sent you? Or
was it given to you by Engelmann? I
sent you a bit of mine, but you shall
have more. Yours ever
A. Torrey

Monday Morn. I was too late for the
mail on Saturday - & so have time to
add a few more lines before Harkness
goes down town.

Your brother Joe called on us last
Saturday Evg. He seemed quite well
- & said that he had not heard of you
since your visit to New York. I
picked him up as far as Kent's; & we

That *Perostegia* of Thurber which I thought
was compound at the time with Nuttall's
P. microphylla, - but I now fear that there
may be only one species of the genus. All
my specimens seem to show a transition -
but I need more to form a satisfactory
opinion.

Do you think I can get a specimen of
Hooker's *Eriogonum pyrrolefolium* (*stachyoides*
in the plate) ~~of Hooker~~? It seems to be a
distinct species. I should think, however, he
must have described it in a very old state
for there are few other genera to which it

I called on the Secretary of the Treasury, & he readily agreed to put me on pay from the 1st of January last. He said, also, that Congress would doubtless, in time (but hardly this session) increase the pay of the Army Officers.

Thursday. Mrs. Torrey had a poor night. She is to have her old physician, Dr. Delaford, to see her this afternoon. We are not discouraged but feel, as you may suppose, much concern about her.

Her power of endurance is very great - but she is now very weak. I shall keep you advised of her state.

Much love to dear Jane & our girls of Mrs. T. would join me in affectionate messages, but I will not disturb them just now, as they are taking rest.

Yours ever
J. Torrey

New York, March 20th
1854

My dear friend

I left home for Ponchartraine last Monday morning, & after lecturing twice there, proceeded to Washington, from whence I returned last Saturday night. To-day I found your *Acad.*, of the 11th & 14th edit. The Torrey was known in California long before Lobb found it. A friend of mine saw cultivated trees of it growing in a garden in Sacramento, - but they ~~they~~ were destroyed when that city was burned ^{several years ago}. My paper was published in the Feb^r. number of the N.Y. Jour. of Pharmacy. I know not whether it is before Hooker's. It was my impression that you had informed Hooker of my intention to publish. It would be strange, indeed, if so large a tree in the Volcanic town is said to be, should have been entirely overlooked by Torrey collectors. Have they ever seen good cones of Sequoia in England?

I have not the male flowers of this
Wellingtonia; nor any thing more of
the plant than a small barren branch.
The cones I have never seen, but they
were described to me by Parry (who saw
the specimens in the Phil. Acad. Socy) as
being very like those of Redwood - only
they were more "oblong".

When I left home last week Mrs
Jovey's health was rather better. I
letter that I received at Princeton &
at Washington, gave encouraging ac-
count of her improvement: but on reach-
ing here last Saturday I found her
considerably worse, so that I feel
concerned about her. She is very
much reduced, but her physician
does not feel discouraged. We are
obliged to keep her very quiet.
I hope to repeat better news in the
morning

I saw considerable of Henry at Wash-
ington. He is greatly annoyed at the
continued attacks on him in the news-
papers, & has faced them pretty cer-
santly to Jewett. A week or two
ago Jewett sent a letter of 60 folio pages
to the Regents, in which he goes into
a most labored attack on the admin-
istration of Prof. H. A crisis has
come, & J. or H. must leave. I
advise him to throw the whole of
the responsibility of his course on
the Regents, who have approved of
his doings hitherto: & who ^{are} involved
in Jewett's charges. Prof. will
probably send you some extracts
from Jewett's long piece, that you
may see the spirit of the man.
Baird, too, had better look out.
He is a good fellow, but has been
let astray by J.

overhauled & an account of them
published - so should also his other
collections of mss. A life of Berkeley
should also be prepared.

Whipple has come in, but I have
not seen him. He left Bigsloo
behind, in California. The old chap
wished to take a look at the Sierra
Nevada in the flowering season,
as they cropped the country very
late in the season, in going
out. He will be along in a
month or two

I received to day, in a letter
from Mr. Keiser of Columbus, Geo. two
specimens of *Crotonia* in flower. He
found the plant on an island a little
way above the town.

Mr. Loney improves very slowly. Eliza
remains in Washington: much to be
sore - Yours ever J. Torrey

New York, May 12 1854

Dear Doct -

I left Washington on
Tuesday Prof. I stopped at Princeton
on my way home to wind up
my lectures there. On my re-
turn I found a letter from Hooker
with the plates & text of *Wellingtonia*
from Bot. Mag. Also a plate of
Torreya - the latter unlabeled
You have probably the same. The
great section of a California tree that
I alluded to in my last, as an *Abies*
hibernica in Philad. is now (*Abies*)
in the U. S. palace here. There can
be very little doubt of its belonging to
Sequoia - & not *Wellingtonia*: but
the owners of the specimen rather thought
it was the latter. They were not pre-
sent when the tree was felled.

In your remarks on that great
tree in Litt. Journ. you seem to

Doubt their very great age (3000^y)
I think that case should be taken
to count the rings of the next one
that may be felled. But surely the
stump ^{of the monardella alluded to, is}
still undisturbed, & if we knew
any one within a reasonable distance
fit who would take the trouble
to count the rings, it would settle
the question.

Hooker now thinks that this tree
figured in Ic. pl. as Taxodium sem-
levorivis, and which has puzzled
us so much, is Abies brachyca-
m. Bot. mag. 4640.

You say that I have had the ~~fruit~~
^(wellington) foliage of this tree for
nearly a year. Do you allude to
what I sent you as collected by
Dr. Hulse, & supposed to be a skate
of Sequoia - (not a n. species)? This

When I saw the tree of Wellington, & a drawing of the trunk
I concluded, some that it was not the common Redwood.

cannot be Wellingtonia, for it has
small subglobular fruit. The fruit
too, must be ripe, for it is open, &
the seeds ~~are~~ have fallen out

I looked over a number more of
Berlandier's bundles. I took some
from the very bottom of a large box
where I feared dampness might
have entered from the floor (the
boxes being in a basement) - but
they were sound. The specimens
are about as good as Drummond's,
but they have another look.
If Hunt purchases the collection, the
use of the Mss. & numerous drawings
will be permitted. There are many
sections of woods. The labels
are complete as to locality, time
of collecting &c. & the notes are
full. It seems very desir-
able that the plants should be

I don't think that Mrs. Long could possibly have this journey to Boston. She certainly quite fresh
I we shall get her to come - I am sure what you want. She has received a parcel now she we were
a few years ago - at Reading having 5 miles below the station. I saw her last this morning at 8 o'clock. He like
his school very much. - I have also read the story of Lane - Cambridge J. Torrey.

which you told him I possessed.
how I cannot find the memoir
among my books - & yet I have
an impression that it has been
sent to me. Pray tell me in what
work it is printed - & whether it is a
separate publication.

Do you know that *Polypodium* annua is
Tetradymia (Polypodium) namodesmia of
Emory's Report? ^{It is a little earlier than Muhl's name} I had only a poor &
advanced specimen ^{of it} ~~that~~ was so like
that I took it for a different plant.

I don't think those *Berlandier* plants
are dear at the price asked for them - espe-
cially as the use of the seeds of msp. is given.
There must be many thousand specimens.

There was so especially busy & absorbed
with his own affairs that he didn't deem a time
for preventing your request to him & it is
now too late. Would attend to all other
business. Eliza is still in Washington

I have looked over all my specimens of *Meriania* & find no other St. name among them.
Does strictly any how he get the seeds from which he raised his specimens?

New York May 11th 1854

My dear friend.

I have just returned from Princeton
where I have closed up my duties as
Prof. of Chemistry. Only think I have given
lectures there since 1830! It is a relief
to be spared so much travelling, hence
the unpleasantness of living at a tavern
while away from home.

Your letter is dated the 11th inst. & must
therefore have been sent on the wires.

As to my Washington house, I would
most gladly have declined them. & had
I known of the movement would certainly
have prevented it. I was wholly
taken by surprise & found that I could
not decline without displeasing my friends.

That lithograph of *Washingtonia* of which
you write, is I suppose, ^{another} copy of one
that I saw at the Acad. Sc. in Philadelphia.

- viz. a very large folio one, showing
the character of the country around the
tree, with smaller figures of foliage &
cones underneath. It was executed in
San Francisco from a drawing made from nature.
The proprietor (who helped cart the segment
down to San Francisco) said that the speci-
men on exhibition was brought away
as the Red Wood - but that he suspected
(without giving sufficient reasons) it might
be the Wellingtonia. No doubt the
San Francisco lithograph represents the latter.
The cones of foliage were presented to the
Academy, with the print, of the whole
were asked to represent the same indiv-
idual plant.

I was told by the exhibitor (a proprietor)
of the great section that was in Philad. Office
(but now in the Crypt. Palace) that some
other persons had brought the bark
of the Wellingtonia, in sections, for exhibition.

but that they did not bring a ring or section
of the wood. It is their bark, perhaps,
that you have in Boston.

I don't know any one in Calif. San Fran-
cisco (which I believe is the nearest large
town to the great trees) who would under-
take to count the rings of the stump - un-
less it may be Dr. Stout, a new settler
who has been some time in the country
& who was once a close student of natural
history. I will write to him on this
subject. Parry may know some
one at there who will procure for us the
desired information.

I will try to make you a visit
the first few days of June.

Brackenridge writes me that he wishes
an Angiopteris ~~compared~~ (from the Philippine
Isds.) compared with the description of
Devore's Harley's Monog. of Marattiaceae.

New York, May 31st 1854

My dear friend. Your letter & enclosure
came to hand several days ago. It will
suit me just as well to visit you about
the first of July. I have no engagement
out of the city for the summer - except
to visit the family at one retreat which
is scarcely $\frac{1}{2}$ hour distant by rail. They
expect to get off this week. We have
a small furnished house on the banks of
the Hudson - west side - about 4 miles
below Piermont. I will tell you
more about the place when we have
credit

The news about poor Walker was
un-expected. It is sad to see the
swooning men - of such noble men too
as we have lost lately - dropping off one by one

I return Booths letter - which I read
with wonderful pleasure

Pray secure me a specimen of *Stem
Ceanothus* with purple flowers! It
is green indeed. The two species described
in the flora have flowers of the same size
- You must have one of them in your herbarium.

Hobbs made his appearance at my house
very unexpectedly on Sunday Morn'g last.
A "rumple" had occurred in Boston of which
sent with dispatches to our Govt, he left
the same day for Washington but will return
shortly. He brought some good plants with him
which he will soon distribute.

We are all as well as usual, except
Mrs Torrey who does not gain strength - We
are anxious to get her off into the Country
With love to your Jane believe me ever
Yours J. Torrey

Mem. for Dr. Gray

What is *Symphoricarpos Roemerianus* Scheele in *Ann. xi. 469*

Also Griseb. "Porto Rico Woods. April 1850" rec'd in
a letter from Wright but not in N. Wright.

Is not your *Horachia argyrolepalla* (Pl. Thunbergii)
only a state of *H. tomentosa*. It seems to be
exactly *Symphoricarpos tomentosum* Vogel in *Ann.
x. 591*. The pet in that species is described as
monospermous. Your plant scarcely differs
from *Horachia* Jii 1846 Fremont - which you
have. of 209, 1846 which I believe you
have not - as the specimens are all bad

Is not *Ceanothus* 359, 1846 Fremont a form
of *C. prostratus*? I can make nothing else
of it

joining his party. Present to him my
very kind regards.

St. Gillett sends the enclosed letter in
answer to mine. If you can make out
a tolerable list of his plants it may
be well to gratify him. I was
not aware that *Proc. of Gay's Flora* had
been published.

I send you some more *Wellingtonia*
seeds - of a few of *Megacarpus*. The
latter I hope you will coax to germinate.
They are of last years growth.

Give my best love to Dave - & with
a long haul for yourself I remain as
ever - yours - J. Torrey

New York, July 13th 1854

My dear friend

After I left you last Friday at
the Hitchburg Station. I soon found that
the omnibus would not reach the Old Church
in time. Long before we got to the Old South
Church it wanted but 20 minutes of the
standing - so I jumped out of van nearly
the whole way - I just reached in time
to heave my trunk on board & take my seat
in the car when we were off. I shall
take care of not be saved so again.

I have been burning over Dr. Bigelow's
plants, & find several interesting things
among them. A curious little thing that
the Dr. marked as a *Ceanothus*, is very
different. It puzzles me - but I have
not yet done with it. I send you one of
the few specimens, which I hope will not
get injured on the way. It is all you will
have for your share of it. The habit is that
of *Ceanothus* - but it cannot be *Rhamnus*,
for it is decandrous, & the ovules are clearly
suspended. There is no disk. The plant will
remind you of *Philadelphus* of esp. *Scudleri*.

The calyx is a little adherent to the base of the ovary. The 4-carpellary ovary & 4-distinct styles are just what we see in some flowers of *Philadelphus* - but the ovary is very different. Thus far I find nothing like it, nor am I certain of its family. The buds open so early that the articulation of the calyx is difficult to determine. The petals seem to be involute at the edges & then valvate. The shorter stamens are opposite the petals & a little within the other 5. All the flowers showed 4-carpellary ~~ovary~~ ovaries with 4 styles of a single ovule in each cell.

I send more of the new little Composite. There is nothing like it in my books or herb. My analysis will, I think, be found correct.

The little *Cornufer* is young but new to me.

I have never seen a *Cornus* (as it appears to be) just like the one enclosed - with the pedicels umbellate, & not disposed in a cyme. Look at the cone of Redwood. Surely *Wolleytonia* differs only in the cone being larger of the axis rather thicker in proportion. I should not hesitate about referring the genus to *Sequoia*, L., according to rule it ought to be called *S. gigantea*.

I have selected the Composites from Bigelow's last collections. I shall send them to you soon.

Let me hear from you & your earliest leisure about the first-named plant in my letter. On looking at it again I think it belongs to Malpigiaceae, near *Galphimia*, but scarcely that genus. I am not quite certain of the coloration of the petals - but they seem to bear I have drawn them. Look at some buds in a small box.

I have a few more drawings from Rivereux, - very nicely done. He is so prepossessed that he is hardly willing to undertake more work - but I shall urge him to do a few more plants. He charges 36 francs ^{each} for what he has done thus far. I don't see how he does them at that price.

Did you have a pleasant time at Assembly last Saturday? I hope you apologized to Mr. Loring for me. Nothing but my engagement here prevented me from

New York, July 21, 1833

My dear friend.

Your letter of the 14th crossed
mine - Besides this, I have yours
of the 17th -

I had already made out Spillman's *Abragala*
to be *A. distans*.

Of *Dalea Emoryi* I have only one flower
to offer you - & no bract. Two pods are
sent - which may not have been seen before
in such good condition.

The 1st *Dalea* of Emory's Report. is *D. mollis*.

I send you a bit of Fremont's *Dalea* *Lii*
209, 1844. It has a decidedly woody base
& is rather Thunberg's *Spec.* than Fremont's
Lii, 1846.

You will see that I was not out of the
way in comparing the size of flower in
Horachia toment. & *H. decumbens*.

I was studying your volume but had
not advanced so far as the page you
refer me to. Did you observe the
vestiges of previous inflorescence on your specimens?
As the plant is pretty certainly a new genus,
how would it do to give it to Whipple? It
ought to be figured - & as you have the best
specimen, let Sprague make a drawing of it.
I will make Whipple pay the cost.

I send a fragment of a *Sisymb.* that appears
to be a new *Pentstemon*. Wiegand got but little
of it. On one capsule there were more vestiges
of a corolla - but I did not find the sterile stamens.
Tell me what you think of it.

The weather for three days has been
awfully hot. - 97° & 98° in my study.

The specimen of the new *Saxif.* genus now
sent. is to aid Mr. Sprague in making a drawing.
Don't injure it more than is necessary, as there
is but little of the plant left.

I don't find the little sepals among Fremont's plants. See you not mistaken in sup-
posing I had it before? Yours affectionately J. Torrey.

Bijelow is too busy just now to
attend to correspondence - You must
wait till the next no. of Gillman

I have made further examination
of the Philadelphia plant. I find the
styles are usually 4 - but sometimes
5 (as you will see in the herb. enclosed)
They seem to me to be skinnier at the
summit of a little way down on the
back. Only the very base of the ovary
adnate to the calyx. As to the verti-
cation of the calyx it is almost impossi-
ble to determine it. There is such a
scant pattern of material for it, that
in the young bud the segments do not
meet either at the sides, or the sum-
mit. I told you that I was uncertain
as to the petals. Soak the cluster of
unexpanded flowers that I send you.

Then, before picking them, look at the
summit of a bud with a single $\frac{1}{4}$ inch
lens: & you will find them scarcely imbric-
ated. Like most Malpig. the petals
spread widely, & the sepals are erect between
them. The flowers differ in so many
respects from Malpig. that we can hardly
~~imagine~~ ^{place} the plant there. Half a dozen
you want the glands of the calyx. I ex-
pect have very entire petals, & one (at
least) has simple hairs on the leaves -
but DePiseau says that the Malpig. hairs
will at least be found on the small
branches. One or two of the regular
characters might be wanting, & yet
the plant be a Malpig. but I now
rather incline to fall back on my
first opinion, & that which you advocate.
I would have been more decided when
I first examined the plant had I been
aware of your remarks in Mrs. Repl. 9th ed.

I will call again on Donop. but he
promised faithfully to get the parcel I
sent it to the Legation Office - which is
done by this.

We have now cool weather again
& I am enjoying my study.

Give my love to your good Paul. I like
to see him in a week or two - but I
may be prevented from leaving town
by the opening of the Legation Office -

Yours faithfully
J. Torrey

New York, July 25 1857

Dear Doctor, Your letter of Saturday
& accompanying little box containing seeds of
Calycocarpum were brought to me
this morning. In the mean time you
have received a little parcel of mine

I now send you two more *Compositae* - from
Bigelow's last collection. One is near *Apogon*,
but that genus will need a little sketching to
admit it. It seems to be quite new.

The other is like *Pentyle* & *Laphania*
in habit - but differs essentially from
both. It has some remarkable characters.

I only got hold of it this evening, & you
will find what I think of its structure in
the analytical sketches accompanying
the specimens. As far as I have looked,
the genus seems to be unrecorded.

As to *Ericaceae*, I have sent you
(I believe) all the *Exbl. Ebel. Macmill.*

In my notes on them, I made a note
of *Agalax* of what Hook. & Arnott (perhaps

also Benth. in M. Hartw.) call *A.*
calendulacea. There was a scarious
variety of the same plant in the collection.
The large *Rhododendron* must be what
Hooker refers to under *R. maximum*,
or collected by Douglas without flowers.
What do you make of those *Pyrrolae*?

Bigelow found both *Sarcodes* &
Phacopora in California. By the way
Holton found *Monotropum uniflorum* among
in the mountains of N. Granada. At least
I could make nothing else of it when
I made a careful examination of it
& at the same time dissected a speci-
men of our own *M. uniflorum*.

There is nothing of special interest in
the *Eric.* of Pamy's Calif. - & of course
scarcely any thing in the Rio Grande States.
I will overhaul the *Eric.* of Bigelow's
late journey, & send you what may be
useful for the flora.

July 27. I was obliged to leave town before finishing
my letter. Since it was begun I have found
another specimen or two of the *Chicovaceae*. It is
the plant named by you in herb. Pamy's *Scorzonella pen-
tacteta*! The red form (of which I send a specimen)
has the achene with 1-4 rows. Another *Compositae*,
I have been studying, & I cannot yet make it out
- for I have thus far only made analysis of it, & glanced
through the flora. It is a queer thing: the prophylls of
the receptacle (in the margin elongated & stipitate form)
supporting the flowers. The achenes with a tumid
cellular covering. No pappus. Surely it is new.

28th - Your letter of the 26th inst. is received.
I repeat to say that I have scarcely any new ma-
terial in *Ericaceae* - certainly nothing new
in *Andromeda*.

The *Horackia* (Drepan.) 209, 1844 Fremont, desc.
exped. (April 11) seems to be about 2 feet high &
upright.

I will look again at that "*Ceanothus*" of see
if I can find vestiges of flowers on it.

No. 4. of last parcel - No doubt the seeds
belong to the spiny branch that they accompany.

New York, July 26th
1854

My dear Sir

It was only last evening
that I received your letter,
as I had been out of town
for several days. I did not
go immediately to the Agency Office
on my return. The letter was
sent there, instead of being deli-
vered at my house. Our
Superintendent has the nomi-
nation of the remaining officers
in the Agency Dept. of he
says positively that you

name will go in, and without
doubt you will be elected.
I think the appointments will
be made in a very few days
- but it is a little uncertain
as to the precise time when
we will get at work. The
building is very nearly done,
& the apparatus is either
in place, or ready to go
in. You may be needed
in three weeks. I un-
derstand that the ~~idea~~ in-
tention of the Superintendent
is to have the ^{officers &} men selected

I put on pay as soon as possible.
Those who need instruction to
visit Philadelphia at their
own charges & learn their
duties at the Mint. It will
perhaps not be required of
you. This is the way
the matter stands at present.
So you cannot make any
exclusive engagement
- but a job of say 3 weeks
might be undertaken, if
it promises fair remuneration.

Yours ever
J. Torrey

I will write more at large in
a day or two, & throw in some Botany!

New York, Aug^r: 12 1857

Dear Doctor -

You see I am looking at plants - now a day - but I am much interrupted & cannot get time for much hard study. Now & then I find an interesting or doubtful plant - of them I write you some at hand.

Yesterday I was again speaking of *Biscularis* plants, when I noticed several good things. There was a fine specimen of a *Xanthium* that seems to be quite new - a real *Xanthium*, although it differs from all the rest of the genus in the umbels containing 4-petalled flowers. The fruit is all the size I send you - have you any thing of the kind? The leaf, too, is unlike that of all other species of the genus.

I have found also two other *Conpositae* that
I am uncertain about. One an *Achilleoid*
Dwarf. The other a *Senecioidea*. Let me
know in your next, what you think of
all these.

Do you know anything about an
Erythronium from California with 12
flowers in a paniculate raceme?

I have such an one from Bigelow.
I will send you a specimen of
it soon.

Yours ever,
J. Torrey

New York. Aug^r 8th 1834

My dear friend -

Your letter of Aug 2-7 was received to day. I send, as you requested, a small specimen of *Epipactis cordifolia* - the best I have in flower - You will see that the anther-cells open longitudinally. The plant is no *Gaultheria*, as Benthams remarks (in the *prodr.*) the genus *Prospora*, which was founded on it, ought perhaps to be retained. It differs from *Epipactis* in the form of the corolla & in some other respects. How strange that good botanists should differ so much in their account of the plant!

Aug. 11. I have looked again at the specimen of "Carruthia", & find that the fruit is wholly free from the calyx. The calyx is 5-parted, & small.

There are persistent hypogynous filaments,
which seem to be 10 in number - the more
persistent ones opposite the segments of the
Calyx. The styles are united & form a taper-
ing point to the capsule. ~~In the p~~
no traces of petals - though they probably
exist in the flower. In the paper
containing the specimen I found some seeds
which I send you. They are plump &
sound, & having been gathered early this
year, it is possible they may ger-
minate. Try them.

I send a bit of a plant collected near
Pitt Williams River. That is possibly
one of the numerous forms of Quercus
agrifolia. Have you any thing like it?

Gibbes of Charleston has been here
three days. He is on his way to the
White Mountains, & will call of for you
on his way back. He went up to
our cottage yesterday, with me, & returned

but Lieut Whipple has the money in his own hands. of these will be about \$300 to divide. He wishes to have a list of the plants, (for as many of them as can be readily determined) for the Report that he is to hand in soon. This will be printed in the ordinary pub. doc. & then a revised edition will be added, in which our illustrious can come, & any additional descriptions & observations that may be ready. He says this is the only way, as the natural history may be thrown out altogether. I shall also have a lot of the Californian plants of Whipple for you. but cannot send them immediately. There is a set, also, collected this side of Fort Belknap - but the plants are mostly common. They may be omitted in the preliminary report & if any among them deserve notice, they can be taken up in the revised edition. Save me specimens out of what I shall send you - & keep a set for Bigelow as far as you can do to - Help yourself of course. The Smithsonian will have to come in No. 4.

If you would like to examine Capt. Peck's collection

New York, Sept. 14th 1854

My dear friend -

Your letter of the 11th is recd. I have just returned from a visit to the Palisades, & left Mrs. Torrey pretty comfortable, though very weak, & still in bed. The girls are all pretty well. Glad to hear that you reached home safely, but regret much that Jane was obliged to leave for Beauty on little Kitty's account - Your next letter will, I trust, bring news of recovery.

You must have misunderstood me as deriving my sketch of *Thamnosma* returned.

I have received a bit of *Crocosoma* from Durand. It seems to be the same as our plant. It has but one flower, which is larger than in Bigelow's plant, only because it is older - for the parts (except the petals) are persistent. & in the spec^m send by Durand, the fruit is half ripe. Your hint about Dilleniacae is good. I looked at that family, but the inspection of the stamens made me give it up.

without a particular examination - but now
I am strongly inclined to refer our plants there.
The seeds ^{are} surrounded with a fibrillose arillus - which
is a character not found, I believe, in Ranunculaceae
- nor in Spireeae. I send you two or three seeds
from the pod given me by Nuttall. Unfortunately
they are perfectly empty shells. You will see that
they are curved - which rather looks as if they might have
had a radicle poked in the smaller part of the cavity - of so
the embryo without albumen - This would be more like
the Ranaceae again. Still, at present, the evidence is more in
favor of Dilleniaceae than of any other order - If it
belong there it will ~~go~~ ^{go} into the lat. section - a Dillenia
- in which no American genus has been found. It
is really proving that the seeds are all abortive.
I am determined you shall not get it into your
"pet pocket"! -

Sept. 22nd! I can see that I commenced
this letter more than a week ago! I had been
reading to receive sad news from your about-little
Milly - who has been in my thoughts many times
every day - Now I am relieved by your letter received
this afternoon - I would have filled up & dispatched
my letter before, had I not been afraid that you

had suffered a great loss. Praise the Lord -

I have not yet been down to Donipán - as there
was nothing special for me to do at the Agency,
Tucson. It is a mistake that they saw me there
of that I promised to attend to the parcels: for
I never had any communication with them except
in their own place: ^{or never saw their bill till I received it from you} They probably saw one of
the clerks & took him for me. I will send
for the parcels tomorrow, & pay their bill: taking
out what may be for me. I shall pack
the remainder in your great leather trunk, &
send at the same time a quantity of plants.

You will receive the greater part of Dr. Bigelow's
Collections made between Fort Belnap & Albuquerque.
These you will report on - or at least furnish
a list, & describe whatever new species there
may be - & as soon as possible; for which
you will get a small compensation. If not
whippable he must pay something - but he
cannot give much. You shall have at least
half of all that I get out of him, & proba-
bly more. Major Emory did not pay up
as I hoped he would - & we shall have to
wait his return before we get anything out of him.

I was up the row yesterday - All the ferns well.
Mrs. T. mending slowly. They will return soon, for
it is cold here now. Give my love to dear Jane.

Yours ever - John Torrey

Tell Jane I say she must give you the little
change you make on those plants, for pin money!

Durand's *Horackia* (Trepan.) *orbicularis* is not mine
but mine like *H. tomentosa* (of Nutt. & Scudder). All the
specimens are buff-colored.

on the same terms, let me know. Prof. Baird
says they are pretty numerous - but put up in
a very unprofessional way - the specimens being
fastened down on paper. He offers to pay
the same as Whipple & Davis to have the new
or interesting plants drawn in 8.00. You might
engage Sprague to do them. The collection
will be sent on as soon as Baird returns to
Washington - as the parcels are locked up in
the Smithsonian.

I had occasion lately to work up the archives
of Dr. Bigelow's Californian Collection - & found
as usual, much to do. The general allied to
Sinteleia required overhauling. Those made by
Kunth are good, but several others must be
introduced. I will send you specimens of and
you of all in a few days. In the first
time I examined: a plant that I had received
several times from California - but took it
for an iris - the culm of which had grown -
usually tall, & turned around the plants.

It is quite a new genus, but allied to Dactylo-
stemma of Kunth (founded on Prodris compta).
3-4 feet long, - the calm twigs!
Do you know the thing? I have thrown it away
more than once because it seemed to be a kind of
monstrous - but it is always true to its character.
If you have any named Californian Liliaceae
(including Asphodel.) pray lend them to me. I
have not Triteleia pedunculata & suspect it is
not of that genus.

Have you Phalaenium croceum from the
Southern Atlantic States? I thought it was in
my herb. - ~~but it is not~~ from Florida & Georgia
- but I have only Red River & Texan specimens.
It is not Phalaenium, & does not belong to the same
tribe as that genus. It is nearer Ornithogalum,
- where Elliott placed it - but sufficiently dis-
tinct. If there is no genus in my book that
will receive it. No doubt Nuttall's plant is
the same as Muhlbaui.

Don't you think our Scilla exalata can
be separated from that genus? Lindley's

Camassia is incorrectly described, & surely is not
of a different genus from Scilla exalata. It is
difficult, indeed, to find how to distinguish it from
our eastern plant.

Of the Albuquerque Collection I have
retained the Enofores of a few other bot
things - but you shall have whatever
you wish of them - There are Duplicates
of all.

You will receive boxes of Wellingtonia, with
the Californian plants of Bigelow

I enclose a branch of a Californian plant
from Bigelow - (I have it also from Nuttall)
which don't seem to be described. The author
open chiefly on the top. There are but 2 (collate).
order in each cell. The habit of the
plant is sketched on the paper - It is somewhat
like Rutten - set me know if it is in Pl. Hartweg
Remember Soapplant (Chlorogalum) - The genus
is not in Kunth.

The root is sweet, & is used as food by the natives of Sonora (where it abounds in the sand.) - but it makes them lose their teeth. ^{They call it Papago.} I have a pretty good colored drawing made by a German on this spot in which, with the solitary specimen (found as yet) would enable Sprang to make a good fig. of this interesting plant. The man who brought it I have not seen - but he is to give me a full account of it to-day.

When I study it more I will tell you the result. In the mean time I send two or three flowers.

New York. Oct. 1854

My dear friend -

Your letter of Oct. 9th & envelope came safely yesterday. In the mean time I hope you received mine, sent the day the leather trunk left - of the trunk itself.

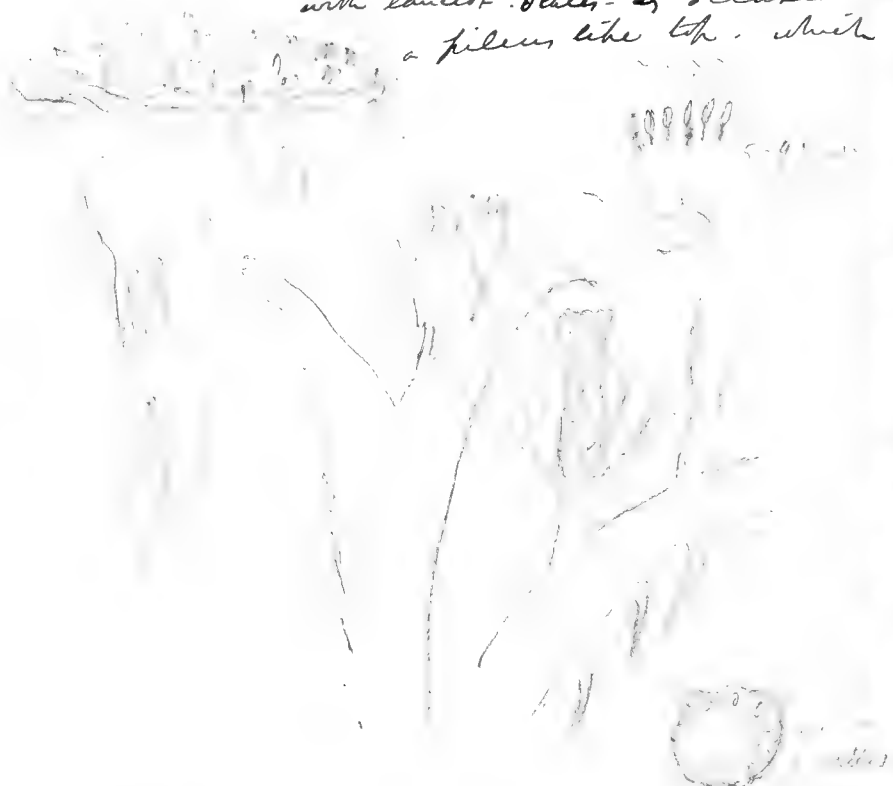
I have just been turning over my Myrsinee. but find nothing marked in the way you indicate viz "Adisia or some Myrs. plant. Pine Key - Blodgett. (in bud only)" Of Adisia, I have only the A. Pichempii - of which you doubtless got duplicates from Blodgett's herb.

Of Myrsinee, there are the old specimens named by you long ago. M. Floridae, A. DC. One - from Southern Florida, Lecter - by Croom - Another from Key West, Blodgett - the latter in bud only. Surely you must mean this plant - & if you wish to examine it again, I will send it.

... have nothing new to say about *Hovea*.
 You must decide for yourself. The species
 need overhauling - especially the *Hutchinsonia*
 ones. A more extensive set of all, must
 be got together, & the limits of variation
 determined. I would like to send you all
 mine when you next study the genus.
 That *H. latyroides* may run into *H. puberula*.
 As to that gigantic flowered *Eutocia* - I
 have it out - It is a noble looking fl.

Don't say that I am out of place as a
 botanist, in Wall Street. Two days ago
 a yellow matter was deposited with me
 (brought from Sonora) which I took more
 interest in, than in the 1,000,000 of dust
 that was in the next room - It is a *Rhizogon*
 that I cannot refer to any of the regular
 orders of that class (if it be a class). The
 root, or rhizome is 2-4 feet long - ramifying
 in the sand, & attached to ^{the root of} some unknown

plant - of which there are specimens, with the
 rhizome. The stem - a stipe, as some
 would call it, is 6-8 inches high & half
 an inch or more in diameter - covered
 with lanceolate scales - of dilated inlets
 a pilous like top, which



is crease of cover
 with hermaphrodite of cover
 The cal. about 10-parted
 seg. plumose. Cor. monop.
 5-9 toothed at summit - purple,
 Stam. 5-9. in upper part of
 tube of corolla. Anthers opening by slits.

The whole plant above ground orange yellow

The books are not lost! Some other booklets
may take at least part of them. You will
get some money from B.R. when the job is
done - & this will help you along.

I am puzzled with two or three of Whipple's Novae.
One has just the habit of *Clintonia umbellulata*
- but the umbel is compound - or rather there are
several umbels, subtended by one or two foli-
ous bracts (see sketch). The analysis shows
something very diff. from *Clintonia* or any other
Novae genus that I can find described. The author
must be wrong! The connective comes down ^{on the back} ~~in front~~
of the cells, to their lower extremity, & two filaments
is inserted on the underside near the middle. So far
it looks like *McLaughli* - but all the rest is like
Clintonia except the ovary & style - ^{which,} are very diff. from
that genus -

In my next I will send you something still
more queer -

Mrs. Toney is still in the country, two weeks absent to the west
- but we hope to get her home in a few days - Marge is been
preparing the house. I communicated your kind invitation to her, but
she cannot tell yet, till Mrs. T. comes down, whether she will be able
to accept - Glad to hear good news of ^{her} - Love to Jane
I. Toney

New York Oct. 3rd 1857

My dear friend -

Your letter of Friday evening was
waiting my return from the country yet-
terday morning. The box of plants
could not be sent till I received the
collections from Capt. Pope. From some
neglect, they did not arrive till just
before I left town. I have now
overhauled them - & such a lot you
never saw before! They are just as
in a very peculiar style. Still there
are some good plants among them - I need
them just as they came - having no
time at this moment to select any of
my lots. Let me have such as you
think I can work at - such as all
endogones &c. You must & shall
12 for *Syringae* to draw - none of your

like. They are to be in 8.00. If
you see any thing that I want save
me duplicates. I will be supplying
yourself, take care of the remainder,
as I may have to account for them.

I send also a collection from the Ministry
(chiefly I think from near Fort-Thomé)
by Sr. Henry of the Army. They can
be told by the covers of the parcels.
I would there of take duplicates -
There can be no objection to introduc-
ing any of these that you wish
into Capt. Pope's Report.

These two Collections are sent to you
in the original box, that came on
from Washington. & in which I
had to pay \$2. freight. All you
need to get the lion's share from Capt. P.

I will let you pay the freight to Boston
The Mule trunk will contain ^{Bojeland's}
(Whipple's) plants between Fort Smith &
Albuquerque. I send you also

the Compositae of the California Collection.
Remember that I am to account for
the specimens to Bojeland - to that
after you take what you need for your
herbarium, I shall wait for direction
to dispose of the remainder. I have not
yet been supplied.

You will get Pl. Brasil etc: with
the boxes. I hope to dispatch them
to-day.

I believe you will find buds of *Styrax*
Californiae

I am sorry that you are disappointed
in receiving money from Putnam - but I hope

New York, Oct^r 11th 1854

My dear friend.

Your letter of Saturday was received yesterday. The trunk was at last sent, by Adams Express - You must see that you are not charged with the transportation from Boston to Cambridge - for I paid the freight all through (\$2.25)

I thought you would laugh - & then flatter - over Pope's Collection - but - as you say - Bigelow's specimens are a pleasure to study. Do what you can with the dash - The fee is something of a temptation - & that will be sure - I hope that you will set out a few plants for Sprague to figure -

I don't know what has become of

the Hofmeisteria - but I will look in
a sheet of several specimens that I
once brought home from the College for
examination - It cannot be lost.

You had better work at Picea plant
first - because he is the most urgent
As to Whipple's Composite - you had
better keep the Californian ones distinct.

I have done all the Monocots of
Whipple, except the Gram. - of most
of these I can make out readily. I
wrote that I had your Calif. Rudgers.
- I said that I had determined a
studied all - There is a Melanthera
that I except - for I don't know what
to do with it - although the plant seems
"Common enough. It is probably the
same that Hooker called Zygadenus
obovatus in Mrs. Beech. - but it has
no glands on the petals. I left the
matter unsettled, for you have a
patent right to Melanthera. If I did

not wish to be rapped over the knuckles
for interfering with your speciality -

I write this at the Agency Office - when
(this morning) I have made out my first
certificate for a lot of gold. When
I go home I will look about the
Adria. - In a few days I
can do but little in Botany - but
after the Med. College opens (next
Monday) I hope to work again on
the Decaplaudy -

Mrs. J. will we hope, come home
tomorrow - Jane is superintending
our house cleaning.

Yours ever -
J. Torrey

lected them. There is no objection
whatever to making drawings from good
specimens of the same species -

I enclose Durrois bill - which, it seems
is less than what I owe on Cuckles
- Let me know the difference, & it shall
be sent in postage stamps

I did not take a set of the *Lumina*
because I was not sure there were any
furne -

Ever yours,

J. Torrey

New York, Oct. 14th 1854

Dear Doctor - I was sorry to
find, after your letter had been sent
to the P.O. that the flowers of the
Rhizophora had been left out. As I
wish your opinion respecting the plant -
they are now sent in a separate letter

In the mean time another small job
has come in which you can share if
you wish; but we cannot tell what
to charge till the plants come. The
proposition is from Lieut E. G. Beckwith
- of the plant are, "a small collection
made the present season in passing
west from Great Salt Lake to the
Sacramento Valley." together with the
plants collected under the direction of

the late Capt. Gunnison, "from Fort
Leavenworth to Bent's Fort & thence
by the Kupaokasin & Sangre Cristo
Paps to the Valley of Sandus - and west
from this Valley to Grand & Green Rivers
& into the Great Basin in the vicinity
of the Sevier or Kistlet Lake" Both
of the routes ought to afford good
plants - Gunnison's collector was
a German - whose notes are now in
the Sawlata's hands. I will be sent

on -

Oct. 18th I did not get my letter
off on Saturday - & on Monday I was driving
all evening to furnish an Ingham lecture, that
- very unexpectedly, I was to deliver at the
opening of the Med. College. Mrs. Toney
came down, too, on that day, & I have

had my hands full till now. She is
so smart as to be in her place at table
- even at breakfast - though she is still
quite feeble - Eliza remains in the
country a week longer

Madge will probably make leave a
short visit after Eliza returns - She would
go at once - but is unwilling to leave
her mother -

I have been studying that green parasite
a little more. It seems more highly organ-
ized than almost any plant of its class. I
am yet uncertain about the calyx. Those
glumose bodies at the base of the perianths
can hardly be any thing else but calyx.
Look at the enclosed flower

I have your letter of the 14th & am
glad you have the leather trunk at last.
Whipple's plates are to be in L. to.

Get out Pope's plants as soon as you can
for he is somewhat impatient - Let me
have the endogon when you have it -

New York, Dec. 20th 1834

My dear friend.

Capt. Pope is urgent for a report on his plants. I told him we would send in the best we could make out by the latter part of the month, & I felt it up before the printing was ordered. As he desires to send it in with his own - you had better get ready what you can make out with but little study - & if you make. Prepare a more complete report at your leisure, to be handed in about the middle of February. Pray send me at once what you have done, & also, by express, the specimens that I am to work up -

I hope you have had a chance to look at the *Tonora Rhizogon*. The specimen shall be sent on shortly for Sprague to draw - With the sketch from Nature by the German, together with my dissections & the specimen itself, we ought to have

a capital figure - How would it
do to publish a notice of it in *Silliman's*?
The full account, with the figure, must
be reserved for Mr Gray's book - unless he
permits me (as I think he would) to give
the figure also, in some journal. He
is to pay for the plate of drawing -

Capt. Pope says, in a letter received from
him to-day - that there is no mistake
about his being fully authorized to pay
all expenses -

Pope & Beckwith's plants ready to kill
they are finished. You have received
Beckwith's by this time - if I doubt
not will like the job. When they
are finished I will send you some
more of Bigelow's.

I have been overhauling the collection
made in Whipple's Exped. between the
Mississippi & Fort Smith - but they
are not very interesting. It will
hardly be worth while to introduce
them - except such as are rare, or
need remarks - You can have any
of the families that you wish to
look over -

Yours ever -
J. Torrey

Send Thurber 25 copies of the memoir
on his plants - I should like some extra
ones (say half a dozen) if they can be
spared - He is working at his assay
balance by my side -

New York. Nov. 7th 1834

My dear friend -

Your letter of Oct. 30 - Nov. 7 reached
me yesterday - I doubtless copied one
of mine to you -

I will send you better specimens of *Koiff-
meisteria* - but I am very scantily supplied
with it. Sprague must first do Pope's &
Beckwith's plants - for they are most pressing.
Indeed I expected to get Whipples done
in Paris, & have already bargained for some
of them.

As to the change that I made in Phe. it
was made larger because the materials
were so bad. Besides he wishes you to
enlarge the second edition, & make it the
vehicle of any observation or description
of the ~~plants~~ ~~the~~ undescribed plants you
may have of the region explored by him.
He will pay for twice as many plates
as you proposed. You will get
left, in proportion, for the work you
do for Whipple - & so matters will be
squared. Whipples collections are those

as large as Bechthold's & Popes put together.
As Thunberg was let off from the office
office today, he has been with me in
~~the study~~ from 10 AM till dark.
- Judging his collection from Sauer's Gray.
He did not bring anything beyond
Campanula. ~~At~~ ^{the} ~~place~~ ^{place} it seems
all our botanists have agreed to stop.
- except so far as I have worked on
Podogon -

Asay office, Wednesday - I still do
a little botany in this palace of mammoth.
Thunberg brought a bit of a Leguminous
shrub from Mr. Gray's - in flower only,
- which I worked at yesterday & concluded
it was a Sophora - although it has ~~the~~
prickles, which, I believe do not exist
in any other species. He then suggested
that it was the same as a Leguminous
that he found on the Gola (no. 646) - with

a queer pod - You will remember it.
Sometimes seen the other species with the
pod only one seeded & constricted so as to
appear stipitate. This, if it proved
to be a real Sophora - Mrs. proposes to
call it ~~S. aculeata~~ ^{S. aculeata}. I send you
a flower from a specimen just brought
to me by Mr. J.

Have you identified that little Bahia-like
Burrellia that Fremont gave me? If not,
you had better place it in 'Whipple's' Campor.

I begin to hear that Sprague will not
turn out our drawings as fast as we
need them. I am authorized to send
Pope's to Peckle - if he had better
begin soon. If Sprague is going
to get married, he may go off on a
honey-moon excursion & so lose much
precious time. Find out what he means
to do - & whether he can work on

I see that Bigelow has the *Siphon*? aculeatus in his collection - do you? - but only one of the 6 specimens
has probably been made. Do you know the material? Where can I find it? - I have seen it in your collection -
you or mine? Mr. Tenny has given me a few specimens of the same - I have seen it in your collection -
we to have in next summer -

The only one concerning whom the
question was asked asked at was
asked at Washington, is myself - &
the President himself, as well as Mr.
Guthrie promptly replied that such
offices or mine were independent of politics

I am not sure where Gunnison's plants were
gathered - but they must have been between
the Salt Lake & the headwaters of the Platte
I will, however, get from Beckwith, the local
names of his Camps.

I will endeavor to select from Pope's
plants five species for Sprague to figure -
after the selection is made & I forward
the names - you can supply Sprague
with specimens from your own herbarium -
or the originals are too poor for him to work
on. The *Salicetum* might be one of them.

I know you had not Scheele's plants - but as they
must all, or nearly all, be in Lindheimer's of
which I had only about 150 species.

New York; Nov. 10th 1854.

My dear friend.

Your letter of the 7th came to
hand yesterday.

As to the charges for Beckwith's of Pope's
jobs - they are pretty high - but as Whipple
are so much larger than I expected, & they
are all to be paid for by U.S. am. he
will on the average get his work done
at a far less cost than any other for
his employees' charge. You will
not complain, before you get through, of
being overpaid. It is only \$300
that we are to receive for the
entire job.

Sprague must hurry up & get through
with that marring of carpenter's work
or he will do nothing for us this winter.
Let him do Pope's & Beckwith's without

delay. Work out these Compositae
fit for printing - I keep your rough notes
in case of accident to the copy sent on.

I will send on the Papago by Maggie -
who will probably leave for Cambridge
on Monday next. Send me a tracing
(on prepared paper) of Pholisma - from
Hooker's plate - and a copy of any obser-
vations on the plant not included in
what is contained in Walpers. You
think it better to retain *Corallophyllum*
than adopt the earlier name of *Leunoe*
merely because the latter was published
in a work less known than the *Nov. Gen. Sp.*
of Kunth - but that such a rule would produce
great confusion in our nomenclature - for
sure that the simple one of priority

The Papago is so called only by the party
of Mr. Gray - as a sort of nickname - because
it is used by the Papago Indians as food

Their name for it you will find written
in pencil on the top of the drawing, by
the artist. The root is cooked by roast-
ing like sweet potato ^{which it resembles in taste} & It is also dried
& carried with them on their journeys - They
usually mix the dried article with other
kinds of food, to give a flavory味.

I don't mean to resign in Med. Coll.
still I am quite sure that I shall lose
little or nothing by the measure. There
is no danger of our appointments
in the Army office being affected by
political changes. Even the present
thoroughgoing administration declared
explicitly that the officers below the
superintendent have nothing to do with
politics. So far as I know, all the em-
ployees (with the exception of the men
labouring men) in the office are anti-
administration men. Or at least, they
do not vote for the men in power

Nov. 10, 57
The ~~best~~ specimen of it fully confirmed the
structure depicted by the German artist from
nature - in the sketch herewith sent. I enclose
a portion of the head for you to examine.
If Mr. Spague can dress up a figure
from what I send, Mr. Gray (Surveyor of
the Pacific R. Road for Mr. Walker's Company)
would be very glad to have it for his
furthering work. My sketches will help
him in the analysis - but the German's
drawing if dressed anew, would answer very
well. Mr. Gray will pay \$10 for the draw-
ing - & Prentiss will do the engraving
- as he will also do Capt. Peppi - for the
bargain is made.

Phloxia differs from any plant in the
number & form of the divisions of the
calyx, - & in several other respects. I
should be very glad to make a distinct
genus of mine - to which the name *Am-
mobroma* might be applied - (at Sonora)
- or if ^{it be} only a second species of *Phloxia*

it might be called *P. Ammobroma*. - I
have an interesting account of the plant
from Mr. Gray. It seems that the
root descends straight down & does not
run laterally under the ground as I had
supposed. The Sonora Indians call it
in large quantities & use it as food.
I send one of Mr. Gray's plates - that Spague
may know the size.
As to the station of this plant it must,
as you say, come near *Monotropaceae* -
where ^{*Phloxia*} ~~Candley~~ places ~~it~~ & *Corallophyllum*.
- but it, & the allied genus (or genera?)
are so peculiar, that it ought to form a
separate order. - & if there be 2 or 3 gen.
- even that agree so well - there can be
no objection to separating them into a
little group by themselves. The name
will have to be taken from the oldest genus
Vint, - which, according to Walpers (Repert. Bot.
t. 482) must be called *Lennoa* - as
Lennoa & *Lexarza* described at a year before
Humboldt. - Give me your views upon

Careful study of the plant. Walpus folks,
Nuttall in placing ~~Senecio~~ *Phloxia* in *Orobanch.*
- in which he is very wide of the mark -

Thurber is making out a list of a small collection
of Sonora plants given him by Mr. Gray. He will
identify most of them from his own collection named
by you - & by the aid he will receive from me.
He would like to have one or two plants figured
by Mr. Spangue. He likes his place in the
Agric. office very much, & is now comfortably
lodged, where he can work to advantage. I
have obtained for him an advance of pay -
so that he receives \$4 a day (for working
days) - which is excellent for such light
service. There is but little for him to do -
after 2 1/2 PM. except two or three days
after an arrival of goods from California.

