Mission Institute 2 June 1840

Dear Sir, If you have received my previous letters you are aware of my strong desires to obtain the numbers of the Flora. You may recollect that I once wrote requesting you to send them out by some conveyance, & I would remit by the first conveyance. Not receiving any answer I requested Dr. Nelson to leave $10 with you. He left it & a letter for you with I. S. Taylor (Brick Ch. Chapel) I was sorry he could not bring back the books. At length I was rejoiced to learn that a kind & accommodating friend would visit N.Y. & would bring back my long expected treasure. Only one objection occurred – he would not return till in May & for a part of the season I must use my hated Eaton. ~~I waited saw Dr~~ I sent. While waiting his return, saw Dr Mead & in his numbers rejoiced over my own. My friend returned last friday night & Saturday, full of impatience I repaired to his house – He had nothing for me! You may judge my disappointment. My first impulse was to write you at once but reflecting that a letter written under a feeling of disappointment is never an agreeable one I have waited till now. I know you too well to attribute your silence to indifference or neglect. Probably my last letters reached your house while you were absent – or – but I try in vain to guess the reason. It may seem to you that I am unreasonably anxious – perhaps so, but probably not more so than you would be in my case. I would gladly take a journey of 40 miles to obtain the Flora. I see absolutely nothing of a scientific nature except at Dr Mead's. I live 40 miles from him & we see each other rarely. I have been busy making arrangements for a trip tomorrow, 15 or 20 miles down the river for plants & must I fear delay the rest of this till my return.

3 June. The weather is not very favorable & I defer my excursion to another week taking in lieu of it a ~~excurs~~ trip to a point on the river about 10 miles from here. I think I have now ~~bro~~ brought to perfection my port-flora for collecting plants. I have just

just completed a contrivance for strapping it to my shoulders which is so small that I can put it all into my vest pocket. This morning two letters were laid on my table; one was from Dr Mead. It informed me of Dr Grays translation from the quasi professorship of Michigan to that of Harvard, & also of your removal to Princeton. This will I presume prevent a serious delay in this. This is essential as I expect an appointment from government to an Indian School about 30 m. W. of Prairie du Chien before I can get an answer from you. I wish to take measures to get a box from N.Y. before I leave civilization & in it I wish to get if possible ½ a ream of herbarium paper. I do not feel safe to send ~~on~~ for things till I have made sure of going. I suppose I must be there early in Sept. I have thus far made much less progress in botany than I expected. My duties occupy but 8 hours of my time but it exhausts all my energies. Hence I make apparently no progress except merely the mechanical part of collecting.

6 June. I will now try to get off my letter. My excursion was a circuit of about 20 miles & very successful. I found a grand locality of Nelumbium, not in flower yet, I think, pentapetalum. Found Clematis viorna, Diospyrus, Amorpha fruticosa, Gratiola missouriana Gymnocladus, Ruellia cilliosa Euonymus atropurpureus, &c &c.

I saw a letter from Dr Gray to Dr Mead, in which he said he sent to Europe all the plants he could spare. Considering your interests united I resolved to make out a hundred or two of plants for you. Dr Mead will be sending some & I will send them at the same time. If you wish some Nelumbium I wish you would tell me how to put them up. They will be in flower I hope when I get your answer. I entreat you to write with as little delay as possible as I fear I shall be waiting for your answer. I wish you to answer these questions. Did you get the $10? Can you spare me herbarium paper of the same size as yours? At what price? Can I get both that & the Flora by writing to N.Y.? How? I think I shall have a box sent from Wilde & Merriams, Looking glass Merchants 134 Chatham St. ~~Ne~~ I hope my residence among the Indians will not be without results of some value.

I expect an opportunity to go out west during next summer with a body of troops towards the Rocky Mts. I cannot bear to think of any thing which ~~shall~~ might deprive me of the use of the Flora all next year.

Did I suggest to you a correction of Anemone Pennsylvanica? I have seen great quantities of it this year. I find the specimens all similar. Every one has a 3 leaved involucre within it always 3 1-flowered peduncles one has no involucel & blossoms much earlier than the other two which have each a 2 leaved involucel.

Shall I send you the fruit of Porcelia triloba? Shall I slice it & dry it or dry it whole or make a pickle of it or embalm it in sugar? Dr Mead cannot easily get it for you. I shall leave I expect before it is quite ripe. Did you receive a geranium from me last year? Was it G. Maculata?

I have now written all that I think will interest you about botany. I shall save your time & my own by passing by my personal affairs in silence It would be a great gratification if I could have every white spot in your answer filled out by Mrs T. & the children. I have now sent you 6 or 8 sheets some quite full & have never yet received a line. Can you tell me the name of the red eyed locust which abounds so this year. I have saved a hundred or two. If you can use them as specimens I will forward them. Yours Respectfully

J T Holton.

Direct "Mission Institute
Quincy Ill."

Prof. John Torrey M.D.
Princeton,
N. Jersey

Recd. Dec. 18 1t

after Nov 18

I would be a very great
I will write where you

Prof. John Torrey M.D.
30 McDougal st
N. York.

J. T. J. [illegible] left the city Dr Chilton
[illegible] address [illegible]
[illegible] forwarded.

Hillsgrove 30 March 1841

Dear Sir

Having been disappointed in an answer to my communication of last November I take a more certain mode of reaching you tho' it is still somewhat doubtful whether you ever see this. I hoped to obtain 3 or 4 more Nos of the Flora (I have 1 & 2) with the spring goods from N.Y. I am sorry now that I did not succeed, as I do not know that there will be so good a chance to remit this fall as that which now occurs. The person who calls with this can tell whether it will do to try to send them now this year. If you are willing to send them & he can get them to me I would like to have you send Part 3 & those later. If a part is in the press & ¾ printed I should like the sheets - ~~sending~~ saving the rest ~~by mail~~ for another opportunity - ~~sheet 2 or 3 sheets at a time~~, ~~I know that the risk will be great but I want them~~ (Those I have are of little use till at least I have all the polypet. exog.) I have had reason to think differently since. - 17. May

Have you got a supply of paper for your herbarium yet? Could you spare ½ a ream? At what price including glue or isinglass? I ~~may have~~ expect some boxes sent me from Wilde & Merriam's 134 Cholham St. I ought to put up 500 plants this winter if I am prospered this summer, all will be confusion unless I do. I would be glad if you would forward to me the last proof sheet of each part when you are through with it that I might know how you progress. Do you know yet when you will finish the Phanogamia? I have ascertained from the Methodist papers that you are still in N.Y. but have heard nothing else of you & nothing of Dr Gray. Was my Beck's Botany left at your house? Is so I should like it at the same time with the Flora. If not it is lost. I hope you will write me soon. I think Mrs T & the children - young ladies I suppose I must say, now two more years have been added to their stature, - will be willing to aid in filling it. I do not like to trouble you with more but if you wish to know more I refer you to the accompanying letter written to Mrs T. but directed to you I.F.H.

over

Direct Hillsgrove McDonough Co Ill.

Did you receive a communication from Dr Mead, Post-Master Augusta Hancock Co Ill.? Dr Beck received some assistance from him & I think he might be of some service to you. He has no late works - is confident he has some plants not described in any work he has. If I had time I would go & see him before sending to you - he has never seen your Flora - nor Beck nor a late edition of Eaton. I believe he assisted Eaton some. I will carry him a part of your Flora - I know of no other person in this region who has even a smattering of Botany - Dr Mead says he finds many sea side plants on the salt licks here. I think he said he would be happy to aid you if in his power.

17 May My letters have been returned upon me but another opportunity occurs & I now send them. I must content myself with Eaton this season but I hope to receive a package from N.Y. early in the fall. I feel the need of your flora more & more - I can scarcely be said to study this summer. I take an hour or half a day from my work analyze a few plants press them & pack them in a box for future leisure. I can do no more for I am constantly from home. Mr Merriam will I suppose answer a letter sent with this the day he gets it. I shall wait a week after receiving his reply, for yours before answering his commat ~~tio~~ your family make me out a letter in a week?

Yours truly I J Colton -

Prof. John Torrey MD

My dear Sir, Mission House Quincy 15 Nov 1841

Having an opportunity to send by the Venerable Dr Nelson, I take the liberty of addressing you a hasty line. Dr Mead has left with me a package of plants for you — I am sorry the Dr cannot conveniently take them. I hope to send them soon. I intend to send with this the seeds of Anona triloba. You wrote for the fruit, Dr M was unable to procure either that or seed. I wrote to a friend who took the trouble to procure seed. Had I known it I could have obtained the fruit by going a dozen miles for it as soon as I came here but all told me it was too late. If seeds will not answer your purpose I will take measures to have the fruit next year but I must make "preserves" of it or take some course to prevent its speedy decay. A lady has just sent me the 2 receptacle's of a Nelumbium I suppose. I have tried hard to get the flower. Expect (D.V) to succeed next year. Should you wish it I will try to send you some — w'd send a receptacle but think probable you have it. Dr Mead will spare no pains to serve you — Any thing which I can do will be done cheerfully. He tells me he intends to get the Flora as soon as he can remit east — no easy matter here. I shall expect Dr N. to leave $5. or 10 with you, but do not wish to have the flora sent by him. I must have it at all events

however by next spring. I have had the offer of a horse & my expenses borne in a trip over the Rocky Mountains next year but felt obliged to decline on account of my ignorance of plants this side. I have the same offer for two years hence but think it too far ahead. Think I shall have an opportunity of visiting the sources of the Missouri a year from next summer. The summer past I have had poor opportunities for study. I have not touched the grasses & scarcely the compositæ.

My health is not so much improved as I had hoped. I have gone to teaching again because I began to fear I never should accomplish any thing for the Savior if I did not. I had rather teach here one year and die than to live to the age of Methusaleh such a life as I have been leading. I do not mean to throw myself away however though in the present emergency I work rather hard. I hear 5 recitations daily of 1 hour riding 8 & 12 miles each day Saturday excepted.

The same necessity which makes me work so hard makes me work for nothing; i.e. in addition to my board & some clothing some $20 or 25 for 6 months. This was all I asked. They promised more if in their power but it is doubtful whether I get even this. This arises from the poverty of the Institute. If Christians at the East understood the nature of operations here they would not let be so a month. There is not a teacher here so radical as the average

of the domestic missionaries around us, & but few of the students. I wish the churches in N.Y. would engage some judicious person coming west to spend a week here, to become acquainted with each teacher & examine each pupil, enquire into receipts & expenditures & also into the privations both of teachers & students & make a report. Jo Smith, the Mormon prophet, ~~recently~~ recently bought a piece of land adjoining us - in a direct line between the two Institutes, 160 or 200 acres for $3.000. It was so, obviously impossible to raise money to secure it that no attempt was made. It might I suppose now be purchased for that sum.

Want of time compels me to close. I have been somewhat disappointed in not hearing from you directly. have heard from you through Dr Mead. Give My respects to Mrs & the family.

Respectfully Yours

J F Holton.

I hope you received the letters I sent last June to yourself & family.

Dr. John Torrey

Corner of Prince &
McDougal Sl N.Y.

To introduce
Rev Dr Nelson

Have you Herbarium Papers? How much will a 1/2 ream cost? I cannot get any yet while,

Dear Sir

[illegible]

I received a line from Dr Gray a few days since in which I hear from you. From a [illegible] in his letter I am expecting one from you soon. He wrote me that he was completed an extension arrangement here [illegible] which he is eminently qualified to perform [illegible] with species. I hope your Flora which you intend to [illegible] this spring will [illegible] a place [illegible] the Natural System. He is a fine Christian [illegible] reader of the Greek Testament — [illegible] Dr [illegible]. I learn from [illegible] seeds [illegible] $10 with a forge [illegible] friend who [illegible] them [illegible]. I wish you had dropped the whole into the P.O. [illegible] you [illegible] receive [illegible] I am happy that I have the prospect of obtaining the F. so early in the spring. If I [illegible] my Beck's Botany at your house I should be glad to get it [illegible] equal. I have not succeeded in coming from [illegible] either directly or indirectly [illegible] the [illegible] Dr Asa Gray has his Botany reached a second [illegible] I have [illegible] where I can [illegible] copy [illegible] read [illegible] figures.

The Professors & students have met to deliver a course of lectures this summer & I would not be able to make out a course, [illegible] attempt to put together parts of Gray's Botany, [illegible] by rounds on. [illegible] ication I am to use is that of the Flora & I am desirous to know now for, in the unpublished part, it will deviate from Lindle. I ~~do not~~ suppose I must use Lindley where I have not the Flora. In the Cryptogamia will the Flora correspond nearest with Lindley, Bridel or Burnett? If I could have access to Burnett it would save me great labor in collecting facts. Could you spare it for the whole season, [illegible] man who rings out the Flora would bring it, I would be glad to borrow it & would send it back by our merchants in the fall.

I do not by any means consider my situation here permanent. When I [illegible] I expected to stay 6 months & to receive my board, a suit of clothes complete & $2 in addition to the 10 left with you together with some other matters worth perhaps $5. more. For board I take my chance in the room of a student & it proved costs 8 cts — good board in Lowell costs $2. You may judge from this now we live. If the $10 & the $5 I have received as yet & $2.00 I now find I must remain some 10 months in all. I have proposed to the Supt $ [illegible] by levy to support me here. In case they do not, as is most probable I shall leave here [illegible] as I can

be spared. Should you know of an opening where I could be useful I would be very glad to have you take such steps in relation to it as circumstances may dictate.

As to my health it is decidedly improved. I teach about 3 hours a day — Greek Comic sections. The rest of necessity spend much time besides in study, but I have to be cautious. I rarely preach.

I shall now close though I hope to have time to add a few lines either on this or another which will not cost any notice from you, unless you choose to read them by way of amusement. I send you with this more Papaw seeds as I am not certain whether you received the others. I meant to have sent the remainder by the same conveyance by which I forwarded Dr. Heads package but I left it with a man in Quincy & it was [illegible] I knew it. The circumstances in which I am placed are the only apology I can offer for troubling you as I do. I would not otherwise do it as I have little or no [illegible] of repaying all your trouble & kindness.

Mr Lucius Kingman who carries this will not be able to call on you within 10 days — he may stay 20 days. If the package is left at the Astor House Care of John Tillson & Lucius Kingman, he will take it

Mr Kingman can be
seen at [illegible]

Rec Aug 29

T N S W - 4 Principal Meridian
28 July 1843

My Dear Friend

A rainy day a log cabin a mussed sheet of foolscap an old pen & an inkstand in a state of almost utter exhaustion are the facilities I have for answering your letter. I received it a week since. Had it not been a paid letter I should have had it in April - I have purposely delayed answering it till I had seen Dr Mead. I was surprised at its length. It was more than I had dared ask from your pen in answer to all ~~your~~ my letters to you. Had I rec'd a few lines from you & a letter moderately filled by Mrs T. & the dear children (I beg the young ladies' pardon. I suppose now they feel above being dear children). I had entirely despaired of a letter from you & but for the inscription on the second ~~sic~~ of the Fl. "from his friend J. Torrey" I should have concluded that I never had been entered on your list of friends. As it was I was planning a few weeks ago to present myself at your study door ere this to demand the grounds of my proscription. I wrote to Dr Gray some time since sending a miniature specimen or two & offering him & you whatever I could do for you in the swamps of the Homochitto I dared not do it to you. I did not expect an answer unless something were wanting, but if he wrote he wrote too late

A chapter of autobiography has its place here. My year at the Institute expired in October 1842. It was a pleasant year & a profitable one one though a very debilitating one to the purse. Stuffing my pockets ~~for the~~ with testimonials, for the first time in my life I proceed to Natchez. Here I found prospects so poor that I was glad to engage to teach 9 children at the rate of $400 & board. Severer service I never entered - My sphere of usefulness was limited to my school - The accursed schism in the Pres. Ch. cut me off from preaching to the blacks & I fear but little good ever arose from preaching to slaves. My school tho' easily governed was the hardest to be taught I ever knew. My labors knew not the remission of vacations nor the regular period of school hours. My health was unequal to the unusual task. I started for N. York, to go by sea from N.O. but arriving at Natchez the prospect of Quarantine, a letter I received from Illinois & other considerations led my steps this way -

Meanwhile in Natural History particularly Chemistry & Botany I have not been idle. Great indeed have been my regrets that I did not get the flora by Kingman. Even the two parts I had were of increasing value to me. Having now heard from you I shall I hope soon obtain them.

I brought some spare specimens from the south & I have now opportunity to collect more than I can use but I do not know how to aid you. Many plants have entirely escaped my notice - many others including all grasses I do not know. The few cryptogamia that

grow here are all unknown to me. This results from partially exploring N England N Jersey N.y. Mississippi & Illinois without being confined to either region so long as to have examined any but ~~its~~ interesting & easy plants. But I am promising when I get the flora ~~the~~ that I will be more thorough with Compositæ & other large families & large genera. Silphium laciniatum is abundant here. The plane of the leaf often varies many degrees from that of the meridian but its tendency to coincidence with it can not be doubted. I waited to collect some seeds from this curious flower ~~before~~ to send to the Patent Office at the same time that I corrected the error which they put in circulation there. In my haste I then omitted it entirely. We have one or two other silphiums but I do not know much about them nor whether they have polarity. The leaves of S. laciniatum both radical & cauline (not "young tufts" only) certainly have. In a prairie the plant appears much more abundant E & W of you than N. or S. Its polarity is of little use. It does not grow in forests. In the prairie more distant objects guide the traveler in the absence of heavenly bodies

Since being out here I have preached but little. I would feel it a great privilege to live by the gospel. that I might make every thing else subordinate to it but I never yet have received a dollar for preaching nor do I expect to while I am at the west. Consequently all I do in preparing for the desk I feel to be a sort of voluntary contribution to the cause of Christ

I made some attempts to obtain the charge of 4 congregations of slaves but ~~after~~ as I said my ~~new~~ heterodoxy could not be tolerated. One clergyman who treated me very kindly in other respects preferred to have his negroes sleep under a printed sermon prepared by Dr Payson for a refined congregation in Portland rather than have a man talk to them who did not believe them liable to damnation for Adam's sin. I have no small doubts of the utility of preaching to negroes without first emancipating them, but if it could do good no employment on earth would have suited me better.

I fear I never shall make a preacher. True my brethren here & their flocks have been pleased to compliment some of my performances very highly but in ~~some~~ fact I am not naturally eloquent & I do not often feel that I have done my subject justice. There is no demand for ministers in Illinois unless they bring the means of support with them. Even then were our country intersected with canals like Holland I would recom-

mend them to buy a boat to live in. There is but one settled bishop in this presbytery—

I am now past 30. A few ~~years~~ weeks ago I determined to adopt plans which would secure me a home should other means fail. I think of buying 128 acres wild land at Hillsgrove. If no opening occur within 3 years for me either as Pastor or Professor (& I am out of the way of either at present) I intend to make a farm of it & try to get a wife. In that case I should be a dilettante preacher & naturalist & a bona fide farmer. This would be a field of much real usefulness but much more narrow than I am yet willing to accept but I am determined to have a family & not rove all my life. Were you in N. York still I would try to make arrangements to find employment in the city & teach & live in your family hoping that the tuition of yourself & Mrs T would fit me for something better than a farmer. After a month or two of manual labor which I need after my confinement at the South I intend to go to teaching again. A situation in Platte Co Mo. has been proposed to me. I could probably save about $200 of my salary. I do not think I shall take it.

I now turn to your letter. My interest in the Med. School is undiminished & I have often enquired after it & its rival. I think you have been very kind to Dr Grant. I hope his son's affection will repay you. If however he is the lad who was once out in Illinois I think some grace will be necessary to render him a "wise son".

I sent for the Flora this week & for a half ream of Herbarium paper if you can spare it. As you have placed the $10 to my credit with W & P. you will please have them charge the Paper to me & credit the same to you. I am sorry I forgot to send at the same time for Dr Grays new work. You dissuaded me from buying his previous work till the 2nd edition. I hope you will find a few copies of your report to dispose of. Your plants from Mesopotamia reminds me of mine from Beyrout. They bear an inscription from "Prof. Moore to Jos Constable Esq to Dr Asa Gray to Wm J. Sullivant to Dr S B Mead to Rev S. F. Holton"!! And all this way they have travelled without labels! If I can not get you to name them otherwise I shall add "to Dr Torrey" & send it along. Dr Mead wrote in March. He was a blazing Millerite! Passover passed as you are aware without the ~~some~~ crash of worlds & so did 23 Apr. These disappointments sobered him & one or two doses I gave him may have aided. but he still wants to see as many plants as possible before 23 Sept. Dr M. is a splendid species

hunter - nothing can escape him. His diligence on the eve of the world's destruction shows the ruling passion strong - He has been astonishingly industrious for two years - You probably recieve localities from him. He has no idea of Structural Botany knows nothing of the Nat. Syst. before I showed him Lindley. He now keeps his plants in piles each pile corresponding with a no of your Flora & arranged exactly with it. He is a man of very patient research & the best Greek Testament scholar I know. What do you say of Liebig's Animal Chemistry? I have read that & the Agricultural Ch. I think he has opened a wide field for you but does he not speculate too far - What do you think of Kames? I have scarcely been able to examine

it but think it better than Turner even.

