

Did Tim and Peter promise (would) say much more - End of the
address in London - With my warmest wishes for you the success of your
mission and you safe return to relations and friends
I bid you a warm and affectionate adieu
Joseph Westbury

I found the money for Clark
to Chilton for him to purchase
the bill or the sovereigns
Princeton Nov 1st 1838
My dear Sir

I have been of late overwhelmed with
letters and extraneous business business as well
so trouble seldom comes along I have
been working very hard at my paper and have
broken off by force today to fulfil my duty to
you in the way of preparing letters for you
I regret that you had not so arranged your
affairs as to spend a day or two with me at
Princeton previous to your departure since in
conversation a thousand things would be suggested
which the pen cannot call up - I have given
you a letter to Mr Sturgeon who you will find
a very honest and hard working man who has raised
himself to considerable standing from the lowest
situation - He and Mr Faraday are not on good
terms Mr Sturgeon is at the head of the second rate
philosophers of London - I esteem him and think he
may be of some advantage to you do not fail to
give him my letter since it contains other matters
than the introduction - you can put the letter into the
post should you not see him and leave the package
at the office of the Electrical Journal - I owe
Mr Clark 100 francs Southey Arcade 12 & 17 5/6
for some apparatus purchased for the college and

The package will be sent to Chiltons by the Parson
of Princes who starts on Monday morning

enclose
money to about that amount which you can deduct
off when you purchase the gold coin for your pocket
money — please to pay him as soon as convenient
after your arrival in London — Clark is a very
good workman and will be very attentive to you. Be
cautious with him and while you treat him with the
apparent reserve be somewhat guarded
He treated me very kindly indeed but still I did not
put myself in his possession — If I have time I will
write to Watkins Dr Torrey will probably give you
a letter to him you will find him a good fellow
and I think very friendly to Dr Torrey and myself
you must patronize him if you can in the way of
his business — I will write to him in a few days
in answer to a kind letter I received from him.

— I also send by you a letter and package to Mr
Henipath a cousin of the chemist. This person is an
engineer he has sent me several volumes of the Rail
way Journal — I do not know that he will be of
any service to you I have however mentioned you in
my letter — This letter you can drop into the office and
leave the package at the rooms of the Royal Society
in the care of the assistant Secretary Mr Robertson

I also give you a letter to Nicol of Edinburgh who was
very kind to me my letter is therefore one of acknowledgments
as well as of introduction of you please send it by the book if
you should not see him — I hope you take according
to the promise of Dr Torrey some specimens of fossil wood
for Nicol — do not forget I also give you a

Dr Holland is vice President of the Royal Institution

letter to Kemp whom you will find a very ingenious man
and very willing to communicate to any persons
I also give you a letter, to Dr Holland of London a
gentleman to whom I believe I have been regularly
introduced but who was always attentive to me when
we met He appears to be a person of leisure
is much about the Royal Society and the Royal
Institution and I believe is a manager of the latter
He is a great admirer of Mr Faraday and will
probably be of service to you - The clock this
moment strikes 11 and I start early tomorrow
for Philadelphia I have not given as many
letters as I intended you will however find no
difficulty on that score too many letters would
rather be a burden to you Should you meet
with Dr Forney's young Quaker friend Mr Christie
give him my best respects - I was obliged much
against my inclination to name a day on which I would
dine with him the time however was well spent and
the company at his father's house highly respectable and
very agreeable - I have little to say in the way
of advice you will probably find it difficult to
preserve your equanimity and not find yourself falling
falling into an unnatural state of feelings and actions
or in other words assuming a character not entirely
your own You will of course be a little watchful
of yourself on this point and endeavour to carry yourself
as modestly and unassuming as is consistent with true
dignity of character. England is to us a fairy land & when
we find ourselves actually there and in the presence

of those whom we have long considered almost more than
human and find them but more superior perhaps in some
respects to ourselves and treated by them with strict attention
which forms a part of their hospitality we find our
at first a little unsettled ^{and} placed in the unenviable
condition. Give old Pease a blowing up about
Chiltons apparatus which I purchased and hail
for I am laying out of the use of my money all this
while and cannot settle my accounts until the
arrival of the articles - Tell him I will advise

O

Dr Ara Gray
Care of Dr Chilton
Broadway
New York



all americans from dealing with him unless he
fulfills his engagement ~~his engagements~~ - I regret that
I have not a lot of my papers to send with you I hope
however that I will get the article published before
you leave England - The investigations are the most important
I have ever made. I have an agent in London Mr O Rich
no 12 Red Lion Square I will write to him by the next Packet and
thus introduce you. He will be of much service in the way of purchasing books

Confidential

Barnstable Dec 12th 1846

My dear Dr

I have been so much
overwhelmed with business
since I last saw you that
I have not found leisure
to give a moment's attention
to the article I promised.

The die is cast and I am
sold for the present to Washington
I have accepted the appointment
at the solicitation of some of the
friends of science with the
hope of saving the generous
bequest of Smithson from
utter waste. I have formed
a plan which if I am
permitted to carry out will
I am sure render the Institute
more

of the highest importance to
the science of our country
and aid the labours of
every true working man
of science among us.

If I find that I cannot
succeed in carrying my
plans and that the money
is to be squandered on
brick and mortar at
Washington I shall resign
and leave to others the
honour of the pervasion of
a noble Request.

I shall endeavour to
stay proceedings at Washington
and get time to elaborate
more definitely my plans
by conversation with scientific
Friends and otherwise

I must see Pierce & yourself
I regret that the Regents
have published a report
of their plans because when
once committed a politician
can never change his course

I start for Washington
this morning - Since my
appointment I have been
overwhelmed with business
and feel rather over worked.

I have made up my mind
to the most despicable rotundity
of newspaper praise and abuse
I have endeavoured to be
ignorant of what is said
and shall continue to do so
of me unless my honour is
unpeached

Your friend

Joseph Henry

Dr Gray

Providence Nov 5th 1847

My dear Dr.

In consequence of repeated
journeyings between this place, New-York,
and Washington ^{since} my visit at the north,
my unanswered letters have so accumu-
-lated that I have only been able to clear them
off after several days of constant labor.

Your letter, though not the least interesting
of the lot, was accidentally been left among
the last to receive attention.

I am much gratified with the
appointment of so respectable and influ-
-ential a committee and I am confident their
opinion will have great weight with the members
of the Smithsonian Board.

I have no suggestions of importance
to make in addition to those we discussed
when I was in Cambridge. Should the National
History Society of Boston see fit to give an expres-
-sion of opinion on the same subject it might
perhaps be well for them to state that though

they approve of the establishment of a national museum yet they think it highly improper to put the support of it on the Smithsonian bequest, the income of which can be much more efficiently applied in the way of advancing natural history by the publication of extensive original memoirs on this subject.

The next meeting of the Regents takes place on the 8th of December and it is highly important that I have the report of the Acad^y in my possession before that time.

I rejoice to know that our friend Agassiz is producing an admirable effect in New-York which cannot but redound to the good of American science and the advantage of your new school at Cambridge.

Milnes and myself when I return to Washington are to make an attempt to get up an audience for him in that city. The project originated with Milnes but I shall give it ~~my~~ ^{the} cordial and industrious support. It was my intention to propose to the Board

to engage Agassiz to open the Smithsonian Institution with a course of lectures as soon as the first wing of the edifice is fit for occupation which will be in the course of next summer probably about May and should the present plan not succeed the other will be carried out as soon as the engagements of the Professor at Cambridge will permit him to deliver the course. I am sure he will be of much service to Boston and myself in carrying out our plans for rendering the Smithsonian Institution useful to our country and the world.

Please give my kind regards to your fellow Professors particularly to Rice Feltow and Dr. Walker I regret that I had not an opportunity of seeing more of these gentlemen as well as of the other members of your faculty.

I was highly gratified with my visit to Cambridge it forms a bright spot in the events of my life ^{and} will always be conspicuous in my memory. I hope to have an opportunity of discharging a part of the debt in which you have involved me by attention to you

and yours at some future time in Washington

I learn from Mr. Walker that Pease is very busily engaged on the investigation of the map of Neptune from the motion of his satellite. How much interest this subject continues to excite! and how much on this account has it added to the national and intellectual pleasures of the world!

I remain as ever

truly your friend

Joseph Henry

Dr A Gray

Professor &c

P.S.

Possibly in the report of the committee it will not be advisable to give me the credit of the plan of the Smithsonian developed on the programme. It is indeed eclectic I have taken hints from all quarters and put them together.