If I can get my own pay raised to
\$3000. a year, I will resign my place in
the Med. College next Spring. The interest
of the proceeds of my apparatus - &
some little jobs, which I cannot attend
to now, will compensate for what I
shall lose by my resignation. It is too
fatiguing to prepare for a lecture, & talk

(2)

Please send me a list of the plants you
intend figuring for Pp. - There may be
some of names that ought to be included -
especially two or three grasses -

I was unable to send the Sonora par.
write this week - not having time to study
it, as it has been a very busy week at
Med. Coll. in consequence of my being obliged
to lecture for another professor who was
sick.

I saw at once on studying the description
of *Corallophyllum* that my plant had nothing
to do with that - The figure in Kth. V. Sp.
I consulted also - *Phloxia* of Nuttall
is much nearer - but unfortunately I
have not the Part. of Dean (Hook.) containing the
figure - nor is the work to be had in town.
If, however, Nuttall is correct in describing
the inflorescence as a thick spike, 2 inches
long, the habit of *Phloxia* must be
diff. from the Sonora plant, which bears the
flower on a concave - or funnel-form disk.
I can hardly think that the inflorescence of
the latter is a very dense corymb - for I should

has rained since night before last, but
with almost a summer temperature.
Let Madge go to bed early this evening
as she will be much fatigued. I should
be glad to hear of her arrival by the next
mail - - Yours ever - -

J. Torrey

New York, Saturday night.

Nov. 11 1854

My dear friend -

Madge expects to leave here
for Cambridge on Monday morning.
She takes with her the specimen of *Papilio*
- white, though poor, will enable Snodgrass
to complete his figure. You will see
that what appears to be the root, must
in part, at least, be *Allegonia*, for it has
the same deals that you see on the part
of the stem figured by the German artist.
The roots proper can be seen on some of
the specimens, attached to the root on
which it is parasitic. There ought to
be introduced into the drawing.

I thought that in one of my letters, when
I said you might, if you pleased, insert
a note in *Thurber's paper*, just to claim
the discovery. I am pretty sure it is a
good genus - from its very peculiar habit
& the points in which it differs in some
other respects from *Mutilla's* genus.
I am drawing up a full account of the

plant for *Thurber's paper* - or rather for
a separate article to be inserted in
Mr. Gray's book. In this I will incorporate
the details of its mode of growth & uses given
me by Mr. Gray.

I send you also, by Madge that specimen
of *Bahiarubella*-like plant given to me by
Fremont. & once examined by you - that you
may look at it again & describe if you
like, in Whipple's ~~plant~~ *Compositae* -

As to that *Thurberian* "*Sophora*" I can
only say in excuse for myself, that when
I was at my house the other day, ex-
amining Mr. Gray's plants, I suggested to
him that the specimen under examination
was a *Sophora*. & told him to soak out
a flower & examine it himself. After he
had finished, he said it agreed very well
with *Sophora* - but I did not compare the
character at all - so I said I would
write to you, that the thing seemed to have
been determined. The fruit agreed well

enough - but I ought to have examined the
flower more particularly myself. He gave me
a specimen of his No. 646 - I no doubt it is
the same as Mr. Gray's plant - which is a
tree growing 15-20 feet high -

Thurber is not within reach of me this evening
& I shall not see him before Madge leaves
here on Monday - but I have no doubt
he will be glad to compliment Olney - if
the *Legum.* turns out to be a new genus.

I send another of the same family
in fruit - from Bigelow's collection. I
just now examined it a little - having
put it aside as a *Sophora*. of thinking
it probably the same as *Greggii* but the
pod is very different. It may not be
a *Sophora* at all. The stamens are
apparently encased in a sheath as the base
- but I only looked at the verticill, on a
pod. - It is late & I must
close for tonight -

Monday Morning. Madge is all ready to
set out on her journey - being determined to
go, although the weather is quite stormy. It

New York. Nov. 15th 1854

My dear friend

Your letter of Nov. 17-14th. - with
Nady's envelope gave us all great pleasure
I am glad she is safe under your roof -
where I know she will be a welcome guest

As I did not come home till nearly six
o'clock this evening, when it was quite
too late for the mail. Nady will not
get the article she wrote you in time
for your paper tomorrow night. If Mrs.
Toney had opened the letter she would have
answered by this afternoon's mail

Truher - as I wrote to you - will be
glad to have a genius given to Olney - but
I himself once hinted that if he caught
a genius, he would like me interference!
But beggars must not be choosers!

I fear it will not be in my power to
send a parcel to Hooker by your next
opportunity - but if I can get one ready
I will send it by Ship to Cambridge by
Saturday

I wish you would compare the *Amianthum*
that I sent you, with undoubted *A. Nuttallii* in
sp. barbarum - & if you have not the latter
I will send you some -

That *Sophora* sent in my parcel by Mudge
is not *Greggii* - which has turned broad ~~the~~
Coracioides fruit.

The drawing of the *Rhus* *cheesemani*
is on hand - & shall be sent to Reiche
to begin on. Let the rest of Beckwith
be left until Piper's are done - for
his money is ready - & he would like to
pay for drawings & report at the same
time.

Many thanks to Dec. Dane for the copy
of *Photismus*. It is, indeed, very different
in habit from *Ammobroma*

Nov. 16th Lt. Whipple would like to publish
some account of his collections as an
evidence that Botany has been
attended to in his collections, &
to satisfy the Secretary of War

I thought of giving him a general notice
of the extent & value of the ^{collections of} plants, with
a description of the new gen. & species
& a full report on some of the families

The *Eudorcas*, with the exception of the
grapes, are written out & ready to
print. You compare the *Compositae*
very shortly - & of an account of the other
families referred to you -

Wiegman has not yet sent me a list
of his canes & their localities.
He has prepared a report on the bees
collected in the Expedition - which will
be printed in the first report.

Ever yours
J. Torrey

Besides the two Boraginaceae for Pope
- I thought that we might figure an
Acanthaceae, Gonolobus probably Natio.
& Speulonia ovata -

Thurber has written to you, I believe,
revisiting the Olneya - but I suppose
you have come to the conclusion that
the muchly Legume is a new genus.
Let me know in your next what is to
be done with Angelon's plant so like
some forms of Sophora secundiflora,
but with a very different pod.

If you have any undetermined Calif.
man Eudorae (except grasses), I
with you would send them to me
for examination by Wadge.
Ever yours,
J. Torrey

New York, Nov. 18 1854

Dear friend

In looking over Pope's bits to select
some plants to be figured, I concluded
to ~~take~~ take for two of them ~~for~~ what I
had referred to Boraginaceae -

One is = 492 & 1583, Wright - Also from
Parsons & near Bismarckia, Gregg - of No 507 of
the Collection of Gregg distributed by Dr. Engelmann.
It was also collected by Parry & Bigelow - I
examined it a long time ago, & thought it
must be an anomalous Borag. The ovary
is 4-celled - but the ovules (one in each cell)
are pendulous ^{& anisotropous} from the summit! Only one
of the carpels opens - the 3 others remaining as
aborted cells almost obliterated, & adnate to the
side of the fertile one. The ~~seed~~ ^{seed} carpel
that opens is concisive, beaked at the summit
- seed with little or no albumen - rad. super.
Pray tell me what you think of it. I have
huddled over it this evening till I am tired
& sleepy - & must now leave it till Monday.

The other is a true Borag. - but also somewhat anomalous - It can hardly go into the tribe Echioideae although the style is bifid, for the fruit is more like that of Boragaceae. In habit it is more like Heliotropaceae. Look at it carefully. It is No. 279 of the plants furnished Dejean Emory by Mr. Wright. It is also his 485 of 1857.

Parr of Bigelow found it in abundance on the Rio Grande. The leaves vary in breadth & the position of the stamens is as in some other Borag. sometimes in the upper part of the tube sometimes at the base.

I think also of figuring 1554 (= 1555 & 1556) Wright - which I had long ago found Edwards.

It is a Borag. of Coahuila near Corderia & Stegnocephalus. It ought to form a genus.

Surely all three of these plants must be in Berlandier's Collection - if I should like to know what Delandolle did with them. What is Berlandier's 2256? De refers to Corderia with a doubt. It can hardly be the same as our plant.

Monday. I see that the first plant mentioned in this letter is not, as I had supposed, in Dejean's collection.

It appears to me you once told me it was a Verbenaceae - but it will not go there. Some Verbs. it seems have suspended corolla, but ~~not~~ they are here in the region, & I do not have a better example of "in all". Mydruaceae, however, which I remember is inclined to unite with Verbs. has suspended anther corolla. I then think upon the whole that our plant is an anomalous ~~of the Borag.~~ Borag. - but I must study it more.

Let me name figure 1554 Wright - & 492 (= 1553 Wr.) - if we will settle their botanical names before he figures them. I send you sketches of specimens but you probably have enough of the latter -

Among the plants that Thurber recd. from Mr. Gray is a Composite that I don't know. It is like Palafoxia - but differs in several important characters. I send two heads, a leaf, & a sketch. You have only specimens.

Also a Pentstemon from California by Mr. Fitch, overlooked when you sorted up ~~the~~ ^{the} plants.

* I return also a few of Pope's specimens that were mixed up with those sent me to study - thinking it probable you may wish to look at them again

All three parts include only about 200
specimens - of the specimens are in very nice
order - so that you will take pleasure in stu-
dying them. Sometimes they are rather scan-
dy - but there will be no difficulty in identify-
ing all of them - I had better write
out a full report at once. I could not
find it in my heart to charge more than
\$200 for this job - half of which, of course,
will be yours - money down on delivery
of the Report in Washington! There was
- what do you think of my financial
powers since I have had an office in
Wall St? The funds are ready for
10 plates - So Sprague must do these
also. - Hurry him up - I will send
the Beckwith plants on next Monday. The
parcel is all ready - I have added
the Sp. Fil. 2 parts recd. from Prachendge
These nos. do not contain all the ferns of
Pope. I am not able to identify Wright's
specimens in Sp. Fil. not having received ^{any} of
his first set of Ferns

New York. November 4th
1854

My dear friend.

The rest of Pope's plants came
in due time, & has been sent on with
mine, to Washington - but I have
been too busy this week to write in
detail. It seems that Pope wished
to print the matter immediately in his
own Report, - of which a new & amended
edition will be ordered by Congress. In
this we must add descriptions of our
new species, & the plates. The Sprague
is working on the latter. You must make
out ten if you can, as it is a good chance
- the money being all ready - So if you
with any thing figured, in Pope's list, was
is the same. I have bargained for \$10
each for the 800 plates - I suppose
must not disappoint us. I suppose

That, as usual, the Printer will make
dead work with our copy - & we shall
have to trust to Baird's Corrections, but
we will make all right in the final
report, - which will be in book-form. The
present is to be a vulgar pub. doc. . . . As
soon as printed (which will be in a few
days) sheets will be sent to us to have
our clean report on - This can be done
up at once - & then I will draw our
pickings. Although you have done a larger
share of the Catalogue than I, we shall
share equally - because I had to dicke
for the plunder. - Pope seemed to think
we worked too cheaply - but I had named
the sum - & it would not have been
right to have increased it. We shall
each get \$150 - Are you satisfied?
He says there is money for 20 plates

or more, if I say that more drawings would
be desirable.

Beckwith's plants came only two or three
days ago. & I reported to him their
condition - as he wished me to give
him an estimate for a Botanical Rept.

The collection consists of 3 parts - I A
set obtained by Lt. B. himself - who got
them in a journey from Salt Lake di-
rectly west to the valley of the Sacra-
ments. Parts II & III - from the jour-
ney of the late Capt. Gunnison. The
latter were made by a German - &
I send you a copy of his list of remarks.

The labels of Lt. B's plants are copied,
except where I have sent the original
labels. ~~When~~ it was possible I divided
the specimens & made two sets of them -
sending one to you - when there was but
one, I laid it aside for you, if it be-
-longed to your own favorite order -

New York, Nov. 22nd 1854

My dear friend -

Thurber handed me, this morning, yours of the 20th. I am glad you are going to send me some of Berlandier's plants - especially some that will enable me to verify DeCandolle's names. Will you examine that plumose-calyx thing very carefully. It must be near Boragin. - if not of that family. Those other Boragin, I wish you would look at too.

Send along the Miss of Compo. Whipple as soon as you like - They wish to see (at Washington) that something is doing. Canst you get a young man to copy the writing for you?

I send you a letter from Meier, relating to the puzzling Scapula. a Solanaceae as

Benthams was despoiled & regarded. He
seems to have no doubt in referring it
to Scribner. But I have certainly
found it sometimes to be pentandrous.
Of this circumstance, Bentham re-
garded it of some importance. I
hope it will prove to be a new genus.
for I was somewhat at a loss what
to give Emory. This will do very
well.

Is there ~~any~~ another *Deltoidea* (var.
& form) among Beckwith's plants?
If there is. Sprague's drawing of the
plant (made long ago, but never used)
would do for it.
In haste - Governor J. Torrey

Thursday noon

P.S. The copies of Vases of St. Thumber
have come to hand. I am delighted
with both of them - I will make remarks
on them in my next - J.J.

He is to begin on that queer Euphorbioid
plant from the Canadian. ~~of which~~ (Bigelow's *Alnus*
querqus Edl.) - of which I sent you bits of an
analysis of I must have not - he must have
it drawn in good style -

As to that "Erythronium" I compared it with
Gent. tuberosa of *E. tenuis*, but it seems
different - I must close abruptly
Tell ~~Madge~~ I meant to write but it is
too late
your ever
J. Lorry

New York, Dec. 11-1854

Dear Doctor -

Yesterday, while at Staten River
- where I went (with Mrs. L. Eliza & C.)
to eat Thanksgiving dinner at Wm. Shaw's -
Harkings brought down your brief
epistle of the 28th Nov.

No. 57 Beckwith (Coll. I) I passed over
without examination, as a small flower.
Furbushman - but this evening I have ex-
amined it, & find, indeed, that it has
5 fertile stamens. Did you notice, how-
ever, that the 5th stamen has a somewhat
different anther from the others. The
connective (very short in all of them) is
produced into a little blunt appendage be-
-yond the cells, as you see in my sketch
(c) - the other anthers are better represented
by (b.) than by (a.) There is left, better

Jennie

in a.c. than in a.b. - The association
seems, as you say, to be clearly that
of Rhinanthoides. But do you find
Benthams character of the association
in Sorghum reliable? I know nothing
against it myself. I looked over
all my paper extensive set of Pent-
stemonis - to see whether I had anything
of the kind showed above amongst them
- but I could not find it.

Your young German correspondent
Meyer called on me this morning,
presenting Lehmann's letter to you - of
your own letter to him (M.). He was
such a nice bearded boy that I
took him at first to be calling in the
half of Meyer - but he was the Eden-
vial chap alluded to by Lehmann. He

has a bright countenance of a fresh
English quite well. Did he tell
you that a month or two before he
embarked for the U.S. he placed in charge
of a countryman of his who was in-
tending to sail shortly for N. York, a por-
tion of his baggage embracing his
books & drawings? His object was to
save ~~the~~ the cost of extra baggage
- his friend having let them was allowed
to a perpender, ~~in~~ Since M. arrived
he has not been able to find the man
who has his property. - not that he sus-
pects his honesty - but he knows not where to
look for him. I advised him to ad-
vertise in a German newspaper -
As to Reptiles Expeditions none will
start till next spring - of perhaps not
even then - but I will soon have -
in the mean time I will draw him at
drawing plants - for he says that he can
draw & make analyses - Tomorrow morn-
ing I shall set him at work.

(357.1846)

That *Ceanothus* of Fremont; which you say
is = *C. lobbianus* Hook. in *Bot. Mag.* t. 480. was
placed by me with *C. sordidus* of Pamyj Calif.
(Sandrogo) Collection. It is also *C. Aca. Frem.* 1846
- which I believe you have. Dr. Stillman found it
on the Upper Sacramento - just where Fremont
357 came from.

If you ~~of~~ remain in Washington all the time
that you are delivering nine lectures, I fear
we shall be obliged to furnish Whipple's
plants in time. Quite a number
from the California Collection are reserved
for you to study. Perhaps if you can
spend a day or two with me on your way
South, I can work them all up.

Madge talks very often about the good
times she had in Cambridge, & of the kind-
ness of dear Jane & yourself. She spent her
time with you most pleasantly & profitably.
We all send much love to both of you -

Ever yours

J. Torrey

P.S. Did you send those *Carex*
from Whipple's Collection to Swott?

New York, Dec. 20th 1854

My dear friend.

I am ashamed that so long a time
has elapsed since I wrote to you. My excuse
in part is, the pressure of some engagements - that
I possibly made - especially those two lectures
before the Mercantile Lib. Assocn - which took up
much of my time. It "don't pay" to give popular
lectures that require much preparation. These
two have caused me a great deal annoyance
from the newspaper writers. To be sure they were
rather complimentary - but I cannot bear to see
my name spread before the public. Two days ago
I had another application - which I should like to have
accepted. It was a request to give 6 lectures before
the apprentices of the Mechanics & Tradesmen Society
(a highly respectable Institution). I could have given
them with an hour or two of preparation each &
the lecture room is close by the College - in the same
street - but I declined because they wished to publish
smelling advertisements. So I lost \$200. which was
the price offered! The Mercantile Lib. gave me \$75
for the two lectures - I hear that you have
made a pretty good bargain with the Smithsonian
- but it will take you from your studies a long time.

I am greatly obliged to you for the precious contents of the trunk brought home by Maggie. The mss of Whipple's & Beckwith's plants are very satisfactory. I am now working out my part of them & shall soon be through with the latter. The Albuquerque plants (my "kete") are done. & I have done the Monocots of the California Collectⁿ - except a part of the grasses - Many of the others are worked out also -

I fear about that mss. of Scribn. in H. Beckwith - for if the character of the activities breaks down - there won't be much to keep it out of Pentstemon. I left my sketches out of my letter by mistake - They are now enclosed. The ^{outline of the} ~~Sketch~~ is not so different from the others, as to lay much stress on the character - but it is sufficiently so. to be noticeable -

Tell Mr. Clark that I have not yet heard from Washington - They are very busy just now at the Smithsonian - but I hope to get a letter soon - & will then inform him what Expeditions are on foot

Those drawings of Sprague came safely, & are highly satisfactory. I will look up the 10th plant as complete Paper set - but when shall we have some more from Sprague? Really I begin to fear that all we wish will not be done. It is to be hoped that he will take a new start after his week's - long of work harder than ever - Offer the good soul my hearty congratulations on his good luck. Little Meyer has not been in since I gave him a second plant to try his hand on a fortnight ago. In two or three days I will send on a lot of mss to Whipple & draw on him for some money - at least for the drawings - Let me have any of Paper that we have & will get some cash from him also - This will help you to accommodate Sprague.

Those drawings on cloth are all ready for you. I wish you could be here in Christmas week - even for two or three days - so we could then settle some hasty points together.

30 Wall St. N. York.

Dec. 28th 1854

My dear friend.

I was right glad to receive your letter of the 23rd. It came to me the day after Christmas.

I shall be delighted to have you here as long as possible before you go to Washington. If you will help me out with names of doubtful species, I can save you time & work up many orders of Whipples plants myself. This will be best if W. is urgent & cannot wait till your Smithsonian lectures are over.

I will look carefully at the vegetation of Pennsylvania - & keep a look out also for the same character in other States. When you come over I will tell you the result - & show you the peculiarity of this & the author -

We shall all be so glad to see you good
Jane again - so pray don't leave her
behind - She would also enjoy two or three
weeks in Washington in the winter.

I hope she has recovered her ^{from} fatigue, for
I am sure she overwrought herself to please
the children on Christmas. I remember
what a pleasant time we had last winter
& pictured to myself such another
metamorphosis of your study. I would
even surrender my own sanctum to us
a happy company as I saw at your
house again.

Well, I am getting along pretty
satisfactorily with my botanical studies
this week. I work after breakfast
an hour or so - & recommence when
I go home from the Survey office
I wish I had all your Enogr. for


just now I am receiving my own set - It
was necessary to do so in studying
the pretty large number brought home
by Bigelow. I have now almost all
the species hitherto described, except a
few of Mettall's in Pl. Gamb. & ~~the~~ several
of Geysers, described by Hooker in *Soot. Bot.*

I send you Jane a Happy New Year
in advance - Yours ever

John Torrey

New York, January 15th 1855

I hope you received, in time for your lecture last Friday, the muslin drawing that I forwarded by mail.

That Euphorb. plant of Holton must be *Stylocera*. I mean the one that ^{he} brought ~~out~~ cast to the house.  - not the one with large flat pods -

Last Saturday night I made a careful reexamination of the *Pentstemon*. Finding in one flower that there were 5 anthers, all alike. ~~the~~ of that other flower had one of the anthers as I represented to you, I was convinced that the plant was a spontaneous character.

On examining two soaked buds I found that the revivification was precisely that of *Pentstemon*. The middle lobe of the lower lip (as it may be called) was decidedly exterior - & the others folded as I have represented them in the

accompanying sketch. Several anomalies were found in the flower. One had two of the lobes nearly united into one, & only 4 stamens, without any abortive stamen. In another flower the 5th stamen had a ^{slightly} club-shaped extremity & never bore an anther (you can see it for yourself.) - In one case I found the 5th stamen with a one-celled anther. Now I see nothing ^{to} keep the critter out of *Pentstemon* - & if you say so, I will make the necessary alteration in the *Ms.*

You will be pleased to see the accompanying letter from Carey. The old chap has waked up at last. When you get your promised letter, I suppose you will renew your correspondence with him. I shall write to him by the next packet. Will you send him Thurber's paper?

Have you given Sprague any of Beckwith's plants to draw? How would it do to change *Sidalcea* for a n. sp. of *Prodraca*?

I hope you are succeeding with your lecturers. Thus far I have seen no reports of them. Jane must enjoy herself in Washington. There is much to be seen that is interesting in that wicked place -

Henry must be in high spirits at the vote of the Regency. I hope now that Jewett & Choate will ground their arms - Remember me affectionately to Jane & all the Henrys -

Yours ever
J. Torrey

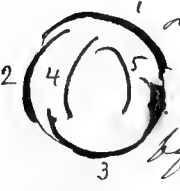
New York, Jan^y. 22^d
1855.

Dear Doctor -

Your letter of the 17th
came in good time. I was
glad to get the list of those Carices
from Booth. He seems to think
that they were collected by Thurber
- They are from Byelor's (Whipple's)
California Coll.

I got crooked about the upper & lower
lobes of *Pentstemon* - not referring to
Benthams - or perhaps of *antennaria* as
he calls them. Nearly all the
flowers are in an abnormal state.
many are wide open even in the
bud. In many of well formed buds
the middle lobe of the lower lobe is
so short that it scarcely meets the

others, ~~of~~ but in two cases, where
it met, it decidedly overlapped the
rest. In a bud that I examined

 on Saturday the following was
the result - which you can verify
by the specimen. The middle-lobe
here was overlapped by 1 & 2. You
will see by the stamens of this but
that the 5th has an imperfect
anther. Indeed I have found
two flowers or buds exactly
alike & it will not do to depend
on any character drawn from
them to base a generic character
upon.

L. Beckwith has sent me a
draft for \$200 - payable in
Washington. I have endorsed

it payable to Prof. Huxley. Please
draw it - use \$100 for yourself.
I bring me the other \$100!

I hope to see you ere long in
New York - Try & spend
least a day with us on your
way to Cambridge - Give
my love to Dave & believe
me yours truly & affectionately

J. Torrey

New York. Feb. 5th 1835

My dear friend.

I was greatly disappointed when I found it necessary to leave town last week. I had long been anticipating the pleasure of a good time with you, when, unexpectedly, our Superintendent announced his intention of going to Washington, I said it was necessary that I should accompany him. He could not have selected a worse time for me: but as my presence at headquarters was deemed important, I was obliged to go, if there was no time to give you notice. I hoped that we should be long enough together on your return, to see the some of Bigelow's difficult plants; but it being this was not to be. I regret my absence

from the city the more, because my
opportunities of seeing will not be so frequent
henceforth, as they have been for some
years past. - Now I must send on
to you the plants I wish studied
- which will push back a little with
my Report. -

When I was in Washington I
stopped at Willard's Hotel. for I
wished to be in the neighborhood
of the Treasury & of the office
where the Geol. work is done.

Henry was overwhelmed with busi-
ness relating to the Smithsonian
& never called on me. I saw
him twice at the Exhibition, but
he only conversed with me in a hurried
manner for a few moments of
time only about his own troubles.

I had some talks with Baird. &
was much with Whipple, Beckwith
, Blake (geologist to Williamson's Expedition)
& other travellers.

I hope you will urge Sprague to
finish Pope's plants - for not until
then can you get any more money.

Beckwith's plants should be put in
hand at once - & if any of my
specimens are needed, let me know.

I write at the Gray Office - but
will send another when in a
day or two. Eliza is yet in
bed but hopes to get up to-day or
tomorrow - Give much love
to Jane & believe me ever yours,

J. Torrey

I am at a loss what to include in
Poir's set of drawings beyond No. 8. There are
no Endogens of interest in his collection
except I figure a grass - viz. a n. n. of
Festuca - I like your suggestion
to later Salicartium to be figured
= I still retain the 8 plates, as I have
not quite completed my study of those
green Boraginaceae. I find the
Seymouria in H. Berland, under
the no. quoted in DC. prodr. and also
as no. 2389. but I don't find Philadelph.
nor the *Chetia hispida* in your set.

I shall try next week to select some
plants from Whipple's Exped. for you
to study

I hope Sprague's mother will get well. In
one of your later letters you said she was
very poorly. Give her my kind regards

Yours faithfully
I
J. Torrey

New York, Feb. 2nd 1855.

Dear friend
I found your letter of the
21st inst. at the Ugray Office this morning.
You must have thought me very re-
mish for not answering your previous
letter. Every day however I thought of
you, & wished to write - but I hoped
to get something ready for you, that
I might have something to say. In
a few days, my med. college lectures
will be over, & then, if spared, I hope
to be a more prompt correspondent.
To be sure I work at botany every
night - & generally, a little in the
morning too - but I don't get along
so fast as I could wish - & family calls,
occupy some of my time. I have
the Plantago & Lyrinacher, ready
for you & will (D.V.) send them by
express tomorrow. I will look

up the other plants that you enquire
about.

I have written several letters to Durand
if he seems in good spirits now. The
old chap is hard to be convinced when
he has got a cretinism in his head. He
don't know how to retract species. - Every
division from the type he considers new.
I sent him descriptions of the new plants
in my herb. that were named for
our Reports.

You did not leave a Corner among the
specimens brought from Durand, & I
know not which species you refer to.

I shall write to Probst by the next
Steamer.

Those drawings for Beckwith ought
to have been in 4-~~to~~ - but I neg-
lected to write in time. They must
spread out the analytical details, & to
cover a larger plate than 800. if they
like. If however - Sprenger has

not completed - or rather begun, the
whole he may or will put ^{the end of} them in
Le-le & to get larger pay.

I place in the parcel to go in the
morning the plants of Durand that you
wished returned. Her "Aclepias" is the
is *Acerator cordifol.* Beckth. Pl. Karroo.
The long-racemed, small-flowered Eudogen
which D. took for an *Atropa* is
ally of *Phalangium croceum* of Mex. -
which, however is no *Phalang.* at all -
nor is it an *Orthopaleum* - which
Elliott referred it. I think it a peculiar
genus. You have much plant from Louis-
Laine, Halle, & from Wright. Chapman
sent it to me as a n. sp. of *Nolina*!

I have no accession in *Primulaceae*
(of any consequence) - since you send
them in my herb. You have cut the
hint about *Dodecatheon* - & you may
be right ⁱⁿ putting all into *D. media*.

New York, March 7th 1855

My dear friend

Your letters of the 26th Feby.
& "Saturday Afternoon" are before me: the
latter received yesterday.

I have been very busy for the last
two days, examining students: attending
Faculty meetings for this week the
lectures close - & next week will be Com-
mencement. After this (Dr.) I hope to
have more time so as to work at Albany
in earnest.

Pope writes us we especially that his
plates are to be in 8vo. - but I still
think the Sect. of war intends to have
them in 4to. You had better get two
more plates ready. Tell Spurgeon to
begin an *Salvatorum* in 4to - but make
the drawing in such a way that it may

(Phe. 2. 1846)

be raged. The drawing of Phacelia in
sent into this. Look at the pendulous
ovules. Thomson has been working
among pretty full set of Phacelias, &
has made nice dissections of the flowers.
Do you wish to see them?

I don't know any body in the Sandwich
Islands - but there is a son of one of
the missionaries here - a student of theology -
- but attending medical lectures. I will
get a letter from him for Harvey - &
perhaps I shall be able to obtain a
few others.

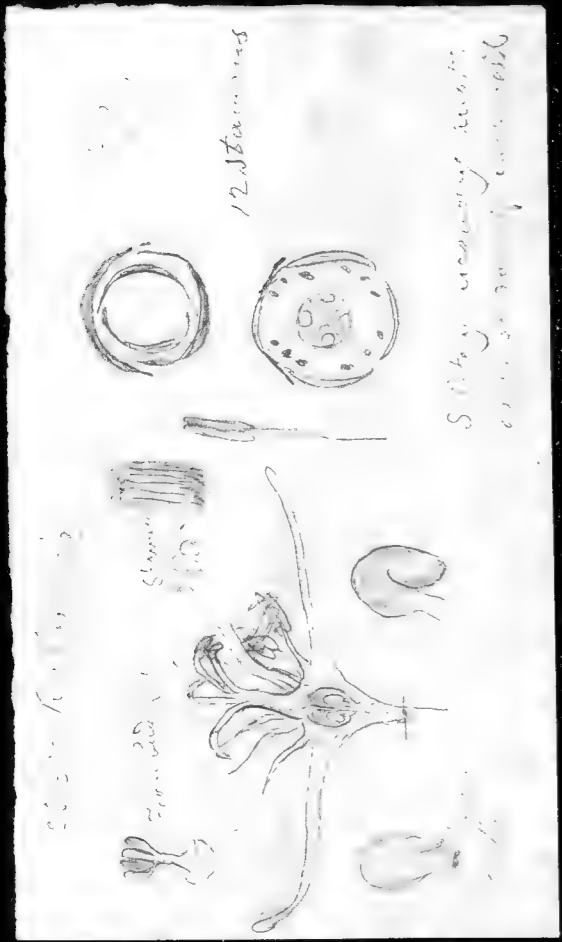
I send you one third of the stock of
the "Benicia Plantago" - which you can
keep. I thought it not best to risk
the whole in a letter. Here will be
enough to determine the characters

Yours ever
J. Torrey

Mem. for Dr. Gray

You did not tell me before you mentioned it in
your last letter (Feb. 21.) about the Monardella.
On your specimen of "M. villosa 1913." I remarked in
my herb. that it agreed neither with the Descrip.
nor the fig. of Bentham. I have specimens
from Shelton & Rich that do agree. My ~~specimen~~
plant. 446, 1846. seems different, & I marked it as
" = Calif. Ross in herb. Gray" I have also a note to
send you a fragment of mine. - which is already laid
aside. This is an erect shrubby species.

I received lately in a letter from Dr.
Bigelow - some male flowers of the "~~Wellingtonia~~
Wellingtonia. They came to him from a
friend in California. I can see nothing
in which they differ from Sequoia. As
I have already shown that the latter differs
mainly in size, there can be no doubt
of the identity of the two genera of
Wellingtonia, will stand as *Seq. gigantea* - I
send you some of the flowers
Send brief than, for ~~the~~
more Academy, now!



Nuttall, in his N. Am. Sylva, has a genus *Dios-
phyllum*, - to which he refers, with doubt; *Ocotea salic-
ifolia* of Vth. His figure is bad, & he seems to know
but little about the fruit. Now I don't see how

this differs from the ordinary *Oreodaphne* (*Umbellu-
laria*) *California* & *Nees*, - with which Nuttall
says he is unacquainted. I have never re-
ceived any other names from Calif. From
a young man who has been in California I
have received a very good drawing of the fruit,
specimen. It seems strange that some has
given a good figure of the *Oreodaphne* - for if
Nuttall's be the same - it is a miserable one.
Have you the ripe fruit?

New York, March 27, 1835 -

My dear friend

The box came safely, & also
the letters for Mr. Clark. I took them
to him on board the Hermann. He goes
direct to Paris from England. It will
be some time before he visits Germany -
nevertheless he took charge of the parcel
for Berlin, & will find out, on board the
steamer, some person who will see it
safely delivered.

Many thanks for the nice duplicates,
intended for my herbarium. Nearly all
of them were desiderata. I shall keep
the box, as you suggest, for transportation
to & for portions of your herbarium.
Of Chilepis I have no fruit, ^{in my herbarium} but
there may be some in a little collection
at the Medical College - which I will
look after when I go off to derive this

affnoon. I have never figured the
plant. Does not Engelmann (in Wislizenus)
describe the fruit?

Have you seen a little volume entitled
"Poetry of Vegetable Life: by Schleiden" - of which
Alphonso Wood has given an Amer. ed.?
On the title page it is called the "first
Amer. from the London ed. of Kewey" "The
work is absolutely the same as "The Plant" of
Schleiden. Was it Kewey or Wood,
who changed the title? Thurber was
taken in & he having been misled by the
title, & thinking it a new work.

I have had a swelled face from acids
in my jaw - The girls said I look as you
appeared when you suffered in the same way.
At table, this morning, they "snarled" at you
a good deal, because you made so short
a visit, this last time - & because you seem
to care so little for them when I was away -
Take care - you will have to return & make
your peace with them - Love to Jane -
yours ever - J. Lorry

Mem. for Dr. Gray

Among the plants brought me when you were at Wash-
ington (I rightly remember) was a specimen collected
in Panchon's herbarium - then

Clymene Wallichiana
Planch.

Altham

It seems to be allied to *Hydrilla*. But I find no such
name in any of my books. Lindley has it not
altho' he enumerates others of Panchon's genera in *Hydro-
chord*. What is it?

Have you a duplicate of No. 544 Smith. Lex. Fac. III
(which is = 710 Fac IV, p. 11 space?) It is in herb. Durand
& I don't like a volume as numerous to deposit them
It is not in my herb.

What is to be done with the synonymy of *Calochortus*
& *Cyclobotrys*. The former is the older genus & was
founded by Rostk in *Calceagans* - His *Caloch.* is *Cyclo-
botrys* of Sweet, Lindl. &c. ~~but~~ but not *Caloch.*
in *Syll. Syst. & Beulth.*

Brocheuridge writes to me that his volumes
(Celtic prep. & plates) have been five months in
the hands of "letters" - & that he cannot
get a copy of either.

Just try & return the box this week - J. L.

When you determine any of Berlandieri's plants. I hope you will record them, on a separate slip of paper - that I may have the benefit of them. Did you not propose that I should send you a blank book with the series of Berlandieri numbers, that you might put names against them as they were determined from time to time?

I send you a letter that I received lately from good Duward. I cannot bear to tell him he is unfit to elaborate collections, - for it would grieve him sadly to become convinced that after waiting so many years he must be contented to do the mere drudgery of Botany. & spend his last years in arranging the academy's herb!?

Capt. Humphreys, of Washington, who has the charge of the reports of Prof. Exford, asks me if I have one ready on *Rever's plant*? You have the plants (so I told him), but I rather think you did not expect to report on them. If they insist on your doing so - of course you will make them pay for it.

You will be glad to know that my salary has been raised to \$3000. With love to Jane
Yours ever J. Torrey

New York, April 17th 1855

My dear friend.

Your letter of the 13th came to hand this morning. Thumber has received his share - He will send you Wood's Book soon.

The plant of ~~Fendler~~ ^{Endl.} (710 II of 544 III) concerning which I wrote to you is a *Liliac*, ~~noted~~ near *Triteleia*, but quite distinct. The 6 stamens are equal, & their broad filaments united into a conspicuous tube, at the top of which there is a crown of 6 lanceolate prosepals alternating with the anthers. I cannot refer it to any genus in Kunth, or later authors: & yet the plant has a pretty wide range in Texas & New Mexico. If new, how would it do to call it *Androskephium*.

I have found mine of it since I wrote
to you, & now only need the ripe caps.
tulle.

That Philips, Esca, Fremont 1846 (like
all the rest of that collection that are
lettered, instead of numbered) is not
recorded in Fremont's note book. ~~All~~
these marks seem to have been collected
by a special party, detached from
the main body. They are doubtless
from California, & I am pretty cer-
tain, from the Sacramento Valley, or
rather the "Foot Hills" of the Sierra
Nevada

I really do not know where I placed your
description Pentstemon (Pentstemon) anomalous.
It was laid aside to send you, - but, ~~strange~~
to say I have ^{made} a pretty thorough, but unsuc-
-cessful hunt for it. It must, however

be entirely re-written, now that you regard
it as a Pentstemon: but if I find it
on Monday (it is now Saturday night) I will
put in this letter.

You had better figure Adalcea candida for
Beckwith - or, how would it do to
serve up Agasizia? unless that had better
be reserved for Emory

What shall I do with a great lot of
Hottel's New Granada plants left with
me when he went to Ponce for three
weeks ago. One set is for you - & one
~ two sets (I believe) are to be sent abroad

That anomalous Aphora - like Euphorbia
I should like to have figured, but I have
no notes of my analysis of the male flower,
& there are no more such flowers left -
They were very scarce in the specimens, did
I send you any notes, or description of the
flowers? Are there any of the specimens
that I sent you?

We want not Beckwith, but one name of Pursh!

The D. Maier who is going to the
south to herbogize - is quite a diffe-
rent from young Myers - a
young German who brought out
letters from Lehman (one for
you I think.) The latter is a
gardener who seems to understand
the cultivation of exotics, & is very
desirous of obtaining a place. He
comes well recommended. Every
few days he calls on me, but
I cannot yet find him a place.

J. L.

New York May 7, 1855

Dear Doctor

Your letter of the 2nd. came
in good time. I have looked at
the Darlingtonia sketches. They are all
by Sprague himself. I sent him the
only flower that could be spared for analysis
- having merely peeped into it to see the
stamens & stigma. Not wishing to sa-
crifice the only remaining flower, I turned
to the Expt. Exp. herb. where I found there
was an old flower stalk. The axis of
the fruit remains, & also ^{minute} portions of the
diseppiments, with the bases of the
sepals - enough to show that Darlingtonia
is like Sarracenia in the position of the
carpels.



There. (1) sepals
(2) cells.

Madge, in a letter that accompanies
this tells Mrs. Gray (as I suppose) how
the matter stands about her voyage
to Europe

I think you had better figure Filago, etc.
for Pope. As soon as done, forward
all the drawings & the bills, & I will
send for what is due. Both for drawings
& for our work.

That Berlandier plant 2367 I have
not yet examined. At first I called
it (as a first thought) *Pekaea* - but
the Cal. is 4-ranked; besides, other
obvious differences. I will look at
it when I go to my study

Hurry up Beckwith's drawings
& forward them at the earliest day

What time will Sprague have
a work on Whipple's plants
- of how soon can he begin?

I read a late letter from
Harvey a day or two ago. It
was sent to me by Mr. Loshunsky.
He was in good spirits, & had
found some nice sea weeds -

The family are all at Brooklyn
just now - but will go into the
country as soon as the pleasant
weather sets in.

Much love to Anne
Yours ever
J. Torrey

sketch seems to show the structure of the
flower. There is nothing of the sort among
the regular apetalous orders. For some hours
I worked on this puzzling thing, losing much
of my rest one night - but without sacrificing
myself as to its affinities. Do try your
hand at it, for I shall feel uneasy till
I know what the plant is. Perhaps I
will attack it again this evening. I don't
look at the Calyx - or especially as it is called
of Petalae - I see how sharp the resemblance
I rather think the flowers are in an
abnormal state.

Do you know anyone going to England
or France soon, who could take Madge
in charge, till Harriet could join her?
Mrs. Fletcher is not going at all!

Your ever
J. Torrey

New York, May 16th 1855

My dear friend:

Your letter of the 5th has
not (I believe) been answered -

The parcel for Madge has no doubt
been acknowledged - as I believed it
promptly. For the plants I am

truly thankful, as there were among
them quite a number of my best - the
Cypripedium, that will go into my herbarium.

For that parcel of seeds I have not
found the owner. I showed it to you

on our mantle (where it remained a long
time) when you were last in New York.

Tell me Mr. Baumann's address & I
will send it to him.

I wish you could get some one to take
Sprague's place. It is unpleasant
to have him always in such a sulky
unsatisfied humor. He gets ^{twice}
as much as ~~Pisces~~, & if he would
readily he could make a good living.
He will fulfil his threat some day
& leave us in the lurch. We must
do our best to get out a man from
France or Germany. Inquire of
Markin or some other of your friends
whether an artist cannot be
engaged to come out on good terms.

Shurber has told you about
Meyer -- so I need not say more
about him. Suppose you try him

a while this summer, of a certain
size, for your purpose.

I cannot find that var. of *Protuberans*
annuatum. I am quite unable to
guess when it has been laid. You
can make up all you wish to say
from Sprague's sketches.

Shurry up that *Teladropis* - & let
us get our money.

I have been dreadfully bothered about
that *Berlandier* plant No. 2369. There
was more sp. in the set that you
sent me - some 20 - but the fruit bleeds.

There were several buds - which showed
no petals. The calyx ~~is~~ is sometimes 5-lobed.
The ovary is almost wholly inferior, & as I
think, 4-celled, with a solitary anat. ascending
ovule at the base of each cell. The accom-
panying

New York. May 21. 1855

Dear Doctor -

I shall send in Pope's Report
the moment I hear from you. There
are two or three species to be described
which you will find enclosed on the
other side. You know that we
are to job \$150 a piece for this job.
If I wait till you are ready before
the money can be drawn. If only
nine of the plates are done. Let them
come with a memo. of ~~the~~ reference
to plate X. as I wish to complete
the letter press. Write by the next
mail, as the printer is impatient
Yours ever
J. Torrey

Is he described by Dr. Gray - for Poir's Report.

"Muscivora? (n. sp.) Formerly sent by Mr. Wright, but
not noticed. Description to be given. On
Stauv. Etacado, &c. April "

Phacelia n. sp. - apparently. Character
to be given.

Solanum = mauniosum Engelm. & Gr.
Is it yet determined?

What is the Gonolobus no. 1078
Wright? It is among Poir's Plants
& I would like to introduce it into
his list.

not (so far as I can learn) been
yet taken up - which is rather
strange. Perhaps you can suggest
a better -

Now send me those three remaining
plates of Pele - with the bill - I
hurry up Beckwith's - I
will urge Procter to come out.
Indeed I proposed to him to
write up - but he has not
replied -

Band says that he is trying to
stave off Whipple's Nat. Hist. Report -
I hope he will - for his material
is too good to be got out hastily.
Whipple himself is willing. I will
do no better. a partial report will be
made - of a detailed one afterwards.
Yours ever J. Long.

New York. May 27 1855.

Dear Doctor -

Letters & drawings O.K.
I have sent on all to Washington
except a description of the "Museum"
- which is not such a
"nasty little thing" as to be
"blinded". It is strange that

neither Wright, nor Bigelow,
Schott nor Thurber, found it. I
have - besides, the specimens you
returned, none of the plants, except
a single individual with
very young fruit; ^{found by Perry near Eagle Pass} other specimens

are complete, & I have been
digging into them. The
thing will not fit any genus
in DC - nor in any herb. - It
comes nearest *Chacophyllum*.

I have made out a good analysis
of it, & I think you will say it
must be the type of a separate
genus.

Did you notice
the involucrum? It is just like
the leaves - as in *Discopleura*.

We shall be in time to get
a description of it into the off.
of Poir -

Sprague writes to me that you
are to furnish a small report
of Stevens' plant. - Perhaps you
have as much material as
there was for Poir.

Did I tell you that from fruit-
ing specimens of that Rutaceous shrub
& from a flower bud, as well as
from some bleached flowers, I made
out a pretty full description of
the plant - quoting - (to keep every-
thing in good humor) - the Mex. Board.
Rep. and? I did not like

the generic name that I botched
up in haste - but it may do
very well. *Astrophyllum* - in allusion
to the radiated leaflets. It has

broken the ice. A new search
for more of it has been unsuccess-
ful - so it must be pretty
rare -

Much love to dear dau. -
Our folks are all in the County.
- I expect to visit them for the
first time this season - this
afternoon yours ever
J. Toovey

New York, May 30th 1835.

My dear friend.

I enclose blank dupli-
cate vouchers for Sprague to fill
up for Pope's drawings. The
one sent to me for the Bot. Report
is as follows: "In examining
& reporting upon the botanical
collections made by Capt. John
Pope in Survey for Pacific
N. W. Survey from the Rio Grande
to Red River"
Capt. Humphreys, who has this
business in charge, says, in a

letter received this morning. "the
account of draughtsmen should
state the number of drawings,
size, &c. - the kind of drawing -
- to whose report belonging & -"

"Return in duplicate to
John D. W. Peckham, ^{apt. & Chf.} ~~Business~~ ^{Off.}
War Dept. - who will transmit
the amount to you" There
now - you know how to get
the "siller"

I have this moment received
- without explanation - (the address
- if I mistake not, in Mr. Gray's
hand) a photographic likeness of

a dear friend - which I shall place
among my treasures - One of these
days I may return the favor - A
gentleman has engaged to take
my beautiful pliz on glass - so
that copies of it can easily be
multiplied -

That Umbellifer must be
a good genus - I have drawn up
a little description of it - & I think
we may venture to publish it
in Pope's Report - As there is
a Pekoregium, & a Lithosciadium
&c. - one plant, growing in sand,
maybe called Plammosciadium or
Ammosciadium - Pope may have
another species - since you have

I think we must venture on a genus
for that Umbellifer of P. & Wright.
It is no way like *Neureneium* - nor is
Eumunium - tho' somewhat like it

Capt. Humphrey says there will
probably be 4 plates for your Report
of Stevens' Plants - Can you get
Sprague to do them? Has he nearly
completed Beckwith's? If you can
see your way clear - it maybe
as well to forward his bill to
me, pretty soon. I have sent

for the blanks. Was there
not a queer *Chenopod.* among Stevens'
plants by Suckley? I must have
it - but cannot look till I
go home -

New York. June 13th 1855.

My dear friend.

I have the drawing of your
letter. The bill for forms has been
sent on. It is a little strange that
mine has not yet been paid - tho' for-
warded some time ago. I wrote yes-
terday to remind the disbursing clerk
that the money was expected.

The Supt. of Public Printing has
notified me that in a few days
he will advertise for proposals to
engrave - & also for inscriptions of
the plates - I am led to believe
that I can get the engravings for
Prentiss. The drawings are to
be left in my hands for the

applicants to see. Preble will
no doubt offer to do them cheaper than
any other person who can execute
them properly.

I write here at the Army Office - &
regret that I didn't make a note at
home respecting the Nashville Arhif
alis - In my next I will supply
the omission. P.S. you had not the
mature fruit before describing it
as a n. n.

The Amnrobroma drawing I will
pay for when I get money from
Washington - (being a little short
just now) - I run the risk of
getting it from A. M. Gray - who is
rather slow in money matters. I be-
lieve,

however, that as Compt is printing
his book (now in press) - the illus-
trations are to be paid for by U. S. Am.

You may, if you like make the desc.
of Arhif papers. I don't remem-
ber anything more you are to do for
Preble except the description of
Pentstemon heterandrum -

By to-day's steamer I have written
again to DeCaisne to urge Rivieux's
acceptance of your proposition to come
out here - I wrote also to Hartweg
on the same subject. We shall
be spared if Sprague fails: In-
deed, good draw botanical draughts-
men are rare, even in Europe -
Delancey says he can hardly recommend
any one in Paris except Rivieux.

10, 55

S. mammosum?! It is no such
thing as I think. You referred
my plant in the text of *Phe*
to - (I forget the name just
now - one of Cavanilla's species)
- I shall give you my views about
this of one or two allied species
when I can get my notes - which
are at home

Have you Bentham's - or your
own names for any of *Wright*'s
N. Mex. & Tex. Labriatae? Or
any names of *Monspet. families*, *M.*
Wright? Did you determine
that green *Berleandria* plant?
With much love to Jane - I remain
as ever - yours
J. Torrey

Madge has almost given up all
hope of going to Europe. We hear
of no friends going over in whose
charge to place her till she could
join Harkness - - Yes - there has
been one chance - but there was no
room in the vessel. Indeed
steamers & sailing vessels have every
berth secured for a month to come

The printing of Whipple's Report - or
rather the Nat. Hist. portion of it,
will probably not be commenced for
several months. Baird will try
to have it off in a year; as he
needs all that time to prepare
the *Zoology* & drawings -

The family are all enjoying themselves at the Palisades. I go up on Wednesday afternoon, & come back the next morning. & again on Saturday & remain till Monday.

This gives me three evenings with them. I told you (I believe)

that we rented our house to a small & very quiet family for six months, at \$100 per month.

I receive the 4th story. I go up after office hours - take my tea in the study, & do not go out again till 7 1/2 past 8. to breakfast - No one comes

to see me - save Thunberg - who calls about once a fortnight - All my friends come to the office - & here I write most of my letters - So I accomplish considerable in Botany - as I have no interruptions -

I hope you will make that *Megastiza* grow, & ascertain some doubtful points about the fruit. There must be two species - as the fruit is variable. Perhaps there are three - Rev. A. Fitch says he has seen so many.