Do not feel bound to answer my loquacity but in the briefest style. I am anticipating a speedy answer & hope it will reach here before I leave this region - I hope you will be obliged to call in Mrs T's aid to make out as full sheet as before. You have no idea how much pleasure it gave me. If Herbert Gray has lived through this past July without a return of the attack you will have the strongest hopes. I hope it has proved so. You did not mention Margaret. I hope she is ~~been~~ well - I am sorry I have forgotten their Aunt Jane's name - Is she still at Madura? I am forming for my brother just now & I close the principal part of this this 4 August Yours Ever J.F. Holton -

P.S. Dr Mead has sent you some numbered specimens from me & some others I believe. Silphium perfoliatum I have just found - I will save some - & I think you will get this before Mr Tinsley calls at W & P's.

Direct to Hillsgrove McDonough Co Ill.

McDonough Co 8 Aug 1843

Dear Sir

I learned yesterday that I should have an opportunity to send you some plants. So I have gone to work to day & got together a mass of stuff chiefly for the sake of authenticating specimens for my own herbarium & partly to give you a sort of synopsis of what was growing to day in our vicinity. all these growing within a circle of a mile in diameter & many more. I have gathered to day like an ox - without looking to see what I was getting - perhaps you would say like an ass. I have not time to compare them with descriptions nor even to look out their names. I have but 3 days to dry them in & therefore no time to lose on examining them I would thank you to minute their names opposite to their numbers on this paper & throw it into your "unanswered portfolio" till you can copy it off in a letter to Dr Mead. P.S. August to Hancock Co Ill. He will know my address - (you will not know it at the time you see this) & having an interest also in these same specimens will transmit a copy of your verdict to me. I mark each specimen with 1FH. They were all gathered today in a spot which you will find on a sectional map of Illinois as "Section 30 of Township 4 N 3 West of 4th principal meridian" mostly from low prairie land -

No1 Vernonia
2.
3
4
The 3 ~~first~~ grew close together
No1 had been in flower some time
2 opening 3 not open - these grew
close together in time of drought
1 in ~~dr~~ the dampest place - swamp in
wet weather, 2 & 3 on drier ground
4 just open - 30 rods from the other
2½ feet
5
Subject of debate between me & Dr. Head
6
Branches - 2 feet.
7 - - - - - - - - - 5 f
8 Asclepias 3½ f
9 - 2 feet
10 4 f
11 4 f
12 7 f
13 Eupatorium
14 Silphium perfoliatum
15 Gymnocladus canadensis leaf
used mixed with milk & honey to poison
flies - called coffee nut.
16
17 "Black root" used as cathartic
18 Monarda
19
20
21 Nigger head - Earlier than the
prairie species which has longer & narrower
more pendent rays
22 Helianthus 5 f
23 4 f
24 6 f. A matter of 3 years doubt of
Dr. H. & myself Hyssopus
25 - 5 f
26 Physalis
27 Lythrum
28 Lilium smaller than
L. canadense - not compared with Eaton

I had hoped to get more but have scarce time to do these up & have no paper suitable for wrapping My last attempt to get my flora proved a failure - I will try again this fall if possible

I am sorry to close this in such haste

If you have not written me & intend doing so - you may mail a letter to Hillsgrove & it will ultimately reach me -

Dr Mead is well -

Respects to your family

In great haste yours

I F Holton

P.S. I am sorry to find I have omitted some

that I intended to send the none I believe of the unnumbered specimens – I am in too great haste to remedy the oversight.

Dr John Torrey

to be left with a package
at Dr Chiltons Broadway
opposite City Hall –

Augusta 13 May 1844

Dear Sir

In conjunction with Dr Mead I will venture to tax your patience with another letter. Knowing the many calls on your time I do not wonder that my last letter failed of eliciting an answer. I suppose the State botany was pressing you by the time your lectures were through & perhaps it is useless to hope a line from you till after the Report & the No of the Flora long due shall have issued from the press. Meanwhile (Deo Volente) I shall locate myself near Quincy & devote the summer to Theology Botany & Greek. I had thought of delivering a course of lectures in Quincy but have concluded it would make too serious a draft on my time.

Had we text books out here I could easily get a class but with Comstock's Botany — bah!

I am expecting my Flora out here with some plants for Dr Mead from Barratt & others soon. I have pressed nothing this spring. Think I shall begin next week & pursue it more vigorously than ever before. I intend to use a portable press wh. I can carry in a buggy

My future plans are still very vague. The west is no place for me as yet. I might remain here 10 years more & not get settled. I know of but one minister installed over a church. I find openings enough to preach gratuitously. The mass want a cheap ministry. I have bought 8 acres of prairie adjoining the Village of Hillsgrove McDonough Co & 40 acres of Timber. Should I obtain the means in future I intend to put buildings on it & rent it, unless something should induce me to retire to it. This fall or next spring I intend coming East when if we live I hope to see you. Will you please look at the plants I sent you in the Autumns of 1842 & 1843 if you received them & communicate their names either to Dr Mead or to me at Quincy

Yours truly J T Holton

Dear Kind friend Theopolis Sept 1844

your letter came to hand the morning- I do not design sending off an answer to it at present but I prefer beginning an answer while my feelings are fresh. I feel very grateful for your attentions & sorry that I have failed of receiving any of your letters except the one through Dr Mead.

You express surprise that I am not in the regular work of preaching- I am sorry to inform you that the want of educated preachers is no way proportioned to the need for them.

There are in this Presbytery 16 Preachers- Not one receives a comfortable support- I think only one is paid by his people for preaching all the time & only about 8 are receiving any thing from any congregation for their services. My gratuitous services I may say without vanity are in good demand & not unacceptable even at Amey- the Mercer street of the west. But nothing was ever offered me for preaching but once. This was $2.50 for traveling 100 miles & preaching a sabbath- This I declined receiving myself but gave it to the Institution in which I was laboring.

My plan now is to give the bluffs & bottoms a final securing in the spring & bring the results to you- to seek employment in teaching or any in the city next summer & after that follow the leadings

of Divine Providence in the Fall. This seems to me the course marked out for me by my Master at the present time.

Till recently more important studies have crowded out my botany. Even the scant time I have judged proper for it has often been necessarily devoted to Theology; but now the tables are turned. I am delivering two courses of lectures & from morning till night almost every moment is devoted to botany. I now do not preach half the time half finished sermons are left to the mellowing influences of time & botany takes the place of theological study. the classics & often intrudes even on my meals. I never was harder pressed for time than now. the lateness of the season admits no delay.

I feel that I have done your Flora some service in awakening the energies of Dr Mead. He had done absolutely nothing for some years & when I found him had not probably a dozen specimens in his house. I fear I have done him a great injury for now every hour & every dollar he can command goes to enlarge his collection. his first specimens were wretched but now they are really beautiful. equal I fancy to Short's. Something here is owing perhaps to my suggestions but much more to remonstrances of Dr Engelmann. who once told him very kindly in his peculiar english that the Carices he sent

him were "so good as to do much nay"

I fancy I have now about the best press in the world. I can pick it up easily with 200 large specimens in it & 1600 thickness of paper & carry it to my carriage & keep the plants pressing all the way home.

The season has been unfavorable for collecting on the bottoms. I have not felt that I could spare much time for collecting — my collection has been more wholesale than I like. I hope to do better next spring

I am sorry to hasten this off as I do but I find a chance to make another attempt to get my Flora & I think I will send this by the same man. I have asked him to apply to you in case he had difficulty in getting it. In case it is necessary I do think it is of importance enough to trouble even you. I feel assured you will not hesitate to do me that kindness.

I am sorry I have not an opportunity to put up some plants for you.

It is very late & I must close. Remember me cordially to Mrs G. the "young ladies" & Dr Gray

Yours I F Holton

Quincy 5 Oct 1844

P.S. The surest way to reach me will be as before through Dr Mead

Dr John Torrey
Prof. Chemistry
Coll. Phys. & Surgeons
New York

Favored by

Mission Institute 10th Feb 1845

Dear Friend

I take my pen to write what I hope may prove my last letter to you before I am permitted again to see you face to face - a privilege I have long & earnestly desired. It is necessary to trouble you a little in order that my springs labors may be of as much use to you as possible. One thing only requires immediate attention. You know I have but two nos of the Flora. While you are reading this, Cowperthwaite of Phila is looking up a box of books for Newton Flagg of Quincy. Now your Boswell can run down to W & P's & get a line to Carey & Hart or whoever the Phila men may be that will cause them to immediately deposite in Mr Flaggs box at Cowperthwaite's the deficient nos. If two complete setts also are added I will either sell them here, or bring them on when I come. I am quite sure of selling two setts would try to sell four. The remainder of this letter you may read at your leisure.

— — — — — — — — — — — — — — — — —

I will now state my plan of operations succinctly as possible. Last year I delivered two courses of Lectures on Botany - one of 33 lectures at Theopolis another of 12 in a school in Quincy. This winter I am engaged in a course of Lectures on Chemistry to adults some 4 or 5 being College graduates

The course is 18 lectures of from ½ to two hours each. Some of these same persons insist on another course on Botany in the spring. This if it takes place will consist of from 15 to 20 lectures of 75 to 90 minutes each. In addition to all this I am teaching where I taught in 1842. My lectures have cost me incredible labor. My last great difficulty disappeared last week by coming to an arrangement of organic substances which if not perfectly satisfactory I am willing to adhere to.

The consequences of these labors are

1st & least My Violin hangs untuned these many weeks.

2nd My correspondence is given up

3rd My historical reading abandoned & general reading nearly so.

4 My Relatives remain unvisited.

5. My Theological reading abandoned, Hebrew almost suspended and five sermons on which I had bestowed great labor all left unfinished on the stocks.

6 My health somewhat endangered by close application.

Last & worst my spiritual health seriously impaired

Weighty reasons alone could justify the 6 first & no reasons the last. My course at Thaxton was a matter of necessity being compelled to teach without sufficient text books. Enthusiasm carried it beyond proper bounds. The 1. lectures in the school cost me nothing & netted me the enormous sum of $12.! My engagement at Mission Inst. was the result of their necessities Prof. Sturtevant's ~~business~~ pecuniary affairs calling him East. The Chemistry Lectures were the result of solicitation of injudicious friends & the need of

funds to return East. The story lectures will only tie me to one place for weeks when otherwise I would be collecting plants from more scattered localities. Soon after they are finished I intend to go to St Louis & traffic with Dr Engelmann for whatever St L plants I can get from not & taking also a package of plants from him to gray & so with Dr Short, McAlmy & the Moravian botanist & possibly Sullivant & Darlington. The capital on which I start will be my own duplicates a large stock of Dr Reed's (who now begins to suspect the world may stand a few years longer) & whatever I find growing in the spring. If whatever I bring you will aid your Flora I shall be well satisfied. But why do I come east? Because there is no room for me at the west. This Presbytery cannot support the married preachers it contains still less let the single ones settle. I believe I am an acceptable preacher, I interest & can secure audiences & invitations, not to say importunities, for further appointments & in one case had $2.50 given me for traveling 50 miles & back & supplying a Sabbath. This is the only offer of money for my services I ever received & that I gave away, that no Campbellite might make my glorying void. But I will give you my reasons more in full when I see you. Suffice it I am satisfied that a year at the East is necessary to my usefulness at the west.

And what am I to do east? I do not know. Perhaps I may teach, indeed I suppose I must do so. I want to consult you on this point but I cannot put you in possession of the facts on which to base a judgement without seeing you. I will do so as soon as I am out of this Illinois treadmill.

What I wish of you now is to write me, as soon as you find it convenient, a letter of instructions by which my labors in Illinois this spring & on my journey & in my stoppages (of a week at a time) I may be of the most service to you. I do not know whether to see Sullivant. It would delay me a week besides the stoppage but would give me a first rate chance to botanize on the Canal. It mainly depends

or whether a visit to Winnsboro would be expedient
for your health I cannot say. I would like to know that
actual time of sickness on Wednesday, that we may regard
summer. I think you have time enough to calculate before
I leave. Respecting Inflation Plans although
Affairs Lantern Scarcity hopeless from
all pressing matters is enough for in perhaps
many months. Give my respects to your
the first letter you will write after season
Sam to get the postage on this after its
bore a number of letters it is needless
Yours

Gen Edward Bryant
Care Elm. & M. Phys & Surg
New York City

P.S. Mr Flagg deals with Thomas Cowperthwaite & Co
Market St
Phila da

Quincy 21. March 1845

Dear Sir

I have an opportunity to write, and though I have nothing important to communicate I write. The bearer may call on your family if in N.Y. if not I shall give him instructions to spare your time

The Philadelphia box is soon expected, & if it brings my long expected flora it will give me greater joy than any thing I have seen for a long time. If not the satisfaction of meeting it will be entirely swallowed up in seeing you. I am still on my lectures chiefly relying on the blackboard but making a few experiments. I am resolved if I give a Botanical course this spring it shall be an exceedingly superficial one & short for I must travel & press plants. I hope a letter soon from you in answer to my last this will not need an answer. If however you lost my last as is quite possible I would wish you to inform me with little delay what course of collecting in Illinois for a month & what calls at St Louis Louisville Cincinnati &c would best aid the Flora. I want to bring in something splendid, if not from my own gathering, from Short Engelmann &c. An answer to my numbered specimens would be of particular service to my friends & might save future applications from them to you. The names if in a separate letter might be directed to Dr Mead Augusta the other letter to me at Quincy.

Mr Williams the bearer is a methodo-congregationalist Clergyman from Illinois. He can answer many questions about the destitute west - destitute of the desire for a good ministry as well as of means to maintain one - He is a plain excellent man & has done some good -

Our Mission Institute has been incorporated under the name of Adelphia Theo. Sem. It has done much good & promises much more. My services there close 11 April - For 5 months I receive $60 + board. I could have made more but they could not have given more. The labors including the efforts necessary to secure an incorporation have worn on me. At present my nervous system is quite prostrated -

Yours in haste

S F Holton

P.S. Remember me to Mrs T + my dear old playmates. Tell them I want to hear "Who loves me best" again I have enquired for it diligently in vain.

John Torrey MD

New York

By Rev D. R. Williams.

Edgehill Princeton 10 Nov. 1848

Dear Dr

I am not ready to write you yet but what I cannot say now I will try to say when I answer Mr Humbolds letter wh I have not yet received. If he has not written hurry him off. I have not yet been able to find Tallock. Called repeatedly. Opened his door & threw in your parcels Curtis' is in N.C. long ago. I will not leave anything at W.A. Meads it is not safe. Dr K. will leave his parcel with me. If Dr Torrey will consent to have your parcels left with him it would an excellent plan for you. I think he will make another attempt this week to get his parcel from Wm A. M. & I will ask him to bring yours too. I am glad Augusta is not burned but if you talk so bad about mormons what will other folks do?

Oct. was vacation. I remained a few days at Princeton spent a few in N.Y. & went to Cambridge. Dr Gray was absent. I stayed & collected plants in the Garden then went to Rochester N.H. & staid 10 days returned to Cambridge & spent 2 more with Dr G. He is an excellent man all bolanist. He will do nothing to the Fl. N.A. till his Lowell Lectures are through say 10 weeks Dr T is nearly through State Fl. works on it in N.Y. Will recommence Fl N.A before winter closes & we may expect a no. without fail next spring. All last week I was busy with Phonography. I devote this week too to writing consequent on my change from Stenography to Ph. after wh. things will take their usual course. I have much leisure time as yet. Another ed. of Lindley is to be published in Eng. I am sorry to find nothing better for me yet. Am reading a new work by Adrien de Jussieu. For me, my Lindley that I left at the bookbinders for you wd be a better manual. How you got that yet? Jussieu devotes 139 pages (12mo) to Orders their structures & properties. Gray does even less. I wish I cd. see a specimen of D'Orbigny's Dictionaire Univ. D'Hist. N. &c. It will make 8 Vols of 768 pp. Oct. & 192 Plates Oct. for $30. Completed in 1848

Coll Phys & Surg 24 Ap 1846

Dear Doctor

I was sorry not to see you again before you left but we professors must be punctual at our lectures I was disconcerted to find you had not received the plants. I sent them by boat directed "Dr Torrey Care of Skillman Princeton" - in Chalk. I supposed you had mentioned them to Skillman.

Went to the Melting Ass: with Mr S. to day - They have tried it - it does well. The draft is so strong they think they may safely substitute coal for wood. Mr S hopes you will be in town before they fix the other kettle.

Mrs Stewart called in person this morning to say that the couches were done & ready to be sent according to any directions you would give. I do not like to send it to Capt Degraw (J.T.) &c without definite instructions.

I have found the "Crock of Gold" directed to me in the new laboratory.

I have not studied much this week.

Give my respects to Mrs T & daughters - It is a long time since I have had a real letter from Princeton

Yours in haste
J F Mutton

Prof Torrey

Princeton

N. Jersey.

College – Thursday 8 AM [c. 1846]

Dear Sir

I have this morning worked the 3 sheets into my index. I should have done so before had I time, & I only took time this morning in hopes of eliminating some errors in season for correction – faint hopes I acknowledge but as I was going to write otherwise I thought I would try. ~~In this~~ I have succeeded in finding one or two new errors I think

~~P 435 Lirnd for Lissa~~ Corrected
P 434 dic<u>c</u>hotomous (I suppose corrected)
Same line as dic<u>c</u>hotoma before noted
P 444 C? Purshii or A?
P 449 – Bout.&c is not Spanish
qu – Boutelou? French
P 454. I think Wild-oat grass an objectionable name, out of the Wild-oat genus: & would prefer Spiked Danthonia. I have just found your list again & I think my errors are reduced to one i.e. P 449 Spanish – of this I am (as usual) very <u>sure</u>. I cannot recollect to have seen o preceede u in Spanish but unfortunately my dictionary is not at home. I should not wonder if there was not one <u>ou</u> in the language.
For Vilfa I have been looking among Swedish Danish & German proper names in vain. It looks Danish to me.
On Azolla (Lamark?) I have done my best in vain. I think no man in his senses would have combined ἄζω & ὄλλυμι

on so slight grounds. You did not give me the author of Azolla & for a long time I sought the word in the German. Does not the whole matter of Botanical etymology need to be taken up in a work by itself? By taking all the names made by the same author together, & reserving the hardest authors ~~to~~ for the last I think there are few names so fanciful but they would come, especially when aided by what ~~light~~ ~~history~~ historical light could be obtained & a knowledge of the species from which the name was drawn. Conjecture should not be let loose. As a specimen (& a very moderate one) of what it will do see my note to Dr Gray on Morita. I write it to him, first to save you trouble, & 2nd to take the opportunity to say some other things. If you prefer you can embody what it says in your letter & there you need not send the note.

Stephanus thinks Αἶρα is not a primitive. He derives it from Αἶρω under the impression that Lolium is degenerated wheat or from Αἴρεω as it must be taken away from the wheat in cleaning it. But this belongs rather to Classical etymology than Botanical. Botanical etymology is history with its chasms filled by conjecture, generally certain—sometimes remote. General Etymology is all conjecture except a few words like Macadamize.

I reckoned without my host as to the L. I. trip. That conscienceless boat charges 4/ or 5/ each way

If you hear further from the Am. Ed. of ~~Regn~~ the

Vegetable Kingdom I should be glad to know.

Two mornings more will finish Daniells Chemistry. Next in order comes the remainder of Gregory in Summer, but I think I will defer that, hoping not to loose it thereby & devote my spare time to the Flora.

I received a letter from Hillsgrove (Ill) yesterday. I was rejoiced to hear that they had been blessed with a delightful little revival - great indeed for so small a place. It may double their church which was doubled once before by a much more limited work.

If your notes on Dr Meads plants come in your next I will send them right on.

I have had company - It is nearly 11 & I have not breakfasted yet.