J. H.

age the spirit of economy which
now appeared to actuate the
members of the Board and
because I thought if Owen was
removed from the Board the
whole could afterwards be
adjusted. There was however one
stipulation which I made namely
that Mr Choate should have an
opportunity to be present and
objekt to the Resolutions if he were
so disposed. For this purpose I sent
him two telegraphic messages and
one to Mr Sewell. The latter gentleman
came on and by means of another
message induced Mr Choate to
start for Washington. Mr Sewell
was very anxious to be immediately
engaged in the duties of his office
though by the terms of his appointment
he was not to begin his services until
the Building was in a fit state
to receive the Books - Mr Choate
at first objected to the Resolutions
and insisted that the purchase

Confidential

Washington Aug 10th 1848

My dear Sir

I presume you have been
expecting a letter from me for several
weeks past, and I regret that I have
not been able to give you any account
of the prospects of the Institution before
this time. Indeed I am still unable
to say what a day may bring forth.
The Board continued in daily session
for three weeks and since their
adjournment I have been much
occupied in preparing the Report
and proceedings for publication.

The Report from the Amer. Ass^y
came in good time and served
a good purpose. I regret however
that it gave me the whole con-
-it of the programme since it con-
-tained all the suggestions, so far
as I thought them valuable,

of all the persons with whom
I consulted on the subject;
and ^{because} by giving me the credit
for the whole affair would
be given were the article pub-
lished. The programme was
provisionally adopted in
full with a few unimportant
additions and corrections made
by the committee of organization
to whom the article had to be
submitted and I was charged
with carrying ^{it} into operation
so far as the appropriation of funds
for the purpose would permit.

When I came on to Washington
I found Owen busily engaged in
devising a plan to increase
the income of the Institution
so as to cover the odium of the
expenditure on so large a
building. For this purpose he
proposed that the operations
of the Institution should be

limited to an expenditure of 15
thousand dollars annually
instead of 30 thousand until
the end of 4 years from next
month or until the building
shall be completed, the other
15 thousand with its interest
to be added indirectly to the
principal and thus to make
the annual income ever after
40 thousand dollars instead
of 30. I at first gave but little
attention to this matter I was
however surprised to find
that Owen had brought over
every member of the Board in
Washington to his scheme and
when I found that it met the
approbation of Buche I was
induced to look upon it with
more favour and at length
to desire its adoption, at least
in part, for I wished to ensure

Name is a proposition in the House to look into the affairs of the American Academy of Arts and Sciences. This I think will help.

to back me I think all things will go well during the present year. I hope to be able to receive Pines paper in the course of two months. The Ethnological memoir is not yet published - it could not be completed until after the meeting of the Board because I had but 1000 dollars to expend on the article. I start tomorrow for New York to make the final arrangements for the printing of the memoir of Squas and besides the wood cuts and plates are nearly all finished.

The attention which Squas has received from some of the great men in Boston and New York has nearly turned his head and caused him to give me considerable trouble.

I will write to Pease relative to his paper. What I have given you is confidential as ever your friend
Joseph Henry

of books should be commenced immediately he however I think came to regard the proposition more favourably, and on condition that Mr. Sawett should be immediately employed in the way of preparing catalogues and making arrangements for the purchase of books at the proper time the Resolution passed. During the present year I shall have about 7000 dollars to expend in the way of memoirs, apparatus, &c. and as I am not anxious to push the operations too rapidly, I am, for this year, content with this sum. If however all things go on well we shall require a larger sum the next year which must be drawn from the interest and the desired results (the increase of the fund) - produced by an extension of the time of putting

up the less essential parts of the building

I had no idea at first that Mr Owen could have any chance of getting into the Board after his time expired, Mr Rush has signified a desire to remain a Regent during his absence and there was therefore apparently no vacancy. I was however surprised by the proposition from one of Owen's friends that Mr. R. should be made an honorary member and Mr O elected in his place. Finding that Owen would probably get in I had a free conversation with him and insisted that he should resign his positions in the executive and organizing committees and confine his whole attention to the building. To this he agreed. The Board after an on motion of Gen. Strong recommended Mr O. as the successor of Mr Rush. His appointment however has not yet taken place. He will

probably be nominated in the Senate and the nomination sent to the House for concurrence. I know not what will be the result.

At the beginning of the session of the Board I presented my report which should have gone through the hands of the committee on organization in accordance with the resolution of the Board under which I acted. I showed it to Basch and Hilliard and then presented it to the Board. It was well received and ordered to be entered at large on the minutes. A resolution was adopted directing the secretary to report annually the condition and operations of the Institute so that in future it shall not be controlled by a committee.

The executive committee now consists of Seaton, Beebe and Pierce, and with the two latter

Washington May 23^d 1848

My dear Sir

I presume that you are still somewhat interested in the affairs of the Smithsonian and desire to know what we are doing. I should have written to you before this but I am so occupied with correspondence that every letter counts one. I may however write to you with less care than to others and consequently with less hours of time. All things relative to the Smithsonian Institution are now in a quiet state the attacks made upon it at the beginning of the present session of congress have caused without any serious result and I think the prospect of the stability popularity and usefulness of the Institution is every day becoming more & more

P.S. The Smithsonian Reports still in the hands of the printer and are expected in the course of a week or two

favourable. The library committee of Congress to whom the nomination of Mr. Owen was referred have come to the conclusion that there is no vacancy and that the absence of Mr. Rusak is not a sufficient ground for his leaving the Board. Mr. Owen is in the city and apparently acquiesces in the decision of the committee.

I hope in due time to get control of the affairs of the Institution. The members who were in the Board at the time of my election are fast passing out and those which remain are either my fast friends or take but little interest in the affair.

The memoir of Davis & Squier is still in the press but will be out in the course of a few weeks. I think it will make one of the most beautiful books ever published in this country. It has however given me much trouble printing in New York. While I am in Washington is a very convenient arrangement

I have however to establish a small
 printing office in connection with the
 Institution. In the publication of the memoir
 of Squier and Davis I made one false step
 which has caused me much trouble namely
 I allowed Squier to superintend the engraving
 and the printing and he has I say thus in
 confidence proved wholly unworthy of the
 trust. I have however to get through with
 the volume without further difficulty The
 building is rapidly advancing and will be
 ready for use in one way in the course of the
 present summer. I have concluded not to
 attempt to stop the erection but to endeavor
 to control the expenditure. Some in due time
 Congress will be made to see the injustice of
 putting the keeping of the National Museum on
 the Smithsonian fund and not only pay
 for its keeping but also in part refund a part
 of the expenditure on the building which has
 been erected to contain it.

Dr. Hare offers under the condition that
 a suitable room be provided to give
 his apparatus to the Smithsonian Insti-
 tution. His gift will not only be of importance

to the revolution in the way of research and illustration but also as serving to establish a precedent which I hope may, forgoingly bring us in other donations. It will also serve to increase the confidence of the public in the stability and character of the Institution. I have received several papers for the second volume of the Contributions and shall commence the printing of it as soon as the first volume is through the press. It will be I hope in September.

I have been considering the the subject of Reports and wish to consult you particularly on this point. All our operations thus far have been of a scientific kind intended to increase rather than to diffuse knowledge. I have thought of getting prepared before the end of the year of possible Reports on the following subjects

- 1 On the present state of chemistry as applied to the agriculture with simple directions for the analysis of soils &c
- 2 On the economical and other uses of the forest trees of our country their mode of culture method of transport &c &c with a popular description of them &c &c
- 3 On astronomy giving a sketch of the

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lular discoveries and particularly what has
been done during the last few years as well in
our country as ~~abroad~~ ~~there~~

It is on the phenomena of lightning with details
for protection from the danger of meteor and

These reports should be prepared on the
plan of the Systeme monde of Laplace sufficiently
popular to interest the many while it will also
interest the few. The first report will be prepared
by Dr Lewis Bush the second by Dr A Gray
of Cambridge the third by Professor Pierce
or Professor Loomis and the fourth by
Professor Henry. What say you to this arrange-
ment? The report on astronomy I should
prefer to have prepared by Professor Pierce
were it not that an account of his own labors
would be included. How would it answer
to give the report of the discoveries made
abroad to Pierce and those of our own
country to Loomis?

As to the compensation for these reports
I can say nothing very definitely the
whole is as you know very much a matter
of experiment. The price should not be put
so high as to make it much of an object to prepare
these reports and yet sufficient to reward
properly the labors of preparation. The Board
appropriated 500 dollars for a beginning of reports

Besides the Reports. I have mentioned Professor Bailey of West Point as a person
to give me a report in the case of the connection with the description of new
trees objects.

during the present year but something may
be derived from the sale of the articles. Suppose
we should say ~~\$450~~ ~~of paper~~ from one dollar to
one dollar and fifty cents a page with an
addition to be derived from the sale or
the writer to receive a certain number of copies
to dispose of on his own account. What is the
amount he has given by the North American
Review?