Who told you my *Solanum flavidum* was your *S. Dupelii*'s

New York July 5th, 1855

Dear Doctor

I have just recd yours of
the 3rd.

To-day, I recd. from Washington
(rather to my surprise) the proof
of Beecher's paper - I had hoped
the matter was to remain at rest
a few weeks - but the printers
are so eager to get their
money, that to keep them will
go - The compositor has made
awful work with the copy.
He has altered all that I put in
Ital. to Roman! This is the
way they always serve us at

I remained in town yesterday
- partly to dine with the
Cincinnati - but more
to see the fun. You know
how I like m^{rs} of Saltpetre

I hope poor Jane will soon
recover her strength. She ought
to be at Beauty now. Why does
she ask my girls to visit her
when she is so feeble? I
will deliver her kind regards
when I go up on Saturday.

I must send this at once
a la mode mail - mine
stays in my next -

Yours
J. Torrey

Washington. I shall tell
Whipple plainly that the
Money for his Report shall
be thrown up at once if
we cannot have our way
in the printing

You never sent the descrip.
tion of Patterson's Memorandum
Pray let it come while I do
the proof back - Send me
also without delay the descrip.
tion of the plates.

Do you wish any extra
copies of the paper? Say how

many I shall order. No contact
for the plates has yet been
made!

The money for Paper Drawing
of Report has not been paid
because the Dubuque Clerk
of the War Dept. has been
absent from Washington
more than a month. He was
to return about this time. So
says Capt. Humphreys - I
wonder what others have done
who want money more than
me do?

expect her home this week. Eliza
returned on the 3rd.

Mrs. Torrey is pretty well for her -
Yesterday she walked to Church (down
the hill at the Palisades) - & today
she came to the city with me -

Herbert is to be examined for entrance
into the Free Academy this week -

I am busy on Whipple's plants now.
Can you take a few families to
work up? Remember you are to
get \$150 for you - share of the plunder!

The money for Pope has not been recd
but must come soon - The delay, I told
you, was caused by the absence of a clerk
of the War Office
Ever yours
J. Torrey.

U.S. Army Office 30 (inst-10)

Wall St. July 9th 1855

Yours of the 7th was lying on my
table when I arrived this morning. I have
transmitted the map for Beckwith, along
with the proof, to Washington. As
we agreed to have no Latin descriptions
in Beckwith of Pope, I translated the
descri. of Pent. Leteraudum ^{you know} _{old name}

I send you thanks for Beckwith's
drawings. Keep the drawings till
I write to you. No contract has
yet been made for the engraving
- but Preble will probably get it.
In that case you can send the
drawings directly to him -

Just now a small parcel of plants
came in from Schott - collected in the
lower Colorado - nothing special -
perhaps a new *Composita* - but you
shall judge for yourself soon

I enclose a letter from Meier, may
be let Spurge see something compli-
mentary respecting his work. Return
it to me soon. Recd. it only to-day.

I have also a letter from Dr. Alexander
- very friendly - but without much bot. news.

Dr. Andrews, who resided long at
San Francisco, & other parts of Calif.
writes to me from Mansfield Ohio.
that he has brought out many Calif.
plants, & wishes to study them. Wants
a list of books that he will need!

He promised to send me what I have
been anxious to get for years, viz. fruit
of the two species of *Megarrhiza*. All
that I have has been so altered by pressure
that it is difficult to determine
the true structure. I hope to
induce Dr. Andrews to send on all
his plants. No doubt they will
aid us in completing our descriptions
of many imperfectly known ^{Calif.} species.

Do you have Mary Henry with you?
of a sweet girl she is - Give my love
to her & also to Jane - Margaret
was so much benefited by her trip
to Berkshire so that she determined to
remain there a few days longer. M

New York, July 17th 1855.

Dear Doctor -

Yesterday I rec^d. your two
little parcels of Suckly plants. The forms
came on ~~Monday~~ Saturday, & I had
no time to examine the specimens, as
it was my day for going up the
river. I much regret that I forgot
to take it up to my study last
evening.

One of the *Echinops* is clearly *E.*
patulum (No. 7) - The other is the same
as one of Fremont's (1844) found at the
southern base of the Sierra Nevada. Al-
though near *E. Laffelle*, it is distinct
& so I marked it in my herbar. It
may be called *E. Fremontii* T. & G.

The Champ. of Suchley that I considered
a new Obione 'when at your house in 1853,
is confirmed to be such. I send the
notes of sketches made at the time. It
ought to be figured.

The others I will send tomorrow -
You can forward Beckwith's Drawing
by Express to A. G. Seaman, Dept.
of Public Printing, Washington.

I have sent on Sprague's bill, &
informed Capt. Humphreys to get the
money - of also what is due for
Piper's Drawings

When I wrote to you about Whipple's
Composites I did not remember at
the moment that you had done
both the California & Albuquerque

particulars of the Collection.

I wish Broth would send me his
Mothogr. 'Alexandria', as you say,
looks just like him. The party I
knew Tracy recognized it in a moment.

I will tell Holton about Hooker's
Plant. He is now in town.

You shall have some more of Whipple's
Plants soon.

Send me a leaf of *Garrya launifolia*
Benth. Hartw. no. 81. p. 384.

I hope that Lane is improving -
How are all the Leungs? Give
my love to them -
We are all well. Madge returned
from Berkshire last Friday. She was brought
by the trip. Yours ever
J. Lory

New York, July 20th 1855-

but he insisted that 5 shilling
was the regular price, & wished
me to pay it - but he at last
yielded. He said it was $3/6$ to
Boston, & it was worth more
than $1/2$ to send it over to Cam-
bridge! I would like to send
parcels very often if they were
not extortionate in the Express Office.

Let me know whether you
wish any thing from my hands
that I may place it in my
next parcel

Are you going to the meet for
this year?

Yours ever
S. Torrey

Dear Doctor.

Did you get a proof of Beckwith's
Bot. Report? The printer says that
one was sent to you (I gave you
address distinctly) - There were
several things in it that I wished
to see & correct. I fear it is now
too late.

The little plant here inclosed was
entangled in a dwarf murex from
Graft Valley. It is probably a *Stunted*
specimen - & there was no more of it.
I noticed it last evening - & have
picked a little about to-night: It
seems to be something curious, &
I don't know what it can be.
At first I thought it might be
a *Limonella* - but it ain't - Then
I supposed it was a *stunted* *Gardneria*
acres plant - but it can hardly be

You will see what my notes say
about it. There is no trouble in
seeing that it is diandrous - &
there are no signs of petals. - but
I didn't work much on it that
you might examine the specimen
intact

That Nettle can hardly be
Pouzolzia - but I should like to
see Wright's plates of that genus.
- especially of those species that
seem to make an approach to
the California plant. My herb.
is poor in Nettles proper - & I have
not a single species of *Pouzolzia*
We might, perhaps, refer our
plant to a subgenus of *Pouz.*
Did you mean that I should
keep those sheets of Weddell's names?

If you did not, I will return them
in my next parcel - I wish
you had the whole of this article.
How would it do to send a specimen
of air nettle in a letter to Weddell?
!

Do you know that Rafinesque
gave a full & very fair account
of the *Maclura*, in the American
Monthly Magazine Vol. 2. No. 2 (1817)
He called it *Doxylon pomiferum*?
According to rule we shall have
to fall back on his name.

I sent the parcel of Bigelow
(Whipple) plants off this afternoon
What do you pay the Express
for one of this size? I have
always given 50¢ to Cambridge

Thurston says the vessel with the B. Brant is in, & he will attend to your business
at the earliest moment - but now he is very busy - too good however being among friends together

look again for some of it - though I
searched in vain through a whole bundle
containing many specimens from the same
locality.

Capt. Humphrey says the Beckwith
drawings must be sent to him - so please
dispatch them by Express forthwith.

I send you a letter that I have
just recd. from Hackley - that you may
read what he says about DeCairrie &
Pisereux. R. cannot make, at his price,
\$1000 a year, in Paris - & we could hardly
promise him \$2000 here. He works fast,
however, (as I saw by the number he turned
out for me in about 3 weeks) - & at \$12
for 4 to, \$14-15 for folio, & \$9-10 for 8-vo. he
might realize \$2000 in Cambridge. He
could, also, bring out with him, an assistant
- whose labor would pay as well as his own.

I cannot repeat in your Enq. till I go home.
Love to Jane & Mary Harvey - your ever J. Long

New York, July 24th 1835.

Dear Doctor -

I went to New Haven this morning
to examine a copper smelting furnace
(for a consideration) - & on my return
this evening I found your letter of yes-
terday - You will see, on the other
side what I say about the Hornblow.

I will let the Nettle rest till you
send me some bits of Pruzotzia.

Don't fail to tell me about those
Lathyrus Oregon plants - sent in my
last bundle.

You had better (as you propose) send
the Beckwith drawings in your parcel
of Ms. for Capt. Humphrey

I shall try DeCognwell about
the Martins - It will be about
as well in the ~~British~~ Library as
in mine. Do you know what

I paid for what is published - &
whether it is, ahely D.C. would take
the work at the Subscription price?
Could he get it cheaper than we
get it?

Thanks for the specimen of *Garrya lan-*
ifolia - Myself I could not
have acknowledged the receipt if you
of the 20th. - I have not seen
Shubert to day, & don't know what
success he has had with Fl. Mexic.
I hope it has got into better hands

When the last parcel of the work is
sent out the regular booksellers take
charge of the work & get it out for you?

July 28. Your letter of the 28th was
on my office table this morning. Oh, what
a botanist. - not able to make out even
a weed an inch high! Must lay the duress

Homalobus - not *H. tenuifolius*, Nutt.
much stouter, broader leaves & but
same section (leg. sepals). If Nuttally
species are good - so is this - but I
doubt whether the number should not
be reduced. *H. decumbens* & *H. tenu-*
ifolia, at least, ought to be united,
& so ought *H. dispar* & *H. multif-*
florus.

The New Mexican *Garrya* (1834, 1849 & 1789, 1851-2 Wiggins)
is different from *G. elliptica*. Its thick, acute leaves
muculate on the margin with readily distinguish-
it from *Benthonian* plant.

Eudickens' gen. *Fadyenia* is good for nothing
- all its characters are found in *G. elliptica* &

on the shelf - I confess that we don't know
the family to which it belongs? Scroph. I
suppose it to be - yet I am unwilling
to believe it a monoderm. I shall

Have you ever required of
Ward for a painter? Can
you spare Sprague to work
for Whipple?

Your humble
J. Torrey

New York, August 1, 1855.

Dear Doctor -

I have your letter of 30th ult.
I reply to it at once, that your mind
may be set at rest about Backwell's
Report. We agreed to do that
job for \$200 - I do think it is
sure else to come from that source.

There will be something from Whipple
one of these days - I must try &
squeeze another \$100 out of
him for a big Report as we
shall make. We must stand

up for our craft of these
are hard times. Yesterday
I went again to New Haven
to testify for the Copper Company -
& charged them \$50 for my
services.

Pay Sprague \$10 for Annabroma.
I will put the money in my
next parcel. It is probable
I shall have the cash refunded -
but I must be paid anyhow.

Thanks for the bits of Bozobzia
which I will examine carefully

The vessel that has the ~~the~~ H. Bras.
on board has not yet begun to
unload? It will be some days
before they come to this parcel.

I applied personally for a free
permit - & got it -

It seems that it will hardly be
safe to send out for Provient at
\$2000 a year - unless, as you
say - we get him under salary from
Govt. Emory will be home ere long
& I will try & get him to allow
a salary - we shall be at a
stand still unless another artist
besides Sprague can be secured.

New York, Aug. 11th 1835

My dear friend

I wrote to you last week, & shall send off another letter before I get an answer; because I wish to present the case of little Meyer to your notice. He was here a few minutes ago, & seems very desirous of obtaining employment in his line. But now he is obliged to act as a sort of clerk in a refectory, in order to obtain bread. Do you know of any one about Boston who would give him a place as a gardener? He would not object to doing anything pertaining to his calling.

It was only ^{this} morning that Funcher
was able to get the books out of the
vessel. The parcel is now at the
express office, & I have my copy of
H. Brasil. There are some numbers
of the Luminae, & a lot of Bot. Faik.

I find that the bit of Illecebre &
my sketches were, through inadvertence
left out of my last letter. They are
now enclosed.

Aug. 7th. There were 3 sets of Nos.
1, 2 & 3, 1853 of Luminae. I had
No. 1 only, of that year, & have retained
~~the~~ Nos. 2 & 3. - If the set was intended
for some other person, I will send them
back.

Let me know what I am to pay for
my share of ~~the~~ H. Brasil.

Don't forget to look at the specimens
I send you lately.

Your parcel goes this afternoon
by Express. There was no charge
on it except 20 cents for a custom
house permit. I know how to
do these things now.

I have another proof of Beckwith's
plants & will send it to you to-
morrow.

Yours ever
J. Torrey

Bring home Bot. portraits. What you think I want - Shumbar says get
Duplexes - that he may be supplied

him by Hastings. Give my love to
him - but I shall probably write
him another letter by the time you
see him.

What shall I do if they push me
about the Whipple Plant. I cannot
do ~~them~~ all myself. They must
delay the printing till you return.

We are all pretty well at the
Palisades. If we are opened we shall
have a room for you & your good
Jane next year - for Mrs. Torrey
is putting up a box on the hill.

I shall write you more sketches
in my next -
Mr. Shumbar, who sits by my
side - sends kind regards, & his good
wishes for your success -
Ever yours
J. Torrey

New York. Sept. 1st 1855

My dear friend

I was taken all aback by your
letter announcing your determination to
sail for Europe! Really I am sorry
on every account that you were obliged
to go: - most of all, of course, because
of Mr. Loring's continued ill health. Greatly
do I hope you will find him comforted
- if not entirely recovered, when
you reach Paris. You probably
thought it so improbable that you
would go, after all, that you made little
preparation for doing botanical work
abroad.

Holten wrote me an urgent letter
to forward his N. Grande plants so
that you could take them with you

but it was impossible to get them ready. I did not get his letter till near noon on Tuesday last - & the bundles were at the College. They require packing - & some of us had time to get them down. The gods of two steamers was on all - & all of us were hard at work. Holton ought to have taken the plants with him - or at least have made up the package before he left.

I meant to have sent you a note that I rec'd by the last steamer but one, from Poirieux - You will see him, however. It seems very improbable that we can secure his services - I judge it is that botanical artists are so rare. If we had a person who could make good analyses there are artists who could make very

drawings of the entire plant. Pray try to find a chap.

Among the plants that you kindly sent me with the Berlandier parcel was a *Cymophris* of which there are beautiful fruiting specimens in the Oregon Expt. Exp. Herb. I had named it *C. martinii* - but that is of no consequence. I think it was sent to Poirieux to be figured - but I am not sure. I shall add the description of the fruit to your account of it.

The Providence meeting, as you know, terminated happily. The invitation for West Point came a little too late - but Albany is a good place to meet in.

You will go & see Carey in London. I hope he received the letter I sent

Altho' I shall greatly regret the society of dear Madge - especially in winter I am so desolate
it seems best for her to go, in order that the way to what travelling & a change of
physical conditions may do for the establishment of her health. We shall return to the city of the
in 3 or 4 weeks a little before the beginning of the next.

Please return the proof without delay
as the printer waits for it

Mr & Mrs. Robert & daughter sail
on the 31st for England. I have offered
to take Madge with them as far as
Geneva - where Mrs. Fletcher has
gone. Mr. R. has generously offered
to pay her expenses out of back, &
her board at Geneva - as well as
to show them what can be seen on
the way. They will remain but a few days
in England - I only two or three in Paris
it being their purpose to go to Italy - Con-
stantinople - & perhaps to Egypt or
the Holy Land. Mr. R. would take Madge all
the way, but three ladies would be too much
for one gentleman. On their return they
would explore the Continent to some extent, &
also spend some little time in England & Scotland

New York, Oct. 20, 1855.

My dear friend -

Your letter of yesterday is before
me. I purpose going up the river
in half an hour, & must be brief
- I have received nothing from Dr. Maynor
- I did not send Stearns' Report to
Sir Wm. Hooper because it was so
swathely printed - I mean the
Bot. part. - but I will correct a
copy & forward it - ^{if you wish} - ^{if you wish} I will
- The Bot. of Beckwith is printed -
but I saw no use - & fear there
are mistakes - a 100 extra copies
were ordered - of which you can have 50.
- Alphonse Del.' book never came -

Monday -

= I was interrupted on Saturday & was obliged to break off without finishing my letter

Dr Hooker & Thomson did not send me their Flou Andrea Vol. 1.

On Saturday I received a proof of Poir's Bot. which I looked over on board the boat & now send to you - You will see that I have gone over it only in a cursory way - Make what corrections you like - I had something to say respecting those Labels - but my notes are not here & if they are of much consequence order what number of Labels you think best - I would like about

50.

I feel but little heart for study on any thing else - It is more painful to write than to write - I try to see you & read some - but I cannot yet tell when I can write you a line. Give my love to her. She sent me a sweet letter from J. Long

The proofs of Koenig's Exped. have not come.

Capt. Humphrey keeps sending to me for Poir's drawings - but they were surely sent on. I cannot remember just now whether they were transmitted through me, or whether you sent them yourself.

I have worked not, as well as I could, Whipple's Coll. up to Compositae except a few orders a genera - Also most of the Apetalae & Eudogones - Will you do the Salsphulari at once - & such other Monopets as you like?

I will select at once some plants for you to study -

Rosaceae: but I suppose we shall have to credit into Saxifragaceae. The plant seems to have had leaves, which I suppose occupied the place of the black scars. You will see the mode of inflorescence from the persistent pericels on one of the specimens. Pray let me know what you make of it now that you have all the materials I can give you.

My notes are sent just as they were written, without being revised. The Endogean took much time & I feel pretty well satisfied ~~to~~ with them. The descriptive of the new ones, are however in English yet - & must be translated - This I cannot do as well as you - Many new ones in other orders are described in Latin. Criticise what I have done - & add remarks - & make changes - & I will copy the whole for the printer

New York, Nov. 7th 1855 -

My Dear friend -

I have been prevented by various duties from sending off the parcel of specimens that I have ^{had} nearly ready for several weeks. Tomorrow I hope to dispatch it, & also the ms. of Pt. Whipple, as far as ready for your inspection. Wherein it was possible to take a duplicate for you I have done so - in many cases leaving none for poor Bylandt. Whether he will press me for a set of his plants, or not is uncertain. When he once applied for them, it was to offer them gratis! Now I think you need them more than

any other Botanist who is likely to
purchase them. . . I must save as
many as possible for dear Hooker.
- but duplicates ^{of the best plants.} are scarce in this
collection. Sometimes I send
you the whole of the specimens of
a plant as I have as yet
selected scarcely any for my herbarium.
There you will help yourself
to when they can be divided.

I once peeped into a flower of
that Mohave plant - but could make
nothing of it, - though I kept it with
Scrophulariaceae. Since I received
your letter I have examined one bud of
a young flower. The former was left
uninjured, & the latter has only had the
ovary cut out. The cor. is deeply bilabi-
ate. The upper lip involves the lower
- so that, if Scroph. it belongs to Antirrhinum.

- But there are only two Stamens, & the
anthers are clearly one-celled. I am
puzzled with a singular stipitate organ
that is inserted apparently outside the corolla
- but it must be inside. The extremity
is curiously pleated, of petaloid - but on
opening it a little there appeared to be
an imperfect anther-cell on one side.
- Have we got another monstrosity here?

There is left of it but two more specimens
- besides the bits I worked on. I send the
whole to you - the latter enclosed in this
letter - that you may commence working on
the thing before the parcel arrives.

You said in a late letter that you
had an inkling of the affinities of
Caustia. I send you all of the material
with my sketches. On re-examining the
specimens I feel pretty confident the
capsules were covered with a thin flesh.
Look at the remains in a paper. This
character throws no new light on the
subject. If the Stamens were perigynous,
I should look for the plant in

Two days ago I heard at last from Mr. Seaman
Capt. of Pub. Printing. He sent Beckwith's draw-
ings to me that Perkins might engrave them.
They were forwarded at once. But what could
have become of Papers? It seems they have not
been recd. at Washington. They were sent by
me in the usual way - plainly directed, as I
now remember - but I forget whether to Capt.
Humphrey or to the care of the Secty of War -
The Capt. has just written to me on the subject
& says they must be redrawn if lost (of course
at the expense of the U.S. Govt.) - but this
with little much time, unless Spague has
his original sketches. Has S. done
any of Whipple's plants? If he has not com-
menced Applanochete let him not do it for
I think it has been drawn by Proceus.

Madge must be more than half way
over by this time. Dear girl, how I feel
the top of her society. I find so overcome
- almost every day, with the certainty of my
bereavement, that I am almost ready to refuse.
- till I think of the blessedness of my dear
one - & then I submit - or can be thankful -
Give my love to dear Jane, - from your J. Todd

1847 55 (3-
I am not sure of have a three species
of Ribes & with your opinion on them
- You can complete my list, or send
me your observations. So with
Cucurbitaceae. Before I write out
the description of *Megastyliza* I write
you to see my whole series of specimens
& also notes & sketches I have made
of them. I send you a newspaper arti-
cle on one of the forms which I received
from Mr. Andrews. It is by Dr. Kellogg of
San Francisco. The title was torn off when
I got it, & I knew not what the Doctor
called his plant till you gave me a
hint. (marah?) If his description is correct,
he must have had still a different
form from any, of mine. I have never
received a fruit that was "4 to 5 inches
in length & 2 or 3 inches in diameter"
& yet containing only "six seeds". I
know of 4 varieties - 1. With the

fruit nearly round, somewhat ovate, or
depressed, armed with long prickles
4-celled, each ~~with~~ cell with a single
subglobose seed - [

2 like No. 1. but with a few very
short & slender prickles -

3 Fruit ovate, somewhat acute,
4-celled, ^{with prickly} the cells 3-5-seeded.
Seeds compressed - obliquely
imbreathed -

4 - Fruit like no. 3. but smoother.
You will see by the specimens
that these forms seem to pass
into each other. I regret
having mistaid my box of dried
fruit - They would confirm my remarks
better than the pressed specimens.

The Loranthaceae I have not
determined to my satisfaction -
You have, in the parcel, a complete
set of the specimens -

I have written out the Cyperaceae.
- of most of the grasses, are determined -
- but some of them must be left -
for they cannot be described without
a thorough study of the genera or
groups to which they belong -

Shall I try my hand on the
Borraginaceae? I will, at least
furnish you with my notes on
them.

There was a curious Pentstemon - that
was ~~not~~ overlooked when I put up
the Scrophs. for you. I had it
in a separate little parcel & I
described it as a n. sp. You will
judge for yourself -

A few plants from the Dalles of
the Columbia were sent to me
from Dr. Buckley. I will forward
them to you in my next collection.
There are not many varieties among
them & the specimens are not
good. I took out a few duplicates.

Dr. Gilbert's request shall be complied
with. I have laid aside the
space. It is in as good order
as it was when received.

I will do what I can with the
Coniferae & the Grapes & report in
two or three days. Return my man-
uscript when you have done with it
as I wish to get it copied clean for
the printer.

We are all pretty well. Herbert
has just finished his lessons for tomorrow &
you to be. He gets along pretty well in the
free Academy & improves in his marks every week.
We all send love to your & Amanda's. Very yours,
J. T. Jones

New York Nov. 13th 1850

My Dear friend

I have your letter of the 8th 17th.
Thanks for the determination of *Polemoniacae*.
That *Collomia glutinosa* I strangely misnamed - but
without examination. I have seen the true *C.*
grandiflora.

I hope my bundle reached you safely. You
will see that I worked on a few *Munspetalae*.
What shall we do with the *Clintonia splendens*?
Once I told you that I saw in a field well
in a bush, - name provided for the genus
but I cannot recollect where & I have
sent it for it - since in vain. Did I not
propose for it the name of *Dawsonia*? It
is a nice plant - known to some botanical
societies & is quite as good a specimen
as poor *D.* might have - but we see so
large so many names yourself! But you
did not think of *Clintonia splendens* was
it? - plants named after them! We
will have to settle the matter in *Plant. Whiffle*.

- Work away in numbers. You have
a set of them - but if you need more
materials of any, I will supply you.

That a Roman coin was engraved by Beville
as a specimen from a drawing that I
sent for - I hope set I leave without
Humphrey's to make further search
for the other coin in Washington -
Some must have them & they are
in one of the Public offices at Wash.
As to Ensign's description of N. Gen. &c.
I rather think we had better adopt
them as the two reports already print-
ed are in the vernacular & they
might be twaddled in Congress about
printing matter for the people in
an unknown tongue.

I am surprised that Sprague
has not yet done any thing for
whiffle - when you left him some
drawing to make in your absence -
You must have laid him out
work for as well as for
job. Why do you engage
in preparing new works when you
have so much on hand already?

It seems to be folly to spend your life
in driving at full speed without a
moment's pause.

by Margaret,

I sent a Stagnation Report & Hoche
of a copy of money was left at
New Roberts for her to take - but
it was left behind in the Confer-
ence of so large a party setting out
with me - have a chance to send
it, if I put it in my next parcel
- yours &c.

My Gray packet came in good
time & was placed in Madge's hands
the morning she sailed. There is no
doubt Mr. will send a letter to her
good Aunt Jane - thanking her for
all her kindness.

I have done Montaigne Three
vols not many of them. Also
Asclepiades

able to leave town very soon She
will write to Dave soon - Our Jane
would also be pleased to spend some
days in Cambridge, but she cannot be
spared until about the holidays - I
wonder then her duties may keep her
in the city. I will tell her about
your kind invitation. Herby is very
diligent at the Free Academy - & speaks
pretty fair in his class. He is improving
decidedly. We have pleasant times to-
gether - as he is my bedfellow, & we
occupy his dear mother's room. This is
a satisfaction to both of us - though it
often makes us sad to think of the change

Send me a note to fill up the blank
in your list. about Beecher's - v. sp? formerly
Baylor or Bill. Wm. Felt - & by Emory with
Gila. Say something - of Providence
name - for it must be new.

New York, Nov - 16th 1835

My dear friend.

Your of the 13th is before me
Since I looked over your copy of Campor.
& found so much Latin in it, which
would require translation & reworking.
I have concluded (as many of my descrip-
tions are in Latin also) - that
you had better translate my English
diagnoses - This will require less work
than to put all into English.

I will send you Nemopets - (the remain-
der - except such as I have done)
of Bigelow's N. Mexican Coll.

As soon as you have finished my
list, let me ^{have} it that I may copy

it further printed. The sooner
we get this job off our hands the
better - I shall get Henry
to call on the Secty of War &
urge the justice of our recovery
at least \$400 for our task.

I have long had doubts respecting
those two Leavenworths - but
you shall have all my materials
& judge for yourself.

Chapman's n. gen. is clearly
a Thalita - & perhaps the
common Southern species. I
wonder that he had not compared
its characters with those of Thalita

as given in good authors. As
you say, he don't seem to know any
thing about Endlicher. I fear
he will make numerous blunders in
his Southern Flora.

As to those drawings that he sent
me, I wrote to him about them.
He did not say what I should
do with them. I will inclose
them in my next parcel for
your inspection. I should like as
yet, out of his sketches, a good

drawing by Prager; of *disterna*,
& publish it in some Journal.

Eliza ~~and~~ like to make you
visit, but I fear she will not be

New York, Nov. 22, 1855

My Dear friend

- I shall dispatch a parcel to you this afternoon - It contains
1. The plants brought by Suckley from the Dalles of the Columbia - of which I wrote to you if I remember correctly
 2. Your Endog. Hartweg. - named as well as I can do them without special study. The grasses & Cyper were not included - I should like to see them some time -
 3. Your Map. of P. Whipple for review -
 4. Leavenworth - Herb. Torr.
 5. Drawings of Florida plants - by Chapman - for your inspection

6. A drawing of *Valeriana* —
which has long been saved away
& which I came across lately — It
must be yours.

7. Macy's Report for Hooker —

8. Eight drawings of Exfl. Exped.
(Oregon & Calif.) plants — by A. C. C. C.

They are a portion of what I sent
him to do, four or five years ago —
What shall be done with them? I paid
for them myself. — Who will return the
money. — There is also a drawing

of *Cercis occidentalis* sent to me
long ago by Brackenridge — Now by
some one in Washington, for the Exfl.
Exped. — It wants the pod — of them
will be worth engraving

That Mohave thing I looked for in
Pedaliaceae — but thinking you had
settled the character of its ovary, I sup-
posed it could not go there. It probably
changes much in habit later in the
season. — The name you propose
for it will do.

The map of H. Whipple of wh. you
returned me a few papers shall
be corrected at once & I sped for
the printer —

— I am obliged to break off here
— so good bye —

Ever yours,
J. Torrey

Is Sprague doing any thing for Whipple?
We shall be in difficulty for the
drawing unless Sprague can work for
us - I must break off
for this mail
Yours ever -
John Torrey

I was too late for the mail on Saturday
- so I open my letter to add a few words.

Bogelov will probably have a quantity of matter
on trees, & on the geographical distribⁿ of plants
on his route to California. What he has promised
in Whipple's preliminary report is bad enough. I
corrected a copy for his next edⁿ. but fear he
will not adopt all my suggestions of alterations.
His bot. geog. map is a funny thing - but it
is not so bad.

If you or Jane wish to send a line at any time
to Mudge send it to me, & I will endorse it in
one of our letters. Mudge had not yet seen Cary - but
she had sent my letter of her card to him. J. T.

New York, Nov. 30th 1855

My dear friend

You probably received from
Perkins duplicates of the proofs
that he sent me - i.e. Quercus
& Viola - for Beckwith. They
look very well. - & he says four
others will be sent very soon.

I am greatly troubled about Pope's
drawings. Capt. Humphreys has
just written to me again on the
subject. At my request he made
another search for them in several
of the departments at Washington.
I had the whole ten. One of them
(Saxandrium) was sent to Perkins

to engrave, as a specimen of his
work for Seaman to look at -
The other nine were forwarded
to Washington by one of the Ex-
press Companies - (Herbar & one
of my young men took the pa-
cel) - & seem to have been
lost irretrievably. What are
we to do? Did Sprague re-
tain his sketches? They
must be done over, somehow;
If the report is printed, & re-
ferences are made to the
plates. -

Saturday Morning. We have just received a
long letter from Madge. She was in
London, & expected to leave there for
Paris on the 22nd or 25th Nov. She was
sick the first few days of her enjoy-
ment of the voyage. Mr Shaw came aboard
the ship as soon as they arrived at Liverpool
& had ~~two~~ rooms all ready for them at the
Adelphi. This was an unexpected pleasure
to Madge & the Roberts. We shall know
more about their movements by the
next steamer

Please send some more of my negs. &
any news that you have of your own.

What mounts remain to be done, of
Whipple's Calif. Coll. besides Sabiotea?
You will see by my notes what I have
studied. The Books are done, all
the apt. (I believe) - except Crinoidae - which
are in hand.

Poor Raphael - I feel for him deeply
& know how he suffers. Do tell him
how much we love him - We shall meet our
dear ones ere long. This is a blessed
hope -

Madge sent no letter by the last steamer
- so we have not heard from her since
the day or so after she arrived in Paris.
She was to leave for Geneva, with
Mr. Robert, in 4 days. (This was on the
23rd Nov.) - We are anxious to know how
she is doing in Geneva. Her friend Mrs. Fletcher
(daughter of Dr. Malan) is there &
her husband has lately joined her from
Rio Janeiro (where he was a missionary)

She sends much love to you dear James
& you - & is very grateful for the letters you
sent her. But she will write to you herself
very soon - Did I tell you that Lady
Hooker lately sent me a letter of 8 pages?
Sir Wm was in France when Madge's letter was
sent to New - & when Lady H. called, she
hardly had left for the Continent. He seemed
very sorry to have missed them - & sent a
nice letter which she had prepared for
Madge, & which I have forwarded to her -

New York, Dec. 21, 1835.

My Dear friend

Last evening on returning home I
found your parcel. It had been
looked for since Monday. The con-
tents were in good order. Manu-
script all right. Now the copy-
ing will be done in a few days -
& it only remains for you to examine
what I have done in the few remaining
pages. The Labretes of Confession -
&c. will be sent to you as soon as
I write up the few Cuvolutesca
- which I see you did not finish - There
are not half a dozen in all. I
am sorry that the Lrauths were not
sent long ago to Engelmann - but I
supposed you had them all at your
finger's end. It is not always easy,
however -

to distinguish between *Phoradendron*
& *Ascentrobinum* -

Among the *Labiatae* was a little
annual that I can make nothing
of. It must be new - at least to
our Flora - Here it is - Perhaps
if you don't know it, Bentham had
better see it. I have sketched out
my own of it.

Thanks for the overhauling you
have given my notes on *Eudor.*
Whiff. I am glad a better name
has been found for *Helminthopodium*

Pray let me know whether Sprague's
sketches of Piper plants are sufficiently
worked out to enable me who is a
good draftsman to use them. He
himself can be employed to better
purpose if we can get another artist

for Mr. Pops. Presley has a son who
draws very well - & the old man too
has made some very nice sketches.
Did I show you his trial of the script
that I proposed to call *Emorya*?
It is quite true that something has
done to rectify those of drawing. You
will remember that Menandrium was
in Presley's hands when the others
were here -

As I write at the Gray Office
and all my botany is done at home
I cannot now make remarks on your
map

I believe that your letter of 24 Nov -
Dec. 6th has not been answered
You can, if you think best - give
my determination of *P. Hart. Eudor.*
to Bentham.

That drawing of *Whifflesea* did not
come. Pray let me have it soon.

New York. Jan. 10th 1856.

Dear Doctor.

Many thanks for the copy of H. DeBrie.
It is a capital work - choice illustrations.
I have not yet had time to examine it
much - but shall look into it as soon
as the Whipple Report is copied & sent off -
There are some papers for you to see - which
I shall send in by mail - Whipple has
revised the plan of the Bot. part of his
Rep. I. Bot. Charac. of the Country (parted
over - by Rej. etc. II. Description of the
more important forest trees - by the same.
III. Cactaceae - by Engelm. with many
figures - ~~cut~~ to be cut - I think in wood
They are not elaborately finished - done by
E. himself. He has a chart of Geog. dis-
tribution of the species. Whipple thinks
that a miniature fig. showing the habit of
each, might be introduced...

Let Pursh be by his hand at restoring
me of Sprague's Rep. - drawings - & several
of new figures - The Rep. of Rep.
is not printed, as I told you in one of
my letters. It is Boeckh's, of which
the extra copies of the new edition of his
Reports

I do not send this in rather a "superior"
He will be able to see at a glance - having
noticed so much in the family

There is a thing about the description of
the practice in Newington. - I have just
looked into the "Book of the" also he says
the name means "little branch"

Mr. Fox called when I was out - &
did not return. I should have been glad to
show him a picture - if it were only for
a mistake -

I told Mr. Fox not to doubt the
Authenticity of the picture you
sent it - & my other name is that
your sketch will be worth for him.

I did not mean to intimate that
my name for the Hambrogh must
stand - on this subject, I saw that
Bontani, must be adopted - my P.
sketch being no longer at all -
I have told the story in Whipple's Rep.

on hand - even more than you could get
through with comfortably. Of course
I wish you to work - & even to work hard.
- but that is a different thing from taxing
your strength beyond what your health
can endure.

I am not quite through with the
revision of Endogens - but will have
the entire mss. ready soon. The
copying is in progress.

Peebles will try his hand on one
of the Pope drawings if you will
send him Sprague's sketches &
a good specimen or two.

Yours ever

J. Torrey

New York Jan 9. 3rd 1856

My dear friend.

I had a letter partly written
to you - & must have lost it yesterday
while going to the Survey Office.

Raffy says (Sylv.) - that the name
Cladocallis means "bottle branches"

In looking over Whipple's *Gentianaceae*
I see you have over a "Frasera" from
the Juni County, without determining
the species. I have a full specimen
- root & all - written state to be true -
but having all the parts. It has a
root like the other species - a tuft
of broad linear rad. leaves - 3 pairs of
linear cauline ones - then a very large
naked ^(2 feet long) loose panicle with elongated branches,
& pedicels an inch or more in length.
Fl. tubular. Cal. $\frac{1}{2}$ length cor. is
~~the lobes~~ ^{in pairs} fringed - long - the ~~lobes~~
~~fruits extending upward beyond the fruit~~

no Corona. anthers oblong-cordate - Seeds
about 20, simple. At the cor. is
marcescent, all the essential characters
remain.

I had noticed, before
examining Mr Hartw. that Grisebachi gen.
of Fraxea only agreed with F. Carolin.
It is a wonder that he should have based
over the Corona of F. albicaulis & F. speciosa
- when ~~the~~ ^{it is} so plainly figured by Hooker
in each species - & he himself worked
up the family for V. L. Boon-Ar.

I should like a flower of F. speciosa &
Hook. to compare it with the Copernicia
plant of N. Mex. - & Fremont's from E. of R.
Mts. ~~It~~ Also his western F. Carolin.

which I suspect is quite distinct from
ours. Parry has a different one from
F. Carol. - collected in Mts. East of San Diego - but
allied to ours. F. nitida can hardly
be distinct from F. albicaulis.

The Zuni plant is probably a Fraxea, &
is nearer F. Carolin. than the ~~other~~ western
species fig. by Hooker.

I wish you had described that little Erythraea
- like Genkai. There are characters enough
- & you have worked more at these things than
I have just finished the engraving letter, & enclose
the leaf of it that was filled

To day a letter came from Perle - en-
closing yours to him concerning one or two points
of his engraving. As to Pent. heterandrum,
you may remember that one fig. was cancelled -
that is, had another one placed over it, but not to
as to conceal the under one. ~~The~~ The letter was
in outline, & did not represent the ovary as cut open
to show the ovules. Perhaps you meant
that only the outline was to be changed. Either
Perle - or the person who may be employed
to do the printing shall make the ~~alteration~~
amendment if you think best. The im-
perfection in the plate of Phlox can be remedied in a
moment.

Jan. 4th. I am afraid my dear Doctor
that you are working yourself to death. Do
pray spare yourself. There was no need of getting
up a new book just now, when you had so much

New York. Nov. 14th 1856.

Dear Doctor -

I have been looking for a letter from you these ten days - but I know you are dreadfully pressed & will not send. Only I hope you have sent Beckele something to try his hand on for me of Poppe's restorations. On the last page is a list of the drawings & analyses - so that you will see about what amount of work is to be done. Remember that Poppe's Report is not printed - if we need not be bound exactly by "Explanation of the Plates" prepared in Miss

It took me longer to finish up the rest of Whipple than I expected it would - Now it is all done & only a small portion remains to be copied. You had better send me some thin Cyperaceae, which you

returned to compare with specimens - as
I have not yet enough laid out to
make a fair parcel - of these are but
about 5 Cyp. ~~excluding~~ the Canes -
The latter were determined by Boott.
as I said in list. If you wish to
correct anything it can be done
in proof sheet - & we must have
our money!

I found, on arranging the copy, that there
were no Solanaceae - or Verbenaceae
- There was a *Leysium* - from Bill Wm's Foli.
Nicotiana, Knight's Ferry & another
species from near the Colorado.
Solanum - *Cocconuf.* & near San Francisco
Verbena - *nicholamiae* - Tell me about them.

Jan. 16. Your letter of yesterday has
just come in. Thanks for it. & In Engl
mann, etc. The letter I will return soon

If you had seen my specimen of *Fraxera* -
you would have thought it good enough to found
a species upon - It is so unlike any other *Fr.*

Lathyrus

You think that L. venosus, var. grandiflorus, had better be referred to L. polycephalus - but it is very different from several specimens of that species of your Jan. Hb. No. 171 - the leaves are much broader, of the tube of the calyx much thicker long - tendrils etc

Phacelia nutans. I name it thus so because it was so much like your specimen of that species in H. F. No. 170. Some of my other specimens of F. mont. have such large leaves, ~~as~~ in some the stipules are larger than the petioles. The pods of L. macroceph. are said to be 4 or 5 seeded & those of F. mont. about 10 seeded - but the number of seeds of Bigelow's specimens are 8 or 9 seeded & not more - The angle of the stem is nothing - nor is there any character in the relative length of the pedicels - the pubescence there is a f. of macroceph. which seems to be as smooth as L. montana - it is not a f. of macroceph. but a distinct form to which I name L. nutans.

Prosopis odorata was published in Remont's
Bull. 1843. *P. pubescens* in
Linn. Soc. 1844.

"*Arenaria macrophylla*" You doubt. But it
is ~~very~~ ^{very} exactly like Nuttall's specimen
from Texas. You say it is ~~your~~ *macrophylla*
number 10. Fendl. It may be that too.

Certain it is that I can hardly distinguish
it from ~~the other~~ ^{the} specimens named
"M. umbrosa Nutt." in Har. of this. Coll.
All my sp. two years ago have the seeds

I have ascertained that my fig. of *Prosopis*
odorata is made up of the fruit of
A. glandulosa & fruit of *Stambocarpus*.
The fruit came with the leaves, in Fremont's
collection - ~~of the~~ - but not attached -
I from the notes of F. I concluded
they belonged together. You know how
A. glandulosa varies in the length & closeness
of the leaflets, & Fremont's specimens, (like
some of Parry's from California) have close
& rather short leaflets. So our trouble about

The narrow leaved *Stambocarpus* is over!

returned after I sent it to you for review
- I can tell you more about the number
of the 1st Part when I go home - for I
write at the Agency Office -

In the portion of the note of Michael
that I sent you, it seemed to me that
the expression "It is evidently a monstrosity
of corolline in nature" was queer.

Nice letters from Maggie came in on
Saturday. She is enjoying herself at
Montreux, & is in excellent health.
Several of her friends are residing there
She will not leave Switzerland till the
Robert's return from the East - which will
be some time in March or April.

Where is Tuckerman now? Is he
staying the holidays & vacation in
Boston? I wish to send him a
few Libanus.

Give my best love to you dear Jane,
your yours,
J. Torrey

New York, Jan^y. 15th 1856

Dear Doctor - Since I dispatched
my letter to you to day, I have been
puzzling over several of those Solanaceae
That Lycium I cannot determine by DuRoi
- who, indeed, is not unsatisfactory in
his whole monograph. Only think of his
mistaking in the character of one or two
genera of Lycineae, "antherae biloculares"

I have been overhauling all the species of
Lycium in my herb. - & making analyses
of the flowers - There are five or six very
distinct species. Can you name
any - or any N. Am. species?

Tell me about those Nicotianae. *N. quad-*
rivalis H. & Arn. don't seem to be Pursh.
- or at least not Lehmann's.

Solanum umbelliferum of S. Californicum
DuRoi. must be the same.

I have looked over Engelmann's list
of Euphorbiae Bor. Amer. It is of little use to
me, as it puts up only to 1848, & contains none

of Wright's. I have but few of Lindley's.
I have none of the "~~numbered~~ Euphorbiae from
the numbered collection of Geff - none
of Wulzenus - nor of Lindheimer's -

I have, nevertheless a great many that
^{Eupelmann} he ought to see, & probably some that are
not in his herb. He will not publish,
I suppose, till his paper is revised. If
you think he would like to see mine
(on which I have worked not a little) I will
send the whole to him by Express - together
with some other Euphorbia that I wrote
him to name. He seems to be

making a voluminous report on Cactaceae.
Didⁿ tell you that Emory has paid him
\$400 for drawings, made for his own portion
of the Report. How E. Whipple will manage
in the publication I know not. Those two
specimens will never pull together. It is
a pity & a shame that such ~~jealousies~~
should exist among men who profess to

love science. I read in Eupelmann's
letter what he had done respecting collec-
tions of Cacti!

Nov. 21st. Your letter of Saturday
was lying in my table this morning
so it was Chamber who sent me the
Photograph! But he don't confess to
the deed! They took a poor one of me
at Providence - at least my girls say so.
I won't keep it. I must be taken while
doing something - & with the side face

I have asked for the money for Whipple's
Report - & have said that we ought
to have more than the stipulated sum
- which was \$300. Henry has told
them so too - & I think they will
let us have \$400 - when the money
comes, you shall have the half of it
promptly.

You did send me the 1st Part of
Whipple's Mss. ~~of Dec~~ at least so I
think - but I ~~forget~~ whether it was

ment is washing the last week. I promised
to send the collection home without delay.
Perhaps there is some little difficulty as
to who shall have credit for ^{what} Andrell has
done? He went out as Surgeon of Geology
in my recommendation. The collecting of plants
was a work of supererogation: but they
were put in Parke's hands to be sent home.
They will eventually come to you or to me.
- That is a comfort. Dr. A. says that
a good many of the specimens got in-
jured in crossing the Atlantic! This
was owing to Carelelessness, somewhere.

I have just received - very kind letter
from Hooker. Dated July 9th. He has doubtless
told you about the valuable additions to his
Museum. which he brought home from the Paris
Exhibition - 30 great cases - & of the additional
building that is going up to receive the immense
collections already received, & expected.

July. 28th. I shall have a parcel of
plants for Hooker (chiefly from Bigelow's Collection)
ready for the next Commodore's next month. It will
be well to let Breckinridge or J. Hooker purchase them
with Canadian. We are all well to-day. It is
sunny here, but the weather is very mild. Love to Sarah.
Ever yours J. Torrey

New York, July 24th 1836.

My dear friend.

I have been looking over your Manual
but find little to say about *Eudocia*.
What will you do about *Adora*? I am rather
doubtful whether it is the same as *Amach.*
and *Rech.* & it is a little ^{strange} that Richard should
not have united the two genera when he
was working on them, if not distinct. Of
course *Amachani* must be adopted, if not
different from *Adora*, as it is the true name
of *Babington's* specific name - unless the
S. Am. plant is ^{the same as} ~~another~~ from my!

The characters of *Corallorhiza* ought to be modified
a little, as 3 out of the 4 sp. in Mann. have the
sepals obsolete & wanting.

You put *Suaeda tannifolia* in of *Cyper.*
manus. Is this because of the habit? or
have you examined the flowers of found the
ovules in Paris? These specimens in fruit
only. You got it in N. Y. in 1833. Did
you notice any obs. in Fl. N. Y. that *Suaeda*
herbaria has ~~any~~ cell under ~~the~~ ovule, & only

one Virginia? In S. harkata, also, I find the ovary encased with a single scale. *Talla aculeata* I still think ought to be removed from the genus, & *the* *Campesia* should be adopted - but you will probably differ.

Will you not express a doubt about *Selium Canadense* & *S. superbum* being distinct?

What is to be done with *Melanthera*? Keller perhaps let them stand for the present.

Kelonia bullata - *Periantha* bright rose-
color - not greenish white.

As to the order of *Exogonum* I can propose almost nothing. I would adopt *Middelt's* genus *Dermicodum* (*D. perfoliatum* for the common species) as we have used it in Whipple's Report & this genus is a good one.

Agathosphyllum you will, I suppose, put into *Bolsteinia*, as Moquin has done in DC. Prodr.

Acelypha Caroliniana grows near Lawrenceville, N. D. I have it from E. Loring.

Jan. 26 Your letter of the 24th was received yesterday. I had forgotten Miss Monog. of *Lycium*, but will turn to it. It will be best to send Mr. all my specimens of that genus, & there may be time to hear from him before the printing of Whipple is commenced. This will settle some troublesome things - or at least throw the responsibility regarding them on one who is able to bear it. Perhaps it would be well to let him have all the tough Solanaceae!

So I will pack up *Euphorbia* (& perhaps some other genera of the family) & send them off soon to Engelmann. The Crotonoids I will hold onto - & be as usual your advice as the elaborate division of *Croton* they

Were the drawings of *Stevens's* *Protanema* finished? If so, who has them? They ought to be engraved by Reichele. May give him the job. - Urge Sprague to drive hard at Piper - that he may join with Whipple's. Dr. Bigelow writes to me that Engelmann has done all the *Cactaceae* except the *Opuntia* - & these will soon be finished.

I have not yet received the plants collected by Dr. Aulisell on Parker's expedition. The Dr. has been to see me several times. He

as to how much, I told them we
had received \$300, for less than a
quarter of their labor - They insisted,
however, that I should send in my
bill of it would be paid. So I modestly
charged only \$500. The check
has just arrived - but it is drawn
(as usual) payable in Washington.

So that I cannot get the money
for several days - unless I pay a
discount of 1/2 per cent. You may
expect your share of \$250 as soon
as I get the money.

Pray how am I to be repaid for
what I expended for Exp. & Exp.
Drawings? I need the money,
as I was run hard to give Maggie
her outfit - I wish to lend her
some more cash soon -

Yours ever
John Torrey

New York. Feb 7. 76 850

My dear friend -

I received your letter in due
time, but it was not till yesterday
that the Express-man delivered the
parcel containing the drawings. The
delay was probably owing to the state
of the roads. I sent the drawings
to Preble, without delay. I have
also written to the Sup't. of Public
Printing, inquiring about the Prot.
Drawings for Stevens' Report, & re-
commending him to put them in
Preble's hands.

I have been hard at work distribu-
ting *Asplenium* (Whipple) Calif. plates
into three sets, (after taking out what
I want for my own Herb.) You
know pretty well how the collection
runs.

The first set will contain full $\frac{3}{4}$ of
all the plants. The 2nd $\frac{2}{3}$ or $\frac{3}{4}$ -
of the 3rd nearly $\frac{1}{2}$ - besides some
odd seeds - I think that Hooker
ought to have the best, & have
told Whipple so. The second-
(if Bigelow is not urgent for them)
might go to ~~the~~ Paris - of
the 2nd - I have not decided on -
I have written to Whipple to
authorize me to present Hooker the
1st set. Bigelow is not making
a herbarium - I can only wish
the plants, either as well, or to
retain a Hooker!