Yours J F Holton

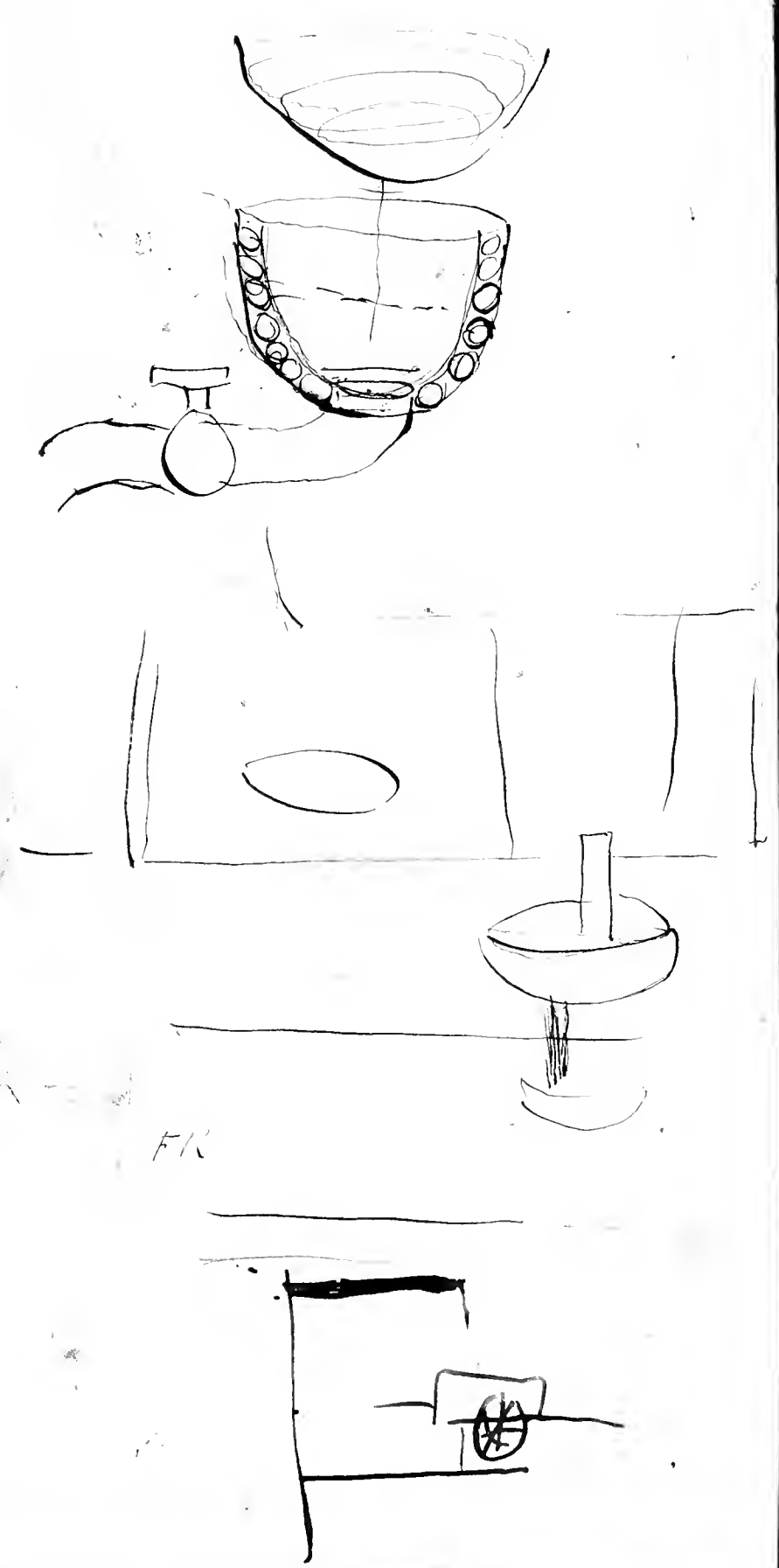
Dear Uncle I have only time to say that I hope to write you soon a letter, but just now I have no time: three hours & a half have I been in the Custom House this morning - I am well & shall see the girls this eve at Mrs Straits. Good bye

Love to all

Mr Riley has an award for me

Yours aff.ly, Hastings Grant.

Halsted sent a living plant for you.
Thanks to Mag & mother for their letters.



Thursday evening [c. 1846]

Dear Sir

I finished your tables at once on getting the materials – The proof sheets (except the last wh. I had the precaution to work upon sending off) come this morng. I dont like your additions for the No. you see in the body of the work was 1500 exactly. Salmonia must go in & this makes 1509. Dr Hoffmans party cd. not have sent you those plants – I am sure it is either Crowe or K. or both provided Dr C. lives in that Co. I begged K to rake C's herbarium for any thing to be added – Browne has found no other plant to go in but Salmonia – quite a no. of localities he can add.

I am in doubt whether I have calculated the tables as you intended. You could not have meant the percent as that wd. convey no new information Fractions of 100 will give no more definite idea than fractions of 1500. I think the table of large orders would answer the purpose – the fractions of the others is of less consequence. You did not say whether you liked that. One of my letters was from Madras – the other from my brother to whom I can now write I thank you for forwarding them. Dr Crondall & Mr B were together when Salmonia was pulled up. Neither knew it You pronounced on it – Mr Browne has it not or I wd have sent it at once – He is not in to night – expect to see him before this goes – left a note for him – Eupatorium rotundifolium is in its place. Dont know as I shall tell you where I got my information about "those 500 copies" The Sec. of State told my informant – he charged me not to tell but I told him I certainly should

Tell Mrs Torrey I have found a book. It is "Home" by Chas T. Torrey written for the support of his family between the verdict & sentence. The style is wonderfully simple. Moreover I suspect the book throws a little light on your ancestry.

Mommy - Mr Browne has called - he has found his Subularia - It is Lemosella subulata

He adds Polanisia graveolens banks of Hudson at Peekskill

Xanthoxylum Am. Putnam Co. 6 m N. of Peekskill

Galactia globella } hills Peekskill
Tylosanthes elatior }

Guava brennis - river at Peekskill (Rare)

Sedum telephium Field at Salem Westchester Co

Cicuta bulbifera Peekskill

Campanula rotundifolia Verplanks point

I have no time to add more.

Excuse my haste Love to all the family Be sure to bring letters from Mrs T & Eliza. Contrive to be at a little leisure here if you can. I go to Durham tomorrow with Mr Browne Ever yours I T Holton.

Will you ask Eliza or Margaret to look over the calculations of these tables I fear there may be errors in the adding or division

Dr John Torrey

Princeton

N. Jersey

Sat morn 18 July 1846

Dear Doctor

I hasten to answer your note. I did not suspect you had left any thing except ~~the~~ the index to Vol 1 wh. I was careless enough to leave out it being buried up at the time. All was safe in Hastings room.

Mr Browne's name was wrong in the 1st Vol. I did not know the true name but I have just been down & sent to him in bed & got his name.

I have been fishing your papers for the index - I have got Polygala lutea & Lorema Conradi but cannot tell whether to put the latter among the Cs or the L s. Synonyms of Saxifraga outside yet to be given me & corrections of Polygala

I have been over the whole index examining the alphabetical arrangement. That of the latter part of Vol 1 was much freer from errors than the first. This morning I underscore the generic names of synonyms

Which do you prefer

Tuckermannia 517 } or Tuckermannia Conradi 517
Conradi 517 }

You need both. I think the last best

Which do you prefer

Azalea 75	or	Azalea alba 77	
alba 77		nudiflora 75	
nudiflora 75		viscosa 76	
viscosa 76			

You adopted the former in Vol 1. I would a little prefer the latter as it makes the long Index shorter

Mr Browne has kindly communicated some omissions in the index of Vol 1st such as Rhododendron viscosum & Rhodora. I will get the paging from his copy.

Have you the minute for the locality of Pterospora? In those new localities would not the precise spot be more valuable than the district?

I have not been entirely well this week & do not feel satisfied with my progress. Hastings kindly relieves me of your commissions down town wh. leaves me more time for work today.

You left I suppose a small pearl handled 2 bladed penknife on your way to Boston I have it safe.

When will the next No. of the Flora be out?

Mr Schäffer ~~did~~ had not got your letter yesterday — I suspect he has not utterly abandoned his southern project tho' he says it is "all up".

I must save a moment for a note to Mrs Torrey.

You may count the index as good as ready at 2 hours warning tho' I shall not let it alone till it is off.

When will its proofs be out? i.e. the Flora completed?

Dr Torrey

College – Tues. Morn [c. 1948]

Dr Torrey

Dear Sir –

I recd – your note last night – I thank you much for those drawings – I often receive your favors in entire silence because words only seem so inadequate a return – I wish I had more ~~time~~ opportunities for more substantial demonstrations – I begun a course of 22 lects for Miss Green on Wed – after you left. I give 3 a week which keeps me very busy – Your drawings will allow me some respite – I succeeded in interesting my large class very much till yesterday when I perceived to my great alarm a serious falling off of attention – My subject was Compositæ – This and Araceæ are the only orders I have undertaken. I have still hopes of receiving their attention next time – The subject will be Exogens & End.s One lady showed me her notes of amazing fidelity.

I have scarcely seen Porchere.
My oldest brother whom I had not seen for 13 years has spent a week in town with a ~~nept~~ son. They have driven me to the utmost to give them time & not neglect my classes. They left last night.
I have not seen Eliza - nor Margaret since you left.
The laboratory is but partially put to rights yet. I shall now have time to make progress in it.
I have not seen Schaffer since you left
Was much delighted last night to hear from Edwin & particularly of his hope in Christ. I am a strong believer in the Abrahamic covenant & hold Hastings conversion to be sure. May it be speedy.

I shall probably miss your fission less now I have those drawings I shall have done with them entirely before you will want them. I have borrowed Gray from Brownne & Lindleys 8vo (Intro-duction?) from Miss Haines. Chiefly to

make drawings from. I make out poorly enough. I am surprised to find myself as deficient in the mechanical as in the asthetical requisites for painting. I have been out for plants but once this year.

My time is up & I must close
Love to Mrs T & the family

[illegible] I F Holton

College – Monday Morn

Dear Sir

I snatch a moment from my preparation for my first lecture on morphology to answer your letter of 20 May. Had you sent it through Hastings it would have reached me before I wrote last. Mr Schoeffer has not yet called. I went to Mrs S.'s fathers but he has moved high up town.

Those drawings prove very useful but not so much so as the paper ones. In Morphology & Veg. Anat. they are rich – in some other departments moderate – in others still meagre. Had they been drawn for coloring it would have been infinitely better. I know a lady who would color them on low terms but they have too much ink to color well. I have nothing to color by. I could have a few colored without special directions from you e.g. Strawberry & Carrot. I want good drawings on the following orders on which I shall lecture specially. Those I mark (X) I have some drawings of now.

Algæ	Cruciferæ
Fungi x	Leguminosæ
Lichens	Labiatæ
Mosses x	Scrophulariaceæ
Grasses x	Compositæ x
Cyperaceæ x	Cucurbitaceæ
Orchidaceæ	
Euphorbiaceæ	Umbelliferæ

Some of these I may find in the Materia Medica room (doubtful) & some at the Lyceum. If you have any of them drawn at Princeton ~~on~~ (large) it will save me hours by sending them. If most of them can be found in any single volume, colored, say in Bellessert even. I would feel justified in asking the loan if there were a safe chance to send down. Do not let me urge your generosity too far. but where an entire day is to be spent on a drawing it is desirable that it should be from a good copy.

I catch eagerly at your proposal of employment - I may have but this one course of lectures this string (but in this I am now - nearly certain of all the success I dared hope) - therefore even a small accession to my funds will be of great service - but again working under your direction & for you will I am certain be the very best lessons I could possibly take -

Miss Green pays of a debt of $43 due last 30 Aug - & leaves $7 towards shirts cravats shoes & glasses which I have got to purchase -

Yours &c

Prof. Jno Torrey

[c1.841]

College – Monday morning

Dear Sir

I have just received the third proof sheet to page 456. I am not quick to detect merely typographical errors but noticed these – P433 pungens & obtuse P434 bend for head (caput?) I would have translated ansta "the head or ear of grain". Lome p. Aristida dichotoma – P441 after Withering dele (.) P445 last line littoralis. P453 Arrhenatherum & just below avenaceum. Besides these I suspect an error in the authorities for Uvalepis aristulata "Spreng. Neue enta". Curtopogon (P434) if correctly quoted is bad. I suppose the ~~name~~ Muhlenbergia sylvatica was a joint effort – but did Dr Gray claim his share in the Grom & Gp? If not I conceive the author of the Mg. Flora ought not to give it him.

Several works are quoted which are not enumerated at the beginning.

Before speaking of derivations I wish, pace tua, to advance one principle of which I am very confident – as you know I often am of an opinion that may be entirely wrong. I think the scientific writer ought not to step into the place of the etymologist but when he has carried the scientific name back to the classical word from which it was actually derived he should leave it there & let

the lexicographer trace its pedigree as far as he pleases
Eg. having said that Fucus was from the Latin fucus I think
he may with propriety stop there of if he will go on to say
that fucus is from the Gr. φῦκος & that from the Arabic _____ &
that from the Hebrew פּוּךְ, that here he is bound to stop in all
conscience, & leave the Rabbins to say why פּוּךְ ever was used
to denote sea weed. Ne sutor ultra etc.

I know it is presumption for me to offer you my
opinions on this point but they cost you nothing except
the ink with which they are written & even that I suspect
may have been a present from Kent.

I now venture some almost equally presumptuous
remarks on individual names & for brevity's sake I
will speak ex cathedra having concentrated all my def-
erence into these two sentences. Calamagrostis - καλαμος
means a reed - never a palm. The word spread from Cenchrus
frutescens to all culms. Phragmites from φραγμιτης growing in
the hedge. Eleusine. Eleusis is not a name of Ceres. She has
I suspect an epithet taken from the name of the city
Eleusis where her games were celebrated, & where I conjecture
this grass or some grass (I am safe at last) grew, hence called
πόα ἐλευσινία Eleusis grass. Derivation: From Eleusis a city
near Athens. Spartina from σπαρτίνη made of the bark of
Spanish Broom. Aira not from ἀείρω but from αἶρα holium tem-
ulentum an a primitive underived word. Avena. The Latin name for
Oat. (See bottom of last page & top of this). Ile Dauthonia. He
who will transpose two letters & write this Dauthoina
will do nomenclature a service. Muhlenbergia stands on
rather a critical footing - nothing but favoritism I fear con
sustain it. Rafinesquia would have been pitched from

it neck & heels. Before getting off my stool as you may perhaps never suffer me to mount it again. I will suggest that where a name, given even by Linné, is an outrage on public decency it should be changed at once. It is no use to say Clitoria is derived ~~from an~~ "anatomical term" & leave the matter there. Curiosity is whetted. the mystery solved information diffused — imagination excited & youth of both sexes corrupted ~~&~~ but the laws of nomenclature are observed. Paderota & Phallus are two other stains on the character of the father of Botany which filial respect should efface even from new editions of his Genera plantarum.

I shall make my calculations for Oyster Bay on ~~Wed~~ Tuesday week. If you do not hear from the plant I think I may go even if you do not send me. The trip will not cost over a dollar — so please let me have directions where to look (in grass or in woods &c) & a letter to Dr De Kay whom I would be glad to see before my return from his vicinity. The boats favor me & give me an entire day, an evening, & a morning.

I expect to spend this week Wednesday night at Jamaica.

Tuesday. I did not get this off yesterday as I hoped. It is surprising how little I do in a day & how tired I am in the morning. I got a letter from Dr Mead yesterday. Shall answer it as soon as I can enclose your report on those plants for which he has waited nearly two years.

I have not seen Jane yet & only barely seen Eliza.

If you meet another notice of the Am. Ed. of Lindley will you be kind enough to send it to me? I fear this will come too late for your return of proof.

Ammonium ranges itself with Potassium & Cyanogen with Chlorine — how many more radicals can be classed

Yours truly J. F. Holton.

P.S. Hastings has forgotten who to go to to enquire about milk. I so not like a Sabbath breaker & he does not like milk that will sour before night.

Sincerely
N.G.

Dr John Lyons

Tell Mrs T. I want to hear from her - Why dont Harry write me?

Holton
Collect due week end. Start

When does Agrostis lonxiflora flower?

Tuesday morn.. I have just rec. Mothers Letter & Will attend to it. Last night I saw Eliza. I am quite well & was right glad to receive it. N. G.

College Wednesday night
[c. 1846]

Dear Sir

I have just received yours of yesterday on my return from Jamaica. Found Mrs well. He had been quite sick. I wrote him to night the substance of your note. I do not think he will be in till Monday. He means not to send for you till every thing is sure to be ready. I think Thursday or Wednesday night will be the time for you to come.

Thank you for that letter from Ceylon. I am glad your dust suits & sorry for the necessary delay. I fear I shall not see Mrs Word. All well to-day at Mrs Stow's in Hicks St

To morrow morn I must go to Perth Amboy — may be absent 28 hours.

Please thank Eliza for her nice long letter - Nearly a week must yet elapse before I can answer it. But I wish to correct her impression of my opinion of Mr Colman. I think him a good scholar.

Analytical Geometry is but a modern college study - Mr Coleman (If he be Rev Lyman Coleman) graduated at Yale in 1817 & was afterwards tutor there. That is guarranty of his scholorship then.

Most graduates soon forget their mathematics ~~soon after~~ unless they teaching them. I supposed Mr C's strong point was the Classics

It is late & I must be at the ~~clock~~ at 5½

Good night

J. F. H.

Dr Torrey

By Mr Grant

[c. 1847]

College - Friday 3 P.M.

Dear Sir

I suppose you wish to know the result of my tour. In one word it was unsuccessful. I met Dr Dekay on the boat - he took me home with him, furnished me guides & conveyance - thus increasing my facilities to the utmost. I was out a half hour the first night & again before breakfast the next morning near his house. After breakfast took the route Dr Emmons had pursued - scoured the plain & went as far as the railroad but in vain. After our return Dr D. accompanied me himself to some localites visited by Dr E. It is conjectured that the specimen must have come from near Islip. Dr D. is soon to write Dr E & will then enquire where he found the specimen & of course will obtain no satisfaction. I left the specimen & the family will all be on the watch for it tho' ~~neither~~ none of them I fear are good explorers. After my return I was out again after sunset & before sunrise but not with any hopes of finding the plant. I did better for myself than for you gathering 130 pages of specimens some of which are already dry & out of press. I like my press better the more I use it. It will hold 200 pages of specimens 1 shirt & collars q.s. My specimens will be better than the average I make in the city. Could I only afford it I would like to test its powers with 402 driers on the White Hills next August - nor is it certain that I shall not. I found a Hedyotis Polygala polyg. - Drosera akulus, probably sexatilis, Oxycoccus, probably 2 Andromedas (are those sheets of Ericea in the city?) & many other plants I had not seen for years. I committed my usual share of blunders - the worst of which were taking Helianthemum for Oenothera fruticosa & Sarothra without

flowers for an Equisetum! Dr Dekay says if I will come out again he will take me to Jerico (no I was there Wednesday but to Babylon.) He is very kind & the ride would be no doubt highly interesting to me but I doubt its feasibility.

Never was a house situated more pleasantly than Dr D's. It is on a beautiful beach in a fine bay apparently in the heart of a wilderness. Still he is close to a road from which no part of his house is visible & close to the landing - much nearer than the village is from which also his house is hidden. Miss Dekay sings much & well - reads Latin French German & Italian. A tutor is employed in the family - formerly a member of Douay Coll. & I fear still a Jesuit. His eldest son is Mr Smith's constant companion & I fear much under his influence - thinks father was in danger of excommunication for licenciousness at the time of his rebellion - & does not deny the real presence & (why should I deny it?) is at heart a papist.

There are no naturalists in the family & Mrs D till lately even supposed mice were young rats. The children are very amiable & kind to each other & respectful to their parents. No government seemed to be needed. The family seemed to manage itself. There must have been two servants but I only saw one & that accidentally. Mrs D seems languid. They enquired very particularly after you & your family. Dr D is a zealous Episcopalian & declared enemy to Onderdonk. He was the means of having a cross erected on Our Church. The children are 3 daughters & 4 sons. Miss D is I believe both organist & prima donna in the Choir & a laborious S.S. teacher & I suspect not friendly to "dissenters" as such.

I have been particular in giving my views of the family because I thought it would interest you but I hope I have not acted the part of a spy in so doing - saying nothing but what you would readily discover but even this I would prefer should be in a degree confidential - Of course I dont mean to exclude Mrs T from any thing in it she may think worth reading.

Revenons a nos moutons. I am sorry to find uncorrected in my proof sheet a few errors. P.462 some thing flowers from August till June. P475 the second paragraph of the 3 which you give to each species is missing in Tr. caninum P481 I think Fr. should be Fl. as it is the time of flowering which is given to the other Equisetums. Neither is given to E. variegatum - nor to Hippuris Vol I P244. I do not like the etymology of Tryglochin - The nom sing of awn is γλῶχ nom. pl. γλῶχες. Is there not in classic Greek such an adj. as τριγλώχιν, three awned.

In your table I find Amaryllidaceæ but none in the Flora. Lettideæ is a suborder & probably crept in unawares. Fluviales & Najadaceæ are both inserted - the former I suppose by accident. Moloragaceæ is a suborder & numbered with Oe. Juncaceæ is a S.O. of Alismæ but by mistake I suppose is numbered separately in the Flora as none of the others are. I fear you may think me very particular about these little matters - but I only suggest them to you that such may be noted as you choose.

I looked in vain for a note for Prof Tappan - I shall walk down to the P.O & mail this to night hoping thereby you will get it in season for the morning mail of Monday & if the note is Carr Wiley & Putnam I shall get it by Hastings & use it Mon Eve. Time presses in this matter.

The proof goes with this to the mail. If they send down on Monday I can send up the 1st sheet of Index on Tues. Eve. Shall I? Or send the table? Don't the Logonthus. Eliza has them though. You want the table like that in Torrey's Lindley.

Aconthaceæ	1	1:1400
Araceæ	7	1: 200 &c

Dr Halsey has kindly written me twice relative to opening a boys school at P. Amboy. I will not answer without seeing you. At first view I am no wise favorable

John Torrey M.D.
Princeton N.J.

college 8 June 1847

Dear Sir

I must not let this letter, from Halstead I suppose, go without adding a line I am now enjoying a splendid "otium cum dig." having nothing to do but work for myself. It really is a relief to me to know that I have not to lecture to-morrow nor next day. I concentrated all my efforts on those lectures but if it is ever to be done again it can be done much better & with much less effort. One capital error was relying too much on that general knowledge of plants which is common enough in country girls but here is as rare as nautical knowledge is to landsmen. However all passed off better than I ought to have hoped — only I have such a faculty for hoping —

I shall occupy myself for the present chiefly in my much neglected correspondence & in arranging my herbarium from which these lectures called me off when I had nearly completed the beginning of the task. I now am alarmed at looking at it. It never can go back into those boxes again. Indeed one is actually occupied now with various suppeditaments — blank papers — plants to be examined &c & the other will soon only accommodate my duplicates. But for my "holders" or genus papers I never should have again reduced my plants to order

You know the builders are overhead. It is all racket & rubbish confusion reigns in the yards & mortar rains from above. I am sorry they do not raise the whole building a story while they are about it.