Besides the Report on the forest trees of
our country much good might be done by
giving a report on the foreign plants which
may be advantageously introduced into our
country the mode of culture to be adopted
perhaps this might come in under the other
report but I think the subject demands
a separate article which I think would
be made the bases of a session in congress
several members have spoken to me on
the subject - This report might be prepared
for the next year I depend upon you to take
charge of the botanical branch of the
reports unless Dr Torrey should wish to join
in some of them, do not attempt to dictate
the report on forest trees but give the
subject your immediate attention. I would
have written to you before on this subject
but could not properly do so until I saw
my way clearly. Write to me as soon as con-
venient and confer with Pierce on the contents
of this letter
I remain as ever truly yours
Joseph Henry

Dr. Torrey

Washington

July 17th 1848

My dear Sir

On my return from the North I found your letter on my table and I here waited from day to day that I might be enabled to acknowledge the receipt of the book you mention, but owing to some unexplained delay, it has but just come to hand, I shall not fail to show it to Mr Pearce and to the other members of the Board of Agents now in Washington.

I agree to your several propositions as to the Report. Funds can be advanced from time to time to defray the necessary expense during the progress of the work. I should like to have a programme of the plan to present in my next Report, and then the first number ^{appear} (may) in the Autumn of next year. I am pleased with the idea of illustrations from original sketches, and in all cases of illustrations it will be well for us to procure original drawings and not to follow the ordinary custom of copying from stereotyped figures. With regard to compensation the methods you propose will be adopted provided Congress should not see fit to publish the work as a Public Document. In that case an equivalent

remuneration to the one proposed will be made you
Even should the work be adopted by Congress, we can
strike off another edition on better paper for sale

As to The Genera of the Plants of the United States I cannot
speak at this moment so definitely, tho I have little
doubt that the assistance in amount you mention
may readily be procured. The only quibble in my mind
is the proper method of effecting it without interfering
with our general plan and establishing an unusual
precedent. Were the work in the form of a quarto
volume such as we could adopt as a part of our
Contribution to Knowledge there would be no
difficulty in the case. Perhaps the simplest plan will
be for us to subscribe for a certain number of volumes
and the as early as convenient the testimonials
you mention and I will confer with the Regents
in Washington

I have just received a letter from E. Deben
the friend of Agassiz, asking to be employed in the
preparation of a Report on Natural History. Inform
me confidentially as soon as possible, if you
consider him a proper person for this work

I remain Very
truly yours &
Joseph Henry

Dr. A. Gray

Princeton Oct. 5th 1846.

My Dear Dr,

The first volume of the Smithsonian Contributions to Knowledge is now in the hands of the binder, & will soon be ready for distribution. Can you oblige me with a list of the foreign institutions to which you think it ought to be sent? To what institutions does the American Academy send its transactions?

I am about beginning the preparation of my report for the next meeting of the Regents, and hope you will not fail to send me the programme, you have promised me, of the report you are to furnish on the forest trees of the U. S.

I have advanced to Dr. Torrey \$100, to be expended under your direction, for drawings to illustrate his paper on the rarer plants of Oregon.

The meeting in Philadelphia for the promotion of Science, I think was entirely successful, & the association bids fair to exert an important influence on the progress of Science in our country.

I remain, as ever,

Your friend

Joseph Henry

Dr. A. Gray,
Cambridge.

Washington Dec. 22nd 1848.

My Dear Doctor,

The Board of Regents is now in session, & all things relative to the Smithsonian are apparently in a harmonious & prosperous condition. The east wing of the building is finished, and will be ready for use as soon as the heating apparatus is arranged. Prof. Jewett will enter on his duties immediately, & will relieve me from much that is irksome & unprofitable to me. Mr. O. is no longer a regent, & by the loss of his election to the Senate, will probably not be able again to secure a place in the Board.

My Report will be given in to Congress about New Year, & if in the course of a few weeks you can furnish me with the promised programme of your Report on forest trees, I shall be much pleased. It may be printed as an appendix at any time during the session of Congress, though it would be best to have it prepared as soon as possible.

I am not yet quite clear as to the manner in which we can assist you in the continuation of the publication of your work on Botany. According to the financial arrangements adopted at the last meeting, one half of the income of the original bequest is to be devoted for the next three years, or until the

building is completed to the building fund. This arrangement was at first proposed with the idea that all operations relative to the collection of a library would be postponed until the building should be completed. The friends of the library however would not consent to this, & they insisted upon calling in the services of Mr. Jewett at the beginning of the present year. This was agreed to, & both parts of the general plan will hereafter be carried on jointly, the portion of the income remaining from the building being divided between them. Though I do not think that we shall adhere rigidly to this arrangement, since we shall require more money to develop the plans of the Institution, — yet much economy will be required in conducting our operations, & but little expenditure will be allowed for objects not immediately embraced in the programme. I think it however highly important that your work should be continued, & I regret that it was not at first presented as a contribution to the Institution. Cannot parts of it still be presented in this form, so far as they are original, & afterwards be republished in your volumes? You might in this way save the expense of the plates. If you still think we could most effectually aid you by the purchase of — say a hundred copies, I will place the proposition before Mr. Marsh & those most interested in the library, in order

that part of the purchase money, if not the whole, may come from the library appropriation. If our funds were entirely free at this time, I think there would be no difficulty in adopting the plan proposed, & if you can wait until three years from next March I doubt not that the required assistance can be rendered. I hope however that you intend to visit Washington during the present session of Congress, & that we may have an opportunity of ascertaining definitely what can be done.

What is the state of the paper in preparation for the second volume of the Smithsonian Contributions, on which I have advanced \$100 to Dr. Torrey?

We have just got into a new house, & shall be happy to furnish Mr. Gray & yourself with accommodation, when you next come to Washington, under our own roof.

If the east wing of the Smithsonian building is ready to be occupied before the close of the present session of Congress, lectures will be commenced in it; & if so, cannot you oblige us by giving a short course? Our funds will not allow us to pay much at present, we might however give you enough to defray your expenses here & back, which might be an object if you are obliged to visit the city.

There is an attempt making here to

vice the National Institute, & Bache & myself have been solicited to allow our names to be included in the list of officers. We have however declined; though it is a difficult matter to know what is the proper course. The expense of keeping the Museum of the Exploring Expedition ought not to be put upon the Smithsonian fund, while on the other hand the collection should be under the care of some institution properly organized. If the National Institute would confine its operations for the present merely to the care & increase of the collections now in Washington, it might render good service to the country, & in time, under other direct or indirect character. It cannot however ever become a National Institution in the proper sense of the term without securing the coöperation of all the real men of science in the country. But this can scarcely be accomplished because they are so widely separated. Washington is not, like Paris, a nation in itself.

Mr. Henry joins me in kind regards to you & yours -

I remain, as ever
truly yours

Joseph Henry

Dr. Gray.

P.S. I have now a confidential assistant who relieves me very much by writing to my dictation. J. H.

a very pleasant house directly
in the rear of the Patent Office
and are now comfortably
situated. The affairs of the
Smithsonian are now getting
into order Prof. Sewett has retired
on his duties and will relieve
me of some of the drudgery to which
I have been subjected as men of
all work for the last two years.

The Board of Regents have adjourned
after a very harmonious session
all the arrangements I was anxious
to have made have been settled
to my satisfaction. Your report will
be printed as soon as it can be
prepared - I think we shall be able
to purchase two copies of your book
provided you can wait until the
end of three years. I enclose ^{copy of a}
plate from a survey which I presume
he intends for one of his papers in the
Smithsonian Contributions. It is very
beautiful. I remain as ever
Dr Gray
truly yours
Joseph Henry

Washington Jan'y 18th 49

My dear friend

Your favour of the
1st of Jan'y was received last week
by the hands of Capt Daves and
I have delayed answering
it until I could get some de-
finite information as to the
appointment of a botanist
to the boundary survey.

I wrote immediately to Col.
Emory who has been appointed
to command the expedition but
did not get a reply until
yesterday. I enclose his letter

you have no idea of the diffi-
culty of transacting business in
this place and how much my
time is cut up and dissipated
by visitors and correspondence
of an unimportant kind to

obtain a single interview with
one of the heads of departments
during the session of congress
members having precedence
of all others sometimes waits
me several calls. Most
of the business has to be transacted
at this season of the year by
letter and these answered
by clerks. I make these
remarks to excuse myself
in part for the seeming neglect
of your communication.

Naturalists of late have
become quite plenty. I have
now on my table six applica-
tions for assistance in obtaining
situations as explorers of California.

I doubt whether any appoint-
ment of the kind will be made
this session. Beston thanks

all operations of this nature should
be performed by the officers of the
Army or Navy. He has introduced
or asked leave to introduce a
bill for the discharge of all civilians
from the coast survey has attacked
the geological surveys & the ex-
ploring expedition. Though he
has but little influence at present
yet he is feared.

I will see the secretary of
state on the subject of your letter
and endeavour to learn differently
whether an appointment of the
kind can be looked for from
the present administration.