Has Engelmann received pretty full
sets of Wright's plants? - If of 10,
are they numbered like those sent
to me?

Have you any notes on Wright's plants
beyond Compositae? They would be useful
in preparing Emory's Report -

Will you work on Emory's plants?
He will pay for the whole, \$500 -
& you will have the half.

Have you all of Klotzsch's writings on
Euphorbiaceae? I have a little paper
of his on some N. American - I speak

I will have Hooker's parcel ready
for the next Commodore. Will you send
anything to him at the same time?!

I have managed, by writing many
letters, to get an allowance for Whipple's
Report, of \$500. As they agreed
to pay only \$300. (when I made the bargain)
- I wished them to increase the amount,
& felt unwilling to make a suggestion -

New York, Feb 13 - 1856.

Dear Doctor - Your letter -
(the letter of yesterday - enclosing
a draft;) have been received -
You had a good right to half
the proceeds from the Whipple
concern - for you did help on
more of the work. Well - since
you won't take all I sent - I
will have something to remit
to Madge - "You ought to"
consult your good Dame in
these matters - I will if if
you don't take care of your
own interests - better) make
Contract - about future Reports

with her! We will arrange
about the Boundary plants &
she shall have the money.

When you hear from Drayton
I will make out an account
for these drawings -

Prof. Pease is coming on
here next Friday - if you
may send anything for me
(if not too large) by him.

I have the title of Emeritus
Prof. of Bot. & Chemistry in
the College of Phys. & Surg. &
the Faculty wish me to give

half a dozen lectures on Botany
towards the end of the present
course. I have consented to do
so. Is it advisable for me to
retain a certain connection with
the College. Can you help me
out with a few illustrations, especially
for the first lecture. I have
nothing but my old sketches &
some sections of wood, fruits &c.
Try what you can do, I send to
me within a week -

I will write more about Botany
in a few days -

Yours ever
J. Torrey

New York. Feb. 18th 1856.

My dear friend -

Your letter of Saturday was waiting for me this morning, on my arrival at the Agray office -

I knew that you could not lend the Lowell pictures - but how is it with those on paper, that were once owned by Appiz, & which I had some three years ago? Ag. took several of them to Charleston, when he lectured there. Do they belong to the Lowell? I should like anything that would illustrate any of my - & such others as you may have. But don't give yourself much trouble in looking up any. I purpose giving a mere outline of History, such as would be

interesting to medical students -
The whole course will embrace only
about 8 or 10 lectures

I have seen Commodore Perry
several times lately, & he seems
hurt that you will not at least
have the plants collected on the
Japan Expedition. I explained to
him your embarrassment respecting
them - that you had been told
to retain them till claimed by
the person who sent them to you.

I think you would be quite safe
in delivering them to the order
of Com. Perry - for they belong to
the Govt., & were collected at
its expense, & by officers in its pay.

If you could possibly spare time
to make out a little report on
them the Commodore would pay
for it fairly - He has just recd
a small allowance for what. ^{highly} ^{valuable}
I wish you would either send him
the plants - or make out the
Report -

I have the plants collected by
Dr. Ainsell in Parker's N. R. Survey
There are quite a number of good
ones among them - but some of
the specimens are injured by rain.
- Dr Newberry I never heard of.
Hope he has some interesting
plants - your much
I. Torrey

July 27. I had the unexpected pleasure of meeting Mr. Jackson in Broadway this morning. & we had a little chat together. He kindly offered to take any thing by me that I have read, & I shall send by him a few plants from Whipple's Coll. - which (I believe) embrace all that were omitted in my former sendings.

You will find in this parcel specimens of *Rubia* var. *R. macropetalus*, to compare with the Berlin herbar.

Look at the fruit of *Caustica* that I soaked in warm water, & then placed in alcohol. It has a decidedly fleshy covering - but I don't yet get much light on the subject. Your last guess, so far as *Egyptia* goes, was almost taken back by yourself - but *Hypnicaceae* don't seem very far out of the way; if you allow as much latitude to that family, as to *Saxifragaceae*, the *Caustica* might be forced into it. The alternate leaves (if leaves at all!) of solitary seeds we had to get along with.

New York. July 25th - 1856.

My dear friend

Com. Perry was in to-day, & seemed not to understand, till I explained your position - why you should not regard those plants as ^{Saban} subject to his order - as they were collected by a person wholly under his command, & who had no right to them till they were used for his Report. I don't think you were not so pressed, as you might just as well get your \$100 for a little Report. Do you think that any of them would do to figure? Presley would draw them well enough. The Commodore has \$100 in his hands to pay for a Report on the Botany, & it is a pity it should go a begging. But I cannot

Learn to see your work so hard.
It grieves me to think what a
life you must be leading just
now. There was no necessity
for undertaking a new work of
new editions of your other books
just now.

As to Boraginifera I have nothing
to say of much consequence. I never
was satisfied as to our common *Nyssa*
sibirica - but it comes nearer to *Laxa*,
than to any other. *M. palustris* is
not in the U.S. I don't feel sure
about there being three or four species
of *Bromodium*. In my herb. they seem
to run into each other.

Don't forget to correct the mistake
about the seeds of *Empetrum*.

So you think the *Chimaphila* should
be referred to *C. menziesii*. It does

not look like my specimens (from Hooker)
of that species - but much more like
a *Chim.* from Coulter's Mexican Coll. sent
to me by Harvey under the name of
"*C. dasypleura* Nutt". I suppose this
is the same as the one you notice in
your letter as "*901 Coulter*". My ticket
has not the number filled up. What
is *C. maculata* *β. mexicana* De Rodr.?

I return you the Times' notice of
Miss Murray's Book. of I don't wonder you
laughed so over it. She was a great
one, of a greatly overrated person.
I am sorry she received so much attention
- but she got very little from me.

On looking into a copy of Barber's *Compendium*
H. Phil. the other day I found, quite to
my surprise, your name written in
it. I had supposed it was a copy that
I got from Wm. Cooper. Shall I send
it to you in my next parcel?

New York. March 6th 1856.

Dear Doctor

Your letter of the 4th
was recd. at the Spec. Office this
day - I could not answer it in
time for the afternoon mail, as
it was necessary for me to consult
my herbar.

I don't know *Lophaninera*
Asclepias - It has never been
sent home. Nuttall's *A.*

laevigata is considered by the
author himself to be an *Asclepias*
- i.e. in *Arch. Bot.* he refers it to his
genus Polyosus. It is a very ob-
scure species, which he does not appear
to have obtained but all - for the
Desc. in *Bot. Arch.* is copied from his *genus*

My specimen from N. M. James is
poor & may (as well as ~~Walters~~
plant) be only *Ac. decumbens*. But
lanuginosa is the older name.

You don't say whether you will
be able to name Perry's plant.

He don't care about the collection
if he only has an account of the plant
in his book.

Yesterday I received a small
collection of plants made at Fort
Yuma by two officers of the Army.
I was glad to find the *M.* I have
among them - but it is only in flower.
- Also *Gayana California*: *Phoradendron*
hymenoclypea of the n. gen. (I cautions
genus) of which you remember, there

were only written vestiges from Bill
Morrison in Bigelow's Coll.

I enclose a note that Herby handed
to me a week or two ago, which please
hand to your good friend -

Madge sent us letters by the
last steamer. She was in good health
& hoped her aunt & uncle would soon
come back. They have gone to Egypt.

I sent Hooker's box by the *Atia*.
& hope its contents will please him.

Your ever
J. Torrey

P.S. Thursday morning. I spent my
letter to acknowledge the receipt of yours
of yesterday. I will forward the drawings
to Prebelle - or you can send them
on direct to him. I will send to
Capt. Humphreys for printed blanks that
you may make out the bills. Now
let Maguire drive away at Whipple's drawings

New York, March 12th 1856.

My dear friend

Your dated letter, enquiring
orig. about *Amaranthus* *paniculatus*
Leis was received at the Gray
Office this morning. I could not
obtain the desired information
till I went home - of so my an-
swer will not be dispatched until
tomorrow.

The *Amaranthus* is incorrectly de-
scribed as having a dehiscent-uricle
It opens irregularly. So it will drop
into Rafinesque's genus *Eurotia*. The
derivation of that name as given
in Fl. Tell. is "well shut" - That's
all he says about it. The uricle
is thicker than is used in the
genus. & has 5 ribs. I send you

a fragment of my only specimen
of *Am. deflexus*, Fl. N.Y. I have
only a poor specimen, which is here-
with sent. My best specimens
were sent to the State Herbarium at
Albany. I enclose with each specimen
a note with fig.

Some years ago Lapham sent
me from Milwaukee, an *Am. deflexus*
-which is unlike any plant of the
order in my herbarium. I enclose
a fragment. It spreads out
long branches (so he says) on the
ground. I can find no floral
envelopes except the bracts.

We had letters from Madge with
the unit. She continues to grow strong.
How happy they are to escape such
weather as we have here! For a

week or more before she wrote there
was plenty of *Acuceras*, *primaries* &
others in bloom around Montaux.
She says "Tell Mrs Gray" that the letter
for M. Villmorin was sent when she arrived
in Paris, & a card was left at the same
time, with the door keeper of the hotel - but
neither Madam nor M. V. sent any message.
The two little books & parcel were after-
wards left with the door keeper - & a
note was sent to Mad. V. Madge
sends "a great deal of love to Mrs. Gray & the Dr." "

What is Wright doing at Nicaragua?
I had not before heard of his
being there.

I, Sprague working on Piper's
drawings? Pray send them on
to Perrell as fast as they are
ready. Yours ever
J. Torrey

I have put a specimen into Hooker's parcel of Whipple's plants, with a request that it may be examined by Dr. Pitt. & by Bentham. Hooker's box will not go till Saturday, as I received Whipple & the Sects. of Wain's approval of my plan of distribution, only two days ago. The Sects. thought the fullest set should go to some American Institution - but I don't think the spirit of their instructions will be disobeyed if the full set selected goes to Kew - for we both have even fuller sets - & ours will be here. Indeed we hope they will yet (with our liberality) be placed where they will be accessible to all working botanists. I shall therefore not hesitate to carry nearly all my plan into execution - only that the 2nd set shall go to the Acad. of Sciences, & the 3rd, to Paris.

You will find some labels in your parcel - enough, I think, for all the specimens that I have sent you from Herb. Bigelow. If you need more let me know.

What do you conclude to do about Comadore Perry's Japan Plant?

Can you not give a semi-popular account of them, with some remarks about Japan? He left with me a few colored drawings, done from nature - but they are hardly fit to be engraved, unless new & very curious. If them, too, they will require touching up.

Herby is sitting opposite to me (where he spends most of his evening) & sends his love to you & yours.

He has a letter for Mrs. Gray, but cannot ~~wait~~ finish it in time to go with the parcel this evening.

I have urged Mr. Jackson to come to our house when he next visits New York. Our girls wish him to come, as much as I do. If they speak of the very kind attentions that they received from Mrs. Jackson -

Give my love to Jane, & believe me ever yours - J. Torrey

P.S. I find that I did not tell of good letters that we received from Maggie two days ago. She was still at Monkswood, & was in good health & spirits.

New York. March 17 1856.

Dear Doctor - I found your letter of Monday Eg. on my office table this morning. That *Amaranthus deflexus* was for you to keep. I have more of it elsewhere if you shall have a good specimen of the plant when I can get it. The dehescence of *Amaranthus* ^{family} were doubtless fig'd from a article that had burst transversely by accident. I have seen other species do the same.

I have no specimen of the Whitehall *Amaranthus* in my herbarium. My notes in Fl. N.Y. were made from Carey's specimen. But how could you regard it as a form of *Amaranthus tamniscinus*! The inflorescence & other characters are very different.

My herbarium is very defective in specimens of *Achida*: for I robbed myself to make out a good set for the State. Of *A. rupestris* I have none, so that I cannot revise what I did some years ago for Fl. N.Y. What day

Moquin mean by placing that species
in a different section from *A. Canadensis*.
- of even asking if it be not a *pedunculata*?
Do you know this *A. tuberculata*? Can it
be a N. American plant? I used to
suspect that there is but one species with
variable fruit. Ellist knew but one, &
then he was doubtful about:

The Milwaukee plant must be an *Acrida*
- but it looks as if it were an introduced
plant. Is it not strange that we have
it from but two places?

You say that Moquin did not know the
dehiscence of *Mantelia*. but he says of *Acrida*
- da, of which it is a section "fructus evolvit".
Do you mean to say that the Milwaukee
plant ^{has} a *utriculus* that opens regularly?

I shall be glad to take Journal
of Linn Soc. - & so will Thurber. No
doubt at least half a dozen copies
will be taken in N. Y. & Philad.

New York, May 1st 1856.

My dear friend -

I have too long delayed answering your last letter. It was my wish to send you a small parcel, besides the book (*H. Lancast.*) that you asked for - but there were so many interruptions that it could not be got ready - & I will not withhold the book any longer - It shall be sent by Express this afternoon.

The white my *Calamagrostis*, is, as you say, not *C. purpurascens*. I have *Hobsonian* - a rather *Drummondian* specimen of that prof - of the difference are evident enough - as you will see by the fragment that I send.

Neither is it *C. sylvatica*, as far as I can judge - for I have no authentic specimens of the plant. Indeed I have no *Calamagrostis* that is like

The White Mt. species. Very likely it is a peculiar species - of you will have to describe it as such.

The H. Brant. is in the public store. I hope to get it out tomorrow with a free permit.

Holton came in just now. He is to be here three or four weeks, while our N. Grenada book is going through the press. He has received the names of a large number of his plants. Holton has not yet acknowledged the receipt of my letter of the Whipple Collection of plants.

I am very much troubled about the Mex. Boundary plants of cannot finish them without help: for Emory is preparing hard for the Report.

The collection is very large. I must work slowly. The Compositae you must do as far soon as you can. Pray what orders will you work up besides. I would gladly turn over to you the whole job.

Holton has kept me talking so long that I must close, or lose the mail. / Give over
I. Torrey

May 1857.

Wt Apoy Office, Inday

Dear Doctor -

I am ashamed that I left home
to day without bringing down the Speckles of
Cyprus Menstles that you asked for. I
cannot send it now until tomorrow - for
I leave town at 4 o'clock - & will not return
till morning

You doubtless must have thought me
very remiss in not answering your letter.
- but I have been very busy. Did I

tell you about my apparatus &c at the
Medical College? De Coute, as I understood
him, very distinctly agreed to take ~~the~~ whole
stock at a low price - & he actually used
the app. & materials for more than half
of the course - He then told me it would
not be convenient for him to purchase it.

- so that it was thrown upon my hands.
After the College was removed up town,
(soon after New Year) - I let my things remain
until the old building was ~~removed~~ sold. For
the last three weeks, I have been every day
for several hours, hard at work packing
up all my traps. They are still in my
hands - & I know not when a purchaser will
offer. This disappointment has put me
out a good deal

Spiegel's account was promptly forward-
ed to Capt. Humphreys, - with an explan-
atory letter - & I hope the money will
come soon.

I saw Fendler twice - & had some
good talk with him. He don't seem
to be doing very well in the North.
Just now I cannot purchase plants, or I
would take a set of his Ferns.

We received letters from Maggie by the Cambria.
They were no later than the 18th inst. She was
quite well, & desired her love to be sent
to the "Dear Graps" - Mr & Mrs Robert will
probably return from the East by the 1st June -
& then the party will visit part of Scot-
land, France & Great Britain -
Eliza goes to Washington next week - where
she is to do something for Prof. Henry. I believe
she has promised to help in making a Catalogue
of the Smithsonian Liby.

When will you be ready to work on Mexican
Bound. Plants? The Composite of the
N. Mex. portion should be done first. You
will receive a good share of the \$500 pro-
mised by Emory. The sooner you begin the
better -

In a week or so I will send you a
small parcel, consisting mostly of plants.

that I wish you to examine. - When
can I hear Sprague again? He must do
some more drawings for Sprague -

Koos has don't acknowledge the fine box of
Whipple plants that I sent him about two
months ago - but I know how he is prepped
with all kinds of business,

You will see by the enclosed, that I com-
menced a letter to you long ago - I hope
after this, to be more punctual in my
correspondence - Much love to dear Paul

Yours ever -
John Torrey

Sepals united into a tube below, moment of separating from
 the base. Ext. sep. broader than ^{pt.} inner, united into the throat of the
 perianth, with alternating lanceolate scales or about flaring. Another
 scale, obtuse opening at the summit by a narrow slit. Fil. united in the
 back. Ovary 3-celled with 2 anat. ascending ovules in each cell. Style
 obscurely 3-lobed. [Perianth slightly adherent to base of ovary]

Calif. Bigelow & Stillman

Calif. Bigelow & Stillman

morning. Herbert & I went to
 Sweden last ~~Friday~~ ^{Tuesday} evening I have
 only just returned. He is preparing
 hard for the examination at the Free
 Academy - which takes place in
 about a week -

Eliza remains at Washington - but
 I look for her every day. She will
 try & spend a few days at Cambridge
 shortly after she returns. Next
 week we hope to get into our
 cottage -

I long to see you & your dear Jane
 but I cannot get off yet - & cannot
 tell certainly when I can be spared
 for a few days.

In two or three days you may expect
 my parcel & if I hear from you very
 soon, I may add the Scriptural life.
 Give me love to Jane. I hope it will
 not be long before I see you both.
 Ever faithfully yours J. C. Overy

This is a line from Boston. I got it about a month ago. I wrote it
 in a letter which the box of plants & my letter had been
 returned.

New York, June 23rd 1836

My dear friend

You must have thought I
 had not seen you - since I have not
 written to you for several weeks.
 I have nevertheless thought of you
 & my series, every day. In my
 study of Emory's plants' questions
 will be very soon - that I would
 gladly submit to you - but as
 you are not at hand I lay and
 specimens for your examination.
 There have now amounted to a good
 sized parcel. For the last fortnight
 I have jumped & sent them
 to you - but each day I have
 some new questions to ask of the
 best of specimens, masses. Be-

Yours

Here a some of Emory's plants, that
you wish for your herbarium, &
I lay aside such, from time to time.
A year ago or more, I selected some
80 or 90 specimens from the Boundary
Survey Collections, that you desired. Some
of these you have reported on - but
I wish to send you notes on all
of them. You promised to
take a share of the Emory Report
& I now greatly need your
help. He will pay pretty well
if you may as well have half
of the money. The sum fixed
you in report is \$500. In order
to spare you as much as possible
I have ~~the~~ written through the

Comptroller & I wish you would
help with some of the larger orders
of manuscripts beyond Comptroller. Shall
I send you the Script. etc?
Emory was here the other day &
I talked with him about Wright.
He will, I think, pay what is
due in little time. He even
inclines to allow Thurber's ac-
count - which is a good thing.
No news from Madge by the
last steamer - Indeed her last
date is May 12. This is unac-
countable - for she had written
every week up to that time. I
~~hope~~ however, to get some account of
her through Mr. Robert's son -
I have not yet had time to enquire
of him since I came in town this

that it will be necessary for
you to prepare accounts from
a new set of blanks - such
were provided for Postels. So
all will come right in a few
days.

Eliza will be home next week.
Jane leaves this afternoon for
Sweden. It is very pleasant
here now.

Have you actually received Sullivan's
copy of paper for Manual? I never
believed he would get it ready in
time.

Must love to have -
Ever yours
New Ferry

New York, June 26th 1856

My dear friend

Yours of the 24th - was received
this morning. I have been
trying for months to get several
copies of Sitgreaves' Report - but Henry
(who promised to obtain them for me) has
not sent them. I am just going
to try what I can do with Baird.
The only copy that I ever received
was a dirty second hand one, in
paper covers. If I succeed in
procuring more, deCandolle shall
have one.

You shall have the Bound. Survey
Scraps^l of some other orders this week.

Thurber makes his plants worked into Emory's Report - he has grown quite kind towards Emory since the major more than half promised to pass his bill for services! You will not have any great trouble with Emory's plants, not of a few of the orders beyond Compositae have been more or less thoroughly worked up.

What is to be done about those drawings for the draft. Exped. that I sent you - how would it do to take any of them that may occur among Emory's Calif. main plants for his Report - or for Whipple's? If, however, you can get the pay for them, so much the better. I have ten

drawings by Riviere of Whipple's plants - very nice indeed. These are to be engraved by Perbels.

I hope you will get some more done by Sprague - he has (I believe) now executed but five drawings (two on one sheet) = 4 plates. I will again write to Washington about your bill. It seems that not until about a fortnight ago some arrangements were made for paying bills for the Pacific R.R. Report. All that was done before was somewhat irregular - of the appropriation that was then drawn upon is expended. I rather think that

I shall write to you again in two or three days. - Remember me affectionately to your dear home - of believe me as ever your J. Torrey

I hope you will be able to work on Emory's plants soon - Let me have you notes on the *Cuscutaceae* at least. I sent you many in my last parcel - if you had some a good while ago.

Did you ever read Kellogg's papers on Calif. plants in Proceedings of Cal. Acad. Nat. Sc.? He has some *Cuscutaceae* which you can probably identify & they had better be disposed of at once.

By the way - have you more than one spec. of *Pulsio pappus* (H. Whipple)? I have none in my herb.

I received letters from Maggie this morning - dated June 17. She expects to join Mr Roberts party in a day or two - if she is probably now in England. We look for about the end of August

New York July 12th 1856.

Dear Doctor -

Your gardener called when I could not write - so I should have sent a note by him.

Thurber sent you a parcel of plants today. I got them through the Custom House at the time I passed New H. Brazil. The latter cost nothing - not even for a permit. They are very pretty some now that I am an officer of Govt.

The *Sidgreaves*' are very scarce - I, I fear, are not to be had - seen for money. Several persons in Washington have tried to get them for me without success.

I ought to have mentioned that the vessel in which the H. Bras. was

sent has not yet arrived -

did I not tell you that you can get your money for the drawings by sending to Mr. A. G. Seaman, Supr. of Public Printing? I have no blanks of the kind that are used. Probably I may get some from Mr. S. on Monday - as he is to be in town & I am to meet him by appointment. I have never seen the gentleman. Put all that is owing to you on one blank. Send me three or four new ones for Whipple.

The little Composite from Major Humphreys Fort Yuma Collection (sent in my cart) must be your *Matricaria* ^{incisa} in M. Thierber. - but if retained in P. you will have to modify the gen. ch.

I see that Eaton has come out in the last Litt. Journ. with some new Californian ferns. I told him that one of them was certainly *Pteris andromeda* despite of Bot. Beechey though it might not be of Peck. The plant is quite variable, & I hardly think there are two species confounded. As to that *Cystopteris* I saw directly after E. left - but this fern was only a form of *Cystopteris fragilis* - & indeed had marked it so at a previous examination - but had forgotten the circumstance. Tell me how many plants I may expect Sprague to do for Whipple - & how many for Emory. You had better set him at work on *Holacaulis*, *Petalogyne* of Thierberia;

fault in your own pet family.
No doubt the plant is a *Baccharis*.

The Fort Yuma Composite that I
supposed a n. sp. or subgenus of
Pytharodes - is your *P. meira* of
Pl. Thurb. Will you not modify
the gen. ch. & receive this species?

Thurber has not yet got the
H. Brazil. but he hopes to obtain
it on Monday

You do not tell me whether
you sent Berkeley the drawings
made by Sprague for *Sarcocolla* & *Leptocarpus*

Emory has authorized me to have
a copy prepared of his Bot. Report
- so let me have your notes - I
will incorporate them in my rep. &
send you a copy.

Yours truly,

J. Torrey

New York, Aug. 2nd 1856

Dear Doctor -

Your letter of yesterday
is received. I have written re-
peatedly to Washington respecting
Sprague's bill - urging the parties
who have the business in charge, to
send me - & you also - proper blanks
that the account may be rendered in
due form of the money paid. I
talked about it to Mr. Seaman
himself more than ten days ago,
& he promised to send me blanks.

The last time that I wrote to
Washington on the subject, I
addressed my letter to Mr. Blake
(who has much to do with the
Genl. & P. R. R. Surveys) informing

him how long you had been
kept out of your money - & that
the account ought to be settled at
once. I enclosed Sprague's bill,
& asked him to draw up such
an one as was required & forward
it to you. He has not replied
to this letter - & I fear he may
not be in Washington. I shall
immediately address another letter
to him - at New Haven, where
his wife is staying.

I had heard of Dr. Newbury's in-
tention of drawing up his own
Proc. Report, & supposed he would
be down on you. His trunk of
plants was sent to my house
two days ago. I have been looking
out for him ever since. He must

not expect me to help him, for I
have no time to do my own work.
Perhaps Thurber may send him a
hand. Of course you overheard
his entire collection. When
I heard that he had been in the
neighborhood of Shaker Mt.
I hoped he had found the Darling
tonia. Had he done so you would
surely have informed me. I
have not yet examined his plants,

When you look over the Compositae
that I sent on some weeks ago,
you will see two plants that I had
examined with some care - but which
I did not remember you had already
pronounced on. The *Aplopappos*
var. glabra, I see that you had, (see
Pl. Thurber) referred to Baccharis -
I had rather expected to find you at

New York, August 20th 1856

My dear friend

You have probably heard by this time that I shall not attend the meeting at Albany. I tried hard, for a long time to get courage for doing my part there - but found it was impossible. I could not overcome my reluctance to go into that assembly - & I never wish again to appear before the public. There are some dear friends whom I should like to have met - but I would rather see them in private than on such an occasion. It would overcome me to contrast the

parent meeting with the happy
one that I attended last year.

I don't know anything that would
tempt me to go as I feel now.

No doubt I shall be blamed se-
verely - but I cannot help it -

I am living, mostly alone. There
is one servant in our house. The
girls of Herbert are at Frederic's.

I go there every Saturday - occa-
sionally on Wednesday. My time
is mostly spent at the Gray Office
& in my study. If I did not
keep actively employed I should
be in a miserable state.

Let me know when you will come
Down the river. I should like to

have you & good Jane stay a day
or two at the Palisades. The house
is comfortable enough for a little
summer retreat. As yet we have
done nothing with the grounds. Next
year (I'll.) we will clear away
some of the stones of terrace a
little. The girls will go &

see Bailey to-day (such is the
arrangement) & return on Friday.

I have accommodations for you
not such as I could otherwise were
the girls at home) at 96 St Marks.
Perhaps you would like to have Jane
at the Palisades & work with me
in town - Give her my warm
love - She has a warm sympathetic
heart -

Ever yours,

John Torrey

Monday Ev. Aug. 25th
1856.

Dear Doct^r -

I begin a letter to you before you are half way home! On looking over the 4 drawings for Whipple, I find one named *Linogyris Bigelovii*, on which is a note as follows. "I have doubts of the character of the recept. (long chaffy central scales) is noticed in the copy. Please see that it is so." There is no *Linogyris* in the Whipple collection, & I don't know the species by that name.

I have put up the Compositae of Schott. & will add to them such others of his plants as I think you would like to see. You may expect the trunk soon.

Have you any fruit of *Abornia mellifera* Gagnans? I fear the species will not stand. Certain it is that I have plenty of an *A.* with large white involucre, & the fruit of ordinary *A. mellifera*. That small species in Whipple's Albuquerque Collⁿ - with spatulate leaves - has the fruit of

A. mellifera, & must be only a state
of that species.

In your memoir on Nect. - under Abniss
Do you refer to Chazy when you quote
the word "deciduous"? It would seem that
you were correcting the error of the lobes of
the limb being deciduous. Chazy rather
means the whole free portion of the
perigone

[You see that I commenced this a
good while ago - -

some of my sketches - which I think
are accurate - for I took much
pains with them. Let Prague
do his best with the plants.

I will give you Emory's written directions
to have these drawings made. When
I saw him lately in New York, he
told me distinctly to have them done.
I said the money to pay for them
was ready.

Mr. Seaman is just now in the
city. I hope to see him this
afternoon or evening - when I will
communicate your letter to him.

I have concluded to put all
the Mex. Bound. Plants in one set.

I send a letter to Englemann
with this

Yours ever -
S. Torrey

New York, Sept. 9th 1856.

Dear Doctor -

By express I will send tomorrow
your trunk filled with plants. It
would have been dispatched sooner,
had I not been waiting for Herbert
to return from Mexico. He found
my Asclepiads & put them away, so
that I have looked for them in vain.
Even now I am obliged to send off
the box without the genus Asclepias
- for the chap has not yet returned.

I hope Dr. Englemann will attack
the Euphorbiaceae without delay,
& do them up before he sails for
Europe

Sept. 10th - I was obliged to break off
here & leave the office. The trunk

is top of the afternoon. My
assistant, Mr. Schultz has taken
it in charge, & is directed to
pay the freight. I have put
in the trunk, the parcels that Thunberg
had in charge for you - You
will find, also, some *Scrophulariaceae*
Herbert came home this morning, &
I found the *Asclepiads*. - But the trunk
was too full to admit them. I will
dispatch a paper parcel to you
to-morrow or the next day, ~~with~~
in which you will find these plants, &
some *Compositae* that I wish you
to examine. I have made out
nearly all of the Rio Grande Comps.
- The more interesting & difficult of
them were sent to you, with numbers,

at different times. A few of them
were reported on. I think the
whole number sent to you was a little
over 100.

The pamphlets from Dana were put
up at once, according to your direction
- but Mr. Schuyler has not called for
them.

I have no young fistillate flowers
of *Holocaulon*. Schott's specimens are
excellent for the fruit.

Balfour, in the proceedings of the
Bot. Soc. of Edinburgh has a list
of Gen. names, accentuated & among
which you will find *Aristolochia*.
He seems to be quite particular as to
his markings.

In the trunk you will find my
best specimens of *Cystoclepe*, with

New York, Nov. 21. 1856

Dear Doctor

Your letter of the 18th. was lying on my table this morning. - I suppose you took a little rest yesterday. - All our folks did as Mr. Roberts, with quite a number of faulty specimens.

I am glad you are training another draughtsman. & have no doubt you will be able to do something with time if he is steady. I intend to study structural botany. - I have a young man who has made some drawings for a little report for Parks of some for Williamson's & a report. - but he is too lazy, & too stupid to take hold of the business properly.

a parcel, containing them, & a quantity of other material, next week

I will do what I can with Euphorbiaceae (excl. Euphorbia) - but I have not the means of determining them all satisfactorily.

You have my Hydrophyllaceae. - you ~~will~~ will find in my parcel, some specimens that have come in since. - Did I tell you that *Whitlavia* is threatened with a break down? - You will find (I think) a specimen labelled *Eutocia Parryi*, that will connect *Phacelia* & *Whitlavia*.

Yours ever,

J. Torrey

I have in "Phacelia: vesicles?" from Torrey
- but it is a new *Spillmann* specimen
an *Orthocentrus* from the *bot.*
I showed it to you. & afterwards you
said it was *A. distichus* when I
had already referred it. You said
you had the same plant from
Copenhagen. Is this what you mean
by *P. A. vesicles*?

You can make a Dutchman obey
you - but a young American is too
independent to take even advice.

What are you to pay Hooker?
You must get him to work for
me. Emory, who was here the
other day, says you will be paid
promptly for all that is done
for him. I will send you
a copy of his instructions - when
I go home.

Glad I am that you have made
nets for a good figure of *Scobipes*
It seems that I was right in ~~con-~~
taking for sepals of the plant, one
or two fragments that I found adhe-
ring to the leaves. Pray send me
the drawing as soon as it is done -
I am impatient to see it. I think

the genus has more resemblance to
Tillium than to any other - but the
placentation is so very different that
it must belong to some other family.
I forget what guess I gave as to its
affinities - but I think it was com-
pared with *Tillium*. None of the
families ^{of Endog.} with parietal placentae
can be made to receive our plant.

Perhaps we may find something in
the ripe fruit, when it is known, to
help us out of our difficulty.

The packet containing the "Statistics"
was never called for. It is still lying
on the table at the Agency Office.

The Mex. Bound. Compt. were returned
- without names. I wish you would
take them, with a few others, in
my herb. I give them a little
overhauling. I hope to send you

— As I write at the Agency Office,
I have not access to my notes.
I cannot ask you many questions,
about the plants on which I have
been working of late. I would
ask, however, whether you have either
of the original species of *Mozimnia*
— All the N. Mex. Collectors send us
one which may be *M. apothulata*.
— but it don't agree well with the
Description — I have two others
from Schott. Have you *Benthania*
Calif. species? *M. Canescens*, I think
it is.

We are all in our usual health.
Eliza is going to Washington after
the holidays. Madge is quite
strong. Pray give my best love
to Dave, whom I hope to see, if
possible, at the Christmas —
Yours ever J. Torrey

New York, Dec. 3rd 1856.

My dear friend —

Poor Carey! My heart bleeds
for him. None but those who have
suffered in the same way can feel
what a desolation has come upon him.
I fear that he will not survive this
blow. As soon as I received your
letter I sat down & wrote to him, to
ask to be in time for the steamer of the
next day. All my girls will send him
letters tomorrow. I hope he will do
as Booth suggests, — go to live with the
old couple. The only thing that may
sustain him, is the love that he must feel
for his mother's babes. All we can
do for our afflicted friend is to pray for him.

I am working at Botany every day.
I am making progress in the list
of Mex. Bound. Plants. Some of the
hard or doubtful Cases. I have
left for you to throw light upon.
Pray look up the Composites that
I sent you from this Coll. a long
time ago. They were numbered from
1. to + 100. Be a few of them
I your remarks - but some of the
most interesting I am yet to hear
about. Just now I cannot
furnish a list of them - but you
shall have them in my next - Of
course I have no duplicates - but
you shall have my set of the plants
if you cannot find those which
I sent you -

Glad I am that you have a copy
of DC Prodr. ~~XIV~~ for me. I enclose
a bill to pay for it. Let it come
by mail, if that is a safe way -
for I am impatient to see the
volume.

I hope your new draughtsman is
making progress with the drawings
for Emory. Remember that you
can get the money for them as fast
as they are done by merely referring
me to Emory that you have sent them.
Have you placed in the artist's hands
the *Cystocalyx*, *Thurberia* &c.? Let
me see the anomalous *Tritoid* genus
as soon as it is finished. This, I
think you said, is for Newberry's
Report - but I should be glad to look
at it before it is engraved -

87-7
Saturday Morn. U.S. Army Office.

I have brought down the haul
of you. to go by Express to-day. It con-
tains all my ^{new} "Plantains of Lysis-
machias" - Also what I take to
be *Phelipia Californica* - This I have
not examined it particularly. One of
wright's seems to be the same, or
very like it. I read also Orb.
Comora Hook. of a *Comophora* that
seems to be distinct from the *Darken*
Plant. Did you ever receive
Aphyllon swift - from California?
I have it from Monkey (Rich) - I
saw them partly Calif (Napa
Valley if I mistake not) - from Miguelas
Look at the *Comoph.* which I send
from my herb.

Mrs. Green of Providence has called
on me repeatedly, to induce me, or
Shubert, to give a review of her
book. We can't do it. She
left a copy for you, which I
meant to have placed in your
bundle - but omitted to do so by
accident -

Remember you are to describe
"the Phœnician spruce. Pope" } Sprague
figure shows suspended oval.

The letter of Durand, laid in your
bundle, was received some time ago.
I opened it before I noticed that it
was for you, & it was then overlooked
& neglected.

We have delightful weather here
for the last week (except part of
yesterday, when an inch or two snow
fell) we have had it as warm
as spring.

Send me any of your undetermined
p. Am. endogues. (except from A. Cyber)
that you think I would like to see
- or that you wish examined -

Give my love to Jane - We are
all well at home -
Yours ever,
J. L.

New York, Jan 5th 1857.

Dear Doctor I reached home at 9 o'clock on Saturday evening, I had a most agreeable surprise in finding more than 20 of my most esteemed friends assembled in our parlors. The girls had provided them in expectation of my receiving them some after dark - but the snow delayed the car. I spent a pleasant evening at Aunt's, & saw Olney.

I send you the rest of Whittier's Calif. Complaint - & enclose my copy of the sketches of Chateaufort. On my specimen there are no gods refer. than what you have.

You will (I suppose) have the
pods of *C. obliquum* placed in
the same drying with the n.s.p.
It is strange that we have no spec-
ies of the former. - Of the
latter, only two specimens were
sent, & we can only guess what
the fruit will be. In the young
pods of the n.s.p. there is evidently
a flattened vacant portion at
the summit.

I found all well at home,
& every thing has been going
on right at the Spray Office
- so I hope to be spared again
for a few days, early next
Spring.

I have had no time yet
to overhaul plants - but
in a day or two I hope
to select a few more plants
for Kockstein - L - Dried -

Give my love to your dear
Jane, I thank her for all
her kindness to me. My
visit was a very pleasant
one every way. Give my
kind regards to Mr. Brace,
if he is still with you &
also to Mr. Lovell's family, &
Mr & Mrs. Jackson - Remember
me kindly also to Kockstein -

Yours ever
Thos Gonyea

for a paper - Give my love to her - Reminds me pretty well of the one you saw in the last issue

same as a plant of Caff - which he collected in several places & wh. you named "*R. pinnate* Kth. = *Harkmannia parvifl.* Benth" are they diff. ? What of Walp's *Synonymis* in Rep. 2 p. 84?

Compositae - I hope to prepare some more analyses for Hochstetner - so as to send him two or three new plants to draw.

Look of *Acanthoscelus* may not have been described. ^{Can Bentham have it in *M. Hartw.*?} It occurs in all of Greff's Collection - & must extend pretty far into Mexico.

We are all well at No 96. Eliza goes to Washington next week. I was very sorry that Jane (your Jane) has been troubled with toothache & hope she will not have to call in the dentist. Let her take a very large dose of laudanum & she will not be troubled again.

New York, Jan'y. 1842-1857
Dear Doctor

I have received your letter - of the parcel containing 4 drawings done - All the latter are very nicely done - except that one or two little mistakes must be corrected - The expanded perianth of *Achilanthus longifl.* is different from what you & I supposed - as you will see when I send a specimen in my next. Sprague, too, was misled by one of my sketches, in drawing the anthers of *Cysticobolus*. Those of the 2 larger ones are & called, as in *Scutellaria* - to which genus our new one is closely allied. It will, however, be kept clear of that by its remarkable Calyx. At no time is there any scale or process on the upper lip - of the great bladder that it makes when old, is altogether unlike *Scutellaria*. I have been examining quite a number of achenia of *Scutellaria* & will give you the result soon.

I regret not having looked up some
nine plants for Hochstein to draw -
Please let him at work in Academies
celtic of Europe - of wh. you doubtless
have good specimens. It is, as you
know, polygamous - perfect of well
flowers on the same plant. I have
not yet found fruit with good seeds -
- but will get some in Bogdanow's Coll.
Here are some rough sketches that
I made - wh. I hope Hochstein
will make something of -

Benthams has a *Parkinsonia* in H. n. g. -
which I cannot refer to. Please send me
the character - Can it be the same
as *P. Africana* Lind. in *Linnæa* 23. p. 38.
This last seems more like our n. sp. than
P. acul. does. The leaflets are decidedly
as minutifl. - so that the name proposed
for the n. sp. may not be applicable
(You remember it was *P. microphyll.*

^{part}
In my next, I shall send you *Coccoloba*
of Beckenb. Pap. with the plates -
I have the letter press of *Piper* Bot.
but the plates have not yet been
sent from Philad.

I have had a visit from young Eaton
- & like him much -
Holden is staying with me, & is quite
agreeable.

Will you send me a copy of *Engelmans*
Synop. Cactac.? I wish it to replace
~~the~~ one given to me by Engelm. - which
I sent to Scheer, who is a friend of Mr.
Robert.

Have you *Ourisia* of Banks Mt. Harkness?
Can it be the *McKeania* name?
Get D.C. to copy the fig. of *Polygala*
McKeania, that we may compare
with Nutt. of Benth's plant.

Lindheim's *zorea* wh. you named for
me at Cambridge, seems to be the

Albany

New York, Jan'y - 21/53.

My dear friend.

It was of course to write to
you till the roads were opened.
To day I learn that the cars will
go without much interruption.

After I sent my last, I had
Engelmann's *Acanthoceltis* &
was sorry to find that it seems
to be the old genus *Mercuria*
V.B.R. - now - I forget what Monier
& think. It may be one of
Wotch's species in *Linnæus*.
- Pray work at it. I was too
late to countermand the order.

Now I send you interesting *Arctostaphylos*
which, I think Hooker will

have no trouble with - especially with
DeCarnes' figures in Delicatis - I...
those Studes of his. Eichelmann
admits that they are both new
& curious

I return Eichelmann's note of Synops.
Euphorb. Also Bentham's letter

Of those plants sent in your last
parcel. Horsackia Aspulecea is
the real thing. I had only a bit
before

The Brownia is B. nuda Whippley
Rep.

Who is the author quoted as Lieb.
in Bentham's letter? He has studied
oaks - but where has he published?

Hotten is with us yet - Nothing
about as usual - but makes
himself agreeable. My hand
is full the whole time - & I
don't ask people - except a few.

I let the girls entertain them.

A person is working for
me & I must close - It
is fine weather here now - The
snow is melting, & the sheets
are gay. Give my love to
Jane. I hope she is troubled
no more with tooth-aches! - Regards

to Hochstein Yours ever

J. Torrey

of all the petals are inserted into
the base of the calyx close to the
stam. sheath. Moreover they are
persistent, - or do not fall off early
as they do in Dalea. The same
structure exists in *D. spinosa*, *D. an-*
horensis, *D. scoparia*, *D. Emoryi*,
& *D. Schottii* n. sp. In true Dalea
they are inserted near the middle of
the Stam. sheath. The basal petals
higher up than the wings. How
what are we to do with these
species. They have a consider-
able resemblance to each other
in habit. But cannot they better
be placed in *Pteraleis* than in
Dalea.

Parry came here this morning
- on his way to Washington - He will
stay with me a day or two.

Eliza has gone to Washington. We
have nice warm weather and
much love to Lady Jane - & a large
share for yourself - as ever yours
J. Torrey

New York Jan'y. 28th 1852

My dear friend

I have your letter. - I was
begin to fear that the parcel
of Mrs. has been lost. Did
you take a receipt for it?

The Synopsis of Cactaceae came
safely.

I hope that Hochstein can
draw those Asclepiads. It is
a pity ad selectio the *Acautho-*
celdii - but it may be a
n. sp. I think Kelotschki's

paper in which he describes several
species of *Meserius* - *M. monica*,
is in the 20th vol. *Linnæus*.

Are you satisfied that *Leuco-*
Mytilium minus does not run

into *L. Texanum*? I have
specimens that I am at some
loss which species to refer
them to. You say (in
Sub. Scroph. Mex. Bound.) that
you have no specimen of
L. ambiguum to compare
mine with -- but did you
not send me my specimen of
no. 1271. Coulter Mex. marked
by Harvey *L. ambig.*? See if
you have it not in your herb.

It looks unlike our plant but
may not be essentially different

I have recently been studying
Apoynaceae. That fine
Schuler, with a long tube to the

corolla of the leaves velvety under-
neath -- must be new. Engelman
knew it -- but had it not named.

The long-flowered *Auronia* is
also new. The smaller fl.
mostly pubescent or woolly-leaved
species is the *A. tomentosa* I often
in Fern. Ind. Rep. -- a more woolly
form than usual.

You have an *Auronia* -- no. 1667
wrought, not collected by Bigelow &
Perry. It is rough-leaved -- the
roughness caused by short stiff hairs
from crustaceous elevated base.
I have called it *A. scabra*.

I had occasion lately to look again
at the flowers of *Dalea*. You
know that I once named (but did
not publish) what we now call
D. Fremonti, a *Poralea*. I find
that the corolla is truly papilionaceous

I hope you will find time soon, &
now that your hand is in, to
get those Mex. Benth. Compos. in order
- When you send them, please return
my list.

Do you know a white shrubby Labiate
from El Paso, with linear entire obtuse
leaves, & a very villous white calyx?

It must be a *Keithia*. All *Benthams*
sp. of this genus (in Prodr. xii) are
Branchian - but a Mexican sp. is
described in ~~Linnaea~~. Our seems
to be quite new. I am getting along
pretty well with Labiate Mex. Benth.
except that a few of the Salvia puzzle
me -

We are all well at home. Herbert is
the midst of his Exam. & the Free Academy
- I think he will stand very fair
Much love to Jane - Give you, J. Torrey

New York, Feb 20th 1857

Dear Doctor

I think you had better set
Hochstein (as you suggest) at
the long flowered Echites - or, if
you think better - at the *Amsonia*
with the slender-tubed corolla -

I propose to give Newberry a
nice drawing of an oak for
his *Sceloporus*. (This I have on
hand, & paid for. - Whipple
has no more money - & it will
be difficult to get cash for the
Sceloporus.)

So you think *Benthams* *busonia*
is = *Drummett's* 379, 1846! I thought

So too - but did not I tell you
that the latter was pretty clearly
Villoria pumila? The accompanying
analysis (which is from Fremont's specimen)
is very green for a Sciph. - & very
like a *Sentaniacea*! Is it possible
that the accurate Bentham has
made a mistake? He notices
a 5th specimen. Did you not
suspect that the *Villoria* from
the "Snake Country" - of which you sent
me a specimen & was the same as
Gouvier - or rather = Fremont's 379?

Just now I had a call from
Lo. Thuse, Prof. Bailey's assistant.
We shall never see our friend again
unless we go to West Point. He
is extremely feeble, & able to sit

up only a little while at a time,
& after taking some stimulant. He
is sinking fast - - I have made his
will. He may go off any day, without
more warning than he has already given.
Poor fellow - I lament that his re-
ligious state is so unsatisfactory.
He will not allow any one to approach
him on the subject of spiritual
things - except, occasionally, his, the
artist. You know that W. is as
near a Romanist as he can be, &
yet call himself a protestant.

Holton came back to day, after an
absence of more than a week. You
will remember that all the paper
he orders for himself & friends, is
of my size.

that I sent him one - but my list
is not here to consult. I will send
copies to Brongniart - DeCandolle & Laguerre
- If you can name any of Wright's plants
help me. I know some of them.

Yours ever
J. Torrey

It is a case of fern issue without the specimen 1510 Wm.

13
22
26
26
286

New York Feb 9. 1857

Dear Doctor

I am puzzled with a plant
which I have often looked at
before - & of which I enclose a
fragment. It is = 1510 Wright
& occurs in all the collections.
I have it (on an allied species)
from Gregg - It looks like a Santalum
- but can not be Verbenaceae. In
many respects it resembles a Cordia
- but I find nothing like it in DC.
Surely you know it. It is 5- and
summit of style twice 2- cleft - Ovary
4-celled, with an erect ovule in each
cell - Fruit always one-celled by absc.
Endosperm crustaceous, slightly corrug.
sculpt. - Exoc. very thin - Pray
enlighten me about it.

I have not 2065 Berlandier, which
Schauer (in DC) refers to *Lippia lyci-*
oides. Is it the same as Thurber's 86
Gregg's 145 & Wright's ^{145?} ^{(of No. 145 in H. (Mant.)}
Your *L. Wrightii*, founded on No. 460
& 1506 Wright, = 854 Thurber, is ~~so~~
near *L. scorodonioides*, that I see nothing of
consequence to distinguish them - judging by
the description of the latter.

Have you a *Lippia* from Gregg - tick-
eted "small shrub; - flower purplish -
West of Cerralvo, May 28/47 (3+)?
Can it be a var. of *L. scorodonioides*?

Can you spare me a bit of No.
2159 Berland. - referred by Schauer
to *V. myrioccephala*?

Is No. 1541 Wright the same as *Trich-*
stema oblongum Benth.?

Some time ago in running over the Bot. mag.
I saw a figure of "*Cedronella cana*"; t. 4618¹² which
was said to be = 474 Wright. Now I have
not this number. What other number of Wright

is the same? Is it distinct from *C. Mex-*
icana - or rather the one that we have
called so? How many N. Mex. species
of *Cedronella* do you know.

I have laid out a few *Labiatae*
& several other plants for Beutham
to examine. He must know them,
& I should be unwilling to publish
them, unless the paper first under his
eye.

I find on my table, this morning, a
letter from you for Thurber. He is
abent in Providence - where he went
to attend the funeral of his step mother.

With attend to Chaubin's request &
send a specimen (not a very good one)
of *Sacodes*. It is strange that
Decaisne has not received a copy of
Ph. Fremont's - I am quite certain

This was commenced - as you see - long ago
- I send it to show my good intentions!
New York, Feb. 27th 1857

Dear Doctor -

If you have names for Wright's
Rhemoneaceae of Hydrophyllaceae, I wish
you would send them to me.

Also his Erythraeae. These are very
troublesome & unsatisfactory. The charac-
ters, even of Griseb's sections are not
reliable. Sometimes I think that

Sennecius would put them all into *S. Cen-*
taurinus! *E. Muhlenbergii* of California
is probably not more distinct from *E. re-*
nosperma than is the Pennsylvania
plant, - which you refer to the latter.

Tell me what you have done with the
N. Am. species of *Erythraea* for the Flora.

In your manual (last ed.) you
say of *Verbena paniculata* & *V. whicii*
John. "nat. from Europe" - but Schauer, in

Dr. Prodr. has given no European localities
I have not Berlandiers, 2054 & 2247 - referred
by Schauer to *Verb. Canescens* ~~Schauer~~^{Kth}, = *Verb. re-*
anota Benth. Hooker. To which of Wright's?
(if any) do they belong?