I went on Sat P.M. to Weehawken & W. Hoboken with Mr Browne & filled my press for the second time these two months. I use 3 or 4 times as much paper as last year & the effect on my specimens is very satisfactory

I wish to ask you to correct one error which perhaps you can better do at Princeton than here. In the Annals of

the Lyceum Vol 4 P 92 you say speaking of the cotyledons in a capsule of Cakile maritima "they were incumbent in the inferior seed & spirally twisted on the axis of the silicle in the inferior." Which is right?

Wednesday morn. It rains - probably rains at Princeton - rains Commencement day - Well it rains here too - It rains out doors rains up stairs & begins to rain in my room. I do not like this introduction of some bowels of water into the substance of the building. I fear it will not dry out soon.

Night before last I went down to 84 Broadway to watch with Dr Gould, but fortunately for me they had made arrangements so that my stay was needless. Last night I went to the Theo. Sem. Anniversary with a lady whom I found on my return to be engaged in a large school in E. Broadway where Mr Hume is now lecturing on Botany. On friday I expect to go there & hear him.

At W. & P's I have been waiting an hour or two for a letter from Hastings but it does not come -

Mr Schäffer's election is postponed as he will inform you on Friday - He considers it merely a vexatious delay.

Give my respects to all your family

Yours in haste I F Holton

Dr Torrey -

[April]

Sat. Morn 22. 1848

Dear Doctor

How shall I thank you enough for those plants? I expected 50 only & there were over 500 of them! When I tell you that the last of them will be in its place in the herbarium before 9 o'clock this morning you will see that I have not been idle. I shall not mix the duplicates with mine, Mr Browne has taken a part & I think the Geum & Leroy will take the others. The grasses Ferns & Ericate genera gave me much trouble from changes of names. I was astonished to see a Flora so like our own. not 20 new genera to my herbarium & most of them found here. The inequality of the addition struck me; for long spaces no plant was added other parts of my herbarium were actually swollen like a dried apple when soaked. I am more & more satisfied that such covers as you have are not the thing.

There would have been no end to the trouble had mine been in folios. Mr Brownne's is like a crustacea that cant get a quiet chance to cast its shell. He has not added to it for a year or two & has many hundreds that ought to go in.

If you would go to the pines on 2 August I would go with you just to be with you - otherwise I start at that time for Rutland & Windham Cos Vt. (S.V.). My money matters are much easier than last year besides that I have paid all my debt - only I must wait a little for a new watch & a new coat. Next year I com (better) (make) terms with Mad. C.

I have broken ground in the matter of the Free Academy, but if I am to have Gibbes for a rival it is of no use. I did not hear of him, nor Doremus, nor Hume, but only of candidates I had never heard of before - If they depor

ate Botany from Chemistry, or if Dr Gibbes would not take it, I shall ask you to help me & perhaps very soon. A note from Mr Robt Keller asked me to see him on this point the last of next week when I shall determine.

I think of breaking a few stones in Rutland Co! You once proposed giving me a Philip's of which you had a newer edition. I conclude you have but one edition. If you can lend that & your blowpipe (here) I would like them.

I beg pardon for neglecting Miss Doyle's bill so long which I was to have sent ~~by~~ I will send by Mr Grant in season to settle before I leave.

I spent a very pleasant evening at Mad. Chegaray's last evening.

Our Sabbath School is improving.

Our Ch. embarrassments are not diminishing.

Remember me to Mrs T. & the girls.

Yours I. F. H.

Dr. Torrey

N York 17 May '48

Dear Doctor

I received yesterday a note from M. Trécul in which he says your package came too late for him (General & Wedding cake?), but that he will leave it at P. on his way to Philadelphia 14 May – last Sabbath. So I suppose you have it.

Mons. T is in raptures with his Princeton visit.

I spent the Sabbath at Perth A. Br. Corey's child died in the course of the day – an only son. I preached for him with much reluctance half a day Dr H. being unwell & his brother being on bad terms with Mr Corey. I undertook the task with reluctance, as Mr C is an uncommonly good preacher, & executed it with unusual embarrassment.

I send you a plant we found monday – a very small specimen. Will it not have some interesting bearings if we prove it not to have been introduced?

My health is not good yet. I have not redeemed the time I wasted on that inaugural that nobody took the trouble to hear.

I have made no drawings since - I shall make one to-day perhaps of seeds entirely, mostly taken from that invaluable 'Genera'. I have engaged or nearly engaged 4 copies of it without trying, merely expressing one half of my exhuberance of delight at it.

All seems to go well at Mod^s Chegarays - & at the Pharmacy where 'we a lovely band' gather round a table & talk it out together - It will yield me $32 perhaps more.

I go through my herbarium very slowly having only finished Poa

Will you ask Mr Evans to tell me the whereabouts of my tin pail. I have a faint recollection of lending it to him for a refrigerator of Artificial Camphor & for some other purpose - & have not seen it since. I cannot well do without it - The cover was left in the

New Laboratory but that is of no use without the pail nor to me the pail without the cover.

I sent Dr Mead some plants yesterday & have got the laboratory into a precious confusion.

When will you be down again?

Give my respects to Mrs Torrey.

Yours Ever

I. F. Holton.

P.S. I see I have not mentioned Dr Grays present to me of Genera & Chloris. he gave his last proofs to Dr K but I have as yet no chance to send them.

Might I not hope yet to review the Genera? It will be some little time before I can go on from where I stopped to write that poor introductory.

N York 27 May 1848

Dear Doctor

I am sorry & ashamed to have on hand 4 unanswered letters of yours & sorry to answer them all by one brief note but I am doubtful as to the space in H's letter & more than doubtful of my time & strength. First of these in date - not in reception is that of 13 inst. Engelmanns pamphlet much surprised me. What a form to publish half a hundred new species in! It seems to me scarcely above a common newspaper. The Dutch 4to I have not seen. I have not seen Bréal since. The "pharmacy boys" are a miscellaneous sett but there are no druggists clerks among them. I am not doing too much for them. I am going over the plates of Grays genera with them & poor K. must yet wait a week before this kind friend will transmit his sheets to him. He has not written me since his removal not even to thank me for the Manual. It seems he might have written by his son who called for it. I would like of all things to "take up some tribe of plants &c" but it would necessarily be with much assistance from you & a tribe of your selection. But why not the growth of exogenous bark? I doubt whether it is understood. I do not find it in Gray. In Jussieu it is not clear. Gaudichaud may have N.J. State work in his presence!!

I may [illegible] with differently meet you in the fines in a few weeks. I am delighted with your report from K. If you can [illegible] Winter [illegible] my [illegible]

it. Would my Microscope answer the purpose? Perhaps Prescott's "Nemophor jaunae" would show how to begin. I should be equally happy to go on with the review (& I have a nobler subject for it) but not with both. I should be ready by the time you would get leave from Dr Gray. My Irishism which you found in your note of 19 Inst was of your own making. Prescott's letter was dated 13 May & received (as I said) 16th. So would many Bible difficulties vanish could we come at the facts. How came ballast with Erodium seeds on the South end of Staten Island? I would like to make it out indigenous. It was scattered over a pasture some ways from shore. The locality shall be better investigated. Is the book found & the wedding cake eaten? In the confusion I was in I could not find the pew receipt to send you — tho it was in my pocket I will not send it now. It is "in full for pew rent". He said you did not tell him you would leave before May, but as he could not say that the funds had rec^d delinquent from non information he remitted March & April. Endicott (Jr.) did not know Mrs Brooks address some time since. See him again to-day. He thinks he will see her & ask her.

Wm Austen Lorry has just called for fine work or tables — will get them Wednesday.

I begin to fear I must take better care of my health. I am not use to many solicitous about it. I fear this last trouble came from wearing wet boots from a salt marsh till bed time - from 5 till 10. I dont like to think that such a thing would hurt me. I botanize but little & dont find much. My only possible intervals are - from Friday 9 P.M. to Monday 8 P.M. Tuesday & Thursday at 10 A.M. to next day at 2. Last Thursday I went to a friend's at Roxenswood. I found on the salt marsh only wet feet & myriads of phlebotomiats. Next day I brought back A. Siphio from their garden & a mole? Lamia horrida come from Thorburns. The rain kept me from the woods. The cone has permanent anthers? 1-celled bony & persistent on the under? side of each scale. I did not even get a chance to go to Astoria & see a lady whom I am always glad to see & her garden where I may get Gillenia 3fol. My papers dry very slowly, & worse, imperfectly in that damp laboratory & resort occasionally, as this morning to a fire in my room for this purpose.

So slowly do I get over my plants in looking over my herbarium & laying out duplicates that I am not yet through

the grasses. I am rarely down town — make short work with correspondents, make few calls — receive almost none have little non-scientific reading — do not read the news except a few snatches & am short for time. I have now, (½ past 9) been up over 4 hours & have accomplished nothing but what you see! And yet I have been busy & for a sick man quite energetic all the morning, & now feel somewhat fatigued

Just now a package of plants tied up in a sort of black folio caught my eye. It seems to have been hidden in open sight for a year or two among those empty boxes you gave me. It seems to be a collection running from Ran- to Leguminosæ —

I hope to write a notice for Grays Genera for the Observer of this week but I have my fears. I have no hopes of getting it in without giving C. a copy of the Manual — He was over to Dedham with me Sat. week.

I do not — Ickermann has just called with an engraving for the patent report of the most horrid botanical character but well executed. I think you might try him to advantage.

A. asserts that E. bribed some of the naturalists of the N. J. State work in his presence!!

N York

Dear Doctor

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sion it is not clear. Gandi

I may with differently meet you in the fines in a few weeks. I am delighted with your name from K. If you go to N York use my

Tuesday morn 2 June 1848

Dear Doctor

I send you with this a long note which I wrote when I was sick in answer to some things in various notes of yours. I dont know what it is about but in addition to that I have to say – first that those carpet balls will make but 8 yards of 24 in carpeting I directed the man to wait a week before proceeding with so small a job

Second. The "Good Samaritan" has returned to the city & is installed in Dr Gilmours room up stairs with his traps & ready to 'do any thing for any body' whereby he may make a few dollars & have leisure to study fresh water algæ. Frey's nose is, I believe, enjoying a considerable accession of size – apparently of erubescable subcutaneous cellular tissue – not actually erubescent – on the very tip, or rather terminal plateau.

I think I have now got nearly through my hurry not having had any drain on my time for all this week. I am rejoiced that Dr Gray is coming to town. I hope I may see him. I gather no flowers at all this week nor till next Thursday. By slipping off a recitation I can make a visit to Kneeskern from Thursday till Tuesday. I hope you will set it at about 21st June. & if you can come this way

College Hon. Morn 5 June 1848

Dear Doctor

There certainly must be, as you suggest, some mistake about that Flora – but it is not so easy to say what. There are here two unopened packages endorsed Flora – Complete – Besides these, which have nothing to do with our present matter you sent me two bundles. One endorsed Flora Vol 2 wants Sig. 2. This I believe is new – I see no trace of use. The other I thought till this moment to be entirely plates. It proves to be Vol 1 Text complete plates (proofs) deficient perhaps half a dozen. The third package is from Dr Gray the Vol 2 which was sent you in sheets by mail. You recollect they stopped sending as soon as you returned the last proof but a strg proof in my possession made up the deficiency in the body of the work – No explanations to plates – no index except 4 pages of proof sent me.

I have been going over my Carices on Friday & Sat. I have only about half of them but among the missing ones are some of the most common ones. I have more hopes of understanding the carices than the grasses. Indeed I must go to dissecting the grasses or I shall never know one of them except Cenchris.

A fortnight from to-day closes my course at the Coll. of Ph. When may our visit to K take place? Will you come by Ny? Will it be on Thursday? I am looking for our walk from Hoboken to come off one of these days, may not that be in a week or two?

Your note by Mrs T. brought great joy to me. I knew that the Spirit was dealing with H., but I did not know that even he himself knew what was doing. Yesterday was a joyful day to me. Good Mrs Brownne was there with all her family except her babes & her husband who kept house on the occasion. Not only do I rejoice with H. but I joy also in your joy. I hope other similar opportunities of congratulating you till you have rejoiced over the last of your family.

I am a little embarrassed in selecting illustrations for your first six lectures. I will send a large portion of the whole – More than half I think. As this includes those which I used first it may be all you wish. I will at the next opportunity send a large part of the remainder. I fear very much lest I may keep back some that you will want.

Many thoughts occur to me on reading what you say of Prof. Gray. Will there not be an opening for me there? I want a post that I can rise from one which will be in its very nature an apprenticeship. I shall be 36 in August & with strong desires for domestic life & an earnest longing for a home of my own I find myself apparently as far from any rational prospect of settlement as years ago. Am I to circulate in an eddy all my life? I hope not. The fear of it however has troubled me not a little.

Dr Gray expects merely to pass through N.Y. tomorrow. I shall try to meet him at the boat as otherwise I cannot see him, having to lecture at 9.

Mr. Trécul when he started meant only to go to Pa. It seems he changed his mind. He wrote me he would be back the same week.

I have as yet written nothing on the Genera. It was on my order of exercises for this morning but Mrs G's coming has led me to put aside my plans. I am really discouraged to see how little I do, and yet I dare not press myself as my health now is. I hope I shall soon be ready for work - say in a week or two. I have not seen the notice of the Genera in Silliman nor the Review of the Manual in the N. American. When must an article be finished to be in season for the next?

Mrs Torrey is writing in the other room & I send this (I think) with hers. I send the receipt for the pens

I wish I had thought before to borrow Barnetts Outlines again. After all there is a great deal that is useful there.

Mrs Torrey has finished & I must close

Yours affectionately

J. F. Holton.

Trécul has just called - goes to-morrow to Boston thence to Albany Detroit &c to St L. He does not know what to do with your note to Schoolcraft. I told him I could return it to you - I send the accompanying note & the letter itself is too heavy.

Dear Doctor

Wednesday 20 June 1848

you were mistaken in supposing I had the Cholera for a fortnight. It was only a week in all. And during that time I took but two doses of medicine. It was only one of those sporadic turns to which all are liable & on which cholera often lays hold as an occasion for mowing that particular individual rather than another.

[illegible] a [illegible] a [illegible] two days to [illegible] [illegible] land [illegible] time. [illegible] I sent a number of [illegible] I had just begun my [illegible] [illegible] of our exchange [illegible] [illegible] but had not time to take advantage of it. Hereafter I can first write all the labels on a package at one sitting & then lay it out. I intend to make also a package or pile

of duplicates of which I have but one or two each to make no dialogue of these but keep them to be looked over & selected from. Thank you much for your second. When you come down I mean to see whether it is equally easy to possess myself of some other brochures & small parcels which were designated in the small room, such as Jay's catalogue &c. I am sorry you are not to be down so soon. I have been speculating as to the terms on which I could obtain those two packages of Eliza's Pine collections. I have been waiting for her to discover that she has already done all she ever will with them a fact I have been aware of for about a year but of which she may yet have some lingering doubt which I know not how to remove

Those Book at lectures are a reality I am sorry to say. they are a vexation to me because the experiments are all they care for & I shall make not a chemist there. in short I am trapped into giving a course of experiments with some explanatory remarks. I have been strongly inclined to bolt & I think I should have done so ere now, were it not my fixed opinion that I never form too few experiments.

I lecture to day on Chlorine, performing all the experiments I can think of in Florence flasks. Prof. Ellett is now there ready with some capital advice. Should I be with you in the winter you may hear as much of his new ways as of Prof Hale's cocks old ones.

I had made up my mind not to buy the Th. N. A till the second volume was completed, on that

point I now hesitate as I begin to think I need it. What shall I do with that chronic review of the Genera? It ought to have a place in the N. American as a review of Vol 2. I don't like having it so long on my hands.

And Chesney I think I was suspected she could extend my term without a proper use of chink. If our medical fellows were not joking. The term is too long now. The fault is elsewhere that's flat. Suppose the term eleven months long & twenty five hours a day the course would not be improved.

Elijah's last proclamation is worse than usual. It would be better I think to make him budge. I desire very much to take a trip with you if I can. I will see about your papers to-morrow. I think I can get offers to suit. By six reams do you mean single or double? If you want double I prefer for in volumes & single for species. You recommend me to have my glucinary done by my children or executors even? It may be that delay is better for me.

Wednesday Morn 21 June '48

Dear Doctor

I have been hoping to hear from you relative to what I am to do for July & August. I almost to have made up my mind as to July. Dr Gray requested me to call on Whelpley of the American review. I did so. He acceded at once to the admission of my article but insisted that it was not his duty to pay for it. He easily showed me that he could better spend his money on a political article & that M & Co could not do better than have an article inserted where among its readers would be 1500 planters.

I wrote Dr Gray Monday to this effect & yesterday recommended my article

I believe I will send you the first of it & in fact I fear I must first & last trouble you with the whole of it either in mass or detail. I hope it will not get mislaid.

As to the Carmine st matter I hear nothing as yet so that your

advice may be in time in that case. Every view I can take of it however leads me to think I ought to seize on the opportunity should it offer.

At Madame C's I really believe I have secured the good-will of both my classes. This is a god deal if I have really done it. The botany class took an excursion with me to Fort Lee on Sat. last. We were all highly delighted I with their conduct - they with their trip. We all carried our ~~bot-~~ Manuals with us, & we used them the more as it was very hot. We found but very few flowers however. I saved nothing but Hamamelis.

I shall be quite lonely when H. is gone. I hope he will enjoy himself I know he will.

Should my article pay I can spare a few more dollars on my herbarium which will tell to great effect in the arrangement of my duplicates. I am creeping over my herbarium having just passed Rynchospora on

my way towards Anemone.

I hope to spend next Sabbath at Singsing. My Superintendency will commence on the Sabbath after. By the way the Sup. of Brainard Sab. School figures largely in the last Evangelist. It seems he has not been late in 14 years!

I felt very sorry to hear how you missed Dr Gray on that Morning ride. Mrs Torrey missed them too but it was much better. each being in ~~search~~ calling on the other.

What will you have done with that portrait of Decandolle?

Willis has been to see me. wants me to spend next winter with him. Will it make every movement of my life a year later if I do?

I heard from a Dr Drake some time since. He sent you some crystallized guano once. He expected you would tell him what it was but you never did. Shall I tell him? N.B. said salt is deliquescing & decomposing I fear the specimen

is mined - if not it ought to be glass-stopped.

[c. 1848]

Monday morning 25 Sept.

Dear Doctor

I begin my work this dark morning by reporting progress of which I have made but very little & that is soon told. My pile of unarranged plants holds its own like flint. I have promised to let Mrs Mills take out to Ceylon 300 or 400 for which she is to return me native plants. These I take out as I put others in. I first went over all my new acquisitions, writing labels, & studying species a very little, & distributing them into six piles. Of these I have finally arranged from Ranunculaceæ to Leguminosæ, inclusive. From the same space I have laid out for Mrs Mills 75 specimens. To-day I hope to get to Cornus, but I am so often delayed that it is not much use to hope. Friends from abroad used up almost all of Saturday & will take most of some day this week. That Sabbath School makes greater drafts on my strength than on my time. It is nearly as hard as preaching —

Young Kinieskern has been here looking for business. His Father is well. The family grow in stature & I hope in intellect. They wear shoes & go to school. He took the Genera. I have been down town once & to Brooklyn once since you left. Have not yet touched your minerals.

Mr Browne is unharassed. A vessel is up for Sweden. He has the Bishops things ready & many others for other correspondents. Shall he send all — all but Agardh's — or none?

Prof. Tappan has at length given me his testimonial & a curiosity it is. I have taken a copy to show you. I was going to show it to Abbot Mod'C. Miss Forbes & Miss Green & get others on the same model but on seeing how extravagant it was I dared not show it to any of them.

Who is Prof Jäger? He has been making a little capital, harmlessly, in the Tribune. Will he be a candidate?

When will you be in again?

Respects for Mrs J. & family

Yours S.F.H.

1	2	3	4	5
Send	Gray	parcel	express	~~today~~ afternoon
6	7	8	9	10
Mollie	Come	tomorrow	morning.	Henry
11	12	13	14	15
gone	Philad.	Scientific	meeting.	Mitchell
16	17	18	19	20
here to	tonight.	affectly	John	Fanny

[c 1848]

Wednesday Morn

Dear Doctor

I have just finished my final improvement on my System of duplicates. I have been working at it ever since I was clear of Harris & am done just in time as I expect to leave town tomorrow. I may as well give you a brief history of my herbarium. I began it in the beginning of my Soph. year 1832. I changed my size by your advice in 1838. The plants were arranged alphabetically till 1840 when I adopted the arrangement of Burnett. Strange to say I collected my first duplicates, (for Dr Reed) in 1842. The first I kept for myself were in 1844 About this time I left Burnett's arrangement. In 1844 my herbarium became so bulky that I could only manage it when on shelves like a dairy. It occupied about 100 ft of shelf. In 1846 I never found a plant in my herbarium. All the duplicates I got then and this year I packed up in boxes. In 1847. resorted to Genus covers. In 1848 I made cases

or covers for duplicates - numbered them & put the numbers in my catalogue of duplicates. Now I have taken a book of 300 pages (those to with my cases) & on each page have copied the labels of the duplicates in a case. I have further established a file of plants which I do not want of only one of a species. Of this I make no catalogue anyone may take any plant he wishes but it is not accessible to correspondents. I have generally 2 species in a case, & from 2 to 100 specimens of each.