I am sorry to learn that
Mrs Gray has been unwell
but now she will soon be
restored to health. When you
come again to Washington we shall
be able to offer you and
yours a room we have taken

Smithsonian Institution

July 7th 1849

Fossiliferous

My Dear Dr

I have called upon the Secretary of state and though he professes himself very favourably disposed to advance the cause of science he does not give me the slightest encouragement relative to the appointment of a botanist on the boundary survey. He informs me that there is nothing in the act directing the survey which will authorize such an appointment.

I am sorry to say that I do not see our way very clearly as to the adoption of your botanical work. Were the matter to do again we could manage it without difficulty by adopting the whole as a part of the contributions. Now it must either be adopted as one of the Reports or we must purchase a sufficient number of copies to enable you to go on with the publishing

There ^{are} difficulties in each course
but the latter appears the
most feasible though we
cannot adopt it until the
building is finished. I hope
however to have a long confer-
ence on this and other
matters when we meet.
In the mean time I hope
you will not forget the
Report on Forest trees. Could
not a considerable part
of your other work be introduced
into this?

I wrote to Agassiz a few
days ago authorizing him to go
on with the preparation of
his plates for the illustration
of the paper on the Cetacean
remains. He sent me one
of the copies as a sample which
I think very beautiful.

We hope to get out a volume
of our Reports in the course of the

next summer. Among the number
will be one on the application
of science to arts, giving the
more recent improvements.

Remember me to Prof. Penn
and your good Lady and
reassure for yourself the assurance

That I remain as
ever yours &c.

Joseph Henry

Dr. A. Gray

Cambridge

P.S. I have written to Dr. Torrey
to prepare a Report on the present
state of our knowledge of the
Physiology of Botany. He does not
however seem willing to engage in
it for the present at least.

Washington July 21st 1849

My dear Sir

Your letter of the 8th inst was duly received by Mr. Lovering and I have to regret that owing to the press of business under which I am now labouring and shall continue to labour until the adjournment of Congress I had not an opportunity of giving him as much of my time as he is entitled to from his connection with you.

The Secretary of War has sent this afternoon the accompanying letter which though it is perhaps not quite what you expected yet I hope it will be of much service to your Botanist.

I have just had an interview with an officer of the Army, Major Kendrick of the 2nd Artillery under orders for New Mexico who will be much pleased to collect plants for you provided you furnish him with a set of directions as to the method & you can address him at Jefferson Barracks near St. Louis. He starts for Santa Fe but will probably make many excursions in to the country around. He is a graduate of West Point and has much taste for Science. I wrote a few days ago to

inform you that I could not get any
encouragement relative to the appointment
of a botanist on the Mexican boundary.
Major Kendrick was recommended to me
at the War Department as the proper person
for your object. He belongs to Company
B. of the 2nd Artillery. He leaves Washington
in the course of a few days for St. Louis.

With regard to the adoption of your
General I scarcely know what to say
we are so pressed for funds and shall
be so until the building is completed,
that I had concluded to begin nothing
in the Report line but articles of a
more popular nature such as the
Report on Chemistry applied to Agriculture
the Report on Forest trees. Give me
a particular account of the work of the
number of volumes it will occupy - of the
cost of each volume including the plates
of the number of copies which should
be struck off - of the plan of offering
it for sale - of the time which would
be required to prepare and publish
the work - whether it should come out
in volumes or in parts. I hope your
good lady has recovered and that free
from all interruptions you are now
proceeding with your usual ardor and

~~sway~~ the mission allotted to you in the
distribution of our duties by an all-wise
and benevolent Providence.

All things relative to the Smithsonian
are just now in a quiet and apparently
very favourable condition. You have prob-
ably seen by the papers that the Coast Survey
has had a little brush but it has been made
the stronger by the contest. What a noble
report was that of Pierce and the other
members of the committee of the Acad^{emy}. It
produced an excellent effect in Congress
and was worth a hundred clap net
puffy articles such as are usually got
up for the purpose of juggling the members
of our national Legislature.

If the scientific men of the country will
only be properly united they can do much
for the advance of their pursuits through
assistance from Congress. Politicians as a
class are timid except when they have
an object which they know is worthy and
in the advocacy of which they are sure of
being sustained by authority.

All the world is to be here in the course
of the next two weeks. One of my very interesting
acquaintances (I do not boast) has been
nominated for the Secretaryship of State
I allude to Mr. Clayton.

Give my kind regards to Professor,
Reverend Geyor, Gould and Bond
and receive for yourself the
assurance that I remain as
ever truly yours &
Joseph Henry

Dr Gray

If the ^{new} ~~fact~~ papers congress to estab-
lish a new mint in the city of New York
Dr Torrey must be appointed one
of the officers. All his friends must
write on this. The appointment
would be just and popular

J. H.

Smithsonian Institution

Washington. March 20 1849.

My Dear Sir

I beg leave to inform you that Lieut Woodbury, U.S.A., has left this city within a few days, to join his command, at Fort Kearney, which is about two hundred miles above the mouth of the Platte River. As he has agreed to collect, and preserve the plants of that vicinity for you, I subjoin his address to which any communication you may please to send him must be directed; viz Lieut Woodbury, Fort Kearney (via Linden) Atchison Co, Missouri.

Dr Foreman, my assistant, gave him such instructions as, default of better, would aid him in collecting and preparing the plants, but it will be best that you write to him yourself, and give him such definite instructions, as you may think proper, with directions as to their transmission home.

Dr Foreman has suggested that you should furnish detailed instructions in regard to the method of collecting plants, which we may have printed, and ready to furnish on any occasion which may offer. It might be well also, to have prepared, similar instructions for the collection of other objects of Natural History - and, could you not prevail on Dr Gould and other Naturalists in Boston, to furnish us with instructions of this kind? Full credit will be given to the authors.

I fear the adoption of your "Genera" just at this time will be too heavy an undertaking for us, but if you can delay the publication, untill our funds will be free from the expense of the building,

we can then go on with it. For the present, the Report on Forest Trees will be as much as we can do, in the way of Reports on Botany. You mention the propriety of our purchasing the stones, and I agree with you in opinion as to this. We have just paid \$150, for the stones on which we engraved the 52 quarto maps of L'equier and Davis' Memoir. At this rate, the stones from your genera, which might be used in the Report on Forest Trees, could not cost much, and I could advance the money for them, at almost any time.

Enclosed I send you some letters, extracts from which, you may send me, should we conclude to make any arrangement in regard to the "Genera".

I remain very respectfully

your obedient servant

Joseph W. Henry

Secretary of Smithsonian Institution

Dr Asa Gray

a few days in Washington to recruit
and then return to the north.

I remain as ever truly
Yours friend &
devot

Joseph Henry

Dr A Gray

P.S. Mr Lewis Haynes of Bloomsburg
Tioga County Penn^a starts in a
few days for California
via Fort Independence St. Fe &c
I will request him to make
a collection of plants for you

I wish you would send
me the instructions I requested
in my last letter. J.H.

Washington April 2nd

My Dear Dr.

49

I write to suggest that
in the preparation of your Report on
Forest-trees you apply to the Hon
Mr Marsh of Vermont for informa-
tion relative to the economical
value and uses of timber. He was
once engaged in lumbering and
has I think much information
on the subject. I have found
him since I got under his belt
a most estimable gentleman
of extraordinary acquirements
not only in literature but also
in general science.

Washington presents just
now quite a contrast in
appearance to that of a month
ago. The deluge of office seekers

has subsided and the
Hotelkeepers herein again
a vacation.

Professor Kappeler has just
finished a course of four lectures
on Greece which has been attended
with full houses. The lectures
appear to have taken very well
though they could not be more
than half understood on account
of the pronunciation of the speaker.

I think courses of lectures
in Washington will tend to do
much good there are in the
several offices of the city many
intelligent gentlemen with small
salaries who will attend with
their families provided the
lectures are free.

We have not yet got into the
new building though it has been

promised to us for three months
past, we shall however probably
move into it this week.

I have heard since this
letter was commenced that
Agassiz has arrived in the
city and that he is in bad
health. I will call on him
and let you know more
about him before I close
this letter.

When you next visit Washington
cannot you bring with you some
of the large drawings of the Lovell
Institute and give us a few
lectures on botany or any other
subject you may choose?

I have seen Agassiz he appears
to have been overworked but looks
much better than I expected to
see him. He will remain

the introduction only in obedience with
the authority of the law. I gave a
brief history of the discoveries in electricity
bearing on the telegraph - an account
of my own experiments and of the communi-
cations I have had with Mr Morse
on the subject. The result of the trial
I think will be doubtful - He claims
too much but I am not certain that
the law will sustain his right to
the use of electricity & magnetism for
making and recording marks though
in justice I do not think it ought to do
so. I was detained on account of the
difficulty in verifying dates by the publi-
cations and was obliged to spend two
days with Mr Chase in the library of
the Academy.