I have come to the conclusion that
Verbena Aubletii & *V. bipinnatifida* are
not distinct. In my herbaria of these,
are numerous intermediate forms - some
of which may be hybrids.

If you can do any thing with Messrs.
Barnard, Convolv. Say so. I will do
them if you will furnish ~~the~~ names of
all Wright's that you either know, or can
easily determine.

— Young Bailey was in town a
day or two ago. He says that his
father keeps in bed all the time, &
is very feeble. I would go & see

him if I were not afraid of doing
him more harm than good

New York. March 27th 1857.

My dear friend

You must think it strange
that I have been silent so long. I
have been with you in heart every day,
I have delayed writing that I might
bring together all my quiddities for
you to answer. Now I will delay
no longer; I send by Thurber, my
mem. of criticisms & questions.

Wilkes' has written to me, & he
has authorized me to employ Hoch-
stein to draw some Expt. Exped. plants
- So he had better come on, & I
will then select five or three more
from Mex. Bound. Plants.

You know that Thurber purples
leaving here for Cambridge, on Monday
next. He will stay with you but

two or three days - his chief object
being to get grapes from your Duff's
cote bundle.

You have probably received a
copy of Engelman's *Cactaceae of*
Mex. Bound. Survey. I see that
he quotes as high as plate 75 -
now I have 24 plates engraved for
the *Cact. of Whipple's Exped.* - making
nearly one hundred plates for one family
of plants. This is carrying the work
a little too far - especially as more
varieties have, in several cases, been
figured.

I should be very glad to learn
the notes of Wiegand - or at least his
localities for the distributed numbers.

These ought to be recorded in my
lists of *Mex. Bound. Plants*. Of
course I mean only his numbers beyond
Coupe. & omitting those of Tinsley.

As I shall write again by Thurston,
I will not trouble you more at present.

Madge & Eliza are still absent.
- They anticipate much pleasure from
a trip to Cambridge in May.
We are having pleasant weather
here - Give much love to
Lena.

Ever yours,
J. Torrey

(very properly) your own name -
Will you do so to the other
families that you have worked
up alone - or let the rest go
as our joint work?

Let me know at once how
many other copies you will
want. - The 20 plates will
cost much more than the letter
press. - so I suppose -

I suppose you sent me that
last sheet of Dr. Hartweg. Of
the preceding sheet I had only 4 pages
& these belonged to a review. I was
razed, to go in a letter. Have you
in extra & complete copy of that
sheet?

What is to be done with Engelmann's
Synopsis of N. Am. Euphorbiae? I forget
how it was to be published.

New York. April 15 1837

My dear friend -

I have two unnumbered letters
of yours - one of yesterday, the
other of the 27th. By the time
you have finished with your letter
in studying papers of his own
accord, having taken a fancy
to them. I have put all
my unnumbered collections of
half-determined papers into his
hands - not to repeat in them
- but for an exercise. He writes
me materials - not only to be
sent - but for his own Herbarium.
He writes also to know what you
have. It is well for him
to make the Gram. a speciality

I found a quantity of Elliptic
plants. I put them up in a
nice bundle, 3 months ago, but
did not send them, as I ought to
have done - I was waiting
to select ~~for~~ some Ferns for
Gibber - to go with them - but
have not had time to put up
money for them - So I will
dispatch the parcel at once

I meant that Hochstein should
draw only two or three of the
plants, ~~but~~ of them find what
they would cost. & in the mean
time it was my intention to
select all the rest that it would

be desirable to have figured, &
let him proceed with them.
Perhaps he had better do them
at Cambridge - I will try
& send him something within two
days.

The Supr. of Public Printing
will commence on Whippley Boston
this week or the next - & I
have requested him to send
one set of proofs to you. They
will come at an unseasonable time
to you - but I hope you will
be able to ~~run~~ ~~over~~ them over
You will say how the little
shall be printed. I wish it
to be considered as a joint work
but you have put at the
head of Comparison & Scriptural

The Mt. Clinton was described to an old farmer I have & who is my kindred. I have you specimens of *Pinguicula* *Yucca* *J. Torrey*

return for what you will give me. I succeeded in finding the embryos. It was very small, & might have grown larger had the seed remained till fully ripe. There were also specimens of that plant which I thought must be a new gen. & named *Gibberia*. It had fully expanded flowers & half-ripe fruit. The new gen. is exposed, & the plant proves to be a new *Clintonia*! It has 3 alternate somewhat distant few-flowered umbels besides the terminal primary one. The species is well characterized - You will not be sorry that Gibbs loses his genus - for you thought he did not deserve one - At least, such a nice plant as this

Benthams says that the Grapes of Mt. Harvard Calif. were elaborated by Monro - who is he. Thinking I would like to correspond with a first rate photographer.

You remember I once told you that some one had proposed a name for Lindley's *Clintonia* - but could not tell who it was. I have just ascertained that it was Humboldt, Ernum 5 p. 156. footnote. He would call it Wittia, in memory of De Witt Clinton! Of course we are not obliged to use that name. Did not L. know that

New York. April 9th 1857

Dear Doctor.

I received the nup &c. by Thurber. I thank you much for all. By the Express of today I send several specimens for Hooker to draw, & I will let him have half a dozen more ^{next} ~~the~~ week. My analyses of the two *Caly Eriogon*s will help him - but I hardly knew what to do about the *Saxifaga*. You know that I can only make outlines - more maps - for I never learned to draw. I will, however, send him on Monday next, some sketches of the *Saxif.* ^{of} such other plants as I shall select - so that he will not go much out of the way - if he ^{will} also use the magnifier himself

If you get Hochstein to make out a bill
against the Mexican Boundary Commission
for the drawings he has done, & direct
it to Col. Emory, it will be paid at
once. You remember I told you long
ago, that he ^(Mr. Dol.) pledged himself to do this.

If he commences the three or four that
I now send, & includes them in his
bill, I will engage that the money
will be forthcoming. It is not necessary
to use one of the blanks in order to draw
the money. The regular account will
be made out afterwards of Hochstein's
receipt placed on that, as well as on
the original bill - So send it direct,
with your O.K. on it - or let me
have it, & I will get the money.

As nearly as I can ascertain, the copies
of Whipple, with the 25 plates, will
cost about 25 cents each (unstitched)

No bill has been sent for the extra proof of
~~Whipple~~ Beckwith's & Pope's Repts. & I expect
to get them for nothing - as I did a favor
for Mr. Wendell the Painter. You will
probably receive a proof of the next sheet of
Whipple next week - St. Ives, who
now has charge of the Pacif. R. R. Repts.,
urges me to let Newberry correct the
proofs - but I have objected - as one
alone can do them properly. N. may
correct the paper errors. I send us a
review of each sheet.

That sheet of Beuth. Hartw. came by mail,
as I supposed - & taking it for granted that you
sent it, the wrapper was thrown away in
my eagerness to see the contents. I will send
you my copy.

Thurber told you, I think, that we were expecting
some plants of Dr. Andrews to overhaul. They
have come at last, & ~~Th.~~ got some specimens
& stealings out of them. Newberry had been
supplied from the same stock. There was
a little of the Whipplea in fruit, & I took
a few capsules, which I now share with you.

New York, April
10, 1857

Dear Doctor

Copy of "Tuesday" arrived this
morning. I have remonstrated
with the public printer, most vehem-
ently, against the printing of Bro.
Whipple till we correct the proofs.

There is a young chap left in
charge of the Pacific R. R. Smith
by Humphreys, & he says that
the proofs cannot be sent to the
author - we shall see. The
1st proof was awful. - I did the
best I could with it - & yet New-
bery thought it "nearly correct" - for
the read it before it was sent to us!
You ask why I wrote D.C. instead
of D.C. The sup was all right - as
I have compared with the copy.

I had the gen. names all repeated
for each species. When there was
more than one - but they took
the liberty of altering them. So
in many other cases the copy
has been changed. Newberry has,
evidently, not been accustomed to
correct proofs.

Thanks for Hooker's, ^{Des. & Engstrom's}
letter - ~~the~~ I have recd. nothing
from Eng. - but I had one from
Bentham by the last steamer. I
would send it - but it is at home
- & you may expect it in my next.

I have done as you wished in
regard to the title of Pt. Whipple
- & think you will, perhaps, be glad
to get out of this scrape, if they
print the work as badly as the
other reports were done.

I congratulate you on your good
luck in getting \$200! Just in
good time, you will say.

Yours ever
J. Torrey

I corrected a 2nd proof of Bot. Whipple
yesterday & sent it off. Yours will
(I hope) follow it in time - for
I state it for granted that one
was sent to you - Don't keep
them a moment longer than is ne-
cessary.

I said that I was not sure of the section to which Cordia 1510 Wr. belongs. The characters of *Myxia* do not accord very well. The flowers are pretty large, even for a Cordia, & the tube of the corolla is much longer than the calyx. As to the subject: Subcapitata. The spikes are truly & densely Capitata: there being no appearance of a compound inflorescence, nor any elongation after flowering. Nevertheless DC. seems to have admitted into this section species allied to ours. The heads agree better with subg. Dasycephalae - but the calyx-teeth ~~are~~ are different, & the throat of the corolla is not hairy.

I send you a bit of the mbr. which (if you think it a good name) may be called *C. longipes* - the peduncles being usually much longer than in ~~the~~ this specimen. You will find some found in one of the heads. The calyx: are distinctly cleft.

Did I tell you that in this species & in some other Cordias (as in all) the ovules are ascending from near the base of the cell?

[I see that Alph. DC. notices the same character in *C. decandra*. Prodr. 9. p. 478 - note. Long ago I noticed such ovules in *C. Gerardianus*. *C. speciosa* &c.]

New York May 18th 1857.

My dear friend -

I found your letter of the 15th on my table this morning. It seems strange that Berlandier did not find that Cordia 1510 Wr. - for Juss. & Edwards found it near Monterrey. It cannot be described by Schauer in DC. unless its character are very badly given. Indeed I am not sure of the section to which it belongs - probably subcapitata.

I had already seen that Gage's specimens from Bolson de Maparin were of a different species - but that also seems to be undoubted.

After my letter was dispatched to you I found *Lippia myriocephala*. It is not among the Mex. Bound. plants, but seems confined to Berlandier's Coll.

In studying Mex. Bound. Verben. lately I took what I had laid aside as a *Lantana* but it proves to be a *Buddleia*, which is not among Wright's, & as you may not have it, - besides claiming the thing as one of Sabine's I send a bit in advance - Ray tell me

what you think of it. I must insert it
among the other Scribblers that you worked up.
Have you any ideas of adding Bentham's
views respecting this genus?

Emory is very desirous that the name
of the Mexican Commissioner, Salazar,
should be commemorated in a genus of
plants. He served through the whole
Survey - first as astronomer & then as chief.

It would be a neat compliment to
a man of real science, & not be unac-
ceptable to the Mexican Government. Now
what shall the Salazaria be?

Who should come in to-day, but
Schott & Parry. They are now down
stairs entertaining the girls, while I
steal away to the study. Parry is one
of the quietest men in the world - He
hovers about, & turns over any collection
of plants that may be lying about, without
seemingly to have any special objection

views. As he puts no information
on the labels of his plants, I sometimes
make him sit down, while I extract,
little by little, what he knows about par-
ticular specimens in his collection. I
sometimes wish I could be an independ-
ent as you are. I tell people who
come to see me, that I have no time
to talk. It is well that I see most
persons who have business with me, at the
Apothecary Office.

Schott has come to see a lithographer
about a map - so I will not
spare much time to him. He is
so entertaining, that the girls keep
him in the parlour.

Goddard called this morning to say
that he would not sail to-day but go in the
next steamer from Boston. He goes to Boston
tomorrow. I shall send small parcels to
Bentham & Harvey by him.

Yours ever

J. Torrey

New York, May 22/57.

My dear friend -

You cannot believe how
I have been occupied for
several weeks past - but
now the pressure is over, & I
can breathe freely - To-day,
having been interrupted with calls
(Buckley is at my elbow at this
moment) I ~~am~~ unable to write
in full, but in a day or
two I will post up my corres-
pondence, & tell you how
I stand.

The Mr Whipple has been
printed - but it seems there
are some ugly blunders in it.

While making out the index I
found that errors that had been
conceded remain as they were.
The plates will soon be found,
I mean, if the extra copies
of the letter-press were struck
off as I directed, you shall
have your share.

I enclose a check for \$35
which I think will be called for
you in Boston or Cambridge
Emory will be here tomorrow &
will doubtless repay me. I
feel no movement in
sending it. We are all
well. Eliza got in yesterday.
Love to your dear Jane -
Yours ever
J. Long

will be here in a few days but
it will be some time before I get
the plates. Many of them are printed
but there are some yet that have
not been worked off. Our copies are
printed directly from the stone - all
the other 23,300 copies! by transfer.

Thanks for the Proceedings of the Am. Soc.
Linnæus, Atk. &c. Keep an account
of the charges against me, & we will
settle accounts when we meet.

I ought to have told you, that I tried my
best to have proofs of all Whipple's Bot. sent
to you - but without success - & they would
not send me reviews.

So Hooker talks of coming out! It is almost
too good news to be true. If he comes in
the summer I shall have to receive him at
my cottage on the Palisades - except a day
or two at our house in town. Let me
know what further news you have on
this subject. Eliza has probably written
you about her plans. She means to make you
a visit - but I do not know at what time.

I have all the girls with me just now, & they are well. We shall go to Saugerties this week.
Harkness is driving kind of his studies, as usual. He is going with J. J. & K.
What has J. J. Aug. I expect to see you before he returns. I have left no room for
Morse's work. But how fast I have accumulated news. I will soon tell you all about what
I have been
doing -
Dopine must be
to you dear good
fare - J. J. & K.
J. Torrey.

New York, June 23, 57.

Dear friend

Surely you will think I have
forgotten you - but such is not the
fact - Every day - & almost every
hour you have been in my mind
- but I have not written (except
a few lines) to you, in a long time.

I commenced a letter - week or
two ago, & laid it aside (as usual)
till I could settle a matter that I
wished to lay before you - & so I delayed
from day to day - till I found myself
all in arrears. & then I could not
find time to tell you all I had to
say. I feared, too, that overbur-
med as you were with cares, I
should only trouble you with my questions.

Apart from my ordinary duties, I got interested in a chemical investigation respecting the means of preventing counterfeiting bank bills & other printed papers of much value. The difficulties were great & my ambition was a little excited by the failure of not a few chemists to accomplish a certain result. I have done the thing & have gained \$100.

The enclosed letters I ought to have sent you long ago. They were laid aside to go with my next letter - & this duty was neglected when I put off writing to you - Please ask Hockstein to sign the paper that I send - & forward it to the Major Ensign. The Major said that the rules of the Dept. required this formality.

You probably rec^d. from me, lately, a parcel containing 50 sets plates for Port. Pope. You can return the 10 extra copies of Beckwith's letter press - & I will send you the plates for them - just as you like. My parcel for England will go soon - a friend will take care of it. I will send Pope's & Beckwith's Rep. to Hooker

What did you make of that Galv'd genus from Expt-Exped. Plant? I could not refer it to any Gen. that I was familiar with. Those drawings of Hockstein were admirable. He is a good fellow, & will be soon as good an artist as Sprague - besides being an easy man to get along with. There is a complaint having him near me - I sent his bill to Wilkes - who, perhaps, has written to you on the subject. What is H. doing now? Is he willing to do any more work for Expt-Exped.?

I hope you will soon have time to hunt in order those Comps. for Mex. Board. The job will not be a difficult one for you.

Thurber says he will write to you about the paper -

I shall soon have for you such a quantity of letter press & plates of P. Whipple that there will be a balance against you. I think the plates are to cost \$1.30 a hundred, but I am not sure just now.

My extra copies of the letter press

course Contractions, to Pleashe
- but this has made some changes
of names necessary.

How long before I may expect
the Comp. of Mex. Bound.?

Tell me what you are doing
- & especially what families of
plants you are studying

I fear that my girls will
prevent Jane from spending those
hot days at Beverly. Ought
she not to have sent for them
later in the season. Give my
love to her. Although I write
so seldom, you are both in my
thought every day.

Ever affectionately yours,
J. Torrey.

New York, July 22, 1857

My dear friend

We are all wide awake early
this morning - for Eliza & Maggie
are to leave in ~~two~~ hours for Boston -
we have been looking forward
to it for these many weeks, &
I hope they will enjoy it. Maggie
is not strong - though she is better
than she was before her voyage
to Europe - but a little extra
fatigue puts her back for a
week or two. How I should
like to go with them! - I do
hope to look in upon you about
the time they are leaving, & perhaps
go to the Montreal meeting with
you. I long to work with you
& to talk over a multitude of things,

Yesterday I went to the Custom
House of the Collecta Shell about
Fl. Bras. He said the parcel
should be brought up to the Appraising
Office of ex? A. I was a
'strange' when I could not prop-
erly to give a free permit at the
Treas. application - especially
as I had nothing to show but a
bare bill of lading.

I have a parcel of Comp. for
Schult. Biff. which I hope to send
to Thunberg this morning.

My extra copies of *P. Whiffle* are
ready - but the plates are
not all printed. How many
did you say that I must
send you?

So Hooker is not coming after all,
I feared he would back out - for
the undertaking must seem to
be a very serious one to him.
- I get some of his Continental
excursions were more of a burden
than a voyage to this country
would be.

I work a little every day at
plants - esp. Mex. Bound. but
it is very hot in my study (al-
ways 9° above the rest of the house -
when the sun shines!) - I need
more books too - as well as authen-
tic specimens of many plants
- so that I get along slowly.
Did you ever work out the
Hydrophyll? I have followed
you in visiting Entola, & of

New York, July 30th 1857.

out of his hands. I shall send
on the drawings done by Hochstein,
to you - or to Wilkes. Is it a
fact that Hochstein charges more
than *Prague* does for Sept. 28. Draw-
ings?

You scolded me in one of your letters
for not sending you proofs of N. Whiff.
I also for not inserting on reviews.
- but I urged the printers on both
these points, without effect.

As to those "protected bank notes" that
Horsford extracted the ink from so readily,
he operated on one of the first specimens
printed by Rawdon & Co. Ask him to
take the green out of the enclosed speci-
men, & leave the black. I don't say
that he cannot do it, but if ~~it~~ he
can I will send him others to try on.

My dear Doctor - Many
thanks for your letter. I got the
opportunity of reading Engelmann's
I had concluded to let Curcuta stand
till E. returned. but I looked into
many of them - & if I am not greatly
mistaken there are quite too many
species. Inflorescence is an unreliable
character, & the ^{scallops} scales vary not
a little. I see that E. has made
some n. species, & reduced a few to n.
I sent a number of *Perbella* plates
to Hooker - & to Mr. Scheer a
full set, so far as printed at the
time. I suppose that Engelmann
will find Mr. Scheer - who is a well
known barber in London. I had nothing

but proofs from ~~Engelmann~~ Ackerman, & parted with nearly all that were sent to me. Of course I am speaking of the plates engraved by Perbelle for Whipple's *Lactosae*. These are 26 in number. I ordered no extra copies, - but Ackerman, who retains the stones, says he will strike off copies from them for Dr. E. if he wishes them. The printing for the government is all done by transfer.

I have not yet received all my plates for the extra copies of Pt. Whipple - but I am promised the remainder very soon. The letter press is ready in Washington - as I am advised by the printer. I repeatedly asked the former of the office not to trim the edges. I also requested Mr. Kaman to be sure that they were not cut, so that I have done my part in the

matter - Very likely, however, they have neglected my request - for they get a good price for what is cut off!

It is strange that DeCaine should complain of me, when I find it so difficult to get an answer to my letters. I cannot find out what has become of the engraved plates, although I gave the most particular directions how they should be sent. I shall write again by the next steamer.

Wilkes has acted in ^{his} usual manner regarding those drawings of Hochstein. When he pays this bill, & promises to pay for other drawings as fast as they are delivered, I will get others done - but not bill them - or the must provide a competent draughtsman for me, & make a bargain with him. I do hope that the business of the Expl. Expedⁿ will be taken entirely

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So Hooker won't come out! If he only knew how trifling a thing it is to cross the ocean in one of our noble steamers, he would not hesitate to let us have the pleasure of seeing him on this side the water. Neither is Sir

R. Murchison coming! I saw a letter from Lady Franklin stating that his Majesty has forbidden him to undertake the voyage.

I am afraid we shall have a poor representation of European science at the Montreal meeting.

You have probably received the H. Brail from Thurber. What is the price of my copy?

I have the following items marked on a slip, - & intended to write about them long ago.

Benthams says that *Tetracten* is not sufficiently distinct from *Trichotem*!

What is *Fendlera rhynchelyptoides* of
Rend. (Gram. p. 420 = 979 Fendler)? I
have not the plant. Can you spare me
a spikelet or two.

Is not Asker Bigelovii a large form of
Machecrauthera arboroides?

I can hardly make up my mind to
attend the Montreal meeting, for I have
little heart to go into a crowd. There are
a few friends whom I would be glad to
meet there - but I cannot bear to think
of the different circumstances under
which I attended the meeting at
Providence. Will the Cambridge men
go? I suppose Henry & Bache will
not be absent.

I have written to Engelmann. I
directed my letter to the care of Hooker.
(~~paid~~) - He will probably be in England
long enough to receive it.

Much love to your good Jane.

Ever yours - J. Torrey

when he returned to Washington. Does
he know what the other Nat. Drawings
cost? He compared Hochstetler's prices
with what had been paid for drawings
in other Depts. of Nat. Hist. - but such
things can not be compared. Each of
Hochstetler's drawings is enough to fill
a fol. plate - while many of the plates
of other subjects were made up of
several drawings - the aggregate cost
of which must often have greatly exceeded
Hochstetler's charge - At any rate
Wilkes' cannot help himself: for draw-
ings is rig. - & he must pay the
market price

I wrote to Engelmann. Care of Hooker.
Of course I shall do nothing with Audubon
till he returns. I wrote also to DeCain
inquiry to look up those engraved plates

I have no proof of Tetracera but
hope to get one for you very soon.

New York, August 12th 1857

My dear friend -

I have concluded to attend the
Monthly meeting, after having al-
most resolved to stay at home -
but I not sure that you are quite
~~too~~ much occupied to receive a
visit from me, I would spend my
short vacation at your house. - I can
not, however, think of going to Cam-
bridge till that next week is off your
hands - for I should only burden you.
- & on every account it is best that
I keep away from you till you are left
prepared with business -

My girls write in the most affection-
ate terms of you & your dear good Jane.
They say it would not have been possible

to be more kind & attentive than you
were to them. I feel grateful to
you both, & only wish we could have an
opportunity of entertaining you at our
house.

I purpose leaving this afternoon for
Montréal - to reach there some time
tomorrow. How long I may stay will
depend on my feelings. After I have
seen all my friends it is probable
I will return to New York. Henry
passed through here, with his wife &
two his daughters, on Monday. Guyot
left this city yesterday afternoon.
Herbert is to meet him at the
White Mountains - but I do not know
the day. - That will be determined after
Prof. G. reaches Montréal & ascertains
when the meeting will probably close.

It seems that the girls changed
their plan, & did not leave Cambridge

till Tuesday evg. They were probably
at Providence last night & can hardly
be in New York before this evening, or some
time tomorrow - So that I shall
miss seeing them.

Many thanks for the plates of Rept. Exped.
Bot. - & also for the Bot. of Japan Exped. etc.
It seems that you worked up after all.
- Did you get that \$100 which the Commodore
seemed willing to pay for the job?

Mr. Stone did not call on Wednesday last
- & he came for his parcel the next day
before I arrived at the office. Thacker
attended to the business - & had the parcel
carried to the ship. I regret not seeing
the young gentleman, as I had some-
thing that I should have been glad to
send to Hooker.

I saw the Commodore (Wilkes) &
he made excuses for not paying the
money - but promised to forward a check

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A day or two ago I was surprised
to get from Dr Bigelow, a printed
copy of the Bot. of Whipple's Exped - con-
taining our paper, together with the
Cactaceae, an introductory article
on the Bot. Geography of the region
explored, & a memoir on the
principal forest trees found on the
route. I had often inquired whether
these matters were printed, but got
no answer. As yet I have not
had a chance to look over these
reports - but from a mere glance
of the Bot. Geog. & the Forest trees,
I fear they are mere reprints of
the articles that appeared in the
preliminary - or 8vo. Report. He does
not seem to have availed himself
of ~~any~~ ^{the} numerous corrections & emendations wh.
I made in a copy of that ed. & forwarded

to him. I urged him to write both of
these memoirs over - & to ~~use~~ use the
materials that I furnished him with.

As to the Cactaceae - I presume that Dr
Engelmann furnished him with the
character of the species, & the critical
remarks. I have 150 copies of
the plates of Cactaceae - which were intended
for the extra copies ^{of text} that Dr B. promised, long
ago to have struck off. * My own extra
copies of Bot. have not yet arrived - & I
rather think ~~they~~ that they include Bigelow's
species. If this is the case, I shall retain
a certain number of the plates of Cactaceae.
My parcel will probably arrive from
Washington while I am at Monckell

I have been studying *Crotonolaccae* for a
week or more. Do you consider *Aepha Truxillensis*
as anything more than a var. of *C. Crochii*? It differs
in some respects - but there may be intermediate forms

Write much love to Saml. & many thanks to
you both for so much kindness to my dear girls. I am
as ever your affectionately
J. Torrey

* I did not learn till yesterday, that the lithographer
had printed these.

- 10 - such thing. I was with the Col. & he says - but the review had been postponed before
I had engaged to read him. It is now uncertain when I shall go to Cambridge
next fall the
next good
I mean
am in
much in
to check
you in
J. Long

I was agreeably surprised to find
Seemann at Montreal. He came as
a delegate from the Linnaean Society.
I like him - for he is a good, frank, in-
telligent man. He has started for
St. Louis, & will return in two
or three weeks - when I hope to see
him in New York. I forwarded to
you two letters that he left in
my care.

Col. Morris, commandant of the 97 Regt.
is the gras-man whom I desired to know.
He is one of the Crimean fine-cutters & is a
right good fellow. He has a large collection
of papers (including Beethoven's set of weights) at
his house in Montreal. His wife quite so the
rough a botanist as I hoped to find him. There
was a laughable story in our Journal of Commerce
this morning - that a review, announced for a certain
day, did not come off - & it was ascertained after-
wards that it was prevented by the Col. being
closed with me, studying grapes - that the
regiment had surrendered to a stack of hay.

New York, August 22nd 1857.

Dear Doctor - On my return
from Montreal this morning, I
found your letter of yesterday.
We had a good meeting - of I re-
mained till its close - which was
more than I intended to do when
I left home. The girls had not
yet arrived when took the boat
on Thursday of last week. They
must have remained two days at
Providence. I have received no
news from them since I went away.
Herbert was in time for Gray's
& for Harbings, who accompanied
him. They started on Wednesday
evening from Montreal - intending to

Spent the next day at Quebec & leave in
the evening for Portland - reaching Gor:
ham, where they were to meet Herbert,
etc following morning. Harkings went
to remain with Geyser, & spent time
in measuring the peaks of the White
Mountains.

I return Harkings' bill, with
the addition that you advised me to
make

Wilkes was at the meeting, & we
talked about the drawings &c. He
will find Harkings' parcel waiting
for him at Washington.

Poor Tipu! I do, indeed, lament
his death. You will miss him very
much - & so shall I when I go
to Cambridge.

Mr Stone got the small parcel, as
well as the large one.

My extra copies of Plant. Whipple have
not yet arrived - but I found a single
one (sent by Express) on my table this
morning. It contains Bigelow's two
reports, & Sullivant's notes - the latter
not in a previous copy - sent two weeks
ago. I am mortified to find
so many typographical errors in
my portion of the work - Many of
these errors - indeed the most of them,
were corrected in my proofs - I
must make out a list of the more
serious mistakes, & append it to
the copies that I distribute. Perhaps
the Superintendent of Public Printing
will authorize the insertion of this
errata list in all the copies -

New York Aug. 29 1857.

Dear Doctor -

I have mislaid your last letter, so that I do not remember all that you wrote about. As to Harvey's Algae, I am quite willing to let you have them: for with my expenses to Montreal, & Herbert's outfit - as well as some other outlays this month, I am not particularly flush. Indeed I subscribed to Harvey's undertaking more to help it along than because I wished to share his collections. I shall probably never be able to take up the Algae again, although I once took great interest in them.

What is Hochstein doing these days?
If he intends visiting his friends in
Western N. York. I hope he will
call & see me. I shall need
some more drawings made for Wilks.
if they can be paid for without an-
noying me - or keeping you out of your money.

When will you send me the Compos-
ites of the Mex. Boundary? I think
it would mistake you long to put
the whole in good order.

I have found your letter -
The stones for Cactaceae of Whipple
are in Acherman's hands. The en-
graving on them will not be
rubbed off for a year or more
- so that Engelmann will have

time enough to get all the copies
he desires. Acherman says he
will print for him directly from
the stones.

Major Emory (who was here this
morning) says that the Cactaceae
engraved in Germany for the Mex.
Bound. are superbly done. One
half of the plates are to be execu-
ted abroad & the rest in Geor-
town (D.C.)

I hope that Herbert is with
you by this time. He expected
to leave the White Mt. about Friday
of this week, & he anticipated
much pleasure in spending two
or three days at your house -

Yours ever
John Torrey

a moderate cut in New York -
Glad I am that you have at least
been able to look on Mrs. Brown.
Compuncta - Let me have the stuff -
when you are done with it. I
cannot go Cambridge just now, as
we have company at Sweden. & I
must go up two or three times a
week to ^{keep} entertain them -

Parry was here yesterday & this
morning. He wishes to go out with
Joes to the Survey of the Colneads - but
I heard this morning that Dr. Newberry
was engaged as Surgeon & that what
is to be done with Newberry's Report?
If he go with Joes, you will probably at-
tend to the proofreading -

Give my love to Jane & tell her I
hope she will not be troubled much with
Herbert. The boy can now amuse himself -
& you can leave him to his own resources
Yours ever J. Torrey

New York. Sep. 2nd 1837

My dear friend -

This morning yours of 31st Aug.
was in my table - I put up, at
once, the Algæ Suædæ - for Skott.
(as the parcel was in the Agency Office)
& have dispatched it by Express -

Herbert is probably at Cambridge by
this time. Harkings returned yester-
day morning. He remained so
much longer than he expected to do,
at the White Mt. that it was necessary
for him to return direct to his post.
Herb. remained with Prof. Geyser - but
was to leave about Monday - & go
to Cambridge. I received a letter
from him this morning - but it had
been 4 or 5 days on the road -

I send you to-day a copy of Plant.
Whipple. You will find it rather full
of typographical errors. They would
not send me reviser - & my corrections
& first proofs were, in many cases,
either not attended to, or bad made
worse. So I have asked the Sup^t. of
Public Printing for an extra page, & which
to insert the most important errors.

Pray note all that you observe, &
return me the copy - You shall
have 50 of the set now on the
way to me. It was only this morning
that I received advice of a box and
on the way to me, containing 150 copies
of Whipple's Bot. & 150 of Durand &
Kellogg's. - The latter I did not order.
- but Durand will need them.

I have ~~had~~ the plates of your part
of Bot. Whipple, & your 50 sets are laid
out, waiting the arrival of the

letter press - It seems that Sulli-
vant has furnished descriptions of the
Proper & Repet. in time to appear to
the Bot. Repert. I have seen a copy
with his additions. I suppose that
he has also furnished the engraved things,
after taking as many proofs as he
required for his own edition. As
soon as I ascertain who is to do the
lithographic printing of those plates, I will
try & get some extra copies for my
letter press. Do you wish the
plates of Cactaceae for your copies
of P. Whipple?

Will Harkness come to New York
& work here? By your advising me
to keep ~~him~~ here for a time, I sup-
pose he has been consulted on the
subject. I have no room for him
to lodge - but he can get board at

New York, Sept. 7th 1857

My dear Doctor -

Yours of the 4th reached me on Saturday - & I was too busy to answer it on that day.

Herbert remained so much longer than he expected to do - & I was subjected to so much expense in travelling about with Prof. Gray (\$73!) that he made track home as fast as possible. Besides he used up his cloths, so that he could not make a decent appearance. He deeply regrets not being able to make you a visit.

You have had a visit from Scammon by this time. He spent an evening in my study, & I had two calls from him at the Gray Office. Really I don't see why you should not like him. To be sure he is not the greatest botanist in the world, but he is young as yet & will

be wiser if he lives much longer -
I had ^(all but of the adrep. seeds) parcels ready for all our English
friends: but was so beset ~~on~~ Saturday
that it was absolutely impossible to
put them up in time for Seemann. You
don't know how my time is cut up at
the Agency Office. I will, however, send
all by the next Commodore. Sure the
Text of Bot. Whipple must arrive in a
day or two, for it was shipped from
Washington a week ago. Pray cut
out the Cactaceae portion of Bot. Whipple
from your copy. I send it to Engelmann
by Seemann.

Mr Newberry is going to the Colorado! I
will instruct him as to Bot. Collections. for
he will call on me before he sails.

Monro's title was put into the Text of
Whipple ~~for~~ before I knew him. It was
given to me by someone - I forget who.
It was

If Govt. will not give me a full 2
copies, ^(for Bot. Whipple.) I will have one extra copy
made right - but I anticipate no
objection to what I have asked as justly
due me -

I shall do as you advise about
plates of Cact. Whipple. I shall
write Engelmann

I've been sailing for California &
I had no opportunity of seeing him.
It is a pity that a regular botanical
collector could not be sent out. Perhaps
one of the soldiers could be drilled to
preserve specimens of plants. Newberry
can only regard botany as a secondary
matter -

Yours ever
J. Torrey

Wright was here to day. He is
very desirous of knowing whether you
have received any of his Cuban plants.
He brought with him several bales & boxes
of specimens, which are on board the vessel
at Quarantine. He thinks that the
fullest sets will contain 1500 species.
The genus, of which there are many
- Eaton would be glad to study. I was
in my office while Wright was here.
They will be disposed of as you advised,
Wright looks very well - I mean
in health - for he is as rough as
a bear. I think he will pay you
a visit next week.

Much love to your Dear Jane - whom
I hope to see ere long - but not before
we leave our Country boat -

Yours ever

J. Torrey

Can you lend me Wright's notes on his
N. Mex. plants? - I need all beyond Compton's.

New York, Sept. 10th 1857,

Dear Doctor - Your letters
(the last of 9th inst) are all before me -
Harriet laments that he lost his visit
to Cambridge - He was completely used up
in clothes & money & had to run home in the
shutest & cheapest way.

The extra copies of *the Whisk.* have arrived.
They do not contain Bigelow's articles - nor
Sullivan's reports. ^{Cactaceae.} So, if the *Cact.* have
not been received for Engelman, we must
fall back on Bigelow for these, who has
200 copies of the entire Botany. I shall
150 sets of *Cact. plates* - & I will transfer
them to Bigelow after receiving a few for
the letter press that he may spare me. You
will be able to get some from him. He
can get more plates from Acheson, so as
to complete his sets. We can distribute
our part of the Botany without Bigelow's
- & your 50 copies shall be sent as soon as

I can get them ready - but you had better not distribute till we get the errors printed. I could get nothing ready in time for Wednesday's steamer but shall send a pretty large parcel by the next American frigate. As W. L. G. came one day, & went away the next - being up much of my time, so that no opportunity was given me to prepare parcels for him.

The Gram. of St. Whitt. were described & printed before I knew any thing more of Col. Muro than some one told me - viz. that he was a Major in the 2. Ind. Co's service

Two days ago I recd. proof sheets of a small report that I prepared for Ansbull (Parker's Exped.) - An officer saw them & begged, as a favor, that I might see them before being worked off. They permitted him to do so, but said, if the sheets were not returned by the next mail, the printer should proceed.

without the corrections. Part of the work had already been printed. I did not know that it was in press! Is not this too bad? I shall write to the Supt. of Pub. Printing, declining to render any more aid in superintending the plates &c.

The *Portlander* MS. shall be sent out tomorrow. I recd. your letter at the office. I could not go home & see it before the mail closed.

DeCassine writes to me that he is preparing a Catalogue of the Scientific books of Dupplin - which will be ready by November next. The sale will take place in January. Very likely there will be some works in the list, that we would expect to have - if it were only because they were belonged to so distinguished a family - for I presume that Dornan inherited the library of his father.

1890
The first of the year
was a very cold one
and the snow lay
on the ground for
many days. The
frost was very
heavy and the
wind was very
strong. The
people were
very much
concerned
about the
crops. The
government
sent out
a number of
agents to
see that
the people
were
provided
with
seed and
other
necessaries.
The
people
were
very
grateful
for
the
help.
The
government
also
sent
out
a
number
of
agents
to
see
that
the
people
were
provided
with
seed
and
other
necessaries.
The
people
were
very
grateful
for
the
help.

1891
The second of the year
was a very cold one
and the snow lay
on the ground for
many days. The
frost was very
heavy and the
wind was very
strong. The
people were
very much
concerned
about the
crops. The
government
sent out
a number of
agents to
see that
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were
provided
with
seed
and
other
necessaries.
The
people
were
very
grateful
for
the
help.

New York, October 21st 1857.

My dear friend -

I suppose you have been too busy to write - or even to read letters - & I too have been fully occupied. The commercial difficulties have given us ~~plenty~~ of business at the assay office. We have received ^{far} more silver within the ^{last} six weeks, than in all the rest of the time since the office was established. All the old coin of bullion that have been stored away in vaults - & not a little plate, have been brought to be melted down & sold at a premium. Our men are over done - & the assays are kept later than usual - This extra work cannot last many weeks - We had, however, about 12 cart loads of silver to-day.

I have been studying Comenius, & am puzzled with some of the N. Mex. Ephedrae.

We have, apparently, several species,
but I am uncertain about any one of them.
E. antisiphilitica of Berlandier I am in
some doubt about assigning to the imperfect
description of it by Meyer - as copied by Ledeb.
cher (Conf.) I have not Berlandier's
plant - & if it is in your set, pray send
it to me. I have supposed it to be
the only one of our ~~other~~ species that
has succulent scales to the seed.

But what puzzles me most, are two
forms ~~with~~ in which the fertile aments
consist of imbricated distinct (of even stip-
itate) scabrous scales (14-16 of them) sur-
rounding 1-3 ovaries or seeds. There are
no regular decussating sheaths - the
thin imbricated scales, taking their place
now is all this abnormal? The majority
of the specimens (from several localities)
of *Ephedra*, in the collection present this
character - If not abnormal the
generic character of *Ephedra* must be modified

Of course you have plenty of specimens
from Wright of all the forms - Of
the abnormal kinds, one has long sheaths
with ²⁻3 orbiculate persistent points, & smooth
immature seeds. The other has short
sheaths with ²⁻³ short-lanceolate points
of scabrous seeds -
All of our *Ephedrae* belong to the 2nd
section of ~~the~~ Meyer & Endlicher & I just
run over your set & tell me what you
think of them.

I have determined, as well as I was
able, all the *Quercii* of the new Mexican
& Californian Collections - but I wish your
set of Wright's that I may identify
some of Liebmann's species. Pray
send me your set - & if you
have any from California (especially
of *Rehweiji*) let them come with the
others

"Guin to Sprague to draw white I
am away" [This is from your letter of Aug. 1. last.]

"Aphanochaete exilis n. gen.

Hoffmeisteria pluriseta

Whipplea n. gen.

Layia 5-chaeta

Trigonopappus Bigelovii n. gen.

Calais Bigelovii

— cyclocarpa

— (Aphanocalais) tenella

Stylocline -

Evax caulescens.

Timosynis Bigelovii. "

Sent to Riverside by I. J.

Viola - n. sp.

Thamnosma

Horackia meir

Spiraea n. sp.

~~Crotophaga~~

Aphanochaete - [withdrawn]

Eriogonum lachnogyne

Obione hymenolytra

Stropholivia

Conallorhiza Bigelovii

Damaroneium Californicum.

a list of send me the names from time
to time. I suppose Eubank will determine
the terms pretty satisfactorily.

I have a box of Whipple's Report
packed for you. I would have
sent it off yesterday had I not
found that the carpenter had
not made it large enough to
include all that I wished to
send you. If I cannot ~~send~~
find another box tomorrow, I
will send this - & let the residue
go in a parcel.

We are all living quietly, as usual
- The girls talk much about you, &
would enjoy a visit from you of Jane.
- If possible I will be with you about
the holidays. Greatly do I long to
see you & yours, & to have a good
cozy time in your "little study". Give
my love to Jane, & believe me as ever your
affectionate
Isaac T. Loring

New York, Dec. 10th 1854

My dear friend.

You must think it strange that
I have allowed so long a time to
pass without writing to you! And
yet I have thought of you almost
every hour, when I was not sleeping.
The fact is, there has come upon
me an aversion to letter writing -
- or rather, a disposition to post-
pone this duty from day to day -
so that I have allowed a great
heap of letters to accumulate.

I have not been idle - for I work
as much as ever I did - Now I hope
to do better - At any rate I make
a good beginning, by writing to you.
For several weeks, I have been
dying & reviving Eudogon for the

Boundary - & it has been a difficult task.
Had I been near you, where I could have
had your advice of the use of your
books, I could have completed the work
in half the time that it has taken me
here.

Those lists of Wright were of scarcely
any use to me, because very few of
his specimens had the original num-
ber attached to them. Besides, he
has not given us notes as to the range,
height, color of flowers &c. of the plants.
- but chiefly of the place & time when
& where he gathered them.

I should have sent in my Catalogue
to Major Emery by this time, had
not the Supt. of Public Printing told
me that the Repts. of the Major
could not go to press for some time
yet - & I wished to revise what

I had written. As soon as the copy-
ing (now in hand) is done, I will
send the Report to Washington, & draw
the money - giving you a share -

Young Clark was at our house last
week, & told me much about you.
I hope he will get a good place soon.
He must depend on Chemistry for
his grub - as Natural History will
not pay.

If Mr. Wright is with you still
tell him I shall write to him
this week. It was very kind
in him to send me those Cuban
plants. They are very nice specimens
& will be very valuable to me as
soon as I can obtain authentic
names for them. As fast as you
make them out, enter them on

What is *Fraxinus Berlandieri*
arum D.C.?

Will you pay any attention to
the garden spec. of *Fraxinus* described
by Bore?

Apollon. Do you not find some
Californian specimens that connect
the two species? I have never
seen the calyx in *A. multiflora* = 1/2 the
length of corolla. The shape of the
segments is not uniform.

What is *Buddleia* Gregg? ^{no. 589}
near Dolores # 593 valley N. of Durango?
Bank of river in Verdugo mts.

Budd. "Tepozan - Shrub - 10 feet -
fl. whitish - near walls of Bishop's
Palace - Monterey Feb. 6/47" no. 589

Do you know the species of a *Cordia*, Key West
Blodgett with capitate heads - of like
the N. Mexican one that I thought new?
Is it in *Pugliese* (Shuttleworth) Cat.?

Can you identify *Nuttall's* *Pleuro-*
in *P. Gambel?*

A. Gilia (Pittsburg.) *Depressa* Whiff. *Ref.*
- which you thought = 423, 1844 *Flora*
- the same as *G. filifolia* Nutt. *Gamb.*?

Can you return by Thurber
the *Compositae* of Mex. *Bomb.*?

I wish to distribute that part
of Mex. *Bomb.* Coll. - & to give
the names.?

Tell Thurber that the *Andrews*
boxes have come at last - One
of them contains *Andrews* *several*
collections - embracing many
from *J. American*. They are

of no great importance -

I must break off - It is
of no use to attempt letter writing
(except mere notes) in this

April office - Love to
Jane & everyone.

J. Torrey

See if you can identify any
N. M. Pleurostium that I
send - a list Thurber first
compare with your named
collections -

New York. Jan 7. 14th 1858

My dear friend -

Here I am at my table in the study using the notes that I made in Cambridge, & putting my last words to Asclepias adansoni, - which are now tolerably satisfactory. - I mean the species belonging to Mex. Borealy.

I had a pleasant time at Hayes's & we talked Chemistry till towards this morning. The good soul had me out of bed again at 5.30. & Mrs. H. made breakfast for me before 7 o'clock - so I was comfortably seated in the car in a half hour later. I found all well at home - Maggie not, to be sure, quite well - but in good spirits.

My ride home was very comfortable, & I was able to read nearly the whole distance.

I see you now pottering at your desk, & your good dame reading an interesting book in the small study. My clear joyance is not sufficiently distinct in

I have recd. a letter from Hochstetter. He will come here soon. Faunt says his publisher in Philadelphia, who is setting up a splendid ed. of his reports (3 new ones to be added to those printed by Cooper) will have a few of the more interesting plants figured. - G. & W. Hochstetter shall do the drawing.

I spent all last evening with Dr. Alago Collet, ^{and} examining the famous "flower" that grew on a boy's leg. - I believe you have ~~double~~ read wonderful stories in the newspapers. It is undoubtedly a vegetable - a fungus. I succeeded in finding the thecae or spore cases. - of the spores themselves are innumerable. - If the plant had grown on the earth I should call it Asarion. - so much does it resemble the figured species. ~~It~~ even in the form of the spores & their thecae. My love to David & kind regards to Wright. Ever yours. John Torrey

regard to Mr Wright - but I think I see
him also - busy at his own table over the
Hemp kangis. What a pleasant little
gathering it was at your father's! I feel
quite at home there. I know that I
am not envious - but whenever I see a
happy mother at the head of her family
I appreciate my own irreparable loss -
- now as greatly as ever. If I were not
so constantly employed I should be un-
happy indeed.

How kind your Jane was to me! I can
make no return, but gratitude - coldly than
- of remembering her & you in my poor
prayer.

Aug. 19th! Despatched again - but I
have been much pressed - & I lost
this note after I commenced it - & it only
turned up this morning.

I wish to finish the lettering of
Erney's plates - but there are several
that I wish your opinion concerning - before

deciding on the names. Have you
examined Tehuacan? If you remove
it to Tichetema shall the specific name
remain unchanged? I suppose so -
I wished to give Salizaria (which was
at first called Cyrticalyx) - a specific
name that would be suggestive of
the Mexican Arumifera species. What
think you of S. leucostriata? Is that
too forgotten?

I cannot see in what Ascauthocella
Engelm. differs from Mormonia. The
N. Mex. species seems to be undivided.
Is it in your set of Beuland?
- & has it been named by any European
botanist so far as you know?

Polyala cucullata - Aultz. must be
P. nutkana. Some of my specimens
show radical flowers. What say you?

New York, Jan'y. 21st 1858.

Dear Doctor -

The little specimen of a Sonora plant that I purposed sending to Miss by mail. is quite a different thing from what I supposed it to be. It is the same as Wright's No. 1666. of which I have only a very poor specimen with a single flower. It appears, however, to have a double ovary & must be Apocynaceous, but can hardly be an Ansonia. See if you have the plant in fruit. & let me know where Wright found it, as well as his name for the plant &c. The lobes of the Corolla are very broad for an Ansonia - It may be an Echites - but it is all guess-work without better materials than I have at present.

Can you spare me your No. 1666 & Californian ones? I had no time

to look over them when I was
at your house. I can name most
of them - but it is desirable that
I should see all the forms of the
weaker species before the next issue
of Brit. is printed.

July 23. Has the *Aristoclema* No. 1700,
567 & 568 been named? Is No.
1701 a variety of it?

In clearing up my table
a few days ago, I found a letter
that I had intended for you but
it was covered up before it was
finished - & so you never receive
as it was disinterred. It is
almost in a fossil state.

What think you of my story about
the parasitical fungus? Curtis
may be able to throw some
light on it. I can carry the
investigation no further. It
seems pretty clearly to be of the
Phallus tribe.

Yours ever
John Torrey

Mr. Chamber - who is at
my side - says the Bremen
Steamer did not sail today
because she has not yet
arrived! 23 days out
& some concern about her

For Dr Gray

Is *Alphonia* ^{Herb.} a good genus? I have this plant from
Briegleb & also from Wright's earlier Texan Coll.
- ~~but~~ You sent me a duplicate from a
Mex. Coll. or Texan. Coll. - probably by Lindheimer.
- but ~~the~~ the plant is bulbiferous - not tuberiferous
as I think Herbert has it. I did not get
the specific name. Can you refer to Bot. Mag.
sub t. 3779? - Or perhaps you have it in
your herb.

I have a specimen of No 556 Wright, with young
fruit - but no flowers. It is evidently an *Echites* -
but can it be the same as the long-flowered one
with broad leaves (No. 557 Wright)? Tell me
what kind of a flower it has. It is not in
any of my Mex. Bound. Collections.

The Apocynous plant - Wright 1666 & Thurber 1832
(both from Magdalena, Sonora) has the seeds certainly
Comose at ~~the~~ ^{both ends}. ~~Let us see if you can~~
~~be careful in the bands of hair in seeds~~ - as you
~~find this in some of the seeds above it~~. This
would seem to exclude it from the Tribe *Geliceae*
of those it hits ^{Alphoniceae} ~~Alphoniceae~~ - but I have not yet deter-
mined what the ~~styloderm~~ ^{styloderm} ~~constitute~~ constitute. Nevertheless
I strongly suspect that our plant is *Haplophyton*, Dne
(in *Prodr.* p. 412), & that the artist of Mac. & Sesse's drawings
has made a mistake about the ~~structure~~ ^{structure} of the coma.
It may even be *H. coincidum* Dne. The chief differences

Being the larger size of the leaves, in DeCausse's plant
Has Seemann noticed it in his Bot. Herald? There
are neither glands nor nectary in buds - of the
flowers, according to Thunberg, are sulphur-yellow
Boiss. 2. Stij. oblong-capitate. See the fine
long funiculus in the sp. enclosed. Is it
adnate to the placenta at an early age?