So much for congratulation I allow myself on the completion of a long task. All this time I have been hoping to see you, never thinking ~~that~~ this Cholera nonsense would keep you off. I want to see you amazingly - have never been so long from you since I come east. Will you not be at Cambridge Do, I beg you, show yourself. Some

scientific men are not aware that you are alive. Shall I speak to Henry about the Curators bill? Write me a letter that will be at Prof. Gray's before I come. I am sorry to be in Cambridge at a time when I cannot go to Prof Gray's nor indeed scarce speak to him but this once I submit. I have stopping places enough in Boston. I expect to leave here at 3 or 4 & spend the night & Sunday in Greenwich. Saturday to Amherst. After Commencement, 10 Aug. I visit a cousin in Spencer Mass till the Association meets, thence I go to a friends in Rochester N.H. So there you have my plans - but what is man!

Pshaw I visited the Cholera hospital yesterday evening & again this morning. The impression made on me was greater than I anticipated something like fear. I am however very little concerned about myself.

Everybody here is watching themself. Often a light disorder will stop a man's business, such as he would disregard at another time. I mostly laid by for Sat & Monday & even took 3 pills. Up to that time my health was capital for some weeks. Last night I was a little nervous & restless. People do not seem to leave the city much this year. Our raisin box holds out nobly, but has lost its prestige of popularity.

Th. Morn. I am likely to get off in fine order. I have swept this morning the little room cleared off the table & put all to rights Of course the whole table in the large room is covered till packing is over - Love to all your family - Yours ever

S. F. H.

Dear Sir [c. 1848]

Hastings broke me off just in the wrong place in the other letter & was just about adding in reference to my pecuniary affairs that I could nearly see where every dollar was coming from that I must have till August. My Williamsburg trips (from 3 PM till night for $1) will close I think next week. A keen young jew of 14 comes twice a week & takes a lesson in Chemistry for 50 cts - I shall see Miss Haines I suppose tonight. ~~I feel~~

I thank you much for your advice - It is just what I need - I am always aiming at too much - I try to hold myself in. I will state my subjects thus far - perhaps at the risk of tiring you 1 Pistil 2 Stamens - 3 Envelopes - Adherent Calyx & Corolla 5 Review Aracea - 6 Ovule & seed - 7 Endogenous & Exogenous 8 Review - 9 Species Genus order & Class - 9 Symmetry (Aesculus & Papilonacea) Morphology to Stamens. 10 Morphology Pistil (Next porbably a review.

I am in high spirits just at this moment for I think I made out to-day very well. She will get an extra half hour out of me tomorrow & on Friday I meet the juvenile part of the class - I have launched the little rogues (under 11) into the philosophy of Botany over their heads & I must help them swim. Miss Green tells me I have 20 real enthusiasts. If so they come by it fair enough for I scarce think of anything else. I brought in Aracea so early because I could - & Compositae partly to prevent their mistaking heads from flowers & partly because it was a well marked order. I go next perhaps 12 Tissues & Vessels - 13 Trunk & root. I have taught them less than 30 Substantives & 4 adjectives orthotrope &c.

I gave 3 specimens of Calycanthus out last time to three ladies to describe – One was absent today I copy the best of the other two reports'

"Exogenous shrub, dicotyledonous
"Flower

"Two bracts – a calyx of two whirls of 5 sepals each two whirls of petals 8 exterior – 5 interior – 2 whirls of stamens 8 exterior – 5 interior – anthers long – of 2 cells filaments short & connate with the petals – 3 stamens partly turned to petals Pistle, 8 or 10 Carpels – styles connate stigmas distinct ovaries distinct" Would Raf– have founded a new genus on this? All I had said of the plant regarded the gradual passage from ~~petals~~ sepals to petals. 3 others report on Sarracenias tomorrow. But I chatter too– long on this –

Dr Griscom sent here a book which I have taken the liberty to open – It proves to be Medical Botany by R. Egleesfield Griffith M.D. – Dedicated to Yourself & Dr Gray – 300 illustrations copied from Lindley & Burnet &c – Nothing original as I can see – Orders with Lindleys last names & your arrangement – Lindleys alliances being preserved as well as may be.

I did not see Edwins letter – I am not dis– couraged by your account of it. I would not expect an instantaneous return of Gratitude on conversion though it may return suddenly when it does come, as come it must if the work has been genuine – Please inform Dr Gray that I am not in correspondence with Woods – never saw the 1st ed. of his book – 2nd is not yet out I be– lieve – I was willing to aid him it is true – I would any man that did not know that he was a quack eliminating a half dozen errors would never make him a rival to Dr Gray for a moment

Thursday 3 P.M. I have seen Miss Haines – her school languishes in numbers – & they are longer in finishing their studies than was expected. No lectures till fall!

I am cautious in expecting what is still uncertain but of this I felt sure – indeed the engagement was positive – But she has been lavish in paying me beyond what I asked & far beyond what I earned – I do not complain – In all my late calculations I have ~~over~~ not counted any thing from her so my previous remarks on my pecuniary prospects are true or nearly so –

I have just received your note & the Alga – I thank you

Prof Henry is off again

Dr Gorry

Kindness of Prof H

E. 1848

Thursday P.M.

Dear Doctor

I know not at what moment Mrs Torrey may leave so I will just throw a line ready for her. You are surprised at my want of judgement in proposing the bark as a subject of study for a beginner. I proposed it not by any judgement I could form of its ease or difficulty but merely from the fact that I have not been satisfied with any account of its growth which I have read. Jussieu's work leaves the matter in the dark both as to the granular bark & the corky portion. Gray does not even inform us I believe that the epidermis is not to be found on old trees. Lindley is if I recollect right even less explicit than either. But I want a subject that is within the compass of my powers on which I may "try my 'prentice hand".

I have a niece of Croom in my class at Mt Cheguerogo. She promises me specimens from Florida & of the Croomia. If I get seeds of it might I not fill up a chasm in Grays Genera by watching their germination? I am not sure of them however & will not get them for a long time yet.

I have but 5 more Pharmacy lectures due. I must then undertake something great. At present I spend my little fragments of time on my Carices which I am going over very slowly if not thoroughly. I have written a notice of the Genera to-day for the Observer. I am not sure I can make it suit me I am letting it rest till tomorrow to see how it will look. I called on Lorey last evening to introduce a friend of mine a high-churchman. We had an awkward visit there was no topic in the range of human thought on which we three could converse. I have made out an alphabetical index of the synonyms of carices in the manual a thing much needed. If you need it I will copy it for you.

I had intended to see Prof Gray land (at dog light) but I felt too tired & as my lecture hour was 9 I could not see him at all. Did he stay at P. that night? I hope to see him on Monday.

I lecture to night for Br Skinner at Carmine St. I fear I shall be embarrassed on sacred themes without notes but I must try it once more before I abandon it as hopeless. I must steal a little time for sermon writing this summer. Sat Morn. Little thought I when I closed the preceding sentence of what I should next say. It is this. I preached that (Thursday) evening at Carmine St & after the close I was met by the proposition to supply the

desk during the month of August! I replied that it was impossible, but on reflecting more on the matter it accorded so with my wishes or rather with my necessities that I know not what to say. It seems hardly safe to my health to accept but if I decline may it not be the turning point of my life — may not I have written my last sermon? It has always been my grief that while devoted to sacred studies my support has been invariably derived from labors in secular pursuits. So completely is this true that I have received in all considerably less than $15 for preaching in all the 9 years since I left the Seminary. Now $10 a Sabbath is offered me for 4 or 5 Sabbaths. If those weeks be sacredly devoted to Theology & the avails to theological books might it not be a spiritual & intellectual benefit for which it would be worth to risk my health a little? What shall I say?

Nothing new occurs. I saw Prof Dr Smith yesterday — he was going down to Dr Becks — says Dr B. has too many advisers — thinks Dr Swett does better — he adheres to one viz J M Smith M.D.

What is "Canchalagua — a Californian plant of rare virtues"? They are trying to displace Sarsaparilla with it. Chironia Chilensis has borne a name somewhat resembling Canchalagua & has been used for similar purposes. Is Chironia Chilensis a native or cultivated in California?

It is 3 weeks I believe since I put a plant into press. Perhaps only a fortnight. I shall put in a Magnolia macroph. this morning & may get a few in Williamsburg to-day or West of Hoboken on Monday. Mrs Torreys visit has been very pleasant to me, tho' I have not seen her much.

I hope to see Dr Gray on Monday morning, but would be happily disappointed if he should continue with you over the sabbath as he ought & not come on till Monday.

I hope you will in your next work out definitely a task for me for the coming 6 weeks — Either the review of the Genera or some original investigations to strengthen rather than test my powers, which I feel are as yet incompetent to the work. I hear that Beck has out a new botany closely resembling the Manual. Harpers publish it. Have you seen or heard of it. It is very like Beck if you have not. I fear he has got rope enough now. A little reduction of the price of the Manual may be requisite in this view altho I think it cheap now. I have written this letter with a badly constructed fountain pen which has in no way facilitated my labor or improved its appearance. Being as capricious as an ill bred cow about giving down.

Yours

J G Holton.

[c. 1907]

Lucas Mon

My Dear Mr. I have called in vain for you at the Public House. I want you to take tea with me tomorrow Wednesday evening, when we will as I mean to give you full scope at my duplicates for the first time. Bring all your plants & shapers if convenient that you may have some thing to carry home your spoils in.

It was rather a mistake my parting with that ~~too~~ board so long. I am now fairly up a tree & can go no further, till I cut more paper. Nor can your press be made - (the time fixed for that is 7 h. morning) without. I went to the Lyceum chiefly to see you last night.

I have been lame ever since I was at your house.

Dr Torry is gone to Worcester to investigate the Paine

next.

Richard & Hesex will both I think go to the Pines.

Mr Willis invites my friend Le roy, & should he come on without his wife, to take up his quarters with him.

I have sent word as to this reaching you & will to increase its chances deviate from my usual practice & send it unpaid

Yours ever F. L. Holton.

Tuesday P.M. 21 May 1849

Dear Doctor What endless obstacles there must be in the way of a correspondence between Princeton & N.J.! Your letter of Sat. is just received - too late for those drawings to benefit you to-morrow. The object of this is to promise that they shall reach you by the early train of Thursday. I shall go down town on purpose to have this off so that you may promise for certain a lecture on Thursday if you choose. I am sorry I did not get it sooner. I shall not send your Ergot unless you write especially for it. The rest I will make up into a compact roll. I send my drawings of seeds with yours, you will find them of great service. I told you last Monday morning of my new chemical course chez M. Hyacinthe Penguet. I hope you have received that letter ere this, tho' you evidently had not when you wrote last. Harris & Co. have at last got a place - Broadw. bet. Dey & Cortland, 3rd floor. They will positively move in a few days & I hope then the

preparations for alteration & painting will be ready to make but one job of it. I hope among the alterations will be one making the wash place & stairs change places. Each would be benefitted by the change especially the washing. Could not the water be led ~~off~~ off into the Great Vault, a "stink-trap" (Jordan) being interposed? I took my plants down last Wednesday & have them now arranged but have not looked at a specimen yet. I went out yesterday, left to Hoboken. Brought in Orchis spect., Berberis, Juglans Cinerea, & Tomorix Gallica.

I have bought for $4 the relics of a dissipated Doctor, brother to Dr Robertson of Greece. I am ashamed of the purchase because I gave so little & so much — more than it is worth to me & much less than the intrinsic value. Don't you want to buy some stoppered bottles - specie jars - gallipots, blue vitriol, mag. hyd., senna & salts?

Further, by way of spending money

I have bought of Hastings a microscopic copy of Shakespeare 8 vols 48mo for $1. So you will soon find me a literary character no doubt. These, a hat, an umbrella, & a psalm book are all the extravagances I have run into as yet since my accession of prosperity.

You thank me for the lamp – it was all H's doings. I could not get down town that morning.

What color is your general paper – must it not be 23 X 15½?

I have asked again about filters. "There has been none here for a year & more at all at all" says Mrs. Jenny. And I believe she is right. Has not Gilmore or Agassiz got them?

I am now so fixed that I could make no excursion till the middle of July. I must come to Princeton & would like to go with you to the Pines. What a treat to accompany you there.

When shall I begin to study grasses? I know not a genus & scarce a species. Of this my desiderata is sufficient proof.

Indeed I learn but little of any thing. I have learned one thing however. It is to blow hydrogen bubbles; connect the pipe by a flexible ~~reservoir~~ tube to a reservoir.

Tell Ross beforehand where to leave your drawing. Your offer to pay the express is decidedly cool. They are here for my use.

Yours in haste J. F. Holton.

[c. 1849] 1

Mr Willis I have gradually become aware that for some weeks past your manner has been constrained to me and unfriendly. I have been so slow to ~~find~~ discover it ~~out~~ from what ~~reason~~ causes. First I was unwell and attributed the seeming change to my fancy. Again I knew you ~~were~~ must be well aware that without co-operation between us, such as friends only can have, your interests must

suffer. It was not till yesterday that a new explanation occurred to me.

You may recollect that before we engaged I expressed a wish that it were not ~~to~~ necessary for you to put yourself so entirely in the power of those you employ. By refusing to leave till the expiration of the engagement a malicious or enraged assistant might

drive you to almost any terms. You might well therefore prefer that a proposition of separation should come from the other party even where you ~~expec~~ ~~had no grounds for~~ had no reason to fear such a course.

I write now under the supposition that for weeks you have desired such a proposition from me. It originates really then not with me but you. I can

bear a friends infirmities."
Did I ~~suspect~~ suppose this bearing to
be natural to you, it would
not in ten years drive me to
ask to leave you. I do it now
to please you.

The pecuniary
terms shall be easily arranged
if the account current between
us be once satisfactorily ~~arranged~~ settled
and our mutual relations
~~satisfactorily adjusted~~ agreed upon. Both
of course must sacrifice
some - I will take the greater

burden because it naturally falls upon me. Mine chiefly must be the task of two removals in six months. I return to the city too late to procure ~~the~~ places ~~that~~ in schools, which ~~are~~ engage teachers by the first of this month. I lose the $75 I was to receive from Mr Richardson for lectures all of which I had deferred for Winter & Spring. I land in N York without employ-

ment. Yours will be the task of supplying my place. You will I suppose suffer me to select for my removal any time ~~which~~ during your vacation which will best suit such arrangements as I can make at my future boarding place. And while packing I should expect from you the same kind hospitalities which I have ever enjoyed under

your roof. And I hope
you will not think it
too much to take upon
yourself the expense of the
removal as far as the
wharf at N York - inclu-
ding, if it be necessary,
the expense of a journey
there & back to engage a
place for myself before moving.
As to other matters if we
cannot be friends we must
abstain from every hos-
tile act. Our botanical friend

ship & relations need undergo no change, What we have seen of each others faults, or defects in teaching or governing must be passed over in silence even with our most intimate friends. The cause we will assign for our separation shall be a true one the inadequacy of my health to the task. As for the remainder of the session I desire to be exempted entirely from government except

in relation to my own classes and also from all attendance in the school-room, our design of separating being however kept from the boys till I let. I, on the other hand, will engage to spare no possible pains to put my classes in as good order for examination as possible and in all respects treat your interests in the school as you would wish.

I trust that on none of these points there will arise any difficulty between us and our separation, if inevitable will be without bitterness.

Should there be any points on which this paper does not fully meet your ~~mind~~ views I beg you to return it to me with the emendations proposed and I will not be wanting in a spirit of concession

in the other hand should it meet your entire and hearty assent I will try faithfully conscientiously to carry it out.

I have thus descended to minute particulars that you may feel assured that I will not throw the slightest obstacle in the way of our separation if you desire it

I have altered the preceding draft so as to be an exact copy of the paper — so that if a copy should be wanted for any purpose this may answer

Mfork 10 July 1850

Dear Doctor. I returned from Freehold on Monday night. I hoped to find a letter from you but found none. We had a more pleasant & less profitable time than I expected. Leroy & his family started on Tuesday with me but were too late for the boat. I went on alone & no others come except Leroy next day. Willis' kindness knew no bounds; but he was unable to go with us to Squan. Here but for Mr Rowell's kindness I should have been an inmate of a not very pleasant tavern - No offer of any kind was made at Dr K's. The Dr did what he could for us & we botanized together all the time we could spare & he helped us take care of our plants at his house.

He is in a much poorer region than he was. ~~Willis~~ Henry & I resolved to help him fill the lacuna in his 25 sets of Gramma & Lyt. hoping that he might next year get them ready to sell. He has been throwing away his time on an immense hen establishment which would have succeeded if the hens had laid enough.

We brought off a good supply of Scirpus Olneyi. of "Black grass" and a Calystegia that we could not make out.

I found waiting for me a letter from home. My Uncle who was a father to me in boyhood is very sick & cannot live the summer out. My Father too is very old & I fear may not live another

year. He desires too see me very much. My business there demands my attention. My affairs may be more complicated by my Uncles death.

All things considered, nothing ought to stop me but some consideration of the most permanent nature - such as the N.C. affair. If this will be prejudiced by my going I ought to stay but not otherwise. I write this note expressly to ascertain your opinion on this point.

It seems to me that it will make no difference. I can have it telegraphed on to me at Quincy & put so that it will reach me. No man would be expected to be on the ground the week after this election.

I may even have more time than usual & as part of my library is in Ill, & the books a little scattered perhaps, the pending election, were I sure of succeeding would be a further argument for going.

I wait your decision before answering the letter.

Breckenridge advanced a little at Freehold but not greatly – as I feared. Now I mean to have a little spell of hard work. My last bot. lecture is to-day.

Respects for Mrs T & the family particularly H. & M. whom I most desire to see after so long an absence.

Yours truly

J. F. Holton

N York July 12 1850

Dear Doctor

Your acceptable notes of the 8th – 11th are before me. Allow me first to say in reference to a previous one that I had no part in sending that letter to Mrs Shaw which was so long delayed. I find we can do nothing till we can settle our Terminology – Unfortunately I have no good model and have drawn up the accompanying paper at random. Will you please correct it into a practicable shape that we can nail to the mast.

I dont see why when once settled it may not be developed into a description or definition of ferns. I rather want to consider the Stipes as a part of the frond – I find your description of Polypodium procerum page 21 utterly beyond my comprehension

whether I take the English the Latin or both

I am sorry I went to Monmouth now that I have decided to go West for I think it very probable that a visit to Princeton will be inevitable & it must be so short. Had I not to go West I hoped to spend a fortnight with you perhaps <u>even more</u>! At this time Willie had leisure & promised to go with me to Squam. Most of our botanizing was in the pines.

I don't understand Sporangium medial – is it that the Sori occupy the centre of a lacuna or a segment? Sori in linea media disposita?

I am glad Short has got rich. Give my respects to Quoken bridge & bring back any thing rare if you please

I scarcely thought a hiatus possible — there is a long space without a new species. is not that all?

I fear lest I fail to revise this much for Pat. but I will send it back by him & if it comes back next week with the terminology settled I will put it strait through. Yesterday I swept out 2 rooms at College began my ~~concert~~ Spencer & got through Dalichin! I am determined to push at the Library till I have carried the Catalogue half through & then give all the rest of my time to preparing for my start.

But it is after 5 and my P.M. work is not even begun! x

6 P.M. Well I have spent just an hour on ~~it~~ the fern & I do not regret it. I only wish I had more time to spare. I have made all my cor.

x I then gave it up entirely & went to the Forum

rections in pencil so that you can rub them off; except one grammatical slip which will not need rubbing off. I shall now wait till the ~~[illegible]~~ Lenwood comes back before advancing on the other.

closed my last bot. lect yesterday. For my course I got $9 per agreement — Mr Hall of whom I asked nothing, having invited his daughter w/ as your friend, gave me an X including pay for a Gray.

I think of starting West on Monday 27 July

Sat Morn. My determined start has given me numerous letters to write which I have done in great haste; they are hardly legible you see.

Remember me to your family

Ever Yours

J. L. H.

Lebanon – Fair Haven 19 Jul. 1850

Dear Doctor Torrey

By your note last night I learned for the first time that I might write with the expectation of the letter finding you at Princeton; as you had informed me that you would be absent nearly all this week. This & Pat's failure to take that package, have been the causes of all this trouble. Fortunately I have sent nothing to Philad^a for you. I hope you found that proof at the Office when you mailed your last. I corrected it partly ~~that~~ night, I received it partly next day & dropped it into the Box at Dupuys where I went expressly, as I had no stamps & they do not sell them at the nearest box, & I would not trust it without. ~~There is there~~ There must have been some delay that I know not of as I also infer by your speaking of it as ~~sent~~ "some days ago" the day after I got it but Mr G. says he gave it to me the day it came which was Tuesday four days & 16 hours ago now. But I am very much troubled about what Pat should have taken & now I know what to do I have broken it open & taken out the letter & the paper on terminology & sent them with this & hope an immediate answer as I feel all unsettled; & cannot see how I did a thing before settling this. By the way I express no preference for one term rather than another (Sporangia, for instance, or Theca) only I want to see the thing pinned fast somewhere. Lacinia I am sure is correct, not for a cleft torn in a substance, but for a narrow shred ~~shred~~ between two clefts. My distinction between Lacinia & Segmentum, between Costula & Vena may ~~not~~ be improved I think by your knowledge of Fungi. In fact there is

not a thing there that I regard as definitively settled.
I hope you will make it a model for future phytographers.
I am sorry our plans seem to clash next week; I had been hoping to go to Princeton on Wednesday night & leave on Friday noon, staying one whole day. I am straining every nerve to get through the letter F. for Hastings. I am spending I fear too much time on my Cuscus, but I am learning them better.