Mrs Henry joins me kind regards
to Mrs Gray and in grateful acknowl-
edgments for your unwearied attention to
us we shall ever remember our visit
to Cambridge as one of the most pleasant
periods of our lives - Let me hear from
you as frequently as convenient. - With
the assurance that I remain as ever
your friend I am your obedient
Dr. A. Gray
Joseph Henry

Reverend Horse
Saturday morning
Sept 1 8th 49

My dear Sir
I regret that after
dining in Boston since
Monday night I am obliged
to leave this morning in the
train for Albany without seeing
you. I expected to be detained
but two days and to have spent
a day with you - but I was
not released until yesterday
at 2 o'clock and then I was
obliged to do some business
which occupied me until
night when I was so fatigued
I was obliged to go immediately
to bed. Mrs Henry proposed each
morning since Wednesday to go to
Cambridge without me but I
expected to be received every after-
noon and hence she delayed her
visit that I might see company her

The cloak which was left at your house probably belongs to Dr. Ad. Bache. He has lost a dark blue one with velvet collar and lined lining with holes in the back eaten by a mouse. Please send the cloak to Mr Bond the astronomer who will forward it to Dr. Bache — By mistake Mrs Gray's veil was put into the ~~carriage~~ when we started for Portland — I leave this to be sent to you by the omnibus to Cambridge — Please put the "etna" into the bundle with Dr Bache's cloak with a paper attached on which is written "From J. Hewny" — I return you with this the letter from Lieut Alwood relative to the polar plant — I have no fault in the success of the experiment he wishes tried. It is however very easily made. Borrow from

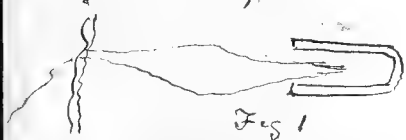


Fig 1

Lowering a strong horse shoe magnet and carefully approached the two legs of the magnet to the wind of one of the leaves so that a leg may be on each side. If any action takes

place it will be shown by the tilt of the leaf being attracted by the one pole and repelled by the other as shown in figure 2. If no action takes place the leaf will remain as in fig 1. Care

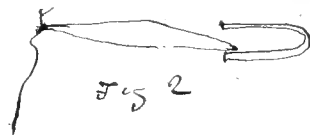


Fig 2

must be taken that the motion be not produced by the disturbance of the air and to prevent this two pans of glass may be used as screens on one either side of the leaf the magnetic action is not intercepted by glass.

I also send you a letter from Bailey which he requests should be referred to you. Please give me your opinion of the proposition which it contains and return the letter to me at Albany. I am obliged to hurry ~~back~~ to Albany in order that I may make a visit to the observatory at Toronto before I return to the south. Bache and myself have concluded to have constructed immediately for the Smithsonian a set of self registering magnetic apparatus and in order that there may be no difficulty in using them it is thought best that I accept the invitation of the director of the observatory that I should visit him for a few days for that purpose. I gave my testimony in the telegraph case unwillingly and as I stated in

Smithsonian Institution
Nov 21st 1849

My dear Dr

Your favour of the 19th has just been received. We shall be much pleased with a short course of lectures from Professor Harvey on his return from the South if he cannot give them when he first visits Washington. We cannot pay much, the drafts on our income on account of the building have left us for the present in rather low water. We can pay 25 dolls per lecture and any expenses which may be incurred on account of illustrations. Prof. H. could give us three lectures in a week and would therefore not be long delayed in this city.

I regret to learn that Sprague is unwell and that he comes on slowly with his drawings. I hope you will keep him alive, he is too valuable a man to be allowed to slip off the stage for want

of attention to his Physical condition.

The second volume of contributions is in the press. Eight memoirs have been received and accepted, I have concluded to print each memoir separately after the plan adopted by the Academy of Brussels. I do not think there will be any difficulty in the way of reference, if on each memoir we give the vol. and the number of the article in the vol.

I hope you will not draw on me again, if possible, until the 1st of July we shall then have from interest upwards of 20 thousand dollars. The building has been raised on very rapidly this fall in order to close it in previous to the beginning of winter.

I would be pleased with an account of the progress you have made in the Report on trees to present to the Regents at their next meeting which takes place on the 1st Wednesday (the 2nd) of July. Also an account of the exploration of Wright, and any other suggestions ~~which~~

which you may be pleased to communicate.

I have spoken to Professor Sawitt relative to Michaux and he agrees with me that it will be best for you to secure the copy you mention for the library of the Institution, you can have the use of it for the preparation of your report.

All things relative to the Smithsonian appear to be in good condition. Our 1st volume has been well received abroad, and all the learned societies of Europe, from present indications, will exchange with us.

The box containing the articles you sent was received a few days ago; the books presented by yourself, have been deposited in the library, and will be acknowledged.

I am rejoiced to hear that the health of Mrs G has improved, and I shall not fail to inform Mrs H of the message to her. Dr Hare is at the table with me while I am writing this letter and bids me give you and your good lady his kind regards and to assure you that there have been but few days of his life more pleasant than those which he spent at your house.

with 20 lines.

Dr Torrey's youngest daughter is to spend
the winter with us; she is expected at the
opening of congress. Shall we not have the
pleasure of a visit from Mrs Gray and
yourself this winter? Cannot ~~we~~ you
favour us with a course of at least
3 lectures - We shall, I think, be able
to make your time pass agreeably in Washington
and both Mrs ~~A~~ and myself would be delighted
to have you for our guests.

I remain as ever your friend
& servant

Joseph Henry

Dr A. L. Gray

P.S. Please sign the accompanying
account and return it to us. The
allowance for ~~charges~~ without further
explanation may produce some difficulty
in crediting the account. J.H.

P.P.S. Enclosed I send you samples of
shavings from red wood for examination
under the microscope J.H.

Smithsonian Institution

December 30 1849

Dear Sir

I wrote to you several days ago enclosing an account to which I wished your receipt appended. Not having heard from you I fear my letter has miscarried. We send you a second copy of the account.

Also enclosed is a copy of a letter from Dr Troost upon which I beg confidentially to receive your opinion. What is the character of Dr Troost as a naturalist? Is he up to the present state of knowledge upon the subject he mentions? Will his paper be an original contribution to knowledge, or will it form one of our Reports? Please give me some information ^{on these points} as soon as possible that I may answer the Doctor's letter.

I remain very respectfully & truly

Your obedient servant

Joseph Henry

Dr Asa Gray

Smithsonian Institution

Smithsonian Institution

February 19 1850

Dr. Asa Gray
Dear Sir

The package of plants mentioned in the letter of which the enclosed is a copy, has been forwarded this day by express to your address. I beg to request that you will examine the specimens and inform me as to their value, and whether any of them would be worthy of special description in our contributions or some other publication.

I have also recd. a letter to the Secretary of War in behalf of Mr Wright, and I agree to your proposition in reference to the additional subscription of One Hundred dollars in his favor.

I am unable to say when the memoir on Wright's collections can be printed. The operations of the press here are so slow that I can make no calculation as to the time of the completion of the present volume.

You can draw on me for One Hundred Dollars in behalf of Mr Sprague.

I remain very truly and respectfully
Your Obedient Servant

Wm. A. R. ...

Smithsonian Institution

Smithsonian Institution

February 26 1850

Dr. Asa Gray

Dear Sir

The draft for \$100. in favor of Mr. Sprague was honored yesterday. We have received the accompanying letter from the Secretary of War. It takes no notice of our part of our communication requesting him to furnish a general letter to officers of the Army in the regions to be explored. We shall write again and call attention to this point; and if any letters are obtained they will be sent to you. We have also written to the Mormon delegate for letters.

We send an official circular from the Smithsonian Institution which we hope will answer the purpose for which it is intended.

Prof. Agassiz has arrived and lectures to day. In order to save time, I have concluded to give the printing of his papers in charge to himself at Cambridge. It is impossible to get on otherwise than very slowly with the publication of memoirs in Washington, and since we have adopted the plan of printing each separately, provided the same type and similar paper can be obtained, the work can be as well done in Cambridge as here. We can thus have two memoirs in the press at the same time. If you will take charge of the printing of the paper on Wright's collection, it may be put to press as soon as you can prepare it. I shall place full confidence in your discretion and prudence with regard to the expense; and shall request

Prof. Agassiz to confer with you with regard to the printing of his memoir, although I have the fullest confidence in his caution, still he may not have as much experience in doing business in our country as you have.

I have no objection to the proposition you make with regard to the working off, by Mr. Prestole, of the copies of the plates for coloring.

The proofs of engravings for the Report on Trees were sent sometime since to Cambridge by Mr. Cooke, tutor in Harvard.