A. S. Gray Office - Wednesday ^{Evening}
May 27/58.

Dear friend -

I found your letter of the 25th & the proceedings of Lin. Soc. on my table this morning. Thanks for these - & for the perusal of Engelmann's letter, herewith returned.

I must have Bot. Herald - & hoped by this time, that Seemann w^d have picked up a copy for me. That pod of tonight no. 1666 will enable me to satisfy myself about the plant.

You say that such a Fungus as I described to you has been heard of before - Pray tell me where I can find an account of it. A recent work on ~~fungi~~ Fungi Parasit. a. animal., of which Clark has a copy (author's name forgotten) - says nothing of such a plant. I did not say it was a Phellus - but that it seemed to be Phellorid - more allied to Aseroid than to any other genus.

Shubert is still sick at home.

I will write to Engelmann at once
- You could not have sent back to me
the Cart. of Whipple? The text of that
part was removed (as I think). I
sent to Engelmann. He shall
have the plates - at any rate.

I wrote to Bickel & asked him to
send me 100 copies of the entire report
- but they have not come yet. There
only one copy that contains all the
articles (~~that~~ Bickel's, Sullwast's, &
this I cannot spare.

I Hooker & Thomson on Saxifrag. Dred.
I have only run over. He can hardly
follow him all the way in reducing
orders. But what he calls an order others
would regard as a class. I was at first sur-
prised at his including Protopharyngales, Drosocerae
&c. ~~but~~ in Saxif. but he is not far from right.
Shall we, in the highest condition of our science,
be able to define Natural orders with any precision?
Yours ever. J. Torrey

a little for me. You had my specimens
once (I mean from the books) - but they
were returned without notes. - I enclose some
notes that I made some days ago.

Rochstein has been in town two days.
He commenced working yesterday. How
you are getting on after I am
done with him? He occupies my
study all day, & boards with a Dilettante
somewhere in Spring St.

How does Wright get along with
his Hong Kong plants. I wish I
could spend another week in the
same room with both of you -
He is a right good fellow. There
is no one here who cares for Botany
but Thurber - & I am glad that
his lectures at the All-Pharmacy will
down be over - for he can then resume
his grasses - in which he was making
good progress - when in an evil hour
that professorship was thrust upon
him - Ever yours

Madge is still poorly -
but mending slowly.

J. Torrey

New York, Sept. 5th 1858.

My dear friend -

Your of the 28 & 29 Inst. were
recd. in due time. That other letter
(of the 25th inst) was enclosed in neglect
to you, by mistake, & in my hurry - but
I suspected my blunder, & knew you
would be charitable. Thanks for
attending to my request about fungi - & I
you will yet find what Berkeley says
about those growing on bandaged limbs.

Ackerman will send the 100 set of
Cact. plates for Engelm. & Bigelow's mem.
in Whipple's Rep. - & I hope you will
soon get the 100 copies of the letter-press
from Bigelow.

Mr. Ackerman says that the charge
for printing directly from the stones will
be just what he pays his men - viz.
65 cents a hundred. The paper costs
\$14 a ream - which will make about
\$1.43 for a hundred printed plates.

Thurber has been at the office only one day of part of another since I wrote to you. He is sick quite frequently - & I do wish he would stop smoking, which surely does at least make him worse - if it be not the cause of his dyspepsia. He has had the books from Putnam's brought to the Agrary Office, & they have been hoisted up to the 5th story of the rear building. As soon as he gets well, the speaking will be completed.

The Oaks came in good order - I can do nothing with those from Liebmann. for I have few books to consult - & besides, all the specimens are destitute of a cover. No doubt they are determined in Bot. Herald. Neither can I do any better with those of ~~Lexan~~ Berlandier - all of whose species (with perhaps one exception) belong to the super-Neavean Flora.

I now understand nearly all the Californian, & Mex. of Lexan Oaks

I have made havoc with Liebmann's species - as you will see & approve of when you examine the genus. It is impossible to make out the Oaks of a new & distant region unless one has an extensive set of specimens from various localities. Liebmann only saw the specimens from Oaks that were preserved in Herb. Hooker. I have put names on your sets & will return them soon.

When I wrote the Gentianae for Mex. Bound. I was quite dissatisfied with my determinations of Erythraea - especially of the Californian species - of the latter I now suspect there is but one. When I saw the Canchelagua drawn, because it is so celebrated a plant, I thought it was probably E. flaberrima Benth - but now I doubt - Indeed it does not suit the description of that species - nor of any other, exactly. I send you a proof of my plate for your opinion. Do look at the matter

Very thanks to you for the 100 copies of Mr. Lee's book. It is
just what I need. The 100 copies will remunerate you.

at Montreal last August: a little
thought how soon they would have spent.

You are probably right about Boeckmann's
opiate. I had noticed the strong re-
semblance of our plant to that species.
- but the description of the leaves by
Chouy did not agree - if there were
some other points of difference -
Coulter's plant - so far as the fruit
goes - must be the same as ours

We have some cold weather
now - & are likely to get a
little ice. How is it with
you?

Give my love to James - How
I would like to be with you for
a week! - But I must stay here

- till the spring opens -
Yours every
John Torrey

New York, Feb. 17th 1858

Dear Doctor -

I cannot tell why Bigelow
does not write to me. I urged him
to say how many copies - exactly - he
would spare of the Bot. Whipple - if
the plates are all at my house
& I cannot select them till he
arrives me. Of course you will
not pay for the plates without the
moment he arrives

was sent to Washington. I supposed
that we were to have in the whole
report - so that I did not put
your name after *Trax. ~~four~~ pistaciae*
folia - & when you inserted upon all
of the Report being called mine except
the few families worked up by ~~you~~
exclusively. I neglected to make
the alteration. However it does
not amount to much - for you
admit that it is the same species as
my *T. velutina*, Smay's Rep.

Madge is gaining now & was in the
parlour the whole evening night before last.
She is trying to get ready for the wedding
of her cousin Jane Robert; - which is
to take place next week.

Buckley has been in town for
about a week. The poor fellow
lost his wife a month ago, & is
very sad. He has broken up house
keeping & means to travel for some
time as a relief to his feelings. As
soon as the weather moderates he
will start for the Mts. of N. Carol.
& collect living plants for the botanists
of Flushing. They will defray his
expenses. -

-Lizzy writes to me that he has will
lose his partner soon. She is sinking
with ovarian dropsy. I saw them both

New York, March 20th 1858

Dear Doctor -

Your letter (without date) was received this morning. I had already heard that the St. Whipple had been sent to you. I am ready to do what you wish in regard to them.

I ought to tell you, perhaps, that I had been poisoned with Osmic Acid. Just three weeks ago I was severely attacked - having been operating on a large quantity of Iridosmium (3 grs!) The symptoms were very troublesome - resembling those of severe bronchitis. I lost

my appetite & few thin. Now I am
in good spirits. & most of the unplea-
sant symptoms have disappeared.

I will write no more to-day, as I
must attend to some necessary busi-
ness up town -

Yours ever -
S. T. Soney

Give my love to Jane, & tell
her how happy we shall be to
see her here - or at our Crossnest -
when we go to the country. The
girls often speak of her. I say
how very seldom she has been
in our house. I know it is more
pleasant for her to visit Beverly
in the warm season - but she would,
I think, like to be a few days at
mountain home. Eliza will urge
her to do so in her next letter.

If Wright is with you still present
my kind regards to him. Elton
must have left you some time
ago

Yours ever
J. Ledy.

New York, April 19th 1858

Dear Doctor - Your welcome -
but too short letter was on my table
when I reached the office this morning
First box for Engelmann left here
on the 14th inst (I think it was) -
there was no packet on the front.
I had the ^{box} nicely packed here, & good
Mr. Chamber attended to the ship-
ment.

I should like to get a copy of
Lindley's new Monog. of Prehacae
- but I fear he will find among
my duplicates of that family, not
many that he wants. I will
see what I can muster - & if
they seem to be worth his accept
-ance

I will venture to send them
to your care. What is the
price of the work, if I can get
it only by purchase?

As to my Flora of the State of N.Y.
I have but a single copy, & I
know not how to get another. Perhaps,
however, I may be ^{able} to get me that
belongs to my set of which I did not
get from Albany with the other volumes
- having obtained them from another
source

Did you ever examine the Tragio like
shrub contained in all the Texan Collections
- of which Scheele (in Linnæus) has
called Tyria myricifolia? I have no
description of that genus; for the Supplement
part of Rudbeck's Atta (as I suppose) contains

He came ~~was~~ to New York & I
treated him very roughly - so that
he will never honor me with another
call. I told him it was great
presumption for him to give
any opinion in a matter of which
he had no knowledge, - & that he
was more at home among the ropes
on the deck of a ship. He
would not pay the bill without
the deduction, & I made up
the deficiency - as I told him
from the beginning was the
only alternative -

Will you go to the Baltimore
meeting? I hope to be there
two or three days.

It, I have never been able to replace
since I spared my copy for Wright, & after
Lindley, in his list of genera has
a *Tyria* kl. among (I think) *Vacciniae*.
I have been reversing *Euphrobieae*. I
would be glad to receive any information
you can give me relative to this genus.

I have had some unpleasant correspon-
dence of one interview with Wilkes -
I wish nothing more to do with him.
When Hochstein made those 6 drawings
in your study, (two or three of them while
I was in Cambridge) you fixed the
price - at \$20 each. The bill was
at length paid by Wilkes. Understand-
ing that such was the price, (for
his plates - with as much work on
them as those I contained). I engaged
Hochstein to come on here & make the

remaining drawings. When I
sent on six or seven in a batch
he insisted that the amount of
work on them was not half of what
the others contained, & he took the
liberty of cutting down the price of
some, 25 per cent, & of the remainder
50 percent. I assured him that
the work was greater than in the
first 6, & the time occupied in
making the drawings I knew to
be such that the charge was
reasonable. He said the
"Committee" would never agree to
pay the original bill & I
protesting that it was a real
contract to pay \$20 for each drawing

New York, May 17th 1858.

Dear Doctor -

Your of 5-13th inst. reached me on Saturday. Thanks for the information it contains about Fungi. The cases you mention seem to differ & of less interest than the one I described to you last winter. The fungi that you notice grow on the bedding or bandages of the patients, & they are of a common genus. The fungus that I described grows out of the diseased limb itself, & is of a higher order than Coprinus. I told you, if I mistake not, that it seems to be closely allied to Agaric. I sent a particular account of it to Curtis & asked his opinion about it - but have received no answer. The specimen is still in Dr. Clark's possession - but he has not

yet obtained permission to part with it.
I hope yet to send it to Curtis. There
is a daggered apple figure of it here - & I
am waiting to receive a colored picture
of the fungus - taken in situ.

I have published no name of that long
bedicelled Salix that so much resembles
S. nigra. At any rate I don't remember
of its being in any of my reports.

Ackerman the lithographer
has sent me his bill for the
plates of Whipple's Report (including
Cactaceae) & for those of the
other Reports. As he seems to
be in a tight place (no govern-
ment work having come in for
some months past) he wishes me
to pay him. The whole amount

is about 150 dollars. If you have
friends of Engelmann. I would
be glad to be paid for his
Cactaceae. I think there were
50 sets (24 each) - at \$1.43 pr. 100.
= \$17.16.

I forget how many of Whipple, Pope
& Beckwith you had, whether 50 sets
or more -

The bill for the letter press has
never been sent.

I hope you have pleasure winter
in Cambridge than we have had here
for the last month. It rains more
a day almost every day -

kindest regards to Mrs Gray. Remember
me to Wm if he is still with you.
- We are all about as usual at home

Your ever
J. Torrey

New York, May 18th 1855

Dear Doctor -

I wrote to you yesterday
I forgot to say that Rochester is de-
sires of knowing whether there draw-
ings for the New Engl. Exped. are
certainly resolved on - He wishes
to do them here, & to have me dis-
persed them - but I would not
for several seasons - It takes much
of my time - for he knows so little of
structural botany (I will not try
to learn more) that I am continually
obliged to give him lectures in the
alphabet of the science. He makes,
in the end, very good pictures - but
only after a deal of showing on my part.

Then I have out the faculty, as you
have, of working with other persons
around me. Hochstein is a right
good fellow, but he is apt to talk
& tell long yarns. You have a way
of cutting such people off without
offending them - while I submit, I am
annoyed. H. comes rather too early
to my study - & then takes much
of the time that I need for my private
studies, to show him what he could
easily learn by a little pains.
Very often he needs a figure of some
plant talked to the one he is drawing
- as a guide - & I can not readily
find the examples. You know that
my library is very deficient in illu-
strated bot-works. H. seems desiring

of staying in New York, under the
impression that he will here be in
the way of obtaining employment in
his profession. I can not, however,
learn, that as yet, he has derived
much advantage from his residence
here. He has, however, formed some
pleasant acquaintances & so may
be glad to remain where he is. Still
he will go to Cambridge if he can
work better there. He might remain
long enough to get his sketches there
& afterwards make the regular draw-
ings in New York or elsewhere.
Please write to him, & advise
him to come on -

Yours ever -
J. Torrey

New York, June 3rd 1858.

My dear friend - I will refer
a sheet that contains some mem. prepared for
you some time ago - Please answer me
of the questions as will not take up too much
of your time.

I have paid Ackerman the lithographer
- I am uncertain as to the number of copies
of Pope & Whipples plates that I sent to
you. I have packed up, & will send to you
this week, the other 50 copies of Cactaceae
that you wished for Engelman. I must
have sent you more than 50 sets of Beckwith
& Pops plants. There were 200 sets of the
latter printed, & 150 of the former. You can
probably tell what number I sent you.
- You remember there are 10 plates in each of
these reports. Of plates other than Cacta-
ceae there are 25 in Whipples' Rep. - Whether
I sent you 50 or 75 I cannot tell, as I
find no memorandums - but I may be able

to tell by what I have left & what have
been distributed (of which I have a list)
Whatever the number of plates received,
by your way be it is easy to see what
they come to at the price he now puts them
at. The amount of his bill is the same as
I stated to you - but he gives these details.

"Printing . at 62½ cents per hundred.

Paper \$14 per ream. "

The remainder of 480 sheets - at 4 plates for each
sheet, will make 1920. 4 to impressions
- which, for 100, will be nearly 70½ cents - =
to \$32 $\frac{3}{4}$ say - for 100 ~~printed~~ impressions

Yours ever -
J. Torrey

Determining the genus is now the first to conduct a species belongs? Tharner says you have studied them - a intruded to do so. Can you send me the name of the family of the genus?

Hochstein has gone to spend some weeks at Orange, in N. Jersey, where he will teach drawing to the children of several wealthy gentlemen, & occupy himself likewise in doing a few jobs - after which I suppose he will go to Cambridge. He will, however, not make a botanical artist - for he esteems our work mere drudgery, & not worth his attention, except as a temporary means of support. He will not study enough of Botany to understand the laws of structure, & so makes a great deal of work for those years who employ him.

I suppose they will soon commence the printing of Mex. Insect. Botany. I have kept the Msp. - & have worked on it since a leaf every day - because there are always doubtful things to be settled. The Acetabularia have troubled me more than any other family. There are about 8 of them left undetermined. Near description of Decapoda are very unsatisfactory. In some cases I can not

Wedge of Pig is an ill at Punctum - impurity early - I hope they will be some like every June is at Mexico getting ready on better than. They will fall for a some time last week. I spent two or three days at New Haven last week, & was delighted with my visit. I returned to Cambridge for Cambridge College. I remain your servant to me. I spent two or three days at New Haven last week, & was delighted with my visit. I returned to Cambridge for Cambridge College. I remain your servant to me.

New York, June 12th 1838

My dear friend.

I find that a letter that I wrote to you some time a week ago has never been sent. It was laid aside for some address - of overlooked. In the mean time I have recd yours of the 10th inst. My time has been much taken up for the week past - & I have also been at Sweden's preparing for the sojourn there.

I made a mistake about the no. of Cactaceae plates laid aside for Engelmann. It was he, & not Bigelow who was to save the 100 copies. That is all correct.

Yours very truly
John E. Gray
Dear wife of
William
Gray
J. Gray

now. I have been waiting to
send you the 50 remaining sets, till
I selected some other things for
you. As to those plates of Blake
& Aubriell's Repts. I don't mean
to let you pay for any unless I
learn that some extra copies of
the letter press can be obtained
from the public printer. I will,
in case that none of the letters can
be had, give you as many of
the plates as you desire.

- I will just remind you, that
the sets of Coelocera consist of 24
plates each - so that Engelmann has
2,400 impressions -

The sets of Bot. Whipple contain
25 each - which you must multiply

by as many as you received on your
own account - I cannot tell whether
the no. was 50 or 75. If you had
only the former no. I will make
up to 75. I will send the remain-
ing sets.

The sets of Pope & Beckwith
were 10 each. Of these I
sent many for you to distribute
on my account - you must
not charge yourself with these.

Thurber has the amount of what
I owe you - if you have probably
a minute list - which will be
deducted from your indebtedness.

The algae I believe were transferred
to Buckley - who seemed very desirous
of owning them, & expressed sur-
prise that they had not been sent to him.

New York, July 27th 1858.

Dear Doctor - I have been looking
carefully over the *Enoplon*. of H. Engelmann
but have not obtained at the satisfaction
that I desired. - The fact is that the whole
genus needs another revision of the demar-
cation of several species, as well
as the subdivision of some old ones, - or rather
the elevation of varieties to species. I am
not prepared to do this now, but, if I had
Hooker's set, - or the more doubtful ones -
with my large collection, I could put
them in better order than Bartholomew
left them. I think you are
right, respecting *E. graphaloides*, &
E. pauciflorum - which were quite new
to my herb^{um}. In my specimen of the
former, some of the bracts are longer than
the heads. It is *E. pauciflorum* that I
thought might be a n. sp. - for wh. I proposed
the name of *E. hymenothecum*.

The yellow-flowered Eriog. with narrow leaves is just what I named (without describing) *E. Fremonti* in *Trans. Bot. Rep.* I put it into the cover with *E. effusum* - of it was papered by Bentham for a form of that species. I send a character - which will, perhaps, distinguish it from all the forms of *E. effus.* It is not *E. effus. var. romanian.* *oides*, Bth.

I have probably transposed the labels of *E. laevis* & *E. graphalodes*.

The Eriog. that you sent a bit of in a letter some time ago, is just what was called *E. effus. var. foliosum* in *Becker's Rep.* It will probably prove to be a distinct species.

I long to hear more about that *Ronson's* plant from Alabama!! Where will you publish it? A new *Sedum* too! - but that is not so strange. There are some very choice botanical spots (badly regions) in Alabama

Mr. A. Campbell, who has charge of the Mex. Bound. Report, is at Providence, & will return to Washington in a week. He will then take of pay for his work, when I shall remit you \$500 according to agreement. The printing will commence about the middle of August.

I will try & have the *West* returned to that you can see it in *probenis*, at least, before Mr. Tomken cuts it up.

I return a lot of letters that have been kept too long

Yours ever -
J. Torrey

their var. with α . The genus *Scleropus*
Schrad. is founded on an abnormal state of
Amblygonia Pogg. I have both genera on
one specimen!

Schott writes to me that ^{he} lost his best
collections on the Akate, owing to the bad
arrangement of the officers. In their dis-
putes as to whether ^{the} naval or the milita-
ry should take precedence, the means
of subsistence & transportation were not
provided, & there was much loss of suffering.
Nevertheless some plants were collected on
the return of the expedi- of which I
shall have a full set very soon. Very
likely there will not be many new things
among them. N. Granada has been
pretty well explored.

Yours ever -
John Torrey

P.S. The volumes of the Pacif. R. R. Report can be purchased
here for \$2.50 each. One of them is nearly filled
with Bot. Whittle - including Cact. & plants - Railroads,
Wishes, Bishop's papers & notes &c. I shall
purchase 2 or 3 copies for parents.

New York, July 29th 1858.

Dear friend -
your letter of the 27th was
received this morning & must have
crossed mine - The cost of the
50 additional sets of Cactaceae, sent to
Bipelow, is \$14.94 which Thurber
will pay me some time.

I am pained to hear of the Mr. Gilroy,
lost. It will be felt severely by all the
Hooker family. Poor old Dawson Turner
must have outlived his usefulness by
many years. I hope he became
a truly christian man before he ended
his probation - for I am told that his
earlier days were very exceptionable -
So Bonpland has gone at last - after having
been announced at dead once or twice
before! He seems to have done but
little for Botany after returning to
America - but he drew his pension to the last.

I am glad that you ^{have} Dupre's copy of R. Br.
Bodr. - but I wonder that Victoria letters
go out of France -

If I can get off next week I will try
to run to Cambridge - but I am not sure
yet. - Good news that about the Con-
servatory - but I regret that the superinten-
ding of it will prevent you & Jane from
taking the expected trip to Montreal. Our
girls would be so glad to see you both
at our Palisades retreat. - Well - we
shall hope to see you before we return
to the city. - Would I go to Cambridge
- you may be sure the children will not
annoy me. Very likely I shall be with
them, as much as ~~possible~~ with you in
the study.

Thurber - long ago, took out a copy of
Cactaceae plates for you. Have you
the volume of Pacific R.R. Report containing
W. Whipple? I received the whole work
lately - after many fruitless attempts.

I suppose we must be contented
with 100 extra copies (in all) of
Mex. Botany. There are 60 plates.
- of these cost no trifle - Perhaps
Thurber may, with a dozen copies or
so. I shall try to get several
copies of the whole volume - or even
of both volumes - Emory will surely give
me more than one - & I may get others
from members of Congress. Congress
voted none for the Dept. of the Interior!

Do you know whether Engelmann will
remain here a few days before going west?
I shall be delighted to see him - I'm
about a week he ought to be here

Will you send me a character for
Mimosa Berlandieri? Schott found it on the
Llanos Rio Grande

"As to Wright's No. 582 (partly)" I have it now
but it is very likely the same as a plant
of Schott, which I have called (Mex. Bound Bot.) Ser-
silia Berlandieri var. fimbriata. I have
specimens of a *Sarothra* from Sonora - which I must

July 30th

1857?

How did Booth publish so costly a volume? Surely he did not expect to sell fifty copies! He makes more species than you or I would - but his descriptions of plates will always be valuable, & will be quoted & regarded as high authority while Botany is cultivated - I am very glad to learn from Dewey, (in a letter received to-day) that he, too, has received a copy of this splendid work.

I did not thank you for those nice plants of Harvey, & Vogel. It is a pity, however, that they were neither named nor numbered. The opuscula, too, were very acceptable. I do seldom care to make any return in kind, but I am half ashamed to take so much from you.

July 31.

What is to be done with your Botk
Report, prepared for Stevens? A fortnight
ago, Dr. J. Cooper left the 6 drawings
of Sprague - in my hands. I had
inquired in vain for these, many
times - but no one in Washington
could tell where they were. Cooper
found them, I think, he said in the
office of the Supr. Public Printing.

Mr. Campbell (in charge Pacific
Wagon Roads & Mex. Bound. Publicity)
says there will be nothing more
printed for the Rail R. Surveys.
Perhaps Henry would be glad of
your article for the Smith. Contrib.

Have you my rough list of
Cooper. Mex. Bound.? I shall need
it soon in sending the names of the

plants to those who have received sets.

Shumler is now in full correspondence
with Col. Munro. ~~However~~ The
gallant fire-eater seems to be really at
home in the paper - but he
must labor under great disadvantages,
for want of books & collections, in
studying them at his present quarters.

Yours, ever
Geo. Torrey

New York, Oct. 25 1858.

Dear Doctor -

Harkness has not returned yet -
- but I expect him in a day or two -
I hope called on you for I wish you
to have to know his wife. I think
they will be happy. - 'Eliza received a
letter from Harkness, dad (I believe) last
Friday. He hoped to be in Cambridge
the next day or on Monday. - I shall
miss him greatly - but we shall, I trust,
meet very often - & then I have gained
a daughter!

Newberry writes to me (20th inst.)
that he has returned to Washington
& is packing up his plants. They
will go to you first - & after you
have taken out what you wish to
describe, I am to select some of my
pet. - Of course you will turn over
to me most of the Apetalae, & perhaps,
the greater part of the Endogues -

Rugelmann will take Cactaceae, Euphorbia-
ceae, Cucurbitae, & whatever else he may
fancy. Thurber will take the grasses.
No one is to get any treasure paper!
I suppose that Newberry will do this
free, himself. We must, at least,
have sets of the plants.

In my last I did not thank you for
the nice & very acceptable ~~plants~~ ^{plants} Australi-
an plants, sent by Thurber. I shall
soon have a good parcel for Müller

To day I recd. from Dr. Satare, a
collection of African Ferns - mostly named

A Mr. Smith from Japan brought
to this office a small box of Orchidaceae
which I will send to you by an
early opportunity. He expected
a parcel of plants from you

Yours - ever
J. Torrey

well with either, nor with any genus of
Bursaceae. The plant does not appear
to be decanted - Schott says it is a small
tree "with a clumsy stem spreading from near
the ground" It was seen only in one place
The leaves give out a strong but not dis-
agreeable odor when handled. Pray
look at it again It got overlooked &
is was omitted in Mex. B. Rep.

Oct. 29th. The Supt. of the Army
Office has withdrawn his sentence against
Sherber of Co. probably in consequence
of a letter from me this morning, informing
him that a very large amount of work
was on hand & I must stop if deprived
of my assistants. He may cool down after
the election - but their selection is very
precarious -

Give my love to Jane -

Your ever
I. S. Conroy

New York, October 28th
1858.

My dear friend -

Many thanks for you & dear Jane's
kindness my Hastings & his Maggie. They
were delighted with their visit to Cam-
bridge. I visited them at their room,
this evening & found them very pleasantly
settled. Their friends have set them up
with all that they need. My joy at
seeing them so happy, is however mixed
with sadness at what occurred in my
office to-day. Our Superintendent is,
as you know, a thorough going politician
Some two years ago he picked a quarrel
with Sherber & Schuller, because he
had been informed they were not hostile
to Fremont. He told me to dismiss them
& get other assistants - which I refused
to do. By dint of hard fighting they

were kept in their places, & until lately, I feared no more trouble. The approaching election has, however, stirred up the wickedest party feeling. To-day the Supt. sent a young clerk who epistled them, with a verbal message to Thurston, Schuller & Martin, my three sub-publisher agents, informing them that they must contribute each two days pay to the Democratic Committee. They consulted me - but I told them it was a matter they must determine for themselves. In a few minutes they concluded not to submit to the indignity - but sent a respectful answer to the Supt. He promptly informed them that after this week they would be dismissed! What do you think of this! I may be called on next - & you know what will be my answer. But I can't love my place only by the action of the President. They would have got rid of me long ago if they had dared. With such men as now govern us, there is nothing to be gained

by remonstrance. It only makes them more bitter. My chief agent, & Mr Kent the editor of Refiner, as well as his agent will never pay one cent for election purposes - that is - by Congressional. A gold steamer arrived this afternoon, & there will ~~only~~ be Mr. Mason to repay all the precious metal. I mean to work with my own hands. You will probably soon hear of this affair from other quarters. There will be a chance of something like the great California Mint loan (\$250,000!) if the places of my young men are filled up with prof-shod politicians of City Hall & sundry. - How I long to get away from Wall St. - & yet I know not how I could support my family if I were to go. Enough of this.

Do you remember a plant of Schott's from Sierra Leone, Liberia, that I sent you some months ago. You thought it was near Bursera or Icica. It don't agree

are sharp of numerous - They
will make out a sharp case
in my favor - I can only
place myself in the hands of
the kind Providence who has brought
me through so many trials.

Buckley is here & will leave
for Cambridge this afternoon
He will tell you of a proposition
made to him to prepare a
volume supplementary to Weston's

of Nuttall on an Exact Dec.
Give my love to your dear
Jane - I know that I have
been sympathy in my troubles.

Ever truly
John Torrey

New York, Nov. 17th 1858

Dear Doctor.

Your letter of the 7th has re-
mained too long unanswered: but I
have been so much troubled by the
state of affairs in the Army Office that
I have not felt like doing anything

I think it was after my last to you
that Thurber was formally dismissed - but
perhaps not. He & two others of my army
were verbally discharged, but I
was subsequently informed that they would
know when they were actually to leave by
receiving a written notice to that effect

About a week after Thurber was sent
off (the other two are not decapitated
yet) - a young man was sent to take

his place. He was an assistant of Gibbs -
an excellent chemist - but I informed
him that under the circumstances I
could not admit him to my friendship
& confidence, I must consider him as
an intruder. Accordingly I only gave
him some simple work to do, & declined
giving him any instruction. All the
other gentlemen were civil in bidding
him good morning when he arrived - but
there was not a word spoken in the
office all day long! All the books were
taken to my front office - I have Mrs. Mason
(my chief assistant, who was appointed at
Washington) & myself work up all the
results of talk about business. We were
determined that the new incumbent should
not learn the ways of the office & then

instruct others who might replace
Schultz & Martin.

Dear Mr. - There my dear
doctor - I wrote so far &
stopped - Ever since I have been
combating an unscrupulous, bitter
& unfeeling enemy - All I have
done to provoke him is to reason
- strike mildly against his med-
dling with our business. He is an-
-gry that I will not submit without
complaining, to his execrable tyranny
Henry is fighting nobly for me
Burkworth has misrepresented me
in Journal the Sect. Cobb - & I
went on to tell my own story -
Next he wrote to the President -
- & I got wind of it - and am
concerning activity. My friend

of these days he may return to
the Agency Office

How I should like to have spent
the holidays with you! As usual,
I suppose, the dear children had
a good time in your study.

I hope you will remember me
most kindly to Mr & Mrs. Long
& to Mr & Mrs Jackson, as well as
the other members of that pleasant
circle with whom I have spent
happy hours in Boston & Cambridge.

We are all in our usual
health at No 9 B. I never told
them of all the danger I was in
- & they are so hopeful that what
I did tell them, caused but little
apprehension. I have, however, had
a very narrow escape. Much love
to your dear child Ever yours
S. Torrey

New York, Dec. 29th
1858.

My dear friend

The Symplocos that you
want is not in my herbarium -
I had supposed it was there - but
it seems I was mistaken. Do you
remember seeing me have it?
Much do I regret that I cannot send
it to you.

To day I received the letter for Thur-
day (which will be delayed to him
immediately) - of the two Chenopods.
- The letter I will examine when I
go home

In some days past there has been
no movement against me. Of which
I have any knowledge. There has
been a great deal done by numerous

influential Democrats, to prevent my being removed. I am glad that it was done without any request from me.

The Superintendent himself has found that he has gone far enough in the matter. I had a long talk with him two days ago, & he professed strong regard for me, & entire confidence in me as a man of science & a man of truth. He will (I think) stop all action against me, but he may yet remove my other two non-councilman assistants. About a week

ago he appointed a very inefficient old fellow in Thurber's place. This I am glad of - since T. has no hope ^{of being reinstated} _{of being reinstated}. Another assistant could not well be removed until the

new one leaves the Bureau - which will not happen (should he live so long) till about the close of the millennium. I have concluded not

to revisit this appointment - but to treat the man civilly - & let the others do the work. So, upon the whole, I feel much better now than I have felt for nearly two months past. I have thought of you & done very much - but did not write - until I could tell you that there something hopeful ^{in their care} _{in their care} - & in regard to my remaining assistants.

Thurber has a comfortable room in the Cooper Institute & is working hard at his Agricultural Botany. He will be able to pick up something to live on. One

connection with such a miserable
administration as now rules the coun-
try. By the way, the Sept. told
me there was no hope of getting demo-
cratic men of science to fill situations
of importance - for he only knew but
of three such men - Baché, Henry &
McCulloch! - All the others, he said were
whigs. He is mistaken about one
of the three!

I will send the parcel of Orchidaceae from
Burlingame, on Monday.

Magnus Eaton called on me this week - & says
that Daniel will make me a visit soon -
I hope he will bring on those *Peluncula* &
Archibium plants that you promised me.
Thurber's address is, Cooper Institute, N.Y.

Now for those *Rizwede* sent with you last letter
to Thurber - one is a form of *Obione ~~argentea~~ argen-
tea* Nutt. The other is *Chenopodium leptophyllum*
Nutt. var. = *C. album* var. *leptophyllum*, Moq. I
have many roots of the former - & the latter from
Fremont - I have spent the whole day
in visiting old family friends - all well at 96. ^{7th} ^{St. Louis}

New York, Jan'y 1st, 1859!

My dear friend -

I have been with you & yours,
in heart to day. Gladly would I have
spent part of the holidays in Cambridge
but I had so much on my mind that
I could have done but little in the way
of work. The business of the
Agray office is patched up after a
fashion. Until about a week ago
I had not called on the Sept. since he
discharged Thurber - because there was
no business that required me to see him &
I was unwilling to encourage him un-
necessarily. On Friday or Saturday of last
week I went to see him on business
& acted as if nothing had happened - &
conversed on some indifferent topics. He
then adverted to the recent occurrence in

The office, & he admitted that there
was no reason why he should be hostile
to me - that his confidence in me, & res-
pect for my character were very great
- He, however, pretended to believe that
I had riveted his authority - & that I &
my assistants regarded ourselves as quite
independent of him. - He could give
not the least reason for such belief. I told
you that he had put a second man
in Thurber's place (the first being resigned,
a few days after his appointment). This per-
son knows nothing of the business, & near-
ly can leave. He is a broken down apothecary
who attended my lectures in 1829^{or 30} - so that
he must be about 50 yrs old. - The
Supt. said that as soon as this man
learned the business of apothecary, he would
turn out Schultz & put a man in
his place - & when this ~~one~~ one
was a good apothecary, he would replace
my other assistant - Martin!

My 1st assist. - Mason - is a consumptive
officer, like myself, & can be removed, only
by the President. - If Schultz don't go
still Thurber's successor is an expert apothecary
he will remain a long time - So here I
let matters rest. Schultz has a pretty
long experience & Martin a still longer
one. Three days ago Butterworth told
me he would write to Secty Cobb &
told him that the difficulties at the Agency
Office, between the Supt. & myself, were
settled! - I have made up my
mind not to interfere any more in regard
to my assistants: & to take what each
man is signed to me - throwing all
the blame of my failure, for want of
competent aid, on the head of the Office.
This I told him must be done, of course,
& he expressed himself willing to bear
the responsibility. This whole affair
has produced in me the most intense dis-
- just, ~~with the~~ & a strong desire to quit all

Aug. 11. The weather is rapidly milder 15-20 deg. Thermom. 10.4. I am just going to see
 Dr. Elliot (Shrewsbury & Spentbury). He has been ailing for weeks, & Dr. Elliot has said that his
 fully organized the heart. He will probably not and from his bed - of my side at any moment. He has said for me, & I go
 to both with
 him about
 his general
 interest -
 May God be
 many on his
 your affs
 S. Barry

New York, Jan 10th 1859

My dear friend

Yours of the 7th. was received to-day
 How I would rejoice to be with you this
 week - to hear your paper at Mr. Long's!
 - but I cannot leave here just now. The
 storm has too recently lulled - (not passed
 entirely over) for me to be absent from
 my post. I am trying to make things
 work favorably for my other two experiments -
 - but, the prospects are not very favorable as
 to their remaining. In two or three weeks
 I hope to get off & make you a short visit.
 Besides I must endeavor to pick up two
 or three little jobs of analysis - to defray
 travelling expenses. In a quiet way I
 do such things - of sometimes 10 or 20 dollars
 for charity & the girls.
 Those "sweets" were from Maggie. - I
 hardly thought they were written Jane's acceptance

even in your language! The Terms are
 get us to be printed - all the rest is done.
 Tucker is working very hard. His
 Agricultural Botany on the basis of Darwin's
 text is passing rapidly through the press.
 I will jot his memory about those
 papers.

We are having awful cold weather here.
 This morning the thermometer was
 1° below 0. This evening (10 o'clock)
 it is still very sharp out of doors - but
 pleasant enough in my study. I'd
 I tell you that I have two pet Monkeys.
 Mrs. Corning brought them out from Para. One
 of them I had at Sweden's - the other I have
 had but two months. The latter is really a Para
 or a monkey - which was brought down the
 Amazon. They are quite different in their manners.
 The Brazilian is a gentleman - the other is a
 vulgar democrat. I have much amusement
 with them. Their fine large wire cage (cost me
 \$15!) is just within reach of my seat in the study.

- but as they had been waiting two or three months for a chance, she concluded to send them. I deeply regret to learn that dear Jane is not strong. Quinine is the best thing for her. She wears herself out in serving others. Those long cold walks about Cambridge are too much for her.

Don't give yourself any trouble about those bundles of plants. Let them come when it is most convenient to you.

What will you do with your paper on Japan Botany? Publish it in the proceedings or transactions of the Academy. I promise myself much pleasure in reading it. Of course you will get some extra copies - I shall have one of them.

I made notes about three three plants of Hayden, (which you sent in your letter) which you will find on the other side.

Mem. for Dr. Gray - Plants from Dr. Hayden
Monolepis cheimipodoides - must be the small-leaved form noticed by Ravenel in Dr. Hook.
"*Eragrostis graphaloides*" like my only other specimen (from Beckwith, Ill.) except that the leaves are not so densely white-tomentose on both sides.
"*E. umbellata*" you must be right about this. You say that I named a tall form of this in your Herb. "*E. flavum-p. crassifolium*" - I find whose collection was the specimen this named?

That Californian Coll. of Plants from Prof. Telford is not so extensive as the size of the binding might lead you to suppose - There is abundance of paper - but comparatively few specimens. I told Baird he ought to consolidate the parcels & leave out the superfluous paper.

I will try & get you a set of the Mex. B. Bot. sheets - but if they cannot be had I will let you have mine to look over for errata - that I may propose a list of them to be printed. I see a few-

New York, Sept 24th.
1839

Dear Doctor -

I have just rec^d a letter
from Newberry, informing me
that Dr. Joes hopes to present
his Report to Congress by the middle
of Feby. - in order to obtain au-
thority to print - if he asks whether
I can forward my portion of the
Botanical matter by that time.
Now I have never seen the
collections - & of course, am unable
to comply with his request -
If you send them on at once
I may do something with them

You probably expected that I would go to Cambridge & look over them there. This I should have liked exceedingly - but the Army Office kindly detained me. The opposition some has ceased - but I will delay making you a visit till a certain case of poisoning is tried.

I wish to absent myself from the city at that time - as my evidence would probably be adverse to that of a brother chemist - & I have been informed that I will doubtless be called on to testify.

I have not worked at Botany much for several weeks past.

Some of my spare time has been taken up with chemical investigations, which have brought me a few coppers. I wished to keep my hand in, that I might have something to fall back on, when I was in danger of losing my place. You heard that it is hard to make a living out of Botany alone.

We are all pretty bright & - 90 St Mark's Place. I hope that your dear food Jane is improving in strength. I shall be greatly pleased to spend a few days with you - as soon as that trial is announced.

Yours ever
J. J. Torrey

U.S. Army Office
Feb 2nd 1857.

My dear friend.

Your friend - 30th came to
hand this morning - & a moment
ago the missing parcel was brought
to the office! I began to fear that
it was lost.

If you have any super. & n. sp.
of Mex. Bound. Plants pray set
Kochstein at work. I really am
undecided what to choose - but
I will endeavor to send him
something on Monday

Kochstein has been absent for
about a week. He has made
up the amount of about 15 reams
of herb. paper for himself & friends
I have a pretty good stock left

yet, but would like say 5 years
more, as I shall do considerable
going next summer (80.)

You need not send those drawings
just now - wait till three
or four more are done -

Many thanks for the
parcel of herb. paper. It
will be as good as any for
my use -

Thurber has just called
for my letter, & I must
close - Yours ever

J. Torrey

Mem. for Dr Gray.

What is *Chenopodium brysonicum* Kc. Linn. Sp. ed. 1,
which, in ed. 2 was made β . of *C. aristatum*?
Was the species founded on the Siberian, or the
Virginian plant? Of course you know that
C. arist. is *Teloxys* Moq. - I suppose the
Siberian plant is the α of the species. From the
brief description in Sp. Pl. one cannot be sure
that β . belongs to the same genus even. I doubt
whether a *Teloxys* has been found in Virginia -
- but you may have notes on *C. arist.* β . made
when you examined Herb. Linn. I have long
had a *Teloxys* from Gregg's Coll. - but it is a
very diff. species from the Siberian one.
Wright's 1735 is the same. Bazelton collected
it on Hurrah Creek N. Mex. ^{at the copper-mines} } Woodhouse on San-
Francisco Mt. N. Mex. } The species is easily
distinguished by its usually toothed leaves,
- but more certainly by the little horn-like
appendages just below the apex of the calyx segments.
Very probably then is the same as the Mexican
plant noticed by Moquin as seen by Linn in
"h. Lindob."

published an analysis of Tuckahoe
as early as 1819 (Med. Repository) -
& a later examination of it in
Beck's N.Y. Med. & Surg. Journal
(that, I believe, is nearly the title) -
about the year 1827. In the latter
paper I claimed that my ~~particular~~
~~particular~~ of Sclerotin, was
the same as the later Pectine or Pectic
acid. of Braconnet - & we had previously
shown that ~~the~~ nearly the entire plant
consists of this substance. When
was at West Point, I used the Tuckahoe
to make jellies for the table - but they
were not much liked, because I was
not very expert as a confectioner -
We are all in good health at 90. Herbert
is to speak at the Union Exhibition of the
Free Academy, which is to take place next
week in Dr. Bellows' church - Even there
J. Torrey.

New York, Feb. 15th 1859

Dear Doctor Your letter
of the 10th of the parcel of Newberry
Plants were received yesterday. A
week or more ago, I wrote a letter
intending to send it to you when I
had obtained a piece of information that
I desired - but it has been mislaid -
of no matter.

I will do up these plants as
soon as I can - which, I hope, will
be in a few days. You seem to
have found very few new species in
the portion examined by you - So
you had the fruit of *Mesocera longifolia*
& knew it not - & it is a *Scrophulariaceae*!

The collection is, indeed, very scanty.
It seems strange, that when paper
was so abundant, all the sheets were
not better filled.

If possible I will get off for two
or three days, at least, in the begin-
ning of March. I have less
time, now than ever, - as I have been
appointed to Ellet's place, as Consulting
Chemist to the Manhattan Gas Co.
at \$1000 a year. Part of this I
shall give to my assistant, Mr Schultz
(as yet of the Apsay Office) - but I
shall get back ^{the} most of it from the
Apsays & Analyses he will make under
my direction. The large & well ap-
pointed laboratory is placed entirely
at my disposal, with a card Hauska

to purchase whatever I please. The
works will be left to me. I was
prepared to accept it - but held out, in
favor of Schaeffer, till I was told
presumptively unless I accepted at once
they would give it to Prof. Draper.

In the last No. of Proceedings of
Linn Soc. Berkeley alluded to some
statements of the late Prof. Ellet, as to
the chemical constitution of Tuckahoe.
He quotes the Gardner's Chronicle. Will
you have the article copied for me (if not
too long) - or find where Ellet's account was
first published. He could hardly have
forwarded his paper directly to Lindley
Perhaps he communicated ~~them~~ ^{his obs.} to Curtis
who published them in some journal.
Now Ellet knew very well that I

New York, Feb. 23rd 1859.

Dear Doct^r

With the monopet. of Newberry you sent two plants which belong to your pet families - not to mine. One of them I take to be a very young & poor specimen of *Mohavea* - you can judge for yourself. There was no duplicate.

The other seems to be the ghost of some *Scroph.* of which I do not know the normal form. It seems to have grown in a shady wet place. - It may be a queer half developed state of something like *Autrorhizum*. I have poked into it a little - but have not ventured to examine more particularly what does not belong to my special orders. At first I guessed it was a *Veronica* - but it can't be, with such a corolla - You have nothing like it in your Mt. Pl. Nevada. I send you all there is of it.

Feb. 26. I had have not your last letter at hand - but I remember what you said about the *Tuckerm.* - In a few days - when I can consult the books in which my papers were published, I will send you some notes which you can use in making my reclamation. I should like, however, to find out when & where, Elliot made his publication. It will be better for you to make my claim, than for me.

Why did you not quote my good figure of *Eremacrum*
in Pacific R.R. Report? I send you two or three specimens
from my specimens.

Among the plants that you sent for me to study
was one that you probably took for a ~~Labium~~ - I
received the same thing long ago, from Emory, who found
it in the Sonora (1846) - but with neither flowers nor
fruit. You will see a pod on the specimen that I
send. It is a Malvaceous plant - but I know it not.
- Pray look at it.

Do you remember an Agave-looking plant in New-
berry's Collection - with flowers at first upright, looking
like those of an *Aemuloides*? It is the same as one of
Fendler's 1844 Coll. (from specimens) - from *Arborescens*.

I cannot now be sure of the genus. It is herba-
ceous - & has the general look of *Ag. Virginica* - but
very different when closely examined.

March 2nd -

What think you of the Washington Murder?
Our Suft. has got unpleasantly mixed up with it.
We know not yet how he will appear - but the
trial (if trial there will be?) - will make all
plain.

How do you send to Schaller Bip.? What is
the best way to direct letters to him? Von Geibel
(my German Bip. - whom I have had in charge so long)
has written to him three times, without receiving an
answer - & yet they were formerly great friends.

I shall be kept here now till Mr. Burkhardt
returns - If he comes back in two or three days
I will take a run to Cambridge - Love to
Jane - We are all pretty well.

Ever yours
Wm. Torrey

Feb. 23. '99

11

New York, March 10th
1859

Dear Doctor

I fully expected to leave here
for Cambridge the present week -
but to-day I have been informed
that a very important patent
case, in which I am a witness
(having been employed by one
of the parties) comes off certainly
on Monday next. I deeply regret
this - not so much on my own ac-
count - because I can run off
for two or three days at almost
any time - but ~~that~~ we are
all so desirous of seeing you dear
good Jane as soon as possible

She is persuaded that it would do
her good to break off from cares of
house-keeping & spend as much
time with us as she can, without
giving tired face. All of us will
be so glad to have her with us
& we will rather have her our
way). Now if you know of any
one coming this way, who will take
charge of her, let her come on at
once. Or telegraph to me on Friday
(tomorrow) afternoon - & I will start
on Saturday to meet her half
way on the road. After she gets
tired of us I will return with her.

I hardly think it would be right
to make you a visit (even for three
days) while she is so feeble.

The trial, to which I have alluded, will
probably not detain me longer than
Monday. I can go to Cambridge the
next day - but I still think it will
be better for Jane to come on here
first.

Yours ever
John Torrey

New York March
15-1859

Dear Doctor -

I am afraid, from what you say in your last letter that your good wife is very poorly indeed. This makes us all the more anxious that she should come on as soon as possible. Would it not be less fatiguing for her to come by the way of Stonington? I would go for her, at a day's notice, & take the greatest care of her. It is evident that she needs a change of scene & occupation. The girls are very anxious to have her come as once. & they are excellent doctresses of pretties. She knows our ways - & can do just as she pleases. I shall feel uneasy till we have her safe in our house. So let me know the earliest day that she can be ready to come.

We have had delightful weather
most of the time, for ten days past.
Just now it is raining - but the sun
will probably soon clear. I long
to be in the country - & would
gladly spend the year there, ex-
cept the three coldest months. You
know that our railroad is to be
finished this season. Indeed we
are promised the use of it in less than
six weeks. Sweden is looking up
& land is rising there very fast.
There are some rich persons who
contemplate building there this
season. Don't you wish to become
a lot? Harkness has purchased
some acres to sell again. I
think he will make a fair
profit.

Newberry - who wrote me that he
would be in New York about the 2nd
inst. has not reached here yet. Shall
I select for you from his collection
any but the more interesting
plants? - or do you wish dupli-
cates of all that occur in
insufficient quantity?
Give my love to Jane, &
tell her I will certainly go
& bring her here at the
shortest notice

Yours ever
John Torrey

Have you received any of Hays
plants? They are at the Smithsonian
- & will probably take the usual course
- we shall see them in time... New-
berry's plants are some of sent to
Washington. There will be no
pictures in the Bot. Report - as the
money is nearly exhausted. As
there were no pines or Oaks in his
collection, I suppose that Newberry
will work there up himself

Yours ever
Wm. Torrey

New York, March 30th

Dear Doctor -

We shall be happy in-
deed to see you & Jane next
week. The girls say they will
be ready for you at any time.
- so if Wednesday suits you, it
will suit us. Make your arrange-
ments to stay as long as you can
- I mean you yourself for
there is no selling when we will
let Jane go back. We shall
expect you to dinner at about 7 P.M.

To day I opened a small parcel
that contained a few plants from
Mr Geo Gibbs - collected at Puget
Sound. I was much pleased to find

among them what appears to be
a new genus of Monotropae. It
is a dwarf chunky coralloid thing
looking like a stunted *Hypopitys* - but
the anthers are linear & manifestly
2-celled, opening longitudinally. The
filaments are long & strongly beaded
thru whole length. Style longish
Cor. 4-5-fetalled. I have destroyed
two of the few flowers on the specimen
- I will leave the rest till you come
- It is intermediate between *Allotropa*
& *Monotropa* (*Hypopitys*) -

I congratulate you on the
honor conferred on you by the
Stockholm Academy. It is a
great thing to be chosen to fill
the place of such a noble botanist
as Brown.

No news about poor Schaeffer. I
hear that political influence will
probably be used to get in a man
from Connecticut - but no particulars.