The past (current) qr. for the first time in N York, my expenses have exceeded my income. It will not be likely to do so again. ~~[illegible]~~ I must draw as much as $30 from my funds, if not more.

There is not a day in which some past kindness from Mr Lorey, does not turn up & fill me with sad thoughts. Why should so good a man be so severe towards one who has always loved him & never offended in aught?

I am anxious to hear from Dr Hunter.
I would like to look at that pumice stone process for ⅊ in Chem Gaz. 1 Apr 1848 I hope it is at the College.
Could Pt sponge or black be substituted for oxydating the ⅊ (as in vinegar) to advantage?

Willis will be with me first P.M. My last lesson is Thurs: A.M.

I am very sorry for the trouble that that delay of proof gave you but I think it was no fault of ~~[illegible]~~ or any one here —

Yours ever J D Holton —

York 19 Nov 1850

To Prof Short

Dear Sir The liberal proposal of yourself & brother to devote $10,000 to a Botanical exploration of W. Africa has occupied my thoughts for some time. Two of my former pupils & two other of my personal friends have gone there of whom two I believe still survive. Another friend of mine lived there some years. All these were Missionaries laboring in a cause worthy of laying down life for. Botany will not justify such risks nor, I hope, will it require so much.

Several motives combine to lead me to enquire more particularly about your plans. Among others I have an intense desire to see a tropical flora. I have been in all the states of the Union except the Carolinas Ga. Fla. Ala. Tex. & California. None of these journeys was ostensibly for the sake of Botany, but the want of Means has alone prevented my visiting the W. Indies for that purpose alone.

Again I am accomplishing less than a man ought to desire. Here I am in a state of pupillage as it were though never could it be more pleasant. But I think it has lasted too long & still I am only following the round of other men's labors. Could your African expedition materially improve my pecuniary circumstances & give me a vantage ground among botanists without too much risk of life I would be glad to engage in it. No ones ~~life~~ hopes & comfort depend on my life. Those who were dearest to me have "passed the flood." My father, more than 80, expects never to see me again, nor do I think he will more than once. While I hope my loss would be widely regretted no one would grieve so intensely for me as for a brother or son stricken down in their midst. Our family is large but I am so separated from them that

my loss would be less felt. I hope too I might be of some service to my Missionary brethren and that would be worth some risk.

Could I go in a National vessel, touch only at Liberia without spending a night on shore, take in there from 4 to 6 acclimated assistants, land at the Gaboon, proceed immediately towards the height of land in the bend of the Niger, taking with me two or three missionary pupils from the interior tribes as guides, interpreters & pupils, going only so far as I could & keep up my line of communications with my base of operations. At the Gaboon I think much might be accomplished without too much exposure. Some sable Peter Kien too might be trained in the while to carry on the exploration in that pestiferous

region beyond any thing that Europeans can ever hope to accomplish.

In such a tropical expedition I should expect to perform no physical labor further than to walk & indicate the plants to be gathered devoting a considerable proportion of my time to the labors of the Microscope. Nor would I consent to make my herborization one continued journey. A thorough exploration of 3 or 4 good localities spending two or three weeks in each would incur far less danger & yield triple the number of specimens & I think even more species.

Lastly I shall take no step in the matter contrary to the advice of my true & best friend Dr Torrey through whom I make this communication to you, and by whose advice I shall ultimately be guided

Yours J. F. Holton

W & P – S Th. Morse [c. 1860]

Dr Sir

Mrs H. says her spine is again becoming affected. Mr H. has scalded both his feet – He thinks drawing hurts her wishes to give it up for the present – I told E. expressly that if he ventured on that plant without your seeing it it was at his own risk – Your direction to me was: 'Please get it, for E is in a hurry for it'. you did not tell me what to do with it & I told him so. I had no idea he would venture on more than branches & foliage – he was competent to estimate the risk & has no one to blame.

No Brass unions were to be had – They assured me they would not differ mechanically from Iron.

As to the report Prof. G. will have the stuff in his own hands – knowing one's will not be affected by it – so of the vulgus will be favorably impressed to one that is not – no prejudice of course.

I think the quasi censure might be so worded as not to injure Prof. G's reputation & at once commend the Nat Syst & help sell the book. On the whole matter I rely entirely on your judgement & taste; I know you would spare no pains to give the book a prestige. I hope yet to see its 10 edition! Let me hope the report will be short as possible. At heart I approve the Artificial analysis as an expedient. I fear I may yet be obliged to use it.

Greeys plants. "Mea culpa mea maxima culpa". The ~~compound~~ bundle was awkward - I did nothing to either of its elements - I ~~had~~ curved the longer slightly - left it in the express wagon near City Hall & went down to the office before it was off - explained the "weak side" of the affair & received assurances of its safety which I was a fool to trust to.

Previous to your last remission you had an outstanding ballance in my hands for general purposes of $ 0.15

Remission 3.00

3.15

Deduct tail & door handle 4.15

Ballance -1.00

you left the listern full of water
a slight scum covers its surface
shall I empty it?

I have just finished my first draft
of my introductory (or mangural in
reality) were you to see it I should
be ashamed to have you know how
much labor it has cost me. I am
sorry the coil leaks.

Yours in haste

J. F. Holton.

Respects to Mrs. T. & thanks to E. for
the run of her plants — doubt whether
I shall avail myself of it

Dr Livingstone from S. F. H.

Friday morning [illegible]

My dear Mrs C

I have just finished copying duplicate statement of which you spoke. There are four persons besides yourself and Mr Carey for whom I would take the much pains to exhibit my use of them a charge which time would show to be groundless.

You know I have not done that in any way to retain your good opinion for you have seen too much of me to suspect for a moment that I would return all Mr Coseys kindness in looking over plants in my herbarium & solving difficulties, by an attempt to divert to myself plants designed for him. You know too that Mr Carey would have cheerfully given me any of Mr C's plants which we already had in his herbarium & that no dishonorable course could have given me more plants

or in better order than I could have obtained from quiet experience. You can see too that my intrigue must have been as bad in its execution as in its inception, being belayed by myself, entirely without necessity to the best knowledge I could have had on the subject.

I know too that you never thought me a traitor in plants. True I never have asked plants without offering a return, but on the other hand I have never asked a [illegible] & am incapable of doing so.

I confess that I have taken unusual hints to make my duplicates accessible to my friends & more so than I would have done but for a hope that my own herbarium would be [illegible] fitted by my labor but I should be too happy to [illegible] that

for every time I give one.
Mr Browne or Mr Dickey will
tell you that I do not set one
for fear that I let them move
but still I give them for the mere
pleasure of giving. I think you
too may even recollect my urging
on you a mirror which you had
not, because it would be of more
importance in your hands than
them in mine.

But I need say no more
I shall not forever forfeit
your kind esteem. Even should
you think my conduct in this
present inexplicable to the
last, he must see at length that
the interpretation he puts upon
it is totally inconsistent with
the context. Once more specimens
are but the subjects of botany
not its final objects. The true

botanist does not value them so highly as the scientist may. I have early been taught this inordinate love for them & I have sometimes shown it by too eagerly seeking them. Hæc ~~mea~~ mea culpa. I will not deny it nor extenuate it. But I am sorry for it & I hope I shall not give — it.

Lastly I beg you to assure Dr Chapman that he could hope taken no course more acceptable to me than he has taken in sending the plants first to Mr Carey rather than I giving out some for me at hazard. Every plant that has been under Mr Carey's eye acquires additional value to me. I only regret the labor imposed on Mr Carey & the unforeseen circumstances arising from the affair.

Yours ever J. T. Holton.

(Please return this. J. T.)

Albany – Sat. Noon

Dear Dr Kirney

I received your letter on Tuesday on my return from Smyrny where I preached to a certain very worthy & intelligent audience – I have been home ever from Thursday absolutely laid up with an outrageous cold. To day I am driven out by starvation – I have done all that could be done in doors – Brackenridge included Page 3 & all the rest lies rolled up on Elisas Table – Your Guy (was) is at the College – I can work off that Brack. (in the style I do) with great rapidity – Send me a dozen quires if you will but

I want some criticism on what I have done. My loneness has prevented my taking up your tickets — I mean to do it Monday A.M. so as to remit by Eliza — The Medal I have not (for the same excuse) been able to attend to.

I go to Freehold on Tues 2 July & leave on Monday afternoon & one or 2 others go. Can't you come down? It would gratify us all very much. My plans for the summer are yet unsettled & must be for a week or two.

Miss Graham says Maj L. has some plants for you

from Holsted — I will have
this afternoon
my case, so that I can move
my plants into it, &c.

The way I have got out is
by cutting a hole in my
boot — I am in hosts
& fear this is not worth
your trouble —

Forster — Agassiz's persecutor
is in town — He called on me
I was stiff but courteous — He
went to Browne — who absolu-
tely refused him a word
of information or even civil
treatment giving his treatment
of A. as a reason — I candid-

ly told him I approved of B's course & that it was but a sample of what he must expect from every scientific man from Portland to Charleston if he did not withdraw that suit. Severe as I was he seemed to think it kindness to what he had met.

Yours in haste

J. F. Hilton.

I hope you can come to Freehold by Wed. every 3 July at farthest.

I. [illegible] Dec 18[illegible]

Dear Doctor

I, with some of my indignations, received a paper filled with fear to your [illegible] and take a spare half moment to acknowledge your last. What changes have two months brought about in your family! The old home where Henry is so soon to leave will soon be no more. The home either of you or of him.

My dear Sir you well know that few persons live in whose pecuniary interest I take a deeper welfare than ~~in~~ yours. Allow me to hope then that the balloncing of your acct-current with the old place will show a handsom ~~off~~ item on the "profit" side. It ought to if the repairs have not cost you too much. But knowing the rapacity of

carpenters I have my fears.
Have you got engaged a
house in N.Y. yet. I hope
you will seek one that
will not hold many guests.
They are an unprofitable
kind of cattle — more trou-
blesome than pigs & less prof-
itable than a surplus
of cats & dogs. Now in this
I say nothing against a real
friend — rara avis in
terris. May you never be

without time to enjoy them and as for space I know they require but little.

I do not believe I over-value money but I know that it is essential to happiness that the outgoes should never exceed the income. In this Micawber has expressed my mind exactly. But I had not thought of running into this Family.

I did not think I could find time to scribble over more paper when I began or I would have taken a larger sheet. I finished, this morning, reviewing my Cyperaceæ & look back upon the whole achievement (including grasses) with some satisfaction. I have now ready for distribution 48 species of Carex, 42 other

Cyperaceæ and 56 Grasses in all 146 Species in the two orders. I should like to thin off my duplicates by putting up some sets & sending to Europe hoping if possible to get Asiatic Australian African or S. American plants in return.

My eyes have been used too much in the night and I am now obliged

to spare them. In fact I do not read at night. I am otherwise in excellent health.

I think an M. D. might be of essential service in getting me out my *status quo* if it could only be arrived at by fair means. It might easily be accomplished at 13th St but I would prefer it from Crosby St

to any other school in the world.

You may depend on my promptly doing all you recommend and, if need be, getting off a quire of letters next week.

I hope to hear from you by return of mail.

Yours truly J. P. Holton

My best respects to your family —

[c. 1880]

Thursday morn

My Dear kind friend

I will just drop you a line to let you know what I am doing - I have got all my plants into covers - Genera of 3 or more species in covers with their names on - all plants between one such genus & the next in <u>one</u> <u>cover</u> with its back turned the other way which equalises the fascicle at both edges.

I exploded one of your test tubes yesterday making two or three small blisters on my left hand with fused Nitrate of Potassa. This is all the my breakage except a pane of glass which will be replaced this week

I have soldered some of the holes in that tin Pneumatic trough - but not well.

I have removed your microscope* to a less exposed situation in the case next

* I believe I have divided this word right

the electrical machine) I
have appropriated the table
on which it stood to my own
use till you return or H. shall
want it. Mr Stewart has
sent half a labratory full of
carboys. Shall Mr Knox put
them down cellar? There are
only 4 after all - but so large.
Can you direct me to make
some caustic Potassa or Soda
or rectify some Alcohol for
you while I have leisure
& a nice fire? or any thing else.

Yours ever I. F. Holton.

Dr Lorrey

Friday P.M. Library

Dear Doctor

Hastings has that Texan matter in hand and nearly completed. He will do as you suggest.

I lack about an hour of being square up to the Cyperaceae & Gramineae and a much dreaded job they will be. They may take me a month. Now I think of it

it will be all but impos-
sible to do them either
at the Coll of Pharmacy where
the Storrs seems to exercise
an adverse influence or
at my new rooms where
I shall have much less space.
Indeed I shall need all the
table room I ever had in
Crosby St. Nothing hinders
my going there but the pres-
ent occupation of the rooms
and your consent. You

see at once that it would be impossible for me to do anything there before the spring clearing, which I hoped would have been ere this. How long will Mr Wurtz be likely to stay there? I hope by all means I can get in by the close of next week if possible. I shall work up all the Crypts before attacking my great task.

It seems that I am

not likely to undertake the Cotologue – tho' the Com. have not yet reported against it. I have now no work for May & June. What do you think of a botany for beginners, for children? I think it is wanted. I think I could do it. Will it pay? Are you going to do all that translating yourself

Yours truly

J. F. H.

[c. 1916]

Friday evening.

Dear Doctor

I have concluded to hurry off my letter at last at a moment's warning as I am now going down town & can add nothing tomorrow. I have gone over my Carices as far as C. aurea, but not thoroughly. I cannot satisfy myself on them. I thank you for Luckenbach's letter. You sent but one before.

I would much rather have one from Gray. I said nothing about your time of payment, for genus covers as they would not expect pay before delivery. I expect Leroy to-night. We go to the Pines to spend the day to-morrow. I do no field work this year as a general thing. I fear I shall collect no grasses. Mr Willis will be up at the time I said. I am well as are our family.

Am I right in writing Prof Stephen through you. If not please suppress & return the enclosed. Yours P.D.

with this. You seem to have written it for a new genus. When reduced to a subgenus ought not the Suffrutex Coliforniens to have been ~~stricken~~ placed under the species and habitat Transeria to have been stricken out? I do not understand squamis (nervo lucri?) e basi lanceolata breve-spinosis. What is a broadlanceolate base?

Sarcodes. Is not this an adjective? Would not Sarcochortus, Sarcochloe or, (if it might be made a proper herb) Sarchorlach ~~[illegible]~~ be better? Or why not have chosen the noun Sarcosis?

[c. 1856]

Thursday evening

Dear Doctor

I find a few minutes now on my hands without any special employment. I find an old envelope with Mrs J's name on it which I have never sent. I find I have about matter enough to fill out this little sheet to you though I cannot think of any thing to write Mrs J. All things considered I will send this in Hastings next so that it will cost you just

I regret to say I can find nothing of those plants we brought to the City together.

its worth—nothing. In re-
vising my herbarium I have
got down to Veratrum. With
those Wickstrom plants I
for the first time intro-
duced insects into my col
lection; I began this week
for the first time to poison
them. I take a bit of glass
tube drawn fine at the
lower end, When it stands
in the bottle it partly fills.
I take it out & the fluid
is managed to admiration.

Trécul has reappeared.
He cannot speak 10 words of
English. For want of an
atlas I cannot exactly make
out his route. He left
Bents fort on the right,
also, I think the Comanche
country. Saw Presidio de
Rio Grande & Lindheimer
but not Wright, sailed
from Port La Vaca to N.O. &
come by land. Novy sent
all his plants to Paris. He
starts soon for California

via Cincinnati Sandusky, &
Oregon, to return Via Santa
Fè & Texas. I was just too late
to send this little strip of moss
paper by Eliza. Can't we do
anything about Herbarium paper?
I guess that Leroy, Richard &
I can make out $50 between us.
Starr annoys me less; he only
burns my cool charcoal & al
cohol, uses my towels soap
& water and some such little
matters. I may study grasses
this spring more thoroughly than before.
Yours J.H.

Friday Pm. [c. 1850]

Dear Sir

A gentleman has left a letter here for you which falls short in weight. I add a line or two tho' I have nothing particular to say altho both of my previous notes were broken off by the sudden departure of the bearers.

I have had a hard week of it having lectured 4 times & to-day feel used up (confectus). Many of my class leave after the next lecture as a quarter then ends. I have kept steadily at the main point – structure of flowers & fruits – only I have taken a flying glance at remarkable ~~tre~~ plants in all orders up to Anacardiaceæ – noticing ~~only~~ the structure of Rannus, Malv, & only Conif.

Tomorrow I intend to visit Durham Swan

with Seligman My only purpose is to bring plants for mondays ~~study~~ lecture & for an analytic exercise to be written after on one plant each. I cannot however lose the opportunity of filling my press which has lain idle all the spring. I spent one lecture this week on anatomy & another on the stem & root.

My last Williamsburg lesson comes Monday. The family move to Singsing on Wednesday.

My Jew chemist has arrived at organic chemistry & stopped. Seven more lectures completes all the instruction I expect to give till September.

If I pay entirely a debt in Illinois due one months since ($39.82) I shall have about $7 left for

subsistence — my wardrobe being now in a complete, but not high, state of order. I have been in debt all the spring and am just extricating myself. had my earnings this year been only $20 more I should be a comparatively independent man. But if I can rely on you for employment even to the amount of $50 I will pay that debt entirely as it will be quite troublesome to make two payments at that distance. As soon as my last lecture is off my mind I will make a vigorous effort to pick up some small job. Now I feel as if next years success hung on those seven remaining lectures and I must put the whole of my strength into them — which by the way is small this week.

I saw Schaeffer for the first time to day - He expects to be elected on the 20th inst - monday week. & to have $500 appropriated for apparatus. I had one call from Eliza & M. Had they taken counsel from my evil genius when to find me in the worst possible plight they could not have hit better - It was my day for putting my room to rights but it had been necessarily omitted to finish a drawing that I must use that day. I had worked away almost just as I was till my pupil unexpectedly caught me & he had not left when they came. I was very glad to see them nevertheless. Will you give me a little more clue, if possible, to Mrs Brooks who has your Grays text book?

Shall we not see you soon

Yours S. F. H.

Freehold 7 July 1871

Dear Doctor

Recollecting that I have some enclosure I have curtailed my sheet so as to barely bring the date on the right page. I have had a broken home for the last month. In my Xerophyllum expedition I seriously injured my knee and till to-day I have been a cripple. I heard all my recitations - took what I must but exchanged Botany for general reading & History. It has made a serious break in my Grammology just where I concluded that Sporbina cynosuroides & polystachya are either 4 species or one. I expect to resume to-morrow.

My lameness spoilt a visit to N.Y. also. Finding I could not locomote, after Lecy Browne & spending a night with my

Nephew I rode to the Station & went up to see Leroy. I spent the Sabbath there & on Monday came down - did the business I came to town for and with great difficulty got off. I dont admire your criticism of my Pendulum article - It was not written for Botanists, & I could not expect you to take the pains with it necessary to understand it.

I am anxious about a cap to a jar I broke & two stop cocks of Mr Brownes that I left in the Laboratory. I think Smith thought them abandoned & possessed them. I have written him & got no answer I could not get to the College when I was in last week, so that I know not whether they have yet turned up.

But my main object at this time is to write about gems-holders. Those will not do – they are too small though in other respects admirable. He will make some more for us if we will take 10 reams. I think they will cost us about $6.50 I want two reams – Leroy one. I think you want the rest. I would upon a fair bake 2½ Leroy 1½ I think – I am writing to him. Leroy may persuade Richard to take half a ream which is the most we can hope to take off your hands. So to make the enterprise carry you really must take 5½ and as it is to be exactly made & cut to suit you I hope you will not hesitate. I have sold Mr. Willis all my present

holders so that mine will be uniform. Otherwise I could have done very well with half a ream. A good stiff set of holders will improve your herbarium immensely & save your plants from injury. Nothing ever did so much for mine as those coarse ones did.

I am more & more satisfied that our pages are of the right size. Very few plants need larger ones & our specimens of such plants generally come to us sized down to our size or smaller. Should we change our size it would be found 10 years hence that not 1 per ct. of our actual specimens needed the enlargement while the bulk, weight & clumsiness of the large pages would counterbalance all the

gain leaving us the expense of the change & an infinity of trouble & plants ruined in detatching from their present sheets all for nothing & worse than nothing. The labor too would be immense. Most of your glued plants could better be replaced than changed & your new specimens would rarely exceed the old. Look at Elatine - Plantago pusilla Schizaea & several thousands no larger see how they would look ranged on the very edges of the enlarged sheets to keep them up even with the centres! No you have no inducement to enlarge & you absolutely cannot - positively never will even if you attempt it.