I remain very respectfully and truly

Your Obedient Servant

Joseph Henry

Sec. Smithsonian Institution

256/200

L

L

12

10

Smithsonian Institution

May 17 1859

Dr. Asa Gray

Dear Sir

The plates for Prof Baird's memoir may for the present remain with the Lithographer. We have written to Baird requesting him to send on his Manuscript to Cambridge.

The directions you have given with reference to clearing off the stones, to be again used, is proper. We shall be ready to pay Sourel's bill when it is presented. I wish you to look into the financial part of the business, that the bills are not overcharged. There is a disposition on the part of artists to charge extravagantly for work done for public institutions.

The proofs of the memoir on Mosasaurus has been received. I am much pleased with the appearance of the printing, and agree to your arrangement with regard to the Commission, though I am not fully decided whether the word "which" or "who" should be employed; as there is some doubt on this point I leave it to be settled by the literary men of Cambridge. As Ellet's paper is not yet published and any alteration may be made which is needed. I have not a copy before me and do not recollect the phraseology of the sentence to which you refer.

Your draft together with that for paper will be honored when presented.

The memoir on Mosasaurus is to be marked 2^d Vol, but I am undecided whether the No 5 shall be affixed to it - I find upon examining the Transactions of the Academie Royale Belgique that the articles in the Volume are not numbered the advantage of which is that all memoirs on similar subjects can be placed together. I wish you would give this point some consideration. Vol. 2^d must be printed on the side as in the memoirs of the Academy above referred to. I am pleased to learn that Dr Wyman has consented to act in your place whilst

you are about.

Please to inform us whether you can take charge of a box of our Contributions intended for the learned Societies of France, and where they shall they be sent in order that they may reach you.

We send a copy of a letter from Mr Living relative to Mr Wright. Mr Partlet an intimate acquaintance of mine has been nominated as Comptroller.

I remain very truly and respectfully Your friend & servant

Joseph Living

Secretary S.I.

[Faint, mostly illegible handwritten text, possibly bleed-through from the reverse side of the page.]

Smithsonian Institution

London, the 1830

My dear Sir

We have concluded not to trouble you with the box for France, and we shall write to Petrean to return it until called for. Accompanying this I send you a letter of introduction to Ingham and if you wish any thing else of the kind while abroad drop me a letter and I will answer it by return packet I shall expect to hear from you occasionally but I know your time will be too valuable to allow of many drafts on it in this way.

There is one thing I am anxious you should do for us while in London namely to call on the widow of widow of John Pittall the widow of the confidential servant of James Smithson. We have lately purchased through the Hon Ab^l Lawrence from this person a portrait of Smithson and since she must be old and consequently her tenure on life very uncertain, I will be willing to collect from her without delay an account of all she knows and all she remembers of Smithson. There what

falls from her lips in writing. I make this request
of you because there is no other person I can
trust with this commission. We shall send
her direction by mail with the next packet
if we should not be able to find it you can
learn it of Mr Lawrence. We find that
from some letters in our possession which
came with the picture of Smithsonian from
Mrs Fittall that there is another portrait
of our Patron saint in the possession of
a Mr Hungerford - please make inquiry
relative to this of the old woman. You will
of course do this business without giving it
an air of too much importance (excuse the
remark it was unnecessary) Mr Harry
Stevens who was engaged, as you know
to prepare for the Smithsonian Centennial
the Biographical Americana has thus far taken
charge of the distribution of our books in
England and the reception of donations in
- tender for us. I may say to you in confidence
that I am not very much pleased with his
course though, I do not wish to make any charges
against him. He is a dealer in books as well as
in literature, and is rather inclined to be more prom-
- inent in the character of the former than that of the
latter. He has sent in our boxes in an irregular

manner, a number of books which might lead
us into difficulty with the custom house.
These remarks are intended for you. Eliza
Professor Guyot leaves here or rather has just
left in the afternoon train for Cambridge
via Albany - he will not reach home until
the latter part of next week - Professor Bailey
is now at our house. He has returned from
the south somewhat stronger, but not much
improved in his throat.

I think it probable we shall succeed
in adjusting our difficulty with regard to
the building. The proposition now is to finish
the outside and as much of the inside as may
be required for several years and then gradu-
ally complete the remainder as it may be wanted
out of the accruing interest - At the meeting
of the Board on Saturday last it was resolved
a disposal of our stock worth 240,000 ^{dollars}
and out of the sum to add enough to take 150,
thousand dollars to be placed along with the
original 575 thousand, never to be expended
this will make our principal \$665,000
which will yield us nearly 40,000 per annum

I have not heard anything concerning
the health of Mrs Gray for some time past
I hope she will be much benefited with
the year and that your visit may
be highly pleasant and profitable to you both
- I am writing this in the Institution

would join me in kind wishes to Mrs Gray and
yourself — we are all well but begin to feel
the influence of the heat of this extreme climate

Paul Berche is much afflicted with the
incurable death of his last brother who was
lost in the surf from an exploring boat on
the coast of California

I remain my dear Sir as ever
truly yours

Joseph Henry

P.S. We have not the present address
of Mrs. Fittall she lived in the days of Smithson
at 238 Upper Chadwell — since then she has
lived on rather his husband 27 Jubilee Place North
mild end, Old London.

The person who communicated with Mr
Lawrence on her behalf is A. P. Bone 22
Percy St. Bedford Sq. London. Her name
is Mrs Elizabeth Fittall — this is all the
information in my possession

J. H.

2 and
May 6.

American Institution

Washington April 3^d 1857

My Dear Doctor

Your interesting communication of March 14th was received about 3 days ago. We are much rejoiced to learn that you are recovering from the effects of an accident which nearly deprived you of life, and an account of which gave much pain to your friends on this side of the Atlantic. They are also pleased to learn that Mrs Gray is much renovated in health, and we hope that you will you will both return, physically as well as mentally, improved by the voyage.

We had a letter a few days ago from Dr. Harvey in which he reports good progress in the preparation of the first part of his memoir. The cost of this will be very great in proportion to the means of the Institution, but as you know, we propose to spread it over at least three years and we have also concluded, at first, to color but 550 copies to supply the market and our foreign list of distribution. It is not thought advisable to present colored copies to the Colleges and other public Institutions of this country.

Your remark in regard to the National Institute is very true. No doubt the reputation of this country has suffered much on account of the operations of this society, and indeed though it has apparently been dead for some time past, its malign influence still exists. During the last twelve months I have been much troubled in connection with it, by endeavoring to direct in a proper channel, the business of the Central Commission of the Great London Exhibition which Mr Clayton unfortunately placed in its hands. I opposed the proposition of having

any thing to do with the matter believing that it would involve an expense of time, money and perhaps of character. I was however overruled and made out of a committee of five to attend to the affair. The result was, that after much trouble the Executive Department of the Government, was induced to grant the use of a ship to convey the goods to England but declared its inability to appropriate a single dollar towards employing an agent to attend to the business abroad. The result was that Peter Force Joseph C. G. Kennedy and myself were obliged to be responsible for the outfit of Mr. Stansbury who accompanied the articles to England.

I had some thought of making the trip across the Atlantic during the coming summer, but circumstances of a pecuniary nature will prevent the execution of this design.

We shall be much indebted to you for your kind interest in Smithsonian exchanges. The second volume is now in the hands of the binder and I hope will be ready to be forwarded to your care in the course of a few weeks. We have during the last year received from different Societies in England, copies of papers and transactions to be distributed among institutions and individuals, and from this the idea has been suggested that we might render good service to the cause of science by acting as the ^{scientific} agents of exchange between the United States and the different parts of the old world. In furtherance of this object we have petitioned the British Government to admit our packages free of duty. With our second volume we shall send to most of our foreign correspondents, copies of a splendid book relative to the Indian Tribes of N. America prepared and published at the expense of the Government. Prof. Baird is much interested in this scheme of exchange and will superintend its execution.

The books from the Bavarian Academy have not yet arrived though I presume they will be received in due time.

The distribution of the volumes in Paris has been entrusted to M. Bossange who I think will prove an efficient agent.

All the affairs of the Institution are in a prosperous condition

though the funds will probably, for some years to come, be burthened with the erection of a building. It is certainly too bad that in this civilized age, literature and science should be obliged to make such a sacrifice for the reproduction of the mementos of barbarism.