Give my love & sympathy to your
good Jane. Tell her we will
do our best to get her well, without
the use of drugs. She shall
have the care of my monkey while
she remains with us. Oh the
dear curcat, what mischief they
did when I went out & forgot to
lock up their cage. She smashed
one ink-stand - upset another, as
well as a quart bottle of ink that
was on the floor - then mixed the
black with pt- of gum - I made
tracks over my table. - I send you
one of them

Tarcodas under the name of
Pteropoda - about the time that
my article was published. When
did his description appear? Not
in the Proceed. Acad Nat. Sc. I
do not find it there - & besides, that
Journal was commenced some time
after my paper was published -

A letter came to the office this
morning from Mrs. G. which I shall
send up when home - as I do not
expect to go home till tomorrow - Wed.
& I am just starting for Sweden -
She looks quite pretty bright - She
sat up rather too late last evening - so
that she felt a little tired - but she is
improving daily. I am glad to hear
that Mr. Loring is slowly mending. Give
him my kind regards - Yours ever
John Torrey

New York, April 21. 1859
My dear friend - The parcel
came safely - & I meant to
have written to you at once - but
was prevented. I copied the
fig. of Anthephora for Engelmann.
- he is right about its being distinct
from the genus that includes
Scleria dactyl. - which is near Chon-
drosium - & therefore Chloridema -

I sent the parcel for Daniel
to his father's office in State St.
On looking at the flowers of your
Keritomes. I find some of the au-
thers 2-celled. Did you not see,
in those I sent you from Gibbs coll.
that the unspeared anthers were decidedly
introse? I think, too, that Sprengel

has made the mistake about the author,
being I called ~~by~~ ^{from} examining them when
old & emptied of pollen - Before
bursting they seem to be so ~~so~~ -
after flowing the walls of the cells
(or rather the broader portions of them)
become evolute - & then are ~~g~~
giving the appearance of one fertile
cell. & a rudimentary one like
a bilamellate keel or ridge - The
bifarious ^{hair} (being in a line (as seems
to me) with the two cells as in my
upper figure. & at right angles with
the cells as represented by Sprague -
seem to confirm my observation.

I return Chapman's letter.
His book will contain a great
many valuable & original obser-
vations - but it must be sadly de-
fective

in references to authors &c. as he
had poor advantages for consulting
books of herbaria -

You are right about Gilia
Gunnisoni - & I shall tell
Newberry to change the name
to *G. Virgate*. But I had
no specimen of Gunnison's plant -
- I sent you the whole set of
the Beckwith Collections - I mean
of the families that you studied.
- & as there were very few du-
plicates - often none at all -
there are some of the plants
not represented in my herbarium.

You say (in Newberry's Rep't.)
that D. Kellogg described the

New York, April 28th
1859.

My dear friend -

Your good Jane left here
for Catskill by the 11 AM. train
yesterday, & we hope she
got safely there by the middle
of the afternoon. - 's had
improved considerably - but I
think it will do her no good
to go so far north. We expect
her back on Saturday Morning
Really we feel lost without her -
You had better come & live here
- I will promise you a good place
in Columbia College - & there
is to be a bot-grad. in Central Park!

Did you see a statement in
the newspapers that an Amer-
ican vessel had arrived in
England from Japan, with a
cargo of "vegetable wax"? A
friend has sent me a small bit
of it, of three of the berries of
the tree that affords it - I
am examining chemically the
wax. The berries seem
to be of an Anacardiaceous
plant - I think, a Schinus
- but I never heard of wax
being found in any plant of
that family. I ex. me
of the berries of your wax

out of the pulp. Pray look
at the two berries that are
left & tell me what you
think of them -

— Yours in haste
John Jaynes

40 St. Marks Place.

May 2nd 1839 -

- Well dear Doctn - your
good Jane is determined to leave
us this morning. She went,
last Wednesday (as you are aware)
to Catskill, & returned early on
Saturday morning. The trip
was a pleasant one to her, but
rather fatiguing - & she has not
yet had time to recover - so that
I can not send her back to
you in so prime a condition,
as if she were to remain a
week or two longer. It seems
~~to~~ a short time that she has
been with us - & we should all

have been glad to have her
visit continued till June, at
least. - But you insist upon
her returning to keep your wed-
ding day - I may God bless
you - I permit you to see
many happy anniversaries -
Mum - of that kind, are ended,
if I mourn still -

Herbert has secured the farm
that he was looking for - & his
Uncle Robert will complete the
bargain this week. I think
the boy will do well - His
taste for rural pursuits is
very strong.

Newberry writes to me that he
will be off for New Mexico in
less than a week - but he
gives no particulars. Hays
thinks he is going to explore,
under the direction of the
Secty. of War, a region in the
N. Eastern part of the Territory
He will find very little new
in our line.

Hays has scarcely any plants
that we want. He was
quite sick a considerable part
of the time, while his party were
travelling - & could not make full
collections. I think he is far
gone in consumption -
Yours ever -
S. J. Torrey

New York, May 20th 1859

My dear friend

I hoped to hear from you to-day
& to learn that your dear Jane arriv-
ed safely - but now I am left in
doubt. Surely I shall find a letter
from you at the Agency Office tomorrow.

Thanks for the note from Shumberg about
Rhus succedaneum. I fear that
our countryman who sent the cargo
of coax to England, will lose by the
adventure - unless he got it from the
Japanese very cheap - which is not very
likely. The substance is mostly
palmitic acid combined with glycerine.
i.e. palmitine. As it melts at about
100° F. it will not do for candles without
the addition of some harder material.
- but it makes good soap - handsome
& translucent. A portion of it refuses

to saponify & this (without a
through examination) I take to be
myricine. It also contains a little
of a body that dissolves in cold
alcohol - & this seems to be ce-
-leline. The palmitine may

be changed into palmitic acid,
in the usual way - but which
will raise its boiling pt. to 146° .

- but it will then cost as much
as stearine or, perhaps, as
much as wax! So it is
doubtful whether we have turned
a penny yet by its commerce
with those shrewd long tails -

Very glad to learn that Mr. Dorring
is picking up - & that your poor
book is likely to get well -

May 5. No letter from you to-day -
but we may have been directed to St. Mark's
Place - This I shall not get till tomorrow
evg. - as I purpose going to Sweden's this afternoon

How shall I complete my set of
Linnæus? The first 23 vols. are all
regit. - But of

No. 24. No. 6 is missing.
25 " 4 " "
26 " 4 " "

27 & 28 are, I believe, complete.

Of vol. 29 (1857) - I have only Nos. 1-3.

None since.

You have several times sent me odd num-
bers that were lacking in my set. May
you not have one or two others besides?

Give my love to Jane, & tell her
how much we hope to hear a good report
of the state of her health. Two weeks
more would have nearly completed her
cure -

Yours ever
J. Torrey

I return Engelmann's & Curtis' letters.
You need make no explanation in
regard to Dr. Ellet. It was his
duty to have told ~~us~~ Curtis where
we obtained his information in re-
gard to the Chemistry of Tuckahoe.

Give my love to Jane - &
tell her she must make us
another visit -

Yours ever

J. Torrey.

New York, June 2nd 1859

My dear friend -

I have this moment received
your package by Express & antici-
pate much pleasure in examining
its contents when I go home. I
shall read your memoir with high
satisfaction - although the one on
Japan Vegetation was shown to me
in proof. Now I shall be able
to examine it leisurely.

How much I have thought of you
since your good wife left us. - &
yet my letters have been very few!

Pray let me know how she is - & what
is the state of Mr. Torrey's health.
We shall go to Sweden's Landing
next week & would be very much
pleased to receive another visit from

have. Another period of rest will
do her substantial good - & I
am sure you will spare her for
such a result. We have made
arrangements this year for supplies
of ice & food, such as we did not
enjoy when you were there last.
Olga & Margaret went yesterday with
their aunt - Mrs Robert, on a trip to
Scranton intending to return on
Saturday. They will, doubtless en-
joy themselves greatly.

I will make up a small parcel
for you soon - Let me know
what you especially wish. Whether
Eriogonae I have, of those that
you desire. Shall be sent - in
my parcel. I know that my
Acauthogonum was related to *Chor-*
oizanthus - ~~which~~ as is also *Mucronata*.

Do you wish some Bahama Id. plants?
My old friend Wm Cooper (you remember
him - of the Lyceum) has lately ret'd.
from a trip to Nassau where he spent
two or three months. He brought
some very nicely preserved specimens, &
will give you a set of them if I
ask him. Who has written on the
History of that Id. since Catechy?
I have two or three living *Tillandsia* from
Nassau - which are at your service.

Engelmann still works on those diaceous
grapes! Why does he coin a new name
for his genus founded on *Lecl. Dactyloides*?
if it be the same as *Calauthera* & *Sariokeia*?

I send you some cards from Dr. Alexan-
der - who, you will see, had made
an addition to his name (a deceased
uncle's) that he might inherit an
estate.

I will return you Mss. of M. Karst.
on Monday. This, I suppose, is early
enough.

I am really glad to hear that Jane
is bearing up so well in the severe
work of housekeeping. Give her much
love - from yours faithfully
J. Torrey

New York, June 30, 1859

Dear Doctor -

I did not know, until your
bundle was fully opened at home, that
it contained a letter of a list of Karst's
plants. The money that I owe
you shall be left at Westerman's but
I could have sent it to you in a letter
(with stamps) -

I have looked over the list, & compared
it with the specimens. There a few
points on which I differ from you, which
I will note.

Chorizanthe (Mucrona) perfoliata is
the same as Muc. Californica of Mac-Bowd.
Bentham examined specimens of the plant
(from Parry's coll.) - & pronounced it M. Calif.
- notwithstanding the greater number of teeth
in the involucre: He had those specimens
before him when he prep'd the Monog. for Dr. Peck
- for he says, in the ~~description~~ generic
character - invol. varies 3-4-dentatum. & quotes
Parry's plant. You say in your sp. char.

"glabella" - when the specimens sent to me
are obviously pubescent. The fig. of Benth
shows the leaves ("bracts") to be connate - & yet,
in the text (Rodr.) he asks if they are connate -
- Oh - - I see, too, he calls them skellato-3-lobis


I have no Douglasian or other specimens
of the plant - (except a young one from Fremont)
for comparison.

Your *Asclepias vestita* is no *Asclepias*
at all, but *Acerates tomentosa*, Mex. B. Rep.
& quite different from Whipple's plant.

Pentstemon tenuifolius is described in
the Mex. B. Rep. p. 115, under the name that
I had long called it in my herbarium. I
inserted a brief diagnosis in your *Vesf.*
- because I found the species had been in-
-advertently omitted. You must have seen
it when you corrected the proofs - but
had forgotten the circumstance -
Your name is better

You have an *Eritrichium* which is new
to me - of another that I received in
Newberry's (Dun-rope.) Collection - which
like yours, is too young for description - but
quite different from any other in my herbar.

Your account of *Neoviscia* pleased me
greatly - of the specimens of the plant
were most acceptable. The genus
is very close to *Spiraea* - some species of
which, have also, evident albumen in
the seeds: of so has *Gillenia*. I send
(fearing you may not have them in
perfection) seeds of *Spiraea multiflora*:
for examination -

Have you ever noticed singular folding
of the cotyledons in *Neuhallia* - a kind of
absolute verruca! as in the sketch - 
I have seen nothing like it in any other
Geraniaceae

Some time ago I was examining the rhizome
of *Anemopsis*. The structure is not unlike
that of *Crocus*... as far as I made it out.
I send you a bit of it

Faint, mostly illegible handwriting on the left page of the document.

New York, June 7th 1859
Dear Boston

Yours of the 4th was recd. this
morning. Very glad to hear of
the improvement of Jane. It is
not strange that working should agree
with her so well - but she must
not take her strength unreasonably.
Glad also to hear of Mrs. Loring's
increasing strength.
The extra copies of Boundary Survey
will be here this week - so I
am assured - but without the plates
some 13 copies of the tables can be
had at once - left out of the Congress
sets - ~~and to be had in quantity~~ -
I shall take them. The table is

getting ~~the~~ others in that I wrote them
taken, not by transfer - but directly
from the original drawing. I expect
these are long

As to an edition of the letter
press it might pay. if we could
greatly improve the work of printed
under our own eye. Some pub-
lisher might undertake it. if copies
of the plates could be taken - &
I suppose that permission could
be obtained for this purpose.

Mr. Campbell writes to me that
the 2nd Vol of the Mea B. can
be purchased in Washington for
\$4 to \$6. which is very cheap.
I can get none for asking - or even buying.
The members of Congress sell them.

I will send Mrs. Bahama Id. plant
soon - probably this week -
Much love to Jane. Tell her
that we shall have the means of driving
her about the country at Sweden's if
she will make us a visit - The
rail road is in regular operation -
& will do great things for Sweden!

Yours ever -
J. Correy -

Dicliptera thlaspioides Nees
= 1465 Wiggins
I take it to be only a var. of
D. resupinata Lefl.

Thunberg No. 427 (Bachmactia
Sonora) is intermediate.

Krynitzkia leiocarpa
young & small.

Rocky mts. Bridges Pass.
H. Engelmann.

You know how glad we shall
all be to see her - if I think
she will derive much benefit from
another visit, of a relief from
domestic cares -

Yours ever
S. Loring

New York, July 14th 1859.

Dear Doctor -

Your of the 12th was on
my table when I came down
from Andover this morning. - I
have no books or specimens here
of so cannot reply to it - you
say about Abies in Quercus Rep.
I will pack up the things for
Dr Candolle when I go home
to-day, & forward them to you
by Express.

I have been looking at your
character of *Arceuthobium* & *Pteridanthus*
- I think you will have to refer
to *A. Pteridanthus*. What is the

distinguish it I know not.
for many true *Potentilla* have
but 20 stamens, as well as similar
leaves. The filaments, of their
mode of insertion is the same - as
is the number of ovaries. &c
P. Hakaria is very much like
the plant you have figured - ex-
cept that it is perennial.
As to the *S. Hakarioides* it may be
a good fern - but it does not
differ much from *Potentilla*.

I have not the last proceedings
of the Amer. Acad. - but I see
by a notice of them in *Sill.*

Journal, that C. T. Jackson
has been examining *Tuckahoe*
Only the title of his paper is
given in the notice. I think it
is. "No starch in *Tuckahoe*!"
Surely he must have determi-
ned something more than this
negative character - & I
wonder what he thought of
the great mass of *Tuckahoe*;
Much I regret to learn that
Jane is poorly. She must
not be tedious if he cured. We
have now a horse & wagon &
can drive her about the coun-
try.

he feels discouraged. He hoped for
some place in the Cooper concern - but
there seems to be nothing that he ^{can} do there.

Only Chemistry of Water Philology will
be taught the first season -

I am now endeavoring to write out
my Report for the Expl. Exped. & I
can not submit it till it is revised
by you. Pray continue to look over
it in portions as I send it to you.

If they pay me - as I am afraid
they will - the \$1,100 still due, you
shall have a share - for this is
a business operation. I must get
the business off my mind - & then I
will take care how I promise any
more work of the kind. It is doubtful
whether I can leave town for two
months to come. Schuller - my agent in
the far north, will probably make a visit
to Europe - & I shall have my hands full.
Give much love to your good dame

I wish she could make us a visit as Sweden the first winter
be delighted to have her - yours ever - J. Long

Aurora, Sept 17 -

New York, Sept. 9th 1859

My dear friend -

I am ashamed that I have
delayed writing to you so long - yet
every day, & many times in a day
have I thought of you. Prof. Henry
gave me an account of his pleasant
visit to Cambridge. I suppose
that he encroached much on your
working hours - but his company
is so profitable, that one can not
say this time is lost that is spent
with him. He went up to
Sweden with me. I was greatly
excited about the Aurora borealis that
occurred the following evening. He
wrote several sheets full of notes

about it. I have showed a
visit from Eaton. He spent a
week on the hill. I remained one
day with him to because of he
enjoyed himself greatly with the
family of some of our visitors
You have probably heard of the
exped. under charge of Mr. Avery
(who was with Lt. Brain) to the Isthmus
of Panama. The government will
send out shortly, a vessel of war
with every appliance for making
a survey for a ship-canal. (an
abund. idea) - I think naturalists
will go out with the party. Dr. Hays
who was on one of the wagon
roads is selected for Botanist.

I have ~~to~~ ~~say~~ that a Zool-
ogist could probably be obtained
at the School of Science in Cambridge
What are you doing just now? Of
course you are as busy as ever
- you can not do more. I am
afraid you overwork yourself.

Poor Shumka is quite discouraged about
getting employment. He has occu-
- pied a fine large room in the Cooper
Institute since he left the Gray
Office - but the Trustees will very
shortly require him to give it up. as
the Institution will ~~use~~ ^{need} it for a
Laboratory. Lectures are to commence
there on the 1st. of November. He
has had some jobs. that have kept
him about there for - but now

of ~~food~~ get some refreshments - So
we purchased cakes, crackers, butter, a
tin part of cups &c. & ate our frugal
meal thankfully under a shady tree near
the college. Some two or three months
ago I did the same at a rail road cele-
bration & saved myself much inconvenience
To be sure, by making great exertions,
the good people of Auburn, did, after
the immense company arrived, obtain
a generous supply of refreshments &
we were all very grateful for them
- but we were surprised that they were
able to do so.

27th Here I was obliged to break off - &
I have, through press of business, delayed
finishing my letter. In the mean
time I have received a very kind
letter from Tuckerman, expressing great
regret that he did not see me & the
ladies. How he missed me I cannot
understand - for I was in a con-
spicuous place - just where he says he

New York, Sept^r 20th 1839.

Dear Doctor -

Your letter of the 16th. came
to hand yesterday. I will
send you some refs of Capt. S. P.
B. & son. I am very glad
you are willing to overhaul
it.

I saw Shubert to-day. He
was sick & downhearted - but
I found on my table after coming
to the office, a letter from Henry
agreeing to our proposition - the
charge for the work not to exceed
\$250. The letter will be in
Shubert's hands this morning.
The Avery party for the Athletes
will sail to-day. It has divided

down to very small proportions -
because no money can be obtained
for the outfit. Avery himself advan-
ced a few dollars & Hayes - who
could not have got off, had not
Thought of Dr Cooper contributed
paper &c. A U.S. vessel is
waiting for the party at Newburgh.
Operations will commence soon
after the steamer from N. York arrives.

Chapman will not be able to
finish the printing of his book
unless he remain all winter
at the North. It is almost a pity
he undertook it. Such a work
would have been allowable forty
or fifty years ago, when our botanists
were obliged to do without libraries

& had no contemporaries or herbaria
to consult: but in these days, it
is likely to do almost as much harm
as good.

Tuckerman could easily have found
me at Amherst if I had been a lecturer
or a Professor. He had only
to look around him, & to be where
his brother professors were & he could
not help have seen me. As to
our little picnic under the tree: it
happened thus. Prof. Hitchcock told
me at Springfield that he expected about
100 persons would probably visit Amherst
- or at the outside - 200. When we
arrived there & the prospect was formed
of more than 500 persons counted, I told
Evans, who was with our party, that
it was evident our friends would be
unable to provide for such a host.
& that we had better stop in the village

The girls of Kerub are all well
One or more of them would like
greatly to spend a week or two
at Cambridge - but they have
some special duties on hand
just now. I have had been
greatly exercised about servants
since we returned from Sweden -
We have our Old Cook! - not one
of which could boil a leg of mutton
properly - & ~~if~~ they all were igno-
-rant of poultry. Eliza is hardly
strong enough to be long from home -
Maggie may be able to leave
home, & I shall urge her to
accept your kind offer - Give
my affectionate remembrances
to your dear Jane, May
you both enjoy many happy
New Year's & ever yours
J. Torrey

New York, Dec^r 31st 1857

Dear Doctor -

Yours of the 28th has
just been delivered. Probably
the card that brought it have
been ~~so~~ overwhelmed
with your deep-bred snows!
I was with you in spirit on
Monday night - for I knew
what a happy gathering was
in your study - I could ima-
-gine how you & Jane were
enjoying the frolics of games
of the young people. I could
have taken a part with them
had I been there. It was,
indeed, my ~~very~~ purpose to spend

the holidays with you but our
force at the Agency Office is,
at present, very small. This
- less place was filled by a
good for nothing politician who
has been sent off - & no sub-
-stitute yet provided. Another
- one of my old set - is very
sick, & has been absent more
than a month. In the mean
time business has increased, & we
have plenty to do.

- Did I not return your copy of
Inertium? Surely I meant
to do so, & supposed it was in
your hands - I will attend
to this matter when I go home
to-day - I will also return you

P. Drough. fasc. I. Keep a look
out for another copy for me

- How I rejoiced to get the name
of that Phytolaccaceus plant that
I stumbled on once so much! I
found it put with that family in
my herb-^{um} with a note in brackets
marks "N. Gen." I put it in Phytolac-

- How did you send me that note?
I neglected to record from whom I re-
ceived it. What is said ^{pt.} about the
plant in the N. Gen. Catalog. of Berland.
that was copied from De Candoles list?
Where has Gurubach noticed
it?

- Many thanks for all the
nice things you have sent me
- Please let me know how much
I owe in your Debt, & I will
remit the amount at once -

I want also Trin. of Ruffr. Sp. gram. Stipac.

I told you that the text of Mex. Bound. Bot. had been received - but not the plates. There have been promised & I hope they will come along one of these days.

Now about that gift of Fœrticia - When you first asked for it, I folded & enclosed it for the mail, & felt sure that it had been sent back, until you called for it again. I have looked repeatedly for it since, & surely it is not in my possession. Will you not search for it in some of your drawers & pigeon-holes?

I compared the specimens in my herb. - after you had studied & labelled them - with your notes, & felt satisfied with what you had done.

Have you ever asked Henry to let you put up the plants of the U.S. Expl. Exped.?

I have urged him to secure the many valuable specimens belonging to this Institution - but if they are left in loose sheets & exposed to insects they will soon be valueless.

A few months ago H. claimed the collections of the Mex. Bound., having received from the Secy of the Interior, an order on me for them. Long ago, however, Maj. Emory obtained permission to distribute them, & they were sent to Hooker. Museum of Nat. Hist. Paris & St. Petersburg. You also got many of them, & I put a set in my own herbarium. There are many duplicates left, & if Henry will have them taken care of, I will see that they are glued down, labelled, & arranged.

Whipple's plants were distributed by permission of the Secy. of War - & there are not more than three hundred of these left - if so many. I have however, some of Aubrey's, Phipps & Drury's left, which

New York, Feb. 29th 1860

Dear Doctor

I sent off your letter to Boissier,
I enclosed the sheet of Mex. B. B. B. containing
Euphorbia - except the portion copied by you.

A little clipping brought the sheet to weight
left than an ounce - so the prepayment
was all right - The remainder of the
copy is reserved to go with your next
parcel to Cambridge -

Was there enough of the *Cyrtolobos*
fruit for you to examine? I wish you
could see the thing for yourself: but I don't
think I could have been mistaken. The only
thing that makes me doubt my own eyes
is that I differ from so careful an observer
as Bentham.

In a day or two I will send to you
the Compositae of the Expl. Exp. - or so many
of them as will suffice for making a satisfac-
tory

Refer to them for my Report. You can
soon work them up.

Did you find out what Agassiz said at the
Soc'y. Nat. Hist? Perhaps he found some
other opportunity, since then, of proclaiming
his views of Darwin's work. That publication
seems destined to make as great a sensation as
Huxley's Crisis.

I return Bairner's letter - Much
Love to Jane.

Yours ever -
John Torrey

Mem.

Centrosama. How is it that we have always
made this genus feminine, when Bentham
from the first, & all other authors have consid-
ered it neuter? Do you differ intentionally
from them - or is it an oversight?

= Where does Mr John B. Ellis live?

= Did you ever compare the Oregon Linnaea
with our Eastern, or with the European plant?
They look unlike, but are probably not distinct
species. I once compared them, & marked the
western one L. occidentalis - but I found the
name "Linnaea longiflora Nutt." in Pechenji's notes.
In none of Nuttall's ~~the~~ papers do I find any
allusion to this species. Pray look at the two
plants. I send a little of the western one
from Herb. Expi-Exped. You will see that the
flowers are larger, the sepals longer & the leaves
more acute, as well as reflex.

You know that Dr. Cooper is going
off on an expedition to the Pacific. He
is to accompany some U.S. troops
from the Missouri across the
R.Mts.

Yours ever -
J. Loring

New York, April 11th 1860.

Dear Doctor -

I have just been to see Mr.
Loring & party at the Fifth Avenue Hotel.
They were all in good spirits & were
preparing to leave for Philadelphia in
the afternoon. You know that we
are to have a visit from your good
sister on the return of the party to New York.
Of course we shall keep ⁱⁿ just as long as
she can be persuaded to stay. We know
that she wishes to be with you on your
wedding day, & hope she will remain
until within ~~24~~ hours of that time.
Mr. Loring is in fine spirits, & fully
believes that he is already much improved
in health.

The bundle of plants for Harvey came
in good time, & is on board the Ship.
- which will not sail until tomorrow.

I deeply regret to learn that Harvey is
in some danger of a relapse. He ought
not to work hard, nor visit London
too often -

You will not have much trouble,
as I hope, with those Expt. Exped. Com-
poules. There are few about which there
is any doubt, & they are all arranged
in regular order.

A few other families ought to be re-
-vised by you. I have done the Scrophis
- all except two or three Pect. Remous.
& several Castilleias. If the specimens
had not been so miserable I could have
determined nearly all of them myself.

Really I am disgusted with the whole
collection. There has rarely been seen
such a mass of wretched scraps. Some-
-times I feel as if I could give Beck-
-ring - of Boakenidge too, a hard pounding
for bringing home such a lot of trash.

I am sorry to learn that you are
suffering from influenza. I can sym-
-patize with you - a rather cold, I have
done so a few days ago. Now I
am gaining health & strength rapidly.
The hardest physic that I am obliged
to take, is a glass of wine every day.
So long have I been ^{un}accustomed to its
use that it is very disagreeable, for me
to swallow the stuff. I am obliged to
dilute it with water, & put in sugar
& spices - even then it goes hard
with me.

New York. May 17th 1860

My dear friend

I have been looking for a letter from you all the week, because I wished to know about the state of your health. Muggie received James' letter - but this was some days ago, & I felt a little anxious about you. I am myself, about as well as ever, & have a fine appetite. I do hope to hear good accounts, not only of you & your dear ones - but also of Mr. Loring. Tell Jane that she only made us the nearest payment of a visit, & we shall expect her to pay the remainder with compound interest.

I have a large box of plants, & some things in spirits from the Arboretum of Paris - rec^d yesterday from Dr. Hays - which he wishes to dispose of. I wish if you can aid him in doing so. If the specimens are like some that I rec^d from him a month ago, they are very fair.

Mem. fr^o Dr Gray

Yesterday I got some sheets of Proceedings
of the Calif. Acad. N. Sc. - full of new
species & even genera - by Kellogg -
- printed in his usual imperfect manner.

I had not rec^d. any of this work for
nearly two years - & there is yet a gap
of more than a year. I have already
written to Kellogg for duplicates of his
novelties. Do you ever get any of
them? Have you his *Delphinium Washouq-*
torianum - a white & pale rose - colored
species? It seems to be cultivated by
many persons in San Francisco, &
we ought to have it.

On the next page are some notes for
you to look at. Pray let me know
as near about the *Ivesia Picketungii*. I
have not access to the Kew Journal
where Hooker has figured *I. (Horkelia) Gordonii*.
As far as I remember his plant
looks very unlike Picketungii.

I am interrupted here & must close
Yours ever
J. Torrey.

Ivesia Gordonii must be very different from
Horkelia? multifoliolata Torr. in *Sitgreaves*. The
leaflets or pinnae in the former are said to be
"profunde 3-5-partitis, lobis cuneatis obtusis, integris
v. bifidis". This description applies much
better to the Exfl-Exhed. plant, in which the
pinnae are parted quite to the base, so that they
might be called 3⁵-foliolate. There may be
three species of *Ivesia* - but *Sitgreaves* species
is not, I think, *I. Gordonii*. I send leaves of
it & of *I. Picketungii*. Pray compare the leaves
of both specimens with Hooker's figures - which I
only saw once & did not examine critically.

I neglected to make notes about *Sanguisorba microcephala*
of Presl (*Epimeliaceae*) - & wish to know whether it is the
same as *S. annua* of Nuttall. I only know it from the
description in Walp-Anu-3-p-855.

New York. June 10th
1860.

My dear friend -

Your letter of the 12th was received this morning, & the parcel was received two days ago. The plants were very acceptable. - You know that weedy things were my pet. Always think of me when you have duplicates of such-like.

I like Chapman's book. It is much better than I expected it would be. He worked under great disadvantages - for want of books & collections. You must have helped him greatly. The setting up is excellent -

New York, July 31st 1860.

I suppose that Eliza writes to your Jane
& tells her about our doings on the Palisades.

Herbert remains there all the time now, ha-
ving finished his five years at the Free Academy
& received his sheepskin. He works daily on
his farm. I wish it were in my power to
help him cultivate it on a good scale - Eliza is
managing her acres on the hill with much good
judgement & success. The Cicadas, however,
have done her very much damage this sum-
mer. I never knew them to injure the trees
& shrubs to such an extent. They have
killed a vast number of young fruit trees
in our region. They appropriate even short
branches of four years growth, & sting them
to death.

I have much botanical matter to talk
about - hope to see you ere long - & have a
good time with you - but I may not leave
home till after the scientific meeting, with
much love to Jane, I am as ever yours,
J. Torrey

My Dear friend -

Will you go to the meeting at
Newport? I had made some prepara-
-tion for going there - but now care but
little about it. I don't like the place
of meeting. Should I go, it is my pur-
-pose to make you a visit of two or three
days - if you give me an evening to both
over some doubtful things. I know that
you are hard pressed - & can ill spare the
time - but you must do what you can for
me. At any rate, I must, if possible, see
you & Jane, if it be for only a day.

At first it was my intention to leave here
on Thursday eve - & after spending Friday &
part of Saturday at Newport, to be with you
on Saturday eve - But you go to Beverly on
Saturday - Upon the whole, if I leave
home at all, I had better go next week &

not stop at Newport. I feel lonesome
& disappointed - but am in my usual health

I suppose that we shall get no proof sheets
of my report now - till Congress meets. It
is strange that Stuart did not urge the
printer to make a beginning, so that the
work could not stop. Can Wilkes have
made this difficulty? At any rate you
had better go on with the Committee as
you can find odd hours now & then. Get the
job off your hands.

Thunder don't have much heart for working
up the soft-wooded grasses - so that I shall
probably have to do them afterward. With
about a dozen exceptions, they will not be
difficult. Poor T. would gladly leave his
place if he could get other employment. They
give him no money; the region is unhealthy,
& the mosquitoes are most annoying. It is not
such an easy matter to get a comfortable situa-
-tion

these times, when competition is so great. -

Baton comes to see me pretty often. He was
greatly tickled with his diploma - which he
brought to me the day he arrived from Cambridge.
He says you were disappointed in his exami-
-nation - & was more than half determined to with-
-hold his degree. I asked him what questions
he missed - which he told me. But why, said
I, did you not answer them? - "Because I did
not know"! He commenced systematic botany
too soon, & did not lay a sufficiently broad founda-
-tion. When he begins to teach, he will find
out his defects; & supply them.

I picked up Mr. Austin the other day. He
had been herboring in N.W. Pennsylvania (I think
he said) - & would send you a quantity of plants
that he collected there. Do you know that he
supports himself by lecturing on chemistry - travelling
from town to town with a portable apparatus?
He says this supports him handsomely & enables
him to collect plants in various parts of the
country

New York, Sept. 7/1867

Dear friend -

Your parcel arrived yesterday. Thanks for all you have sent. You will permit in keeping one leaflet in your debt. That photograph of Maggie is excellent. Shall I tell you what I did when I opened the paper? - but don't tell your Jane. - I kissed it! Elizabeth happened to be at the house when the parcel came - & Sue Shaw also. They think Maggie will be delighted with the picture when she returns - for she is now on a visit to a friend in New Jersey - meaning to see you at Cambridge in two or three weeks.

I examined the *Vallisneria spiralis* again on my return of *V. Crista-galli* also. Who first pointed out the distinction between fruit of *Vallisneria* & that of *Meryanthus*? My specimens of *V. Crista-galli* have nearly mature fruit - & it shows a strong tendency to dehisce by the dorsal suture as in *Mery-tript.* It certainly does open so in *V. spiralis* - & by the figure of *V. paniculata* or *V. ovata* (I forget which) - the dehiscence is the same. R. Brown, whose *Vallisneria* included *Linanthemum* (the latter with involucre fruit) - says - "valvarum axibus seminiferis" - So that he

Torreya The button-hole badge

This card designated the seat to be occupied at the table, on the evening of the 20th. December 1867.

TOBREYA

The badge which I wore in my button hole, at the supper given to Dr. John Torrey, at the Astor House, N.Y. by the Botanical Club. Tho. P. James.

Sept 17
Rhuzegeu from Sonora

probably drew his characters (excluding the evaluate species) from *V. reniformis* & *V. namensis*. He could not have been mistaken in the dehiscence. Now it does not appear that any subsequent author has looked at those species critically.

Benthams has given an additional species ^(*V. latifolia*) in *Pl. Hugel* (quoted by Muller, in *Annal. of Steer in Pl. Kieft*). He describes the plant as - but not the dehiscence. Another species not in the Prodr. is *V. capitata*, Nees l.c. The capsule in this was thought by Nees to be indehiscent, but it was probably not mature. So we have no account of any *Villarsia* which is positively said to be dehiscent at the ventral suture.

If you know of any, please tell me. I had noticed the half-adherent calyx in *V. Crista-galli*, before knowing that Benthams had observed the same character in *V. latifolia*, & Hooker, in *V. involucrata* (l.c. p. 25). It is probably *V. capitata* Nees

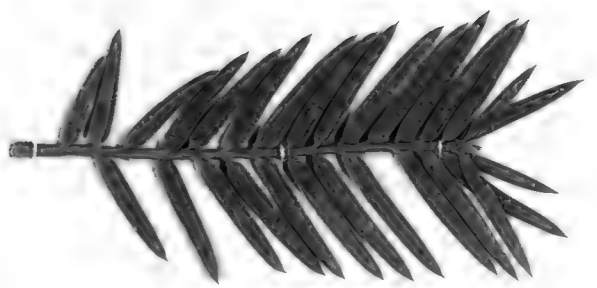
If *Villarsia* & its allies had ~~separate~~ distinct petals, they would (as seems to me) closely approach Saxifragaceae - especially the group with 1-celled fruit. Look at that matter & give me your views.

I think you asked me to compare your *Asclepias Nuttalliana* with *A. ovalifolia* Don. - which, if I mistake not, was in Bonpland's collection. I have done so, & have no doubt of their identity. Did I not once tell you that Nuttall's *A. lanuginosa* could not be the same, for N. himself referred that plant to his genus *Polyota*, which is = *Acerata*. No matter now, since Decain's name must stand.

Sept. 8th. Sue Shaw told me this morning that if you have a very faint copy of that photograph, to spare, she would color it for me. She does such things very nicely.

I meant to have filled up this sheet - but there has been a larger number of visitors at the office to-day, & I have had no time to eat my dinner - Love to Jane &

As ever yours - J. Torrey



New York, Oct. 9th, 1860.

Dear Doctor -

Your letter of the 6th. reached me yesterday. I do not quite understand what you say about Villarsia pumila & Oreisia Californica. Do you mean that the Fremontian specimens (379 1846) belong to the latter, & only the "Snake Co" ones to Villarsia? Fremont's plant was certainly collected in California. I will compare them when I go home. Glad am I that you have found the missing Hartwegian specimens.

Henry & Co. dropped in upon me last Friday morning, quite unexpectedly, while I was taking my solitary breakfast (for the family are still at Fredens) Mary promised to come home when they were coming, that I might "spread myself" on the occasion. I made them comfortable

They seemed to enjoy themselves. They left New York for Princeton on Saturday Evg. They were delighted with their visit to your house. I think a small appropriation will be made by the Smithsonian to make a commencement with their Expt. Exped. plants.

Yesterday I dispatched by Express (prepaid) a small box of preserves for your good wife. The peaches were from Eliza's farm. They are comparatively from this year. She put them up. I took great pleasure in assisting her, both in "high science" & in the ordinary work. The brandied beans I did entirely myself - & so the crab-apples!! The plums are Eliza's doing. If they show signs of moulding, your Jane knows how to prevent it by heating the jars - setting them on a fold or two of paper on a plankboard in cold water nearly up to the shoulders, & apply the heat gradually, & keep the water at the

boiling point for half an hour.

Some of the preserves are put up in a newly invented Jar. This was not necessary for brandied fruit, or for plums - but I have sent some of them that I have may use them next year. There are only two jars of cut fresh peaches. They must be watched till the cold weather comes - & if the India rubber grows flaccid, a convex, heat the jars - loosening the covers but not removing them. The covers must be turned firmly in half an hour after the boiling commences - then quickly remove from the vessel of hot water.

I'll I dare you may have a little plum when you are good - & a brandied peach when you in your very best mood!

Mrs. Fleury could not get the photograph for me, as it was in her trunk at the N. R. Station. She will forward it to me from Princeton. Much love to Jane. Yours affectionately - J. Torrey

there is any probability of his procuring
= ring about 10 subscribers for the plant
he may collect. He can - if
instructed to do so. - well, make ex-
= cellent specimens -

Revising my letter after waiting two or three
days - I found that I had written something
intended for Parry - taking up his sheet, by
mistake - So I pasted a piece of paper over
the sentence, to save room.

275^o You have seen Prof. W. H. Brewer, who left yesterday
- with Whitney - for California. He is no botanist -
- but he may collect pretty well. After a time
he may well probably write us to do up his
Report - you taking the chief burdens (which will
be one of love) - of I. some of the pet families! -
Either of us - or Thurber, could prepare a better
report of the Bot. of Calif. than Brewer could
five years from hence.

I send you the fruit of *Cymopterus* (I forget at the
moment the specific name you gave it - *C. littoralis*?)

Also one or two flowers of your *Hemiloma*, the placen-
tation of which - if I have dug it out correctly, is
very remarkable. Look at my sketch of try for
yourself.

Yours ever
J. Torrey.

New York Oct. 10th 1860

My dear friend

I have been looking again at
the plant of Fremont, which you think is
Parisia California. It is, indeed, distinct
from *Villarsia pumila*, but my former obser-
vation that the placentae are parietal, &
the capsule one-celled seems to be confirmed.
- There are the transverse sections under
my glass - of the ovules grow out of the
walls - just as I sketched them several
years ago. The flowers are very tender -
but the ovary is firm enough to dissect.
Have you a specimen to sacrifice? If so -
pray try again. In Fremont's plant the
styles are thickened & united considerably higher
up than in *V. pumila*.

Having occasion yesterday to compare
some specimens of *Sperma perfoliata*, sent
to me from Pennsylvania by Mr. Austin, I

was reminded of another Lemna,
from Panama, by Halsted - which I
must have sent you several years
ago. It is a curious thing, & I
don't understand the small flowers -
In my next parcel I will send you
my whole stock of it (quite small it
is) - that you may examine it again
- unless you have made up your mind
about the thing. I now enclose only
a few pairs of my skeletons, made long
ago. Preserve the latter & return them.

So you have the Prince at last. I hope
you will treat him like a gentleman, &
not overdo the matter, as our fusty people
did here. Of course you have seen
all about our Donip, in the newspapers.
I saw the boy as he rode along in the
Broadway procession - but it was so nearly
dark that I could not distinguish his
features. The Boston people will, I

feel pretty sure, not make fools
of themselves. When he goes to Cambridge
you will have a good opportunity of see-
ing him, & probably, of taking him by the
hand. At a dinner party this afternoon
Dr. DeLafield gave a very interesting account
of the Prince's visit to West Point. After the
more formal visit to the various buildings, he
& his suite desired to take another look, un-
attended by company. Their inspection was
very minute - & the whole party asked very
numerous questions, being greatly interested
in the details of the Academy.

Oct. 18th. In one of your late letters
you say that the "Complete Consolidation of
the Styles" in *Meryantheicæ* is rather against
the notion of their alliance to *Saxifragaceæ* -
but in *Villarsia punctata* ~~they~~ the Styles are
nowise united than in many undoubted *Saxifragæ*.

Parry writes to me that he is thinking
seriously of visiting the Rocky Mts. or Pike's
Peak next season - & he asks whether

New York, October 25th 1860

Dear friend -

Your letter of the 22nd. was received this morning. It was the first news I had of you since bereavement. All I can say is that I truly sympathize with you as I always do, in all your joys, as well as your sorrows - May God bless the event to you & yours so that it may yield at length the "peaceable fruits of righteousness".

That "Holocephalus" is safe, & will be returned ere long, with some other specimens of yours.

By this time you have received the letter I dispatched to you on Monday. Pray confirm or disprove what I suppose is the ~~description~~ ^{characterization} of Hemikomes.

We are settled, at last, in the City -
- although Olga remains at the Pelicados, fin-
-ishing her work on her farms -

We have had delightful weather
for a week past. The temperature
has been that of early September - no
change yet. Surely it is the "Indian
Summer", a little out of season.

Give much love to Jane,

Yours ever

John Torrey

Tomorrow will be the great fight! I am going to vote for preserving the Union, as a faithful
govt. officer is bound to do. No fear about the result. I am sure you will vote as I shall!
Yours in
I. Torrey

Cooper's - who claims all as his private property - but gave me a few duplicates - Also Suckley's - of which I have only some scraps: Even Fendler's he enumerates among the plants "entrusted to my care"! Did you not have a set of Xanthox's plants for the Smithsonian? or any others belonging to that Institution?

Emory gave me a full set of all his plants - & directed me (under the sanction of the Secretary of the Interior) to distribute the duplicates - Whipple the same - under the sanction of the Secy. of War - Under the same general directions the other collectors have been disposed of - & there are few duplicates remaining. Parry had only scabby duplicates - & often no better unguies. I will, however, gather up all I can find - & take the duplicates from my herbar.

~~He was here to-night.~~
Eaton was here to-night. He has recd. the Form of Mackenridge - so select for the Smithsonian, & put up the rest in sets. He goes to Cambridge on Wednesday, & will tell you of a lot of Expl. Exped. Phenog's that he found in the box of Form. I said you a letter that I recd. lately from a Dr. Bellamy - not being able to comply with his wishes I have been over to one of Mrs. Gray's

New York, November 2nd 1860

Dear Doctor

Your of the 31st ^{Oct.} reached me the following day. I have looked at your flower of *Quercus Californica* - and at Fremont's specimens - sacrificing one of your few remaining flowers of the latter - You are right. I find the ovary 2-celled. All the flowers have 5 stamens - 3 long, 2 short, - with perfect anthers.

Did I send you my description of *Hermitonia*? - If not, I have mistaid it. You would, I think, prefer correcting the mistake yourself - & as I like much the idea of giving this genus to Newberry - why - send me a note & I will insert it in my report. I cannot, however, see the placenta to be bicamellar. Tonight I have soaked & picked & boiled, in vain. In some of the sections the placenta seemed to be long enough to meet in the axis. They were probably from towards the base

of the ovary. Did not my sketch show as many as ten of them? Sometimes I thought there were more. I took extremely thin slices, & when thoroughly soaked, worked them in a compresor under a lower power of the compound microscope - but could not make out what you represent in diagram. Still you may be right.

You suppose that the lamellae nearly or quite touch each other, thus forming ^{large} cells with a central cell besides. I should like to be sure of the structure, so that the description will not require a second doctoring.

I'll write to Parry what you say about his collecting plants.

Henry has at last sent an official letter authorizing the preparation of the Smithsonian plants in my possession, - gluing, labelling &c. & authorizing the expenditure of money for that purpose. He wishes me to moderate my outlays. The paper should be as large as yours, & of equally good quality. Can you get some made where yours was obtained?

Perhaps 10 reams will be enough to commence with, if they will make so little. Jones-paper will also be required. How long will it take to ~~prepare~~ manufacture it? Can you spare two reams of the white to start my man Goebel with? He would be glad to commence now - as he has nothing to do. Besides, - I have to support him!

Nearly a week ago Henry dispatched all the Brackenridge ferns. & Eaton is to put them up into sets. The box is probably in Eaton's hands by this time. Henry wishes Smithsonian Institution put on all the labels - He seems to think that I have all the plants - of all the Government Expeditions - or, at least, have reserved a full set for the Smithsonian Herbarium. No bargain was made to that effect with any of the gentlemen who engaged me to describe the plants. Indeed the Smithsonian had no claim, except for the Exploring Exped. collections, and those obtained in the late Exped. He asks for Newberry (of which I have only a few from you - for

In case Lincoln fails there will
be an unsettled state of monetary af-
-airs until Congress adjourns. I am
not to have the time of the least com-
-mence until I actually take possession
of the College house -

I return, by Eaton, who leaves
for Boston in the morning, a small
parcel of your plants. I regret that
owing to a tremendous rain storm
having driven the water into one of
my study-windows, several of the
specimens - or rather the paper, got
a little injured -

How are you "on the score" in Cam-
-bridge? Are you sound there?
New York, however, is the great battle
ground, & there are strong hopes that
the right side has gained the victory
With much love to Anne I am
as ever, yours faithfully & affectionately,

Wm. Torrey

New York, Nov. 6th 1860.
6 P.M.

Dear Doctor -

The polls are closed, & the grand
result of the long contest will be known
by midnight. Herbert came down
from Medford this morning, & voted, for
the first time, this afternoon. He is a
Union man, like his father, but we
have our own opinions as to the way
the saving is done.

I was under the impression that
I had communicated to you a plan
(long submitted) of disposing of my
herbarium & library to Columbia
College - but I am not sure now,
that I did so. As the neighbor-
-hood of our house is degenerating so
rapidly, I have been anxious for more
than a year, to sell the property, & re-
-move up town: for if we wait
much longer, we cannot obtain nearly
as much as we gave for it. To
remove, however would be very expensive.

as I must take the herbarium with me, & transferring the Carex would cost some hundreds of dollars - I thought, however, if I could sell the herbarium to Columbia College, & live in the neighborhood, it would do. Finding there was a very good unoccupied house in the College Green (within a few feet of the main building) - & that there were convenient rooms in principal building, not in use - I proposed to the Trustees, to give the College my herbarium & botanical books for five years, rent of the house I promised, also, to give a few lectures on botany if they would allow me a curator of the herbarium on a small salary. The proposal was formally made & accepted yesterday afternoon. I am to have the use of the herbarium as long as

I please. This will save me house rent to the amount of about \$1000 a year. I had \$5,500 on this house - & it is mortgaged for \$5000. The taxes are about \$140. Insurance, repairs, &c. about 50 more. Then I shall save the warming of the plant rooms - for this the College will do - also the expense for paper, gluing, transportation &c. So the arrangement will save me \$1000 a year - I shall ^{I shall} have an assistant to do a great deal of work for me. The College will also pay all the expenses of transferring the plants to Carex. The girls have acquired in the arrangement - although to be so far up town will be somewhat inconvenient (viz. in 49th Street) I shall offer my house for sale immediately. Should Lincoln be elected I have no doubt that it could more easily be disposed of at a higher price obtained than if the Southern party were to succeed.

If I thought you might know something about the plant from some of the later bot. travellers in Africa. It is said to be a shrub 8-10 ft. high. Ch. is printing an account of his travels, & would be glad of some information about this plant. The poisonous principle is probably one of the alkaloids - such as Strychnine or brucine. Can the plant be an Apocynaceae? The venation is like that of Melastomaceae - but that family is not poisonous. You will see scattered glandular dots on the leaf.

Love to your good land - & my kind regards to Eaton

Ever yours -
(J. Torrey)

New York, Nov. 15th 1860

Dear Doctor. Your letter of the 9th came to hand. I know you must be very busy - & are making good use of Eaton.

The temporary excitement about Mr. Lincoln's election will prevent me from disposing of my house so soon as I hoped to do. Unless the purchaser should desire to obtain possession immediately, I think it better to remain where we are till next spring - & not take the family to Columbia College till next autumn - for if we remove early to the country & keep out of town until October - we shall have nearly half a year's rent. The collection can be sent up & arranged, in the mean time.

Eaton promised me some of his
herbarium paper after I had written
to you by mail - I shall accept
his offer. I fear that Henry
will object to so great an outlay
for the herbarium in one year as
the cost of 50 reams white, & 10 reams
green-paper. I shall write
to him on the subject this evening.
It is probable he will object to
spending more than \$300 the
first year - What is the cost
of the two kinds of paper?

Enclosed is his letter of in-
struction as to the herbarium -
Please return it to me -

Thurber arrived last week, & is in
good spirits. He commenced his
lectures at the "N.Y. Med. College

immediately. I have seen him
only once

I did not send the little Lobeliaceous
plant that I called Holosiphon - wishing
to look at it again. It is, as you sur-
mised, Lobelia carnulosa, Hook. & Arn.
- but not a Lobelia as that genus is
now limited. Perhaps, however, it ought
to be referred to Siphocampylus, as I once
marked your specimen. The habit ~~seems~~
seems different from that genus. If you
have more of the plant under the name
of Lob. carnulosa I should like to examine
the fruit.

To-day a friend brought me a leaf &
the long tap-root (woody & red thin bark,
& bitter) of a poisonous plant brought by the
traveller Chailot? (the gentle hunter) from
the interior. It is used by the Fijish
men in judicial examinations of suspected
herbivores. The leaf is well-characterized

New York, Jan'y. 9th 1861.