The new genus holders will release from your herbarium a large mass of

P.S. Can't you get a lower amendment passed? Pure recollection. I reach amendment copy of program for a [illegible]

paper which you will find very useful for Species & for other purposes. I hope to obtain your assent to the order at once

Another errand & I have done. You will see in the Commercial an advertisement of ours. Will you try to slip an editorial - only a very brief one into their columns for us? I have made no attempt. To induce you to do it at this very sitting for no time is to be lost. I enclose the envelope so that you have but to scribble it off on the first bit of paper that lays near you & it will be off in the next mail. I do this at no time is to be lost. I have bored you longer than I expected to. Farewell. Yours J. T. Walton

Free wold 6 - ing 1887

Dear [illegible] or Lovey I had no time when [illegible] ck the letter from Zuckerman. Now as Mr Willis is going tomorrow I must contrive to send you a line.

For myself I have not much to write. Our Saturday's trip brought us nothing important. By the way the cause of Leroys non-appearance was a sad one - the failure of his employer. I fear he loses considerably besides being thrown out of business If you build think you could use him to the saving to yourself of a few hundreds. He has been employed in superintending & paying off workmen on buildings ever since he left the Bible house and by the

same man under whom he was there employed.

But I hope you may yet avoid the necessity of building, as ready made houses boots & coats are always considerably cheaper than those made to order. But if you build you cannot have a better counsellor than Henry. I think too you might like the neighborhood where he now lives, (Lulbegrudy Hook). Mrs Torrey told me in 1839 that she would like a house there. There is a Pres. Church there & a good pastor, son in-law of a deceased capitalist named Thompson whose residence was there.

We intend going to Squam next Tuesday with the whole school to be gone

one night. I have never got in my carices to Concepts Gray's Manual. I have laid aside my microscope (I divided that word so on purpose) & do not read the descriptions. I only look at the plants.

I am going to send you by Mr. W. one species of Carex & perhaps a grass or two about which I doubt. If I can get answers by him so much the better. I do not now work so hard as I did.

Burnop Dubuisson & Holl (is that the firm?) have not answered my letter, it unless it be to you.

I send again those notes you sent me. If they are of no use to you Mr Wallis will buy them back so

that if I might wish to refer to them again I could. I am sorry I have not Darlingtonia & Coleoptera by me, if they were <u>copies</u> merely.

I hope by all means the "Chloris" & not the Fendler papers will be your model. Your paper is in strict analogy with the Chloris I understand. Mr Baird surely will concede this point.

One more item — When am I to hear more from that African expedition? Have you written Dr Short? I am persuaded you can reach the interior safely from the Gaboon.

Yours Truly J T Walton

P.S. In my moderation I send but one grass and one Carex.

NYork 15 Dec 1857

Dear Dr Gray, Did you ever realise what it was to be the owner of an Elephant? Just fancy one, full-grown, looking to be stabled in your greenhouse, to pop out of some corner of a S. African package of plants & you will conceive the mingled admiration & dismay with which I looked at that long array of Ericas - 166 in number. After recovery from my stupefaction I took D.C. & made out a list of the 415 species there recorded & then looked over my acquisition & put numbers on the labels, checked off my list & arranged them in 8 or 10 genus holders numbered on the corners - But a considerable number not in D.C. appeared. These I must intercolate if possible or they will be of no use - But how I am to do it?

I have not the slightest idea. It may be that Klotsch who appears the author of most my troubles has affixed Candollean numbers to his species somewhere; or there may be somewhere an enumeration that will help me. I little suspected the narrow range of the package for I was dreaming of Thelionthus Protea and I know not what all & here come species to make Erica exceed Aster or possibly even Carex! Well it is a beautiful collection & will help deplete my duplicates finely and there are enough that would be glad to get them from me were I sick of my bargain. If you can possibly fix nos to any of these or help in arranging them you will greatly add to their value. I hope to see the others in due time. I am driving hard at my herbarium at present.

Please remember me to Mrs Gray & Dr Torrey's daughters

Yours J. J. Walton.

Ericea in Herb. 17 Holton not
found in Candolle
E. asperrima Kl
absinthioides L
goleiflora Bartl
nemorosa Kl
Mohlstrodes Kl
Mundtiana Kl
soluta Kl
anthina Spr
hemisphaerica Kl
inermis Kl
tenera Kl
plumea Kl
flava Andr
lehonia Kl
erectiuscula Wende
fulvina Kl
Cabracea Kl
fulgens Kl
Paterson Andr
myrsinitha Bartl
ornata Kl

porrigens Bartl
flexuosa Andr
violacea Kl
densiflora Bartl

Westphalomia
Mediterranea

Princeton 8 Nov 1852

Dear Dr. Torrey To day, for the first time since Saturday's lecture I have my working dress on. The ague made me its third unwelcome visit on Friday night. It did not damage my lecture of Saturday but its paroxysm of Sunday came earlier than I expected & was very hard. I went to church soon after it began & before I knew the fact; & after church I went to Dr Macleans. At 5 P.M. I heard the clock strike & readily found where I was but was obliged to wait till the Dr. came in before I could tell whether it was A.M. or P.M. Next morning I could not instantly tell on which side of the Alleghanies I was! Indeed my mind was a little numb till Tuesday morning. The ague is now broken & Dr S. says he will keep it off. But I have lost a great deal of precious time that I needed very much. I have letters to

lectures to arrange, dust to eject from the laboratory, unlabeled bottles to examine & a thousand things to do. I shall only answer Dr Gray's letter to-day. I send it to you with my answer, that you may read both. You see the wag threatens me with a Holtonia barbata! The ire of "The Duke" has not cured him yet. Mr Brownne is out of his reach: unless indeed he should plead that the specific "Americana" would save the great Anglican from the joke of a Bobbrannea. I meant to have signalized my Compositæ without taking them from the case. I have but three large bundles. The Orchids in the first (west) vertical row, the Compositæ near the middle & the Leguminosæ near the last. I have just got news of our election & it gives me little satisfaction. Those KN's delight in astonishing us!

I get along very nicely with my servant. I shall have no difficulty there I trust. Dr M. is very kind. He asked me to tea last night & to dinner to day. I declined of course. We have a new Prof. of Mental Philos. Dr Atwater from Ct, a strong O.S. man I should judge. I took tea there last night, & spent the evening as I was not well enough to work. I do not suppose Mr Cattell is aware that I am in the place. I cannot call there till next week.

I wish you had spoken to me sooner about flasks. Yesterday I found one in a dirt box & the dirtiest thing in it. Its contents insoluble in H appear to be resinous. As soon as my letter is off I will try alcohol on a particle of it. The cleaning has made no perceptible advances since Thursday P.M. I am making an improvement on your crusade against draws. I think

of abolishing cork boxes. What right has one cost to be a top of another? I cannot find Sillimans Journal here & I want to read the three past years. And I should like to see Sillimans Chemistry published late in 1852. On the whole I find nearly all I want here have bought a wash bowl (for Chlorine) & will order some more tin plates for bell-glasses as I have but one. I brought on a 4qt capped bell which I should have done badly to have omitted as a small cracked one was all we have.

Dr Schenck is glad to hear that you are coming out & I am much more so. I have many questions to ask. You did not mention Mrs Lorey's health. To Eliza home. Ask Maggie if I owe her a letter. I will write you again next vacation i.e. the first half of the week

Yours truly J.S.P.

Princeton 13 Nov 1854

Dear Doctor

As to-day is the first week-day in which I have been neither teaching nor sick I can assure you I have enjoyed it as a treat. Do not imagine that "I've been roaming" for bill yesterday I had not gone east of Mr Van Dykes nor west of Dr Shanks but last night I pushed my discoveries as far as Second Ch. & to-day has been a genuine working day. I read over Mr Kents Catalogue, noted some things that College ought to get next year & hunted over the chemicals to see if any thing was missing. I found some bismuth & also what I took for Sb but it did not behave as I expected with blow-pipe or hot HCl. also some more in a paper, powdered. Expect to make Cl. on Wednesday to use on Friday of next week. Will test said powders If you know that is not Sb please

send me out some. I want also a pipette (No 376 Kent 5 Ed) & have no funnel smaller than 5 3/8. I think I ought to have 4 1/8 & 2 5/8 (Nos 236 & 239) & this I believe will put my glass on a good footing except quill tube & one or two other varieties that can all be dispensed with. I sent for a small bottle of strong Nitric Ac (eg 1/4 lb of fuming & Mr Kent sent me 1 lb of common. Is there "wood work" to the blow-pipe gas bags?

But about my days work. Next I had the carpenter in & finally found where the water-pipe was stopped for I have lost all this rain while he was fussing about it. Then I examined examination papers till noon. This PM the carpenter put bars to some flask shelves & on the edge of shelves for tubing, the servant washed out three cases thoroughly & I have been busy enough.

I enjoy myself here highly. I have no desire for running about & all my enjoyment is limited to the laboratory. I have no annoyances & but for the want of gas, nothing to wish altered. I got my sand-bath filled Saturday & hope to-morrow to carry my explorations into the S E corner of the room. I have been to two faculty parties, very pleasant have taken tea with Prof Atwater when too sick to study, called on Prof. Moffat & have made sundry professional calls at Dr Sankey's office, this is all my gadding for a fortnight except calling at Prof Stephen's to give Miss Henry her box. Now I think I behave quite well: don't you?

I have a suspicion that my nephew is in N York. If so & if you can get word to him please let him know that I wish to see

him on particular business.

I forget when I wrote you last but I had a hard time with the intermittent but I was nearly well last Wednesday. On the morning after election the Tribune had one of my N Granada letters in with a queer change of "cursed" for deserved in one place. Did you see it. I am out with the K.N.'s & think they deserve their name for helping Paddy's candidates into office.

We are all looking for you next Friday. Dr S. has perhaps a more disinterested desire to see you than I who have 20 things to label & 40 other questions to ask but I assure you that I have all sorts of desires to see you

I wish much to hear from your family — particularly of Mrs Forney's health

Yours J. Ft.

Princeton [illegible] 1887

Dear [illegible]

[illegible] St. Lawrence

Lecture is very [illegible] of this course, [illegible] of my life. I [illegible] heard my first course for the lecture you read was far worse than any other I ever have delivered in Princeton.

I am now clear of a class that I was roughly warned of for some time and a little uneasy about to the last. I am very [illegible], [illegible] have a deal of work to do to pick up the matter for my last two lectures.

I am afraid Dr. Goodwin will call on you [illegible] Monday before you get this for he undertakes

to bring out my drawings for me. If he does not come on Friday can you make up a roll for me? My own little roll is in the Botanical room of the College in newspapers. You can add to it parts of flower & pollenization & inflorescence & whatever you do not want for other that.

Will you give me some sketch of your course and I will try to be as heterodox as possible. It is well for me that I have been unable to prevent your beginning with cells. I should break down under such a course but your way is best for you.

"Dr George" Thinks I intend
taking a Western Book of
Chemistry. His company has
been quite pleasant to me.

If he does not see you it
will be best to have the roll
fortified somewhat with about
cardboard & sent to Mr Van
Deventer with "from Kent"
on a corner. "From Kent"
means for me.

I am sorry that Margaret if
she was going did not go with
Hastings. There is no fun in
a steamer. Your family have
left only for the country. It
seems a pity that one house
will not accommodate you
all the year.

As I expect to write you again this evening or Monday Morning I will now say no more —

Yours

J F Hobson

Don't you want your letters sent to the Issey Office?

Princeton 4 June 1875

Dear Doctor

You have had a long respite from my pen as I have been ~~[illegible]~~ constructing such things as I needed for my lectures & further I have been expecting to see you every day here. I am in full blast with my botany into which more than half the class have entered with considerable interest but a large minority to me it quite a bore. I have now heated up on my table 35 written analyses of 25 different flowers. A portion of the class are to meet three mornings a week to dissect plants before breakfast. I believe more than

wolf. The class have chosen in their names for it. I am now in fruit & hope to finish my next lecture with Phyllotaxy. I shall have 2 lectures left for Crossence cryptogams & leaves & theory of metamorphosis — For these I want drawings. I hope you will have some little boys to take them down to Mr Burger's, druggist in Cortlandt St as soon as convenient. I am now nearly through all I have here & could send them if could learn that you are likely to use them but I include you do not lecture this summer. My health has been quite poor for a week & it is hard work to keep my class from suffering for it. I have been in school but a very little & how I keep on after a sort.

They said [illegible] after I got through my last lecture. I wonder if it would be much easier were I certain of drawings for the rest of my course.

I am writing to the city today as he did not answer my last letter, & I must soon know what to do with my trawls.

I hope you will come out & if you are here at the time I will read aloud if you will only deliver the metamorphosis lecture. I write to the Zoology Office without permission but it seems as if you must get it sooner.

I would like to hear from the family. I suppose they are all at Freeland.

I saw Dr Schaub & he says they are all well. I made a

visit with Dr Macdonald on your friends behalf which they send love & say that Dr Short will be on this summer. Ought he not to take a set of my plants?

I hope if you are not come out the drawings will be at Mr Burgers as early as Wednesday though they may not be called for till Thursday at 12 M. Please direct to Mr Vandeventer.

We are [illegible] at books & are a mixture of Early Grey & Wood & Hope [illegible] Mrs Brown & [illegible] will sail for Havre & Switzerland on the 30th Best Dr Hikes & Mr Thwaters family are persecuted with the intermittent as badly as I am.

Yours truly

J. F. Holton.

Rumley & Clark - Canada
Sec. adm. and Aud.

Meredith Village N.Y. Dec 14th 1881

Dear Dr Jones

I have been expecting to write to Elizabeth but I have had a great pressure of letter writing this week & 28th I believe since I came here to visit. That I need to write reasonable deferred. But this matter of the last lot of plants begins really to alarm me.

They could not have been taken but by my direction for just those bundles were taken. I supposed it was all right or I would have looked the matter out. I still think that Mr Schultz was the one, if you have not yet spoken to him.

Will you please ask him to take the accompanying note to the Plantation & also

See Mrs Knox & see if any light can be thrown on the matter

I am working hard & with as much success as could be expected. I make about one pastoral visit each night or if they are distant each day & by the close of next week, if I am well, I hope there will be few of the members of the church whom I have not seen at their houses. I exchange next sabbath & have therefore followed my work pattern for this week from Wed.

The fountain pen works well & is very convenient at the expense no corpse & is always ready. In connecting it is as valuable as in continuous writing. It is a hard three days work to empty it.

My people are very attentive & seem very kind. I wish I was more of them. There are increased interest in eternal things. Even ~~the~~ now there is a little more than usual. Should it increase, so will the load on my shoulders; but God will never require of me more than I can do. I am therefore quite anxious to see my duties become even more arduous.

My health is as good as I can expect with so much confinement. I have been on the ice six times but less than one hour at the longest. I have a pleasant room but am not entirely settled in it yet as it could not be prepared for me at once.

The one great deficiency

"that I feel" is a wish of faith in him, & a deep Holy-Spirit. I that I had that Tommy's mantle on me. Such a spirit is I fear rare in this day

I must close

remember me at all events & write me if you can.

Yours truly

J. F. Holton.

N.Y. 22 Feb. 1886

Dear Dr Torrey I believe that at this instant two of your letters one of Elzas & one of Hastings are unanswered! I make amends for all in this (for me) long letter to Hodge that you must read as an answer to all yours. I do not often tell so much about myself & my situation I write a great number of letters or rather notes but most of them very brief.

I wish you had time to look round at Harper's if you can do that in office hours & see Dr Greenley who has my affairs in hand. I wish to show you my Chef-d'œuvre a table of Altitudes Temperatures & productions. I supposed that the temperature varied so irregularly with the altitudes that the ~~Thermo~~ temperature scale could not have equal parts. You will comprehend my surprise & pleasure when you see the results. You may find some Botanical terms

to correct. My views will be strengthened by adding Zeguendama at ~~6000~~ 7500 feet & 54° and altering Bresa to 72½° Fahr.

By reading this letter to Dr Greenhey you will see something how we are getting on. But if you cannot see him but can send round or borrow (and return) the table I should like it. I am very jealous of your time but not so much so of Uncle Sam's.

I think but do not know that Dr Gray has traced at last the missing Granadan plants from Kinsley to the Lusander. Amazing slow work is at it. Had it only gone through Adams' Stratton, who was watching for it would have notified Gray.

I hope I shall get the catalogue of Vienna in season for my book. The indexing of my book is stupendous. It takes a long time to index a chapter. But in the

and any man that is looking for any thing can find it readily if there whatever be the nature of the clew he has to it.

I intend to preach on Temperance next Sab. morn & in the P.M. on Salvation by grace not works. Lecture in evening on Antediluvian History.

I am trying to make my sermons on Prayer do me some good. How I will rejoice when I get out of this book! get this old man off my shoulders.

My fountain pen is a great improvement on the best inkstand in the world. If you use one you must not lay it down often when it is half empty. The hand expands the air within & drives out more ink than you want. That is the only inconvenience -

have scarce laid down my pen now for three hours. When next I want it for little jobs more than 120 seconds each I shall fill it

I really must write no more — If you cannot conveniently answer this ask Eliza to for Herbt) though I love her one & to him much love

Yours truly
J F Holton.

I now open the letter to say that a man has called to announce a second happy death in a very wicked family — first a son went to glory a month ago after six months hope and fear of serious sickness. The aged mother gave herself to God on last Sabbath — was taken sick on Monday & will be buried next Sabbath. The old gentleman who once kept an amateur groggery & spent much of his property in defending it from the law will be called soon — & an very happy

St. Johnsbury Vt 12 Sept. 1860

My dear friend

It is long indeed since I received your kindly answer to my letter this spring but I am almost literally answering it at my earliest leisure. I have just enclosed to the Harpers the last of my book except preface. I expected proof sheets enough to keep me busy here & have none so that for 20 hours to come I have no N Granada to do. I am here nominally on a visit to a cousin, really to see Pres Lehanon who has looked at me and gone home. Their Corporation meets to vote about me next Tuesday. They will concede me a year ~~a~~ minus a term for absence in N. Granada at some future time. I ask a year + a vacation say from Nov 1860 to March 1861. I have not yet told my folks what is in the wind - have refused to take the matter seriously into consideration till elected. The only other room they had in view was lacking in morals so that they

now scarce as Alternative. The devil
any being but $500 the Rogues or
Gibbses let the matter alone. As it
is only by their consent of those worthy folk
that I can have a professorship at all
I suppose I ought to be thankful. Now
if I go there I mean to stick there and
I should be thankful that it is not Princeton.
I am hesitating whether to send this
to day as I am not in a vein for cor-
respondence but it is so long since
any of you have heard from me. I
am feeling stiff with rust over.
Tell your father that tho' I think he
owes me a letter that is not to deter
me from writing again next week as
soon as I have anything to write.
Tho' I suspect now I am mistaken.
and owe him well I never wish for
that. I need have any thing to write
I come to write in. I wonder if
Maggie is at home & how she is
If you are not hurried do write me
soon & tell me how you are all

yet I am.

I believe I will do it
here & not count this as a week.
We look — & look into here as
a poor benighted place — the only spot
in all the great stores that will not give
a majority for Tremont — well we
don't need it and then he gets in
I see we will get the custom house
& Post Office with honest chaps from
the Country & leave the Lunatics
to run the Assay Office as it is.
It's dry in the Metropolis this winter!
I had not with to make myself out to be
a student this winter — fell down on that
but I have wholly refused your favors for me. If
I have not still shown an interest in the
concern I don't know as I could have just
a word — I am working in the
Treasury Department & cover Chamberlain
Very sincerely yours

C. A. Arthur

Pleasant View Oct 18 Ontario

Dear Brother

I wrote to Lizzie a
few days since expecting it would
be my duty to write to you but I have been
elected to the return [illegible] the
I wish I could come home for a
few days and the moment the question was be
decided I would be settled that I
could not hope a permanent home here
that alone might almost settle the
question. But I been disappointed
Grenada it seems that a few days
light work did have power enough
to go with me but I have more confidence
in providence hence I dismiss that question
except that it is understood that
I may in some year be there 8 months
I mean that in short be it is how
ever even in 8 I can accomplish
more than in the 24 I was gone before.
Now as to Meredith. I must do by
me thinks at least the. We have a law
here that if a man is found drunk

in the highway he shall be arrested & not release till he shall have sworn out a warrant against the man that furnished him the liquor. I bore with the justice who is perhaps the main man in the church though he is a democrat and an extremist. I saw a man drunk in the streets a worthless vagabond & I called in to our house our two deacons & the most zealous temperance man in my congregation. All declined acting and told them that if the law was not enforced by others I must either enforce it or leave the pulpit to testify against it. Among other things, they told me that the majority of the people were opposed to the law and but question gave me to infer that the man would be arrested next day on complaint of another person. ~~Since~~ the incident one several other cases of drunkenness have since occurred. I have seen none of these except a respectable member of my congregation

quietly drunk in his own house, & not liable to arrest. This thing hangs over me. I am to stay in it is in the full in lie. that I can say about a different state of things. I am not warranted to make it from any thing I have seen.

I have no love to send to here is states superior & might be [illegible] for you. I don't know but I might have a unanimous call to the here. against this last I know of no valid objection unless the weakness of the body, the temperance matter & the [illegible] call. The difference of salary $1500 & $600 need not be taken into the account.

It will grieve me much to leave the people who have received & treated me so kindly & my first labors in the ministry. I must have a home here. I love here. I think I am better capacitated to prosecute these pastoral labors. I look to your letter to aid me much in the solution of this question of duty.