I remain very respectfully and truly

Your friend and servant

Joseph Henry

P.S. I am glad that I still live in the memory of Henslow. He was very attentive to me while I was in England and I recollect him with much pleasure. You perhaps remember that I was not so fortunate in my intercourse with Prof. Lindley and that he afterwards complained to Dr. Torrey of my conduct in regard to him. The circumstances as I recollect them were as follows. Dr. Torrey promised me a letter to Dr. Lindley and gave me a package to deliver to him. He however forgot the letter and when I arrived in London I delivered the package without leaving my address, thinking this unnecessary as I had no introduction to present. Dr. Torrey afterwards forwarded a letter of introduction but before this arrived my time had become so completely absorbed in the numerous engagements I had made, that had not the letter contained some matters of business I would not have delivered it. I sent it however to Dr. Lindley but unfortunately neglected to state my address. After much trouble he found my lodgings and called upon me at a most unfortunate hour. I was at Dr. Bache's lodgings, my trunks packed and ready to depart for Paris. I was engaged with Dr. Bache in preparing an article for the press - I had no place into which I could invite Dr. L. when he called - He mistook my embarrassment for a desire not to make his acquaintance and

under this feeling I presume wrote a complaining letter to
Dr Forrey. I regret the occurrence and certainly under other
circumstances would have been highly delighted to have formed
a more intimate acquaintance with Dr L. and to ^{have} received ~~the~~ his
attentions with becoming thankfulness.

J. H.

S. H. H. H. H.

...

...

Saturday
Albany, Sept 27th - 1851

My dear Dr

I learned from Dr Torrey, for the first time, on Tuesday that you had returned to this country and I immediately resolved to give you a short visit - I came to this place with the intention as soon as my business was finished to return by the way of Cambridge but unfortunately I find on my arrival a telegraphic dispatch informing me that one of the carpenter's shops on the Smithsonian grounds has been burned as it is supposed by an incendiary and I am therefore somewhat anxious to return as soon as possible. It is possible however that I may leave something by the next mail which will enable me to carry out my intention. I therefore write to ask whether you intend to be in Cambridge during the whole of this week.

Also whether you intend to visit Washington soon. I wish to have a long and confidential conversation with you relative to the operations of the Institution - to learn what of interest you have gathered in your tour and ~~perhaps~~ what you propose

as to the preparation and publication
of your Report.

I am now called to Albany
to settle up the affairs of my deceased
brother. I shall be engaged until
Wednesday and if you can give me
an answer before that time I shall
be better able to determine whether I shall
make the circuit to Washington by the way of
Cambridge.

Cannot you give us a course of
lectures at the Smithsonian this winter?
You will probably have occasion to visit
Washington during the session of Congress and
you can then favour us with a few lectures.

All the affairs of the Institution
I think have made good progress since
your departure and I hope in the course
of one or two years or two to settle ^{its} ~~the~~ ~~separate~~
and develop all the plans set forth in
the programme of organization.

Baird has proved a very efficient assistant
and rather requires the rein than the spur.

I am much pleased to learn that Mrs Gray
has profited very much by the voyage. The restora-
tion of her health is a matter of more importance
to you and your friends than all the acquisitions
you may have made in science.

Mrs Henry has accompanied me to Albany
and bids me say that she expects to see Mrs
Gray at our house in Washington. The hackman
at the depot will inform you where we live with
the kind regards of Mrs H and myself to Mrs
Gray

I remain very truly
your friend & servt.
Joseph Henry

Dr A. Gray
Cambridge.

to Washington she will of
course come with you
and we shall expect
you to take up your abode
with us

I remain as ever
very truly your
friend & servt

Joseph Henry

Dr. A. Gray

Mountzoman Inst.

Oct 10th - 1857

My Dear Dr

I regret that I did
not receive your kind letter
of the 29th a little sooner.
It was delivered to me after
our passage had been
taken from Albany to New-
York and but a few moments
before the starting of the
boat. I wrote to you on
Saturday the 27th immediately
on my arrival in Albany
to ask whether you would
be in Cambridge during
the week. Not receiving
a reply I concluded you
were absent. Your letter
of the 29th - reached me

on Friday evening Oct
3rd I am anxious
to have a long conver-
sation with you ~~and~~
relative to your tour
and other matters.

Accompanying this
note I send you an
invitation to lecture
before the Institution
next winter and hope
that you will be
able so to arrange
your business ~~as~~ to spend
a few weeks in Washington.

Do you know Dr J. V. C.
Smith editor ^{Boston Medical &}
^{of Surgical Journal.}
He has lately returned from
Europe and has intimated
that he is prepared to deliver

a course of lectures on the
present state of Egypt Turkey
and Greece - Give me confiden-
tially some information
relative to the man. If
he is a good lecturer and
of the proper character we
would be pleased to
engage him; since a
course on the subjects
mentioned would be very
acceptable.

Mrs. Henry and our
children are in Princeton.
They will return to Washington
in the course of about two
weeks.

I am glad to learn
that Mrs. Gray has been
much benefited by this
voyage. If you comes

Smithsonian Institution.

Oct. 11 1851

Lector Asa Gray

Dear Sir

The series of lectures before the Smithsonian Institution for 1851-52 commences about the first of December next and will close in April. I write to request that you will favor us with a course of lectures on Botany and that you will inform us at what time it will be most convenient for you to deliver the course.

Please also give the number and title of your lectures and we will endeavor as far as possible so arrange the programme as to meet your wishes.

I remain very respectfully

Your Obedient Servant

Joseph Henry

Secretary S.I.

Statement of Account
 Report on Forest Trees to Smithsonian Institution &c.

1849			
Oct 5.	Cash to Mr Sprague		\$ 195.
1850			
	Expref, Postage &c,		15 -
May 14	Dr Gray's acct.		76. 26
Feb 22	Dr Gray for Mr Sprague		100.
July 16	" " "		100.
Aug, 26	Prestele's bill		112. 80
	Sonubi Bill		127. 38
Nov. 26	Draft of Sprague		100 -
Dec.	Prestele, Bill		110 -.
1851 Feb 25	Prestele, Bill		148 -
April 4	Draft of Mr Sprague		100 -
			<hr/> 1185. 26
Sept. 29.	Prestele's Bill unpaired		323. 00
			<hr/> \$ 1508. 26

Smithsonian Institution

Oct 14th 1857

My dear Dr

In answer to your letter of the 10th inst. I am very sorry to inform you that we shall be unable to pay the account of Prestele until after the 1st of Jan'y. next. Our appropriation for the year will be expended in meeting the demands on account of the first part of Hervey's mission and other outstanding bills. We did not expect any further drafts on account of the Reports during the present year.

According to my understanding of our agreement, work to the amount of only three hundred dolls. was to be done during your absence; we have however moved the drafts of Mr Sprague to the amount of nearly eight hundred dolls. as you will see by the accompanying account.

In order that I may present to the
Regents at their next meeting (Jan'y 1st 1852)
an account of all the operations of the
Institution you will oblige me by
a statement of the present condition
of the Report - the number of drawings which
have been made by Sprague and the
number of plants engraved. Perhaps also
before the next session of the Board you
may find time to give a probable estimate
of the cost of the remainder of the work and
of the time which will be required to finish
it. I constantly regret that so much
money has been expended on the building
and that it is impossible for us to be as
liberal as I could wish. The whole
appropriation during the last year for all
the active operations of the Institution will
not amount to more than 6000 dollars.

I am glad to learn that you intend
immediately to finish your memoir on botany
which if it contains 200 pages will be
able to complete our third vol. by the

beginning of the next year. You will of course
prefer to have it printed under your own eye and
you will find sufficient copies for the purposes
in the possession of Medcliff. - The number
of copies of the part already printed is 1308 and
this will therefore limit the size of the edition.

We will take from you the extra
volumes purchased at Berlin provided they
are not now in our library, but I do not
think that at present we can afford to
order at this time the work on Brazil &

I have just received a letter from
Harvey informing us that the printing of his
memoir will be finished in the course of a
week or two. He desires to know whether he
is allowed to sell any of the extra copies allowed
him. Had the cost of the work been known at
the time it was commenced I should not have
had the courage to undertake it with the
present income of the Institution, and particularly
should not have agreed to furnish so many
extra copies. I make this remark with refer-
ence to restricted means and not as to the
value of the labours of Prof. H. any feelings

as a man are constantly in antagonism
to my duty as secretary of the Institution
I am constantly called upon to decide
upon, not what ought to be given, but what
can be. I trust however that an arrange-
ment can be made with Prof. H. which
will be satisfactory to him and within my
power to execute.

I hope that you will be able to
visit us this winter and should you be
obliged to do so I shall be rejoiced provided
the journey do not redound to your disad-
vantage.

I remain very truly
your friend & servt
Joseph Henry

at: Y. Gray

Sm. Messrs. Messrs. Just
Oct. 27th 1851

My Dear Professor

Your favour of the 20th was
duly received and gave me much pleasure
it is very unlike many letters I receive
on similar subjects.

We are pressed on all sides, &
are importuned and are obliged to quar-
rel with the constant tendency to accumulate
debts in advance of income.

I shall be much obliged to you for
the statement relative to the resolu-
tion of the Board on forest trees. I wish
to present it to the Regent at the next meet-
ing in June.

I regret to inform you that
it will be out of my power to accept the
very flattering invitation to lecture before
the Lowell Institute. All the lecture rings I
can do in the winter night & in doing
in Washington. The liberal compensation
offered by the Institute would be an important
aid in the way of making up some leave
losses I have met with during the last
twelve months. I am however not at all

and bear any life insured for the benefit
of my family I am grateful to you for
your kind offer in this matter.

I hope you will go on as rapidly as
convenient with the printing of your
botanical monograph

I hope we shall meet before the
end of the winter Mrs. A. and my
family are still in Princeton. I start this
afternoon for Phil^a to transact some business
of the Institution and to see Mr. A. home
with kind regards to Mrs. G.

I remain very truly
your friend & serv^t
Joseph Henry

J. A. Gray

difficult to say how long
it will take to get
the things done
I am very
truly
yours

Wm. Brewster

Dear Professor
I am very
truly
yours

Smithsonian Inst
Dec 16th 1857

My Dear Professor

I find on
examining our programme
of lectures that there will
be a vacant week in July
the last in the month, which
we shall be glad to have
filled up by Professor Feltow.

There will be room for
three lectures. If this time
will be convenient to him
we may consider the business
settled and shall expect
life and health be spared,
that he will not fail us.

His first lecture will
be advertised for Monday
the 26th of July.
In a postscript of a letter

to Prof. F I intimated that
a course of lectures from
him would be acceptable.

We find considerable
difficulty in so arranging
the time of the lectures as to be
convenient to the different lecturers

I regret that the state of
our income is such that
we are unable to pay
but little for our lectures
and I hope Professor F
will not be disappointed
in this respect.

I have written an
official letter asking for
the section of the large tree
It will be an interesting
article relative to the
meteorological exhibition
it will afford of the
relation fruitfulness of

the different years during the
long period of its growth.

With kind regards to
Mrs Gray I remain very
truly your friend &
Joseph Henry

Dr. A. Gray

Please communicate
to Professor Filton, the invitation
to lecture.

J. H.

P.S. Will you oblige me
by sending as soon as con-
venient a brief account of your
botanical papers, such as will
answer as a notice of it to be
inserted in my next number.

on the subject of the Report
and other matters. When

do you intend to visit Washington?

I hope you will be at the
meeting in Cleveland

With kind regards
to Mrs Gray I remain

As ever truly

Yours &c

Joseph Henry

Dr A Gray
Cambridge

Smithsonian Inst

May 4th 1852

My Dear Sir

I drew a warrant

yesterday for the payment
of the paper for your memoir

the copies of which have
come safely to hand -

You can settle Metcalf's
bill next month though
it will be most convenient

to pay it on the 1st of July
when the half yearly

income of the S. I. becomes

due. The 90 dollars for

Latin is in charge which

we have never before met

with in our dealings
with the bankers

Proposition?

has informed me

that he has forwarded

to you copies of all

our memoirs on natural

History. If you will

specify any articles

you have not received

we will send them

to you.

We have of late ex-

perienced so rapidly

in our operations that

unless we hold up a

little we shall run beyond

our income. I hope therefore

that you will not make

any very important draft

on us on account of the

Report on trees during the

remainder of the year.

Cannot you so arrange

the work that the first

part may appear early

in the year 1853. We have

now several thousand

dolls invested in plates

of unfinished memoirs

which we are anxious

to render available as

soon as possible.

I wish to have a

conference with you

instruments and instructions and have also fitted out in the same way several parties for exploration in the regions between the Mississippi and the Pacific. The instruments however which were furnished to the latter were paid for by Government. We have just completed a new building for a set of self-registering photographic magnetic instruments at the joint expense of the Institution and the Coast Survey and we have now as much matter on hand as will make the 7th and perhaps the 8th volume of our contributions. The 5th and 6th volumes are in the press and will be distributed before the close of this year. The 5th will be ready for delivery in the course of about 3 weeks.

I shall be able to provide to

the satisfaction of any intelligent set of men who choose to look into the affairs of the Institution that it is doing more good than any other institution ever established in our country and that it should be meddled with by Regents or Directors without danger of evil.

In the development of the plan it has become evident that the support of a large library and an extensive museum is incompatible with the limited income of the institution and that these objects must be provided for by other means. I gave my views on these points in full at the last meeting of the Regents and recommended as a part of the plan of reduction

*not the proposition was agreed to by the Board

that the east wing of the building be fitted up as a dwelling for the accommodation of the family of the secretary. This will be an arrangement of economy on the part of the Institution for the next which results from the expenditure on the fitting up of the rooms will not exceed 200 dollars per year while I am now entitled to a sum not exceeding 500 dollars. *

I have been obliged to take some unpleasant steps as to several parts of my duty with reference to previous and measures but I must be the head of the Institution and it must be carried on in accordance with the plan which I have labored to develop or I will abandon the enterprise and give to those who attempt to ~~disrupt~~ thwart me the honor of having defeated or interrupted ^{the operation of a} ^{advance of the} plans for the best

Washington is a Pan-American. Wash is congregated all the persons of all the nations of the human family.

of humanity. I have no fear of the result of the meeting of the establishment. What ever may have been the inducement for calling it, I think it will result in good. The President as I am informed is a very good man and desirous of doing what is proper on all occasions.

I must see you during the summer and have a free and full conversation with you on a number of points connected with the policy of the Institution.

I have now given you a long letter and indeed I never command one to you without being impelled to write more than is quite safe to intrust to paper. With kind regards to Mrs. Gray I remain as ever truly
Your friend & servt
Joseph Henry
Dr. Gray

Cambridge, Monday Evening, 31st May, 1852

My Dear Prof. Henry

I have only this evening returned from a week's absence in New York; and find here your kind notes of the 23rd & 27th inst. To these I wish to reply in full, answering the statements in Capt. Wilkes' communication to the Hon. Mr. Pearce (a copy of which you enclose) which reflect so unjustly upon me. But I have to prepare for a lecture and two recitations to-morrow, and so shall have no time to write to you before to-morrow evening, when I will endeavor to place the whole matter before you, with many thanks for your kind proposition to act for me, and for the just statements which you have already made to Mr. Pearce, on one point. In respect to this I trust to show you that I have in good faith conformed to the views of the Library Committee as I understood them from a letter received from Mr. Pearce. Which are all that I know of or have ^{had} anything to do with, except a letter of Capt. Wilkes to Dr. Jonez, which I do not recognize as instructions of the of the Committee & me.)

The other statements of Capt. Wilkes in the letter before me have caused me the profoundest astonishment.

I have only to say at present, that the English descriptions in my Mss. do contain everything that is in the Latin characters, notwithstanding his assertion "that - such is not the case." If a single idea or phrase, or even word of the Latin has not its counterpart in the English, it must be a mere slip or inadvertence, which it will be easy to correct, when pointed out. And I shall be glad to have the instances indicated.

Again, nothing can be further from the truth than his assertion that I engaged that "my whole time was to be given to the preparation" of the Exploring Expedition. You well know that this would be impossible for me ever to have promised. The copy of the contract I shall send will show that it has not the least foundation; I solemnly declare that the whole conversation between us at the time, upon which the contract was based, proceeded upon the contrary supposition & statement.

Further, it is not true that I have failed to fulfil my contract - by declining the correction & proof-reading of the other portions of the Botany - they were never offered to me; so that I have had no chance to decline*. It is

* On the contrary I have every reason to believe that Mr. Drayton conveyed to Capt. Wilkes, the expression of my wish, in Sept. last, that the proof-sheets & Mss. of Mr. Brackenridge should be sent to me.

I rather than have to complain of the infraction of this part of the contract, as I always understood it, by that very action of Capt. Wilkes which has caused all this trouble.

Nor have I ever thrown any "impediment in the way" of the publication of Mr. Brackenridge's part, "except by giving my opinion when asked, in a letter to Dr. Toney, that the three-fold repetition which the plan required by Capt. Wilkes (then for the first time made known to me) involved, was not creditable, nor in good taste, nor of any use I could see, & that I could not myself adopt it.

You are right in saying that letter of mine ought not to have been laid before the Committee - It was a letter to Dr. Toney, in answer to one of his, of which I gave him leave to use my opinions there expressed; but it was plain that the letter was not intended to be used in the way it was.

You see then that I explicitly deny the three charges, of which you give a summary in your favor of the 2nd ed. inst. & I shall be obliged if you will, on a proper occasion, state this in your place.

In my next I will conform my recollections by proof, on all the points capable of being attested by documents - For the rest, it would seem that Capt. Wilkes' memory or understanding of some things must be different from mine.

As to my bills, they have been duly presented, & attention
has been ~~drawn~~ ^{called} to the delay. The Committee must decide
whether they should be paid or not. You see that while
such charges hang over me, it is not proper that I should
urge their payment.

Tomorrow I will give you, I hope, the information