My dear friend -

We have been so greatly driven
by large arrivals of *Yucca* at our office, that
it has been almost impossible for me to
write to *you* as usual. At home I
am kept pretty busy in overhauling my herbarium
& preparing plants for gluing. Hence I have not
been able to keep up a brisk correspondence, &
you must not think that I am indifferent to
your requests.

I have delayed sending the copies of Mex. Bound.
Botany, because I now think there is a prospect
of obtaining the plates. Baird is endeavoring to
have them struck off for us. We must print
a page of the worst errata to accompany the
copies distributed by us. When I go to Cambridge
I will get a list of what you have noticed of errors.
But it is uncertain how soon I can get off. As

long as the glut of gold exists, I must remain here. It is probable that there will not be more than one or two more heavy arrivals of Sovereigns. When we are reduced to the ordinary business of paying California gold, I can readily get off for a week between the arrival of two Steamers -

I began to feel discouraged about our country. The disaffection seems to be so general at the South; even in the border States, of the leading republican politicians are so timid, that it is greatly to be feared ~~that~~ fatal concessions will be made. There may yet be civil war - & if it once commences, no one can tell when it will end. I firmly believe that we must stand by the entire platform, & that if we yield to Southern threats, the advantages gained by the republicans in their great contest will be lost. The battle will be renewed ~~year~~ hence - & a dreadful one it will be. Still, I hope

that if patriots & Christians do their duty - even if politicians are false, we shall escape the present danger -

As I may remove to Columbia College early in the spring, it will hardly be worth while to send all the Southⁿ Herb paper to my home. I should like to receive half a dozen reams of it at once. Will Rice of Kendall ~~keep~~ the remainder for a few weeks till I know more about my movements? If they will send me the bill, I will forward it to Prof. Newy immediately. The genus paper should be put in the same bill.

I send you ~~the~~ bits of the two Senates that you asked for.

We have had ~~charming~~ weather for some days past. The temperature has been scarcely down to freezing. New Year's was glorious. It would have given me great pleasure to have spent the holidays with you. If I get certain fees for unrefined jobs - I will send Herbert, & perhaps one

of the girls to stay a few days with you -
We talk of them much about you.

Thurber spends one or two evenings every week
in my study - working on grapes. He would like
to remain in New York if he could obtain em-
ployment to his taste. Possibly I may get
him back into the Agray Office under Old
Abe. - but shall we have a U.S. Agray Office,

Give my love to David, & tell her that I
am mortified to know (if I may judge from
the duplicates retained by me) that so large
a portion of my preserved fruit turns out to
be very indifferent. Those air-tight jars are
not reliable - if the preserves would not have
been of first quality in jars of any kind let
her be patient, & (D.T.) I will send her better
articles next season -

Yours ever
John Torrey

New York, Jan 29th 1861

Dear friend.

The paper arrived safely, & gives entire satisfaction. I sent the bill to Henry, & asked him to pay it promptly. As soon as my house is sold. (but I fear it cannot be disposed of very soon) the rest of the paper can be sent on.

The days are passing rapidly, & reason will soon culminate. It looks very much as if humiliating concessions will be made. Although the best portion of the north will stand firm, - the men of business & of wealth show the strongest desire to have peace on any terms. The Cotton States will contemptuously reject whatever we may beg them to accept, - & the border States will not thank us. If actual fighting can be prevented until honest Abraham is inaugurated I shall have hope. At any rate we can see the end of Slavery - fighting or no fighting

We continue to receive cartloads of gold & silver daily - & we are kept pretty busy - for I resist the appointment of another assistant. There can be little doubt of the current of bullion being reversed in a few weeks, & then we shall have face enough to perform all our work. Thurber is here, & spends two or three evenings a week in my study, working on grasses. He is quite disgusted at his treatment by the trustees of his College. His salary is considerably in arrears, & there is no prospect of his receiving any money for a long time. Some of his friends are endeavoring to obtain for him the appointment of Inspector of Drugs for this Port: You know that he was reappointed Prof. of Botany & Pharmacy in his old college - & that the N.Y. Med. College have given him the same branches in that Institution. So that he discharges two slips at one time. The pay is small - but it ought to be sufficient for his immediate wants.

The plants of Newberry's last collection have arrived - but there are very few among them of much interest. None, I believe that are new. Those of Joes' Exped. are much more valuable. I will select some of the families & send the rest to you. A full set is to be selected for the Smithsonian - & I suppose that we are entitled to such duplicates as we need - the rest to be distributed. You shall have a list of my Determinations - & can select such as you wish me to send. Maggie asks if your Jane is determined to cut her? She can't do it. Give my love to her.

Yours ever
John Torrey

but I may be able to bargain
for them in a week or two -

We are all as usual at No. 96 -

I send much love to you & yours.

Faithfully your friend,

J. J. Jones

New York, Feb 7. 5th 1861

Dear friend

I am troubled about that Copenhagen Journal - having looked for it without success - My library is so small & the possible places in which it could be concealed are so few, that it seems as if I must have returned it. Pray write to me at once what kind of a volume or pamphlet it was - & when it was lent to me. I must have had it before the Mex. Boundary B.M. was printed - which is more than two years ago. I thought it might have got bound up in one of my volumes of pamphlets - but I have had no binding done for about three years - Nevertheless I

looked over the last batch of
of those volumes, & found it not.

I will leave no hole a corner un-
- searched till it is either found,
or proved not to be in my possession.
Of course I could not have lent
it as that would have been wrong
without your consent - & besides,
no one but ourselves would want it.

I am sorry indeed, that you
have sustained a painful injury.
You don't tell us how the end of
your thumb was bitten off - per-
- haps that it is as much as you
choose to say about it. Maggie reads
her love of sympathy - if - on the way,
there is enough of you left to feel.
She says that now you must allow

that same is really & literally your
best half. I would not joke
about your mischance, had you not told
us you were over the worst of it.

The news from the South looks better
this morning. At least it appears
as if Virginia would not secede.
If actual war can be kept off
for 4 weeks longer, the danger will
over -

As I can not leave here until about
the end of the month, it might
as well to send the H. Bras. & such
matters as ^{have} accumulated in my pigeon
hole, - by express. Let me know
what are the charges, & I will remit.
As to those plates of Mex. B. Br. -
I do not see my way clear yet,

I enclose in P.O. stamps, 75 cts. for
the last no. of Proceed. Linn. Soc.

My love to Jane & ever yours,

Wm Torrey

New York, Feb 20th 1861.

My dear friend -

The parcel arrived safely yesterday morning, & Thurber soon made his appearance to take his share of it. The most interesting of its contents to us was the Graphophorum - which ^{we} had long been anxious to see. I do not think the grass has ever been received by me before. When I looked over Michaux's herb. I examined, slightly, his *Sira triflora* - & supposed that I had taken fragments of it - but they do not turn up in my herbarium. The genus seems to be a good one. I am right glad to get a specimen of the plant.

I was amused at your account - I mean of Jane's - of the judgement pronounced by "the Club" on those braided peaches. If I should be spared till next autumn, you

shall have much better ones

The plants in your parcel were very acceptable. I am more desirous than ever to increase the herbarium.

As yet my house is not sold - but if no purchaser should take it soon, I will try to rent it to a good tenant

Parry writes to me that he will pretty certainly start for Pike's Peak early in May next. I mean the actual Pike's Peak - not the mining region, which is nearly 100 miles off. That mountain has, I believe, never been ascended by a botanist, & very likely it will afford (like James' Peak) some very interesting alpine plants. Parry wishes to get a few subscribers for his collections, in order to defray, at least in part, his expenses. Do you think

you can get him several ^{sets}? I shall insist on his giving full specimens. He means also to collect seeds for propagation. Perhaps you can help him in selling these. Parsons will doubtless wish some of them.

Yesterday I saw the President elect as the good man rode to the ~~Asst~~ House. He is much better looking than any of the portraits of him that I have seen. His face was well covered with jet black hair - as was his head. He rode three miles, without his hat, standing in the barouche! I hope & pray that he may be firm in resisting any concessions demanded by the slave states. The Cotton States wish no compromise - & the only way is to let them stay out till they are tired.

New York, Feby. 21st 1861.

Dear Doct^r -

In my letter of yesterday I forgot to ask you to send us the Smithsonian set of Wright's plants. The glues can take them up at once -

Have you ever studied the fruit of *Vaccinium arboreum*? There was none of it in my herbarium until yesterday, when I found it among some of Bigelow's duplicates of his Whipple collection - collected between Fort Smith & the Rio Grande - Nuttall has not described it correctly. It has 5 distinct outlets with 2 diverging 2-3-seeded cells.

I hope to see you ere long. The business at the Assay Office is slackening, & unless we receive large quantities of coin

from Europe, we shall have a little
breathing time.

Did I tell you that I was several
days in ~~the~~ Philadelphia last week?
I went there on business of the mint, &
attended (on Tuesday evg) the meeting
of the Academy of Sciences. There is no
working botany now in Philadelphia.
- my good daddy Durand he considered
one. He has long been laboring at a
general catalogue of N. Am. plants,
compiled from the numerous works in which
they are described or noticed. He is not
fitted for such an undertaking &
will probably never complete it.

Islande Conte would be obliged to you for
a copy of your article on Darwin's Theory.
from the Atlantic. He had not seen

it - & although he meant to read the ~~Monthly~~
& read it, he wishes a separate copy of
the article to preserve.

We are all in good spirits at the Agency
Office, but are a little curious to know who
will be Boss of the Treasury. If the right
kind of man is appointed we shall be
able to keep politics out of the establishment.

Lincoln got off comfortably this morning, &
there is little fear now that his inauguration
will be prevented. - He needs all the
wisdom & firmness ever found in man
to direct & sustain him in his ~~course~~.

Yours ever
J. Torrey

2

New York, March 9th 1861.

Dear Doctor.

I have been spending a week in Washington, & heard Lincoln's Inaugural. Henry invited me, long ago, to be present on the great occasion - but I was just about sending a message to him that he might offer my place to another of his friends - when I was summoned by Sarty Dix (as my boss) & invited by Joicey, to attend a meeting of Commissioners of U.S. Naval Engineers to investigate the Cause of Corrosion in the ~~boilers~~ boilers of the Steamer Dakota - Other cases of the kind were also to come under our examination - The Board met at the Smithsonian - Henry being one of the Commissioners. This business detained me longer than I intended to stay, & will require completion at home.

It is a curious & interesting, as well as a most important subject. Some boilers have become almost useless in three months! We shall probably find out the cause of the corrosion.

The speech of Lincoln seems to please all but the slave holders - The Henrys are all bitterly opposed to the President. Their feeling has been caused chiefly by their strong attachment to Mrs. John Bell - a very pleasing & popular woman - She & her husband were guests of the Henrys all the time I was at the Smithsonian - Lincoln ought to put on proper dignity - He is an honest man & of good ability - He wrote every word of his address himself, & I have it from very good authority that he would not change a single expression, which Mr. Seward intimated he would be pleased to see altered.

The grand difficulty is yet to be met -
 What shall we do with the Seceded States?
 If they are let alone we shall expose
 ourselves to the Contempt of the civilized
 world - & if they are Coerced there
 will probably be war. Of them the
 border States will go off also. Oh
 that Cotton could be kept out,
 peaceably for a few years. God alone
 can restrain the wrath of man &
 to thin us must look for help.

The plants arrived in due time
 - but was not the freight rather
 high? (\$3.) - Wrights were badly
 injured by insects & a great many
 of the specimens were necessarily con-
 signed to the stove. Had you not
 better overhaul other collections
 that are stowed away in the barn?

My home has been offered to let for several
 weeks but no persons have applied
 whom I would be willing to trust. Nor
 is it a favorable time to sell. Very
 likely we shall have to remain
 in St. Marks Place another season.

A gentleman just called to inquire
 whether you had a "full copy" of your
 Expl. Exped. Botany to dispose of.
 He says there are two copies to be
 disposed of at a book sale this w^ok.
 - but that they ^{are} cut down too closely
 for his taste.

Stewart, of the Wilkes Staff, is said
 to have a complete set of the whole
 work, which he will not sell for
 less than \$1500!

All are pretty well at No. 96. My cold
 wears out very slowly. Give much love
 to your good Lane.
 Ever truly
 John Torrey

my love to her when you visit
Beverly - while I suppose you do
at least once a week.

Ever yours,
Wm. Torrey

My dear Jane

I have just come down ^{to} father's office &
found him closing a letter to Dr Gray. Such a good
chance to send you a word is not to be let slip. Dear
Jane, how are you? Wish I could go & see for
myself! If nothing interferes this September, I hope to
camp all yr late invitations & go on for a good
visit to you. By a visit, mind, I do not mean
your weak notion of that - some of your
3 1/2 days' work. You'll see.
We are popping on, father & I, in a very busy way.

Housekeeping for two is its hand work I find. We sit over
the table & have good talks. I save up all my
knotty questions for dinner time. Perhaps father
has told you that Jane is still in Princeton. Lizzy is
of course at her farm, & just now, Ned is down
in Jersey. I think on the whole that Lizzy is
picking up a little in a slow sort of way - I mean
as to cheeks, not pocket. Farming does it - make that
fact I find. Eaton still keeps coming. He does
Thurber's visiting & his own, & now that Thurber has
gone back to work. He is a nice youth, but queerish.

Jane dully shadows forth a visit to you - Do you seriously object to my
coming either before or after her? This between ourselves. Give lots of love to

Dr Gray if he should
not wish to pick it out
for himself before you
see this.

You are a dear
little woman
Good bye Jane
Wm Torrey

Dear friend -

I ought to have written
to you long ago - but have been
waiting for a good opportunity
to talk a little Botany with you -
two or three days, however, what with
tons upon tons of gold, war news,
hot weather & various engagements,
I have not been able to look much
at plants, except in making my
herbarium. I wish to get in the
but when as I send it up in packing
to Columbia College. It is a
joy to me that I cannot remove
there - but I must not complain
when I am so much better off than
thousands of persons who a few months
ago thought themselves wealthy, & are
now almost destitute of daily bread.

July 2nd 1861

July 5. We had a charming
walk in & around New York. The
day was kept in the best style
& the people were overflowing with
patriotism. I saw only one inter-
ested person.

No morning papers were distributed
to-day. I have not yet read
the news, which has just been
published in an extra. I hear
the boys crying our "President's mes-
sage" - which I hope to see in
a short time. I can almost tell
what it contains. In a few
days we shall probably have de-
cisive results. A very prudent &
excellent officer, whom I see every
few days, says that we are not quite
ready yet, & we must not move to-
ward the rebels until we are fully
prepared.

I am requested by the Manhattan
Gas Co. to visit a coal mine in Nova
Scotia, & shall probably go there some
time this month. If I do so, I shall
stop a day or two at Cambridge on my
way - for I shall go to Halifax by
steamer.

Two letters have come in from
Florence ^{for you} - which I enclose. I also
send the letters of Jos. Hookes & Booth,
which I was very glad to read.

I am alone most of the time now - day
Maggie is with me just now. But Eliza
& Hubert are occupied on their farms,
& Jane is visiting in New Jersey.
We do not keep up the establishment
at Shrewsbury - I have a prospect of getting
it.

I suppose that your Jane is now at
Beverly. I hope she will get to be
robust by residing there during the
hottest part of the season. Give

At 3 o'clock we were all at the
mine & last evening - when we were
at the same time (coming to see some specimens
mostly planned by me & others - they were
mostly with the fossils, & some business like
made their appearance when I left
home today. - Give my love to
your Jane. - Yours ever
J. H. Murray

New York, Feb. 3 [1852]

Dear Doctor - I refer
you Purdy's Memoir of St. James
with a few pencil marks & suggestions
of corrections. It is better in
than most of Purdy's letters etc. -
but don't please me altogether. You can
confirm such of my corrections as you
approve of. It will hardly be necessary
to copy the Draft.

I have received the few pieces of Purdy's
Mr. Smith - in volume of *Philosophical Journal*
& like it much but cannot make com-
parisons as the specimens are not at
hand. Must we wait two months for the
receiving part?

Oh how I love to see your pen
writing letters! Give my love to
your Jane & your family.

Her father's health is not so good
as you may see. I examine
it to be sure & he is now in the
days of the year. My dear mother is the
only one who is now of age.

Your letter of the 20th has not yet been an-
swered. Your sister & her children are
well. I am well. I will be at home as soon as
my wife will. I have just received
your letter. It is just as well for me to
delay until March is past, with
the hope of being in the early part of the
month. I seem to have an attack
of catarrh. This year I have had
a very bad one. I commenced
preventive treatment earlier this year
than usual - & may be gain altogether
the expected cure. I have of Maggie
watch me very carefully, & I am very

submissive! Let me think I am in
spring? As long as I am treated
after the way you mention I am the
best of patients.

What I am sure of it has been
since I have - & a sort of a
dormant had commenced. I am people are
all very healthy, about my room. This
is evidently a great improvement. I
Mr. Pitt's letter last evening that the
Government has purchased, within three days
about all the ships that are available in
the port with a view of the to have
to the Tabasco immediately. Eaton is extror-
dinary busy in these days loading & shipping
with choice nations. I don't
believe it will be possible to maneuver
in Virginia, until after the middle of
this month.

June 19th. If you have that extra copy of
D.C. Prodr. xv. 1. on hand I should be very
glad to get it. Sent by mail - unless you
have enough binders to make up a small
parcel - Let me have a mem. of cont. with
the other items of my indebtedness that
I have neglected.

Sewey re? his Cases must be long ago.
- Where shall I see your notes on
N. Am. Sp. of Cardellina? Would you
not like to see my whole stock
of the genus? I would, at any
rate, be glad to get your names
on them. Glad to hear that you
have reduced the number of species.

It seems that the Phil. Acad. Sc. did
not see fit to take your advice about can-
celling the last part of Buckley's Paper.
& perhaps it came too late. - Mr. Schultz
(my assist.) - asks whether you dealing with B.
is "smashing" or squeezing him gently & death?

- Did I say that my Journey to Rochester
did me no good? I should have said no harm.
- I have been well ever since, & eat like a horse

I. S. Jones
will write more at length in two or three days. My own

Columbia College N.Y.

June 9th 1862.

My dear friend.

At length I am settled in my
study, & I send you my first letter
from this new sanctum. Maggie is busy
at one of the tables, helping to arrange
some portraits of botanists. I shall
like my new quarters very much when
the herbarium is in good working order.
My assistant, Mr. Austin is a zealous,
hardworking person, but he has much
to learn. He has been of great use
to me in preparing the rooms & getting
them in order.

The house is still in confusion, but
we hope to get rid of the workmen
this week. The last call for troops
took off some of them, so that we have
had a scant supply. - & all have been

about much of the time. We sleep now on bedsteads after lying on the floor nearly a month! You & Jane will be pleased with our little box when you visit us.

Maggie returned from Eliza's farm a few days ago. She had spent about four weeks with her sister, & enjoyed her visit. Her health is now very good. Eliza has not yet seen our new house! She attends to her "turnip patch" most assiduously. She has a good prospect of a handsome peach crop - but the trees have not fully recovered from the severe injuries inflicted on them by the "locusts" two years ago.

Herbert works his farm on a small scale. It is his intention, as soon as the series improve, to sell two thirds of his land, & cultivate the remainder. We

find that to have a well-stocked nursery requires far more capital than he can command. Then too, the great establishments have overpowered most of the smaller ones, & the business will never be as profitable as it was a few years ago. - If the bill for establishing a mint in New York should be passed by Congress, Herbert's pay would probably be increased, & as the work is now easy & pleasant to him; & he can visit the Country Daily, he had better remain with me. I cultivate only choice fruit on a small farm.

It is now growing late & we must break off for the evening. I retire early & rise at six in the morning. Maggie desires me to send much love to you & Jane, as well as to Miss Julia. To "Old E." she sends kind regards.

New York, July 5th 1862

My dear friend

In several days past I have not felt like writing letters, or doing any thing else. The condition of our afflicted country, & the great battles that are taking place, keep me agitated, & unfit for business. To day matters look somewhat more favorable. At any rate the Army seems to be safe, & the enemy has been forced, after making the most desperate efforts to destroy McClellan. They can hardly fight so hard again. Still, the end seems to be far off. We can not be ready to approach near to Richmond again till we receive very heavy reinforcements of drilled men. Before they can be furnished & placed in position

the sickly season may commence - of these the
troops will suffer as much from disease as
from gunpowder. In the mean time the
enemy will not be idle - but they will be busy
off for most things needed by their soldiers. We
must yet adopt the only effectual means of
conquering them, - confiscate their property, &
liberate their slaves. -

I would send you the amount due you if I were
not afraid to trust money in a letter. On Monday (it
is now rather late on Saturday) I will get a check or
draft of credit to you.

So you got the books without my help! I was
out of town (on a trip to the pines) when your
letter was left at the Agency Office, & while
I was preparing to comply with your request, a
second letter informed that I was too late.

Yours of July 22d. was received this morning

As to observations on the precociously fertilized
flowers of *Specularia*, I don't think that I have

said any thing about the pollen-tubes: but just now
I have no books on the subject at hand. Are
there any other plants besides *Aclepiads*, & *Aptenia*
that were known to produce pollen tubes while
yet in the anther? I will look, when
I go home & will examine those early flowers
of *Specularia perfol.* which are so curious, & of other
similar flowers - such as occur in *Diphysanthus*
oleifer &c.

Maggie has been spending some days at Staten
Island. On her return yesterday, she received
Mrs. Gray's letter. You did not tell me about
good Mr. Loring's severe accident! I am really
glad that he is getting better. What a narrow
escape!

I am getting the Cases ready for Boston,
& will send them, - of the *Pentstemon* for
yourself - on Tuesday next.

Give much love to Jane, & tell her
not to work so hard. Maggie tells me
what she is doing! Yours ever

Ashe Torrey

his ascension of Pike's Peak. It is very
fairly written, but will have to be doctored
before going to press. I will run it over
& send it to you in a day or two.

Just now I hope you are enjoying your-
self at Beverly. You need a little recreation.

I shall take the Polmoniac in hand at
once, & send you my notes on them - to do
with as you please -

Give my love to Jane - & tell her that we
shall certainly expect her promised visit here
fore the cold weather sets in -

Ever yours,

John Torrey

New York, Aug. 27th 1862

Dear friend -

I arrived safely yesterday
morning, but it was 9 o'clock before
the passengers were landed. I found
all well at home, except that Jane
was slightly indisposed, in consequence of
a strange contest with our cook. She rifled
her purse a few moments after taking some
money from it, - & thinking it possible
that ~~it~~ in restoring it to her pocket ~~the~~
the clerk might have caught in her outer
dress, - asked the cook, who was near, to
look if she could see it. The girl accor-
dingly opened the folds, one after another -
& as Jane glanced over her own shoulder,
she saw the girl detach the dangling purse
& quickly put it in her pocket! The thief

then said that she did not see any purse.
- No? said Jane. "I suppose not - but you
just put that purse in your pocket!"
at the same time grasping the purse
from the outside with her hand. They
immediately closed, - the girl struggling
violently to get free, & being pretty strong
pushed Jane around, & finally got her
to the kitchen stairs, down which they
both went, still closely grappled. The
girl picked up a stout stick, & beat
Jane with it over the shoulders & back
& smote also with her fist in the face.
She also tried hard to reach a table on
which were some knives, threatening
to stab Jane at the heart - if she could get
one of them. The other girls refused
to help, through fear, & reluctantly stayed
when orders to go of Miss Ruskin. He
came at length, & the girl departed. Jane
asked him to watch the girl while she went

& put on a dress - for her clothes were
badly torn. Ruskin did not watch her
as he should have done - & while he turned
away for a few moments, the girl quickly took
out the purse & threw it on the floor, - exclaiming
"There it is - & has been there all the time!" So
Jane was unable to prove by a witness, that
the article was found upon the person of the
thief. Ruskin would not take the trouble
to get a policeman, but Jane happened to see a
boy of sent him to one - & he took the girl
off - meaning to go with her to the place that
she visited, & there search for the watch, which
was no doubt stolen by her. - I did not
mean to go into this detail - but my pen ran
on when I touched to the paper. I have
just sent to the Herald office an advertisement for
two Conhabands - for Jane says she will never
hire another Irish servant!

I have just packed up the Post letters
& sent them to the Express office. They will,
I fear, be of little use to you.

Yesterday I received Pansy's account of

New York, Sept. 1. 2 1862

Dear Doct^r -

Yours of Saturday was placed on my table at the Agency Office this morning. The box is carefully preserved, screws of all - so that you will receive it safe & sound, when I return the Polmones.

I shall attend to your kind injunction about Darwin's book (which I hope to get tomorrow, if I can see Eaton - who knows where it is sold) - & then I will send the author a letter of thanks.

With yours of to-day came a letter from Engelmann, enclosing one from Perry. They both wish to have the account of the Ascent of Pike's Peak published with the article on the Pines & Gentians, & another on the barometrical measurements of several Peaks - including yours. So please return it to me, or to Engelmann. It ought to be put in shape before being

printed. If it were to be published in
one of our journals I would take the liberty
of correcting what was obviously incorrect,
but I don't know whether I would venture
to send back a revised copy of the manuscript.
Do you think that Engelmann could be
trusted to make the necessary corrections?

I know how anxious you must feel
just now. Our affairs are in a critical
condition. The rebels must be greatly en-
couraged by their late successes. It seems
as if the decisive conflict must take place
in less than a week. Oh how earnestly
should the whole North pray for God to give
us success. - Yet he may see best to
humble us more, that we may more truly
repent of our national sins, & cheerfully
join completely with the great cause of
all this misery that has come upon us.

True enough - I have forgotten to send
you Prince's Strawberries. I will look them
up tomorrow & enclose them in my letter

I hardly know how to get seeds of
Syzygium lineare & L. alatum.

Sept. 3rd. I was interrupted yesterday
& could not get the Progenies ready. I have
now put them in a letter form. A duplicate
set is retained - but I hardly think they
are worth keeping. You have Prince's
original labels in your set -

The war news of the last three days
is gloomy. The rebels, & their friends in
our own ranks, as well as the null & void
policy of the government, will bring us to a
humiliating posture before we ~~can~~ get our-
selves sufficiently united to strike heavier blows.
We are too much afraid of hurting them.

Yours ever
D. Torrey

New York, Oct. 22^d 1862

My dear friend

You doubtless think it strange that I have not written to you for so long a time. Nearly three weeks ago, I was attacked with a cold in my face, with a swelling of the gums & ugly distortion of the countenance. The pain & headache were severe so that I had but little comfort for eight days - & even now I have not entire relief - but I can scarcely bear the present pain. Then came Henry & for a week he had all of my time that was not spent at the Gray Office. You have doubtless heard of the death of his only son, William H. The Prof., his wife, & one of his daughters were at my house, & expected to remain some days longer, when they received a telegram, a week ago last Sunday, at one o'clock in the morning, informing them that William

was alarmingly ill. They started off in the night hoping to find some very early train going south. but were disappointed & came back. It was Sunday evening before they got off. On Thursday last the poor fellow died. I we buried him at Princeton on Sunday afternoon last. The Prof. came to New York with me on Monday & returned to Princeton last night - the family being determined to remain there till heavy frosts occur in Washington. They are afraid of malaria at the Smithsonian.

Tell dear Mrs Gray to pardon me for my apparent neglect. I have done nothing of consequence since her letter was received. As to preserving tomatoes I only wish the species were exterminated. To be sure I would tell her if I knew how to keep them from spoiling - if such things can spoil. Those that I prepared in sweetmeats were simply cooked in the usual way, transferred to bottles while boiling hot, & corked up as quickly as possible.

The girls are well. but a good deal tired with frequent visits to the military hospital. Eliza is still at her farm. I purpose starting to see her in five minutes. In a few days I hope to work hard at Botany. Yesterday I made an effort & succeeded in giving an introductory lecture on Botany to a new class at Columbia College. The course is to consist of 12 or 14 lectures, delivered not more than once a week.

Give much love to Mrs Gray. Ever thine
John Torrey

New York, Dec^r 11 1862.

My dear friend.

On Saturday I wrote you a hurried letter, promising to give you another to-day - but I could not get it ready in time for the mail. So I am here alone in our parlour in 49th St. - all the family having retired, & here I write. That paper of yours on *Lycium* has done up the M. Am. species as satisfactorily as is possible in so natural a genus. You have very properly reduced *L. stolidum* & *L. scaberrimum* to the earlier *L. Berlandieri*. I thought that species with a long calyx (collected by Trement) must be new. It is to be hoped we may obtain more of it one of these days.

I have looked again at that supposed n. sp. of *Cyperus* of Prof. Vorken, & can not regard it as more than a variety of *C. strigosus*. The same kind of rachis is found in the common form of that plant - even ⁱⁿ some that you sent me for comparison. In old heads ~~of~~ in some rather young ones, the lower spikelets are strongly reflexed. As to size

Engelmann finds it necessary to go deeper & deeper into our Coniferae - especially the *Juniper* *Pinus* & its near allies. He calls on me for materials - & I am going to offer him my whole stock for study, if he is willing to bear the expense of transportation. He wishes to leave nothing for Prof. Palatone of Florence (who, it seems is to elaborate the Coniferae for the *Crocodrum*) nothing to correct in those of the U. States.

Eaton was with us on Saturday Evg. & he says, that "if Mrs. Gray will ~~with~~ promise to visit us, he will go to Cambridge & bring her here" So if Jane really means to come, she is without excuse, & must forego after hold her peace. Do let us see her & we will promise to let her off the day before Christmas. Give her my love - & all the family would do the same, if they were present. Ever thine

John Torrey

P. It will not be necessary for me to return the prospect of *Lycium*

I have seen *C. strigosus* ^{Aspeet} high, I have
laid aside all the specimens that you sent me.
(except one or two for my herbarium) & will
put them in my next parcel for you.

When you want my *Astragalus* &c. let me
know, & they shall be sent to you promptly.
- but I don't envy you the job of making
out a synopsis of them: I would leave out
all, of which we know not the fruit, ^{or} put
them as doubtful species at the end.

When you get those copies of *Benth's* & Hook.
Gen. Pl. pray send me to me without delay.
& I will remit the price. *Benth* has it.
& sells it for \$7 & a fraction (I forget how much)

I have twice carefully examined the seeds
of *Dorlingtonia*, & see nothing to amend, & nothing
important to add to what you writes in your
letter. If I had full specimens of the plant I
might write out a new character for it. but since
there is nothing more say than to describe the seeds you
had better do this under your own name.

So you have at last disposed of that
big Potato which we once tried to make *S. mam-*
mosum, & it is to bear my name! Well,
it is not a bad looking thing. & I shall accept
the compliment & take my place as a pri-
-vate in the grand regiment. What a pity
I was not mentioned in ~~the~~ the *Prodromus*
-reached its XIVth volume!

That *Shasta* mountain is not, after all,
of much interest botanically: at least
for the extent of its Flora. But how
do you apply to it your theory of plant-
distribution in the northern hemisphere?

As you have received rock specimens
from Parry, I presume he has sent you
plants also. I have a recent letter
from him in which he mentions his in-
-tention of forwarding his collections to you
-but he was waiting to determine how he
was to divide with Hall. I suppose
he has got nearly all the plants that are
to be found in that part of the mountain range.

not seen the act, & know nothing of
its provisions, except a single item contained
in a letter received to-day from Mr. Wilson.

He says that in the "third section of the
act it is enjoined, that the Academy shall
hold an annual meeting at such place
in the U.S. as shall be designated." He asks
me, as one of the corporators, at what time
I can attend such a meeting in New York.

As Henry was closing his letter, he heard
of this, & advises me to attend the meeting.

I don't know of one other "corporator" - but
I presume that Henry is one - nor do I
know what the object of the Society is. Of
course you are on the list. Tell me
what information you have received about
this grand national institution!

So we are to have a visit from your
dear Jane - to be followed by one from
yourself - she are on the quiver - but
tell us a few days before we may expect
the good lady - & I will meet her at the cars.
Give her my love. Ever yours

John Torrey L.S.

New York, March 9th 1863.

Dear Doctor.

I don't know how I came to neglect
sending the money for the Gen. Pl. It was
on my mind when I wrote last, of the green
back was ready - but I found it had not
been enclosed. The X will pay for

the book, & for the Lin. Soc. Proceed. If
there is any thing else for which I am in
arrears, let me know. I ought also

to have sent you my notes in a few ~~of~~
Potamois from Hall of Harlan's Collection -
left with me by Eaton.

- No. 456. *Gilia pinnatifida*, Nutt. nsp.
- 457 " *incomspicua* - var.?
- 403 *Collomia gracilis*, Dougl.
- 404 " *viridis*, Nutt.
- 455 *Phlox Hoodii*, Richards.
- 454 " *Douglasii* Clarke n. sp.
- 453 " " " var.
- 461 *Gilia* - not in H. Torr. or H. Gray.
- 459 " *aggregata*, Spr. (= *pulchella*)

— 458 *Gilia longiflora*, Benth.

463 — *spicata*, T. & G.)

(450 *Polemonium pulcherrimum*

451 *P.* remarkable new species - but near the last. The character of *P.* must be altered a little to admit this species - of even *P. pulcherrimum*. It connects the genus with *Gilia*, but in the latter the calyx are always (I believe) acuminate-pungent, while in *Polemonium* they are herbaceous.

452 *P. pulchellum*

448 } *P. caeruleum*

449 }

462 - Was probably put by Eaton among his *Pleuro. l.* mistake - It is *Chamaerhodos erecta*.

I have a long letter from Henry, in which are some statements about the "American Acad. of Science," that confirm your & my suspicions about the secret history of that affair. Henry says, ^{that} some weeks ago, he had discussed with Bache & Davis the advantages of establishing a permanent Commission,

to which should be referred the questions of a scientific character which might be presented to the Government. It was then thought that an Academy could not be established without exciting a great deal of unpleasant feeling. The Commission into which they were to draw associates was adopted by the Secy. of the Navy. The first intimation that Henry had, after this, was ~~obtained~~ (on a accidentally calling at the Coast Survey) that the whole matter was in the hands of Senator Wilson!

Agassiz arrived in Washington the day that I left - (Feb. 20th) - & instead of going directly to the Smithsonian, where he was expected, put up at Bache's - & did not go to Henry's till three days afterwards! The whole matter was concocted by the party assembled at the Coast Survey. When Henry commenced his long letter to me, he had not the least expectation of the bill passing Congress - not until the 5th of March did he learn that the bill had become a law. - So he was not one of the managers - I have

botanist with a wife & children, & he a
zealous collector for his own herbarium!
Indeed I will not have another botanist
at all, except as a student. I will
take the money allowed for a curator, &
spend it on the herbarium in the way
that it will do the most good.

The Smithsonian Herb. Paper was received
this evening - O. K.

May 2nd - I have been so much occu-
-pied with some urgent business, & with calls
of all kinds, that my letter was laid aside
two days ago - when nearly finished. Since
it was commenced ~~my~~ Jane has recovered, & is
now our housekeeper again - but rather feeble
as yet.

Don't you feel encouraged about the
war? Hooker must do something now
or be utterly disgraced. Matters look
pretty favorable at the south.
Much love to Jane - from your ever

John Torrey

Thursday Evg. April 30th 1863.

Dear friend -

Your kind letter of the 25th & a
proof of Dr. Hooker's article "On Species" were
received some days ago. Every time this
subject of species is discussed, we are left
more & more in the dark. I suppose we shall
be obliged to reduce, very considerably, the num-
ber of those which have ^{been} hitherto admitted.

I have, for many years said, that not a
few of the species that a long & patient study
have never enabled us to decide on with any
confidence, had better be ~~omitted~~ consolidated.
But there is the same trouble with genera,
& the higher groups. As intermediate forms
are discovered, our diagnoses break down.
To be sure we often discover new characters -
but these, in their turn will give way. I
don't believe there will ever be less difficulty in
defining our groups than we have now.

I had a comfortable journey home from Boston after I took leave of you all at Mr. Loring's. My short visit to his hospitable mansion was a very pleasant one, & I felt quite at home there. I did not intend that he should send me to the rail road station. The driver of the coach utterly refused to take any fare. At your next family dinner, remember me most kindly to all that highly esteemed circle.

What about that "Borate of lime" case? How did it terminate? Tell Mr. Dana when you see him, that the Marshall refused to pay for my expenses, & that I shall be cautious how I give gratuitous analyses or opinions to the New York Inspector of Drugs!

When I reached my home, I found Prof. Henry there. The first day's meeting of the "50," had taken place. We went together on Thursday, to continue the proceedings, & on Friday afternoon the Academy was fully organized & the members separated. Doubtless you have

heard the details from Appleg, Gould, & Pease. The meeting was very harmonious, - except on the first day - when, as I was told, W. B. R. stayed away about some persons who had not been enrolled among the coporators. What will come of the Academy will depend on the subsequent action of the leading members. There was much regret expressed that you were not present.

My Jane has been very sick with quinsy. She was in bed when I arrived & had required the attendance of a physician for two days. She is down stairs last evening, & sat up to-day - but is still weak.

Fast day was well kept to-day by church going people - but the masses, treated it as a holiday. From the time of morning service until dark, the Fifth Avenue has been crowded with carriages of ~~foot~~ pedestrians, going to & returning from the Central Park.

Austin has left me. I paid him in full yesterday, & am glad he has gone where he expects to do better than when he was with me. Catch me again taking a

I could not leave - They must have had
some warning of what the rioters intended;
if I trust the children were removed in time
to escape a cruel death - Before their
fire was extinguished - or rather burned out - for
the wicked wretches, who caused it, would not
permit the engines to be used - the northern
shop was brilliantly illuminated - probably by
the burning of the aged colored woman's Home in
55th St - on the Harlem R-Road Bridge - both
of which places were threatened by the rioters.
Just before dark I took a walk a short distance
down 5th Avenue - of seeing a group of rowdies
in the grounds of Dr. Ward's large of Superior man-
= sion, I found they had gone there with the in-
= tention of setting fire to the building - which
is filled with costly work of art! The family
were all out, entreating the scamps to desert -
or they were all Brachewidge Democrats & opposed
to the draft. They finally went off, but may re-
-turn before morning. I conversed with one of
the ring leaders who told me they would burn the
whole city before they got through. He said they were
to take Wall St. in hand tomorrow! He will be ready
for them at the pay Office of Treasury. Strange to
say the military was nowhere to be seen at any of our
investigation. There may be bloody times tomorrow.

New York, July 13th 1863.

Dear Doctor -

Thanks for the perusal of the letters
of Beutham & Dr. Hooker. How deeply
sore the Dr. is an Agassiz!

So that Mesembryanthemum of Fremont is
M. crystallinum. I could not make it out
with certainty - but it seemed to be near M. exif.
I have it from Euph. Exped. & from Parry.

I hope Hooker & Beutham will not merge (as ~~the~~
seems inclined to do) Amaranthaceae & Chenopodi-
into Caryophyllaceae. In many respects they
are, indeed, nearly allied, but if they all form
one order we may as well have only a dozen
or two orders with numerous Suborders. After
all it is a question of names of groups.

It is pleasant to have such good news of
Sir William - but I regret to learn that Lady
Hooker is poorly.

Secmann is a snob. I don't like him &
he has treated ^{his} friends shamefully.
What a pity they did not make the Darlingtonia
seeds grow in England! It seems that

only one of your germinated. I must inquire how Buchanan has succeeded with some that I sent him.

We have had great riots in New York to-day & they are still in progress. They were reported to us at the Affay Office about noon - but I thought they were exaggerated. Fresh accounts came in every half hour, & some of our Treasury officers (occupying the same building with us) were alarmed. I had made arrangements for visiting Eliza, at Sweden, this afternoon - but just as I was starting - Mr. Mason came in & said that he saw a mob stop two No. Avenue cars ^{to} take out some negroes & maltreat them. This decided me to return home, so as to protect my colored servants. I could go neither by the No. 10th Avenue, as the cars had stopped. Taking the No. 20th, I found the streets full of people - & when I reached the terminus (now 34th St.) I found the whole road way & sidewalks filled with rough fellows (& some equally rough women) who were tearing up rails, cutting down telegraph poles, & setting fire to buildings. I walked quietly along through the midst of them, without being molested. In

29th. They were numerous, & made, as I was hoping near the College, an attack upon one of a row of new houses ^{in our street}. The rioters were induced ^{to go away} by one or two Catholic priests, who made pacific speeches to them. I found some of Maggie's little alarmed, but not frightened. The mob had been in the College grounds, & came to our home - wishing to know if a republican lived there, & what the College building was used for. They were going to burn Res. King's home, & he was rich, & a decided republican. They were by degrees when addressed by the Catholic priests.

The furious bare-headed & coatless men appeared under our windows & shouted aloud for Jeff. Davis! - We have some of the most valuable articles of small bulk, all packed & ready for removal at a moment's warning. All the family will remain the whole night with our clothes on - for there is no telling when they may return. Towards evening the mob, furious as demons, went yelling over to the Colored-orphan Asylum in 5th Avenue a little below where we live - & rolling a barrel of kerosine in it, the whole structure was soon in a blaze, & is now a smoking ruin. What has become of the ~~two~~ 300 poor innocent ^{orphans}

will doubtless arrive, if we shall have
law of order. Thieves are going about in
gangs, calling at houses, & demanding money,
- threatening the torch if denied. They have
been ^{across} the street this afternoon, & I saw
them myself. Perhaps they will give
us a call: but we are all going to
bed in a few minutes.

This evening there was a great light match
of us - & I found, on looking with a spy-
glass, that it was from the burning of a fine
bridge over the Harlem valley - used by one
of the rail roads. There was some
cannon-firing in the 1st Avenue - with
what result I don't know.

The city looks very strangely. Nothing in
Broadway but a few coaches. Most of the
stores closed - but the side walks are full
of people - & not a few ladies are out.
It is half past twelve - & I must go to bed.

Thursday - U. S. Army Office. The cars are running this
morning - but the stores are closed in the greater part

Wednesday, July 15. You doubtless learn from
the newspapers that our city is still in the
power of a brutal mob. We were not mes-
saged on Monday night, & I slept well, partly
undisturbed. We are all quite calm, & are chiefly
concerned about our servants. Yesterday there were
cars only on the lower part of the 4th Avenue -
- all the others in the city, & the omnibuses were
withdrawn. I was obliged to walk up from
Wall St. - in the heat of the day. On reaching
home I found that we had been warned that
all the College buildings were to be destroyed at
night. Some of Maggie had some of their most
valuable articles packed - but we did not know
when to send them. A friend took me a basket of
silks to her house. I looked about to see
what few articles I could put in a small tra-
velling bag - but it was very difficult to make
a selection - There were so many (to me) precious
little souvenirs that it grieved me to think they
would probably be destroyed. "Then it did go
hard with me to feel pretty well assured that
the Herbarium of Botanical Works were to be given
up! Yet we had a reprieve. Just as
we were expecting the mob to come howling
along, a person came in with a confidential message
from a Catholic priest, that Gov. Seymour had taken

the responsibility of stopping the draft - of the
chief voters were to be informed of this mea-
sure. So we made up our minds to take
a good sleep. I was, however, wakened to
find that the mob had, at least temporarily, triumph-
ed. But we shall still have to furnish the
business with salt peter.

This morning I was obliged to ride down to the
office in a hired coach. A friend who rode
with me had seen a poor negro hung on a beam
or two before. The man had, in a frenzy, shot
an Irish American. If they immediately stamp
up the unhappy African. At our office
there had been no disturbance in the night. I de-
cided the people there were "spoiling for a fight."
They had a battery of about 25 rifle barrels,
carrying 3 balls each, & mounted on a gun-carriage.
It could be loaded & fired with rapidity. We
had also 10-inch shells, to be lighted & thrown
out of the window - likewise quantities of
SO₃, with arrangements for projecting it on
the mob. Walking home we found that
a large number of soldiers - infantry, artillery
& Cavalry are moving about, & bodies of armed

citizens. The worst mobs are on the
1st & 2nd. of 7th Avenue. Many have
been killed there. They are very hostile
to the negroes - & scarcely one of them is
to be seen. A person who called at our
house this afternoon saw three of them hanging
together. The Central Park has been
a kind of refuge to them. Hundreds were
there to-day, with no protection in a very
severe shower. The Station House of the
Police are crowded with them.

Walking out on 5th Avenue near 48th St.
a man who lives here told me that a few
minutes before, in broad sunlight, three
ruffians seized the horse of a gentleman's
carriage & demanded money. By whipping
up, they barely escaped. Immediately
afterwards they stopped another carriage,
turned the persons out of it, & then got
in themselves, shaking & brandishing their
clubs. So that conceivably have
not yet quieted the mob, & the soldiers
cannot be every where. Reassurances

of the 3rd Avenue. Pers. came up to breakfast. He had been up all night at the Gray Office - & had been drilling, under a U.S. Officer, as an artilleryman. They had 4 cannon & a rifle battery ready for the mob, at the office. I found a body of marines there this morning. - Just at this moment there was a false alarm. "every man at his post" The great doors were

slammed too in a moment. & the arms were seized. I was amused to see an old tar quietly light his match ropes, & swing it about to get it well on fire. He had the shells, & he thrown from the window, in charge. Quiet was soon restored. - Paving down the

Avenue. I saw the 7th Regt. at their armory, ready to go wherever they were needed. They will be as impartial as veterans. ^{Number of young}

Etheridge have been at the Tribune Office all the week, - ready for service. .

I shall try to do up some botany at the College to-day - as there is little to keep us at the office. We feel that our chief danger is past. We are now afraid only of the small gangs of thieves

Here I have given you a long account of what has been on our minds this week. I suppose you have been somewhat concerned about us. We were in the most dangerous part of the city - & have been kept more or less anxious on account of our colored servants, but I trust we shall not be driven from our home. A friend (Mr. Gibbons) who visits us almost every week, & is known to be an abolitionist had his house smothered up yesterday.

Lane is going to spend a few days at Springfield, with Miss Day. She will probably leave here tomorrow. Eliza is still at her farm. Give my love to your own good Dave. Ever yours

Abel Torrey

I have not a single carte de visite on hand - but I can send to Martin a large photograph, taken last summer, of that would be acceptable. Perhaps I may have some small ones taken in a few days. The artist spoiled my best negative

New York, Dec. 22nd 1863

Dear friend - Yours of Dec. 14 of 1963 came to hand this morning.

I sent as I had arranged to spend most of the holidays with you, my worthy assistant, Mr. Mason, came to me, & said that he would be much pleased to spend just that time with his relatives in Philadelphia! Now as Mr. M. has rarely asked for such a favor, & his heart seemed to be set on this little excursion, I could not refuse him, notwithstanding it deprived me of a like pleasure with you. I had got through with several troublesome jobs, & my electing for Hood was about ended, so I must, very unwillingly delay a little longer. You will, I suppose, go to the meeting of the "50" at Washington. - I must be there to report on the Bank-see

business, & on some other matters referred to me. As soon as I returned from Washington, I hope to set my face toward Cambridge, & have a pleasant visit with.

Rood was elected yesterday! All the trustees were present, with the exception of Dr. Spring, who is too infirm to attend. Twenty members voted. Rood had 12 votes, Peck 8, & Barnard 2. This was at the first ballot - which decided the matter. The meeting was called to receive the Report of a Committee on Credentials, - Rutherford prepared it, - a kind impartial statement. We were at first disposed to have another meeting next Monday - & to vote at the regular meeting Jan 14th - But after some discussion, it was resolved to read the principal testimonials, & proceed to elect at once - a decision that none looked for at the beginning of the meeting. Rood's friends were rather afraid to venture, but

I ascertained, by speaking to some that were thought to be Peck's friends, that there was little risk, we went forward. You cannot think how much I feel relieved. The greatest efforts were made by Peck friends to secure his election - & a week ago it was thought he would succeed. Now we have a real genius, & a hardworking man, who is also a first rate teacher.

The trunk arrived Saturday night before last - all right

It is time to break off. & I must hustle up town - Give my love to Jane, & tell her that she has acted wisely to omit the usual Xmas party. - All will depend on necessity - She must take good care of herself this winter. I will write again before going to Washington -

Yours ever
John Loring

Ch. S. Gray Office 3 PM
Nov. 14 1882

My dear friend

All this day, since breakfast
I have been incessantly pressed
with call, & with office business -
Just now I broke off, & have locked
my door, so that none can get at
me. Since I commenced my letter
I have had two attempts to get in -
- but I "didn't hear them" -

I wrote to Dr. Engelmann, & sent
him what he wanted immediately - not
without hope that I could put up for
him all the Conifers in my hands
that I think may aid him in pre-
paring a full memoir on all the
N. Am. (call Mexican) Gen. & Sp. of the
family. - I promise you that
the plates of *Juniperus* shall
be dispatched tomorrow. They are ready

I should be right glad to ^{get} those
Maudie Plants - on whatever terms
you are willing to part with them
- I will pay at once -

That specimen of *Naias* is jolly -
I thank you for it. I shall
take it home & compare it with European
Specimens - this wof.

Are not the results of our late Election
most glorious? I do hope that
the poor rebr. will cave in soon

Maggie came home yesterday
after an absence on the Pacific
of six weeks or more. She is
much improved in health
Eliza will come down in a few
days & then we shall be all
together once more -

I am sorry that your good Jane
did not improve faster. Give her
my love. I remember me most

kindly to Wright - whom I greatly
desire to see. I keep his photo-
graph in a conspicuous place - so
that I am constantly reminded of
him - to say nothing of the hundred
things that bring him before me while
engaged in my botanical studies;

Don't forget to present my kind
regards to Mrs. James. - I shall
not soon forget the pleasant days
we spent at her house -

Faithfully yours,
John Loney