I have heard nothing from the Members for nearly a week. I do not doubt but that the little rascal is free with his mouth as usual. I intend to write Mr Prince next week. I have not seen Dr Gray and Stannard yet. I have in view, if I know of a good chance of getting it from N, that I will do so from it.

Give my kind regards to Mrs Prince if she is home. My love to Mr. I think I shall spend part of Christmas at home, as I am here to Thanksgiving & spend some part of all the winter & see Boston only before resuming my duties in the Spring. I can hardly hope to see you sooner.

Yours truly S. F. Hatton.

By Mr. Dearborn med. student - Oct. 10th

[illegible]

[illegible]

[illegible] will be presented to you by [illegible] a member of [illegible] an excellent young man who now finds himself in N. York for the first time an entire stranger. He is a medical student and I think your advice will be [illegible] service to him in making his first arrangements.

I have [illegible] a few weeks since & have no news [illegible] that [illegible] half [illegible] next Thursday [illegible] 14th [illegible]

[illegible]

[illegible]

Rec'd. March 14 — Ans'd 24

Middlebury Vt 12 March 1877

Dear Doctor Torrey

I was glad to get your letter night before last. I am glad to see that you rise early: I do sometimes. This morning for instance day was streaking the east as I was streaking it down the hill from the hotel, the grade being too steep & the track too slippery to allow me to put on the breaks. It is nipping cold & I wish I had some of the nice warm things that I laid in for this emergency & wh. are still in N.Y. waiting the R R & Ferry. You too are sufferer in that; for in that box of miscellany lies somewhere my Catalogue of Granodan plants. In 24 hours after its arrival you shall have the list of Bignoniaceæ and in due

season. a better list of the whole than any student here can make you. Yesterday I planned out my herbarium case or "shelves" as they go for in the bill. The wall they cover is 8 ft 11 high & 7 ft 1 wide: the case is to be made of three stories that can be taken apart & put out through a window. Ultimately it will have 18 doors. The bottom is 5 inches from floor, & the ~~top of~~ bottom of the cornice 6 from ceiling. The carpenters have left me & have but little more to do beside this case. My little study that they have taken off the Herbarium room & wh is in a year or two to be added to the laboratory is 19 ft 4 3/4 by 8 ft 4 with the window in the end & an immovable table under it of the same height as the windowsill.

I think I shall have the floor covered with oil cloth. The match-maker is anxious to hear from you.

Your next letter I hope will announce that the bible is secured. I wish we had $100 to spend in elegancies or rather decencies. My colleagues seem to look with approbation on my changes: they are really great improvements. My pump is engaged — a donation from the patent holder — a first class lift & force pump. It has no piston, a disk of india rubber is the only movable thing about it except handle & valves. Queer that they have never yet had a pump! My cistern & sink are ready for the plumber. All waits the first thaw. Thermometer -9½ this morning. I expect soon to go to Pres Laborees to board. I wish

I have lost 8 bottles lime water & a gallon of aq. dist. nothing more by freezing! My P. did not break. Wrote Eliza yesterday at Nash —

you know Mrs. L. She is very different from him: she is very elegant a great reader & a warm unaffected friend. I have lost more than half of my best female friends. She alone has been added to the list since death made the first breach in it. Were only one such to fill the great void of my life!

I am on galvanism. I fear I must amalgamate. I have six Daniels cups and nothing else of a battery that can be worked. Three Stroughs, a voltaic pile, electro-magnet capable of sustaining a ton & sundry electro-magnetic toys, engines &c all well made. But I must write to Mr H to my Christian Democrat P.M. & congratulate him on the defeat of his party. Rum & Democracy have a disastrous alliance.

Love to all. Hope M. will write soon
Yours truly J F Holton

College fuller than ever since Bates left! I did not succeed in winning it last year.

Yours

Middlebury Vt 21 Sept 1857

Dear Dr Dorrey I am back in my old quarters & trying to see if the smoke has cleared away after the explosion of 12 Mlt. I have as yet got very little light indeed, only that a successor was appointed (all the work of a part only of that day!) who unhesitatingly declined. Were the Corporation deceived? It is a little curious that Miss Gordon, not knowing what you said remarked to me a little while ago "You ought never to have boarded at the Presidents. Prof Bittinger an excellent professor was sent away for no other reason than that he was disagreeable to Mrs L. with whom he boarded." But from her further account, his offence was rank compared with mine; for he publicly

condemned low-necked dresses while Mrs L. wore them. I have never assaulted her I am sure, but I have shown myself rather uncoaxable in matters where she had no right to interfere. With Dr L. I think my worst offence has been my disgust (never openly expressed) to certain defects in discipline, particularly with respect to the devotional exercises which have been scandalous. The only complaint he has further made is to the hardness of the questions I sometimes ask in recitations — questions which cannot be answered in the words of the book. "If a hydrocarbon meets with an insufficient supply of oxygen, which element will seize on it"? Now there is no answer to this in the lesson, why then

should I ask it? He tells me the scholars do not consider it fair. I find that scholars frequently recite without questions being asked them just as they do in a geometry class. Moreover the President does not approve of lectures.

As you may wish to know the particulars of the Chemistry examination, I subjoin a list of the questions asked

1 Give the symbol for lampblack. 2 Aqua-fortis 3 Hartshorn 4 Olefiant gas 5 Choke-damp 6 "Chloride of Lime" 7 Rats bane 8 Realgar 9 Kings yellow 10 Red precipitate 11 Calomel 12 Vermilion 13 Copper pyrites 14 Massicot 15 Bone phosphate 16 Gypsum 17 Copperas 18 Cubic nitre 19 Clay iron ore 20 Glass (These were drawn by lot from all the inorganic substances in Groys Chemistry that had common names) 21 Give the equivalent number & volume for Water 22 Sulphur 23 Carbonic Acid 24 Ammonia 25 Hg

34-38 raise a series so are 41-43 & 44-46 & 47-50

Prochloric Acid 26 Hypochlorous Ac. 27 Calculate the specific gravity of Carbonic Ac 28 Hydrochloric Ac. 29 Give the formula for obtaining Iron 30 Chlorine 31 Nitrous oxide 32 Potassium 33 Lead 34 Sulphate of Alumina 35 Alum 36 Alumina 37 Chloride of Aluminium 38 Aluminium 39 Hydrogen 40 Hydrosulphuric Ac. Complete the following formulas 41 $HgS + Ca =$ 42 $Hg + 2\ddot{S} =$ 43 $HgCl + Hg =$ 44 $\dot{Fe}\,\underline{\ddot{Cr}} + 2\dot{K}\dddot{N} =$ 45 $2\dot{K}\ddot{Cr} + \ddot{S} =$ 46 $\dot{K}\ddot{Cr}^2 + \ddot{S} =$ 47 $NaCl + \dot{H}\ddot{S} =$ 48 $2\dot{Na}\ddot{S} + 3\dot{Ca}\ddot{\bar{C}} + 9C =$ 49 $\dot{Na}\ddot{C} + \dot{Ca}$ 50 $\dot{Na} + C$

My present work is grading examinees, labeling a few things for cabinet, gluing & pressing granadan plants, reading & writing letters including some book notices too long deferred. I need immediately that list of N Granadan plants. Have you seen the $5 label press? Eliza will apprise you of my movements after leaving Quebec. My sheet is full so Adieu

Yours J. F. Holton.

Middlebury 19 Oct 1887.

Dear Doctor

The most important enquiries in your last, I had supposed Elisa's letter would answer — particularly the little significance of the mistake that you thought might be interpreted into our announcement of my reappointment. No such thing has occurred, nor would be possible for a year & I think not even. I am not looking for it. I have not settled with the college yet: I mean to let that pass & them call in certain parties for explanations. I have one or two friends here that have enquired but no clue to the mystery occurs yet.

Prof Hadley of Castleton was introduced to me by Prof. Parker as about to open a course of lectures on the anniversary of my acceptance. I showed him all my hiding holes & places of deposit & left him in possession. That was Thursday & I have not heard from him since. He lectures daily, I suppose. The only way you might get some clue from Prof. Parker at Middlebury. He knows more about

the affairs of College Many other professors.

The examination questions were well answered & I only sent them to you that you might judge how severe or how lax the examination was: a refutation to any plea that I had not taught them any thing.

I am steadily glueing plants & doing them very thoroughly but slowly as it is a trade that I am learning. Most of them are glued at several successive operations. I use a knife as a spatula to introduce glue under a place that does not stick the first time & in a few cases lay a plant, when very flexable & large, on the paper dry & put all the glue under. I leave the right hand lower corner for a future label. Have you seen Lowes $5 printing press! The smallest size occupies a space of 6 inches by 8 & prints a sheet of 5 inches by 6! I do not know how fast or how well it works.

Can anything be done to extract from Number a report on those matches. Wade gave him a good scolding from me. I have written him once on the

matter & got no answer, perhaps he would heed a reprimand from you.

Have you seen Drapers Physiology? I am about noticing it. I am afraid his desire of novelty has led him here & there damnably. I understand him to deny not only the existence of species but of individuals also. See page 470 "Plants are operations not individuals." "Analogy between a plant & a flame" see also on p. 106 "The classifications of Bot. Hist are fictions" There is a good deal of ingenuity displayed in this matter & I thank him for going to the very end of the affair unless the denial of the existence of matter & mind would be a possible step second. The work was published by the Harpers last fall & as yet has not met the attention it has deserved. The attack on Wells year book in the N.Y. Observer in August was by me, but this is in confidence. The time I am not at my plants I spend in reading English & German. I have a great deal of back reading to do as I have not caught up since my return from N.Y. I have not made a visit or a call, errands excepted, in this village since my return. I have

been to Cornwall twice & expect to go from there to Port Henry next Friday. I am getting pretty thoroughly tired of the world & if nothing stops me I shall go to my land in Illinois next Spring. Any call to intellectual or religious duties would be sufficient but I do not feel like seeking any. The question is not whether "the world owes me a living" but what service I owe the world. I am myself the debtor, and am willing to pay on demand at my counting but do not feel like running after my creditor. How I miss Mrs Torrey & I have got into my orchids: glued the first of them today. I think all are finished as far as advanced: the rest are between done in Spring. I mean to form a character above par in gluing; & especially to spare nothing that could add to the value of my Gramondian set. I wish some botanist would show my orchids to Lindley after I have got them nicely glued & all the fragments united. I send you on another sheet the removed & blacklist. Also a letter to Eliza. Regards to the rest

Ever yours J. J. Holton.

Middlebury 31 Dec 1857

Dear Dr Torrey

I do not know when the dying year can leave one more saddened than I am here alone in Middlebury. My chief business ~~ha~~ since I saw you last has been waiting. And what I am waiting for comes not unless that be an adjournment of all the hopes of usefulness that I and my friends have ever formed of the benefit the world might derive from my long & varied education. The prospect now is that on or before 18 Jan. I shall leave here for Hillsgrove Ill. there to cultivate my own land till I can sit under my own vine & enjoy an undisturbed ease. I have not sought this result, but I see no leadings of Providence to any other.

field of duty. I cannot be idle and I must go to carry something. My land needs my supervision: the place needs my preaching. And if Providence has there work for me He can call me thence. If I had had in 1843 the same views of life I now have I should have married & settled there then.

It seems a pity to carry my herbarium & library out there if my stay there were to be short

My time has been occupied here chiefly in gluing down my Gravoda-sett. I am as far along as the Solanaceæ leaving a few more besides the Polygonets to be glued in Illinois. I have done them I think very thoroughly & carefully.

What a waste of human life there is in this world! One man drops out of life just after entering a necessary field for which a dozen years of study

has exactly fitted him; another cast out of sight from no visible cause, when the world needs so many true laborers. I no more understand the currents that have turned me into this eddy than I do those of the great whirlpool of Niagara that I soon expect to see.

It is a long time since I have heard from any of your family and I think each of them owes me a letter. I hope I shall hear from you soon.

The little village of Port Henry Essex Co N.Y. has a Pres. Ch edifice & has had occasional preaching only. They designed in Aug. to secure a Ch. & pastor the next year & after my resignation fixed their views on me. But it is an iron village and the revulsion led them to economize &

and depart them enterprise a year. I visited them merely from friendly feeling, and after that they made an effort to change the arrangement for the year to come but it was impossible to do any thing before next August.

I have now just returned from a four weeks' visit to my relatives south of here the first I have made them for a long time

Is Jane married?

give my love to all

Yours J. F. Holton.

Ans. Apr. 15/58 Mt Holly Vt 31 March 1858

Dear Dr Torrey

I fear you do not always read my letters carefully. From what phrase of mine you derived the news of my marriage as a fait accompli I cannot conjecture. Though not the first time I have heard of it, it certainly was the most authentic statement of the fact: it is not so nevertheless. Could I have had my own way I should have left Vermont ere this but the lady is impracticable on that point. "Not before April" was the first approximation: before the 15th" was the second and now before the day is finally fixed I am quite sure that a delay of a week longer will be found necessary.

I have not now your letter at hand to answer: it is in my valise. Your letter was addressed to Middlebury, a day there some time before I received it: one from Eliza took the same course. Most of Feb before last I spent in Port Henry N.Y. with Miss Warren at her brothers who

is physician there. Last week was spent in packing which I did not entirely complete, but as I was not willing to spend another Sabbath either in Middl. or Cornwall, I left a day's work of it & came down here where I have nephews. I preached last Sabbath in Cuttingsville where the Ch. is perhaps in as pitiable a case as any one I ever saw in N.E. The pastor is clean discouraged. I stayed over & we had a prayer meeting on Monday night — nine of us present. They have another to-night & I meet them again to-morrow night & on Fast Day. It may be that the Lord will look on their low estate & help them. Universalism is ripe there. Their pastor is a young man of, I think, moderate talent.

I learned that Dr Labaree is to sail for Europe on 10th. While I was lost in Middl. I ascertained too that there was no present chance of getting any money from College or the Soc.

needed all they can by Henderson and I could make no satisfactory arrangement for the future: so in advice with one of the Prudential Committee I appeal from it to the Trustees.

Yesterday I wrote to Dr L. It was my first voluntary communication with him since Commencement. I have asked him about my disconnection with College and first 'what disposition was made of my paper proposing, at a future time and under circumstances not then determined, the severance of my connection with College.' To that communication I had received no answer & wished to know if it had been read to the board & if so what they had done about the matter. If I can get about two letters from him I think I may then get data from others for my appeal to the Board. I have dreaded this matter exceedingly and am glad that it did not become my duty to carry it through while so occupied in Cornwall. The work was prospering there when I left. It is now in charge of a very good man rather slow & dull

but I hope it is still going on. It was little of excitement in it: scarcely what I should consider the minimum of feeling necessary to conversion in many. I therefore did not feel at so much liberty to encourage hopes as really knew not how to estimate the results of the work as I left it.

I cannot say I am happy now while my main business is waiting. It will take us a long time to reach our future home as we have visiting to do in not less than nine places between New York & Dillsgrove. Miss W. has a sister in Beloit & I a brother in Stephentown N.Y. Pres. Andrews of Kenyon Coll & his wife are both first cousins to her. Was not Edwin Grant there? Where is he now?

Give my respects to Eliza & Maggie, and repair the results of your misreading of my last. I will not try to answer Eliza's letter now, perhaps not till after I have seen her.

Respectfully yours J. F. Holton.

P.S. Should you favor me with another letter please let it be in 10 or 12 days & directed to Cornwall — I visit Westminster, Vt., my native place, before my return.

and -

[illegible]

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a [illegible] Dont know how
[illegible] of them

S. Malden Mass. 31 July 1869

[illegible]

I suppose many of your "particular friends" do not miss me as I go from home [illegible] took leave so [illegible] French that I leave [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] the [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] the whole set. Perhaps you can secure the sending of the rest, for those which came ~~came~~ reached me through you. My first vol. is defective. the last page is 136 but if I can only get the rest I would willingly copy out the missing part.

[illegible] will come back stronger than I have seen her for many a long year —

In haste yours E F [illegible]

Hollin

South Malden Mass. 1870/22

Dear Dr Torrey, -

If we could not have had your visit without sacrificing one in the early summer, I am not sorry that you could not come to us. Next time please come to us *first* and I will go with you to Dr Gray's. A car from the depot where you arrive in Boston will take you to Scollay's Building. If you forget the name of Belmont St. all the conductors know me. Our car starts at the door.

Did you receive a letter from me enclosing one to Garrison, of the Nation proposing to furnish him an article on coinage? He never replied. The enclosed from the Boston Daily News will show you in brief the scheme.

I wish you would examine it and write me as strongly in its favor as you conscienciously can. It is not a little wonderful that on the very day that I proposed the Metric Florin in the American Association, Dr Farr was advocating in the British Association the Victoria, just ten times as large. Its ultimate fractions

would have to be thousandths, a most serious inconvenience. If Farr's proposition should carry, we doubtless would imitate it, but using the Florin for a unit. The French are dissatisfied with their unit & have a variety of projects of change. Their centimes are too small. If the British do not change the weight of their gold they will make 100 half-pence = 1 florin & 10 fl = £1

I think I could furnish Garrison with a very readable article which would reach the British readers. If not I think I will try in some way to reach Dr Farr only I know not how.

I would like to have you write me soon, as there are now three different schemes of change introduced into Congress, not less than two in the British Association and two at least proposed in France, this is the eighth, unless you call it identical with Farr's as it probably is. One coin proposed is smaller than my stiver, a hundredth of the British Florin, or two-shilling piece.

Will you note that my scheme establishes an absolute ratio between the value of standard gold and any commodity sold by metric weights? For example let us

"million or tonneau of coal, (1,000,000 grammes) be $9 = £1 15, or 15 grammes of gold 9/10 fine

simple division will show that any piece of such gold will buy 66,667 times its weight of coal.

15)1,000,000
66,667

We are all as well as usual now after having a very severe time. Our little Charlie had several convulsions with his measles and whooping-cough. His brain is too large. Phillips & I saw the Rendells off for Madura (father & daughter) on Sat. I am finishing my letter this Monday morn.

I still am hoping to go to N.Y. some time hoping to get work. I have read an article "Modern Chemistry" which I do not know what to do with. It is too long and too costly for a newspaper. I do a good deal for our evangelical daily "The News" started by Dr Mavin former owner of the Boston Recorder.

In haste J. F. Holton

On and in this envelope you have the entire issue of my "Lowell press" Mrs Holton sends her love & much regretted that you did not come

THE MONEY UNIT.

The Americans, English and French are all projecting changes in coinage. And there is need; for no even number of gold coins of any nation on earth will weigh an exact pound or ounce, kilogramme or any other weight. Most of them are nine-tenths fine, but the British vary from the rest in fineness. A given weight of standard gold cannot be estimated in any coin by simple calculations. To find its value in dollars, you reduce it to grains, and divide by 25 8-10. To make sovereigns of it, you must reduce it to Troy pounds, deduct a tenth and add an eleventh, and divide by 46 29-40. To find its value in francs, reduce it to grammes and divide by 10-31. To estimate in the Union crowns of Germany is easiest; take its weight in grammes, reduce one tenth and divide by 10. It is reasonable to suppose that when the civilized world settles into uniformity it will be on the best system possible. Can this be ascertained without experiment? The following statements are more or less certain:

1. The best possible system of weight and measures must have three characteristics: 1, each denominator shall be equal to ten, a hundred or a thousand of the next lower; 2, each kind of weights or measures shall bear natural relations to the rest as if a cubic foot should be a peck, and a peck of water should weigh a pound; 3, that there be the same throughout the civilized world.

II. The METRIC SYSTEM, and that alone, of all ever proposed, can fulfil these conditions.

III. The Metric system will ultimately prevail. It is authorized in the United States and Great Britain, and is the only system in three-fourths of the nations of Christendom.

IV. The Money Unit should be a hundred times the value of the least coin needed.

V. The least coin should be about half the value of a cent; the unit about a half dollar, a florin, two British shillings or three francs.

VI. A gramme of gold, about nine-tenths fine would lack three-thousandths of being sixty cents, would exceed three francs by 1-30 part, would lack 17-1000 of an eighth of a pound sterling, will be exactly 1 1-4 Prussian thalers, Bavarian gulden exactly, and 1 1-5 Austrian florins. This coin might be called a METRIC FLORIN, and its hundredths, STIVERS.

VII. As nearly all the coinage of the world is of standard gold, the bare weighing of a mixed quantity of these coins with gramme weights, gives its value in Metric Florins; and this coin becomes spontaneously the international unit. A better one could not be; no other is desirable.

VIII. The statement of a price by weight is readily reducible to a comparison between the value of the article and its weight in gold. Thus when a metric ton of coal (a million grammes) are worth twenty Metric Florins, standard gold is worth fifty thousand times its weight in coal. A fact stated in this form is equally intelligible in all languages, all lands, and all ages.

These considerations seem to us to lack little of being a demonstration that the Metric Florin is the best possible monetary unit, and that the adoption of any other would be merely temporary. The change can be effected whenever the stivers shall have displaced the cents; and 60-cent, three-dollar and other bills shall have replaced our present bank-notes.

The coinage of silver could be resumed immediately, without waiting for gold to come to par, were the silver coins of 1870 made to contain but four-fifths of the silver fixed for future years. There can never, we hope, be so good a time to change, for the only coins to be recalled are the one, two and five cents. The three-cent piece—five stivers—is an exact twentieth of the florin. But the time is soon to come when the channels of commerce must be filled with a metallic currency. Let these questions be rightly settled while our mints are yet dormant.

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Miscellaneous.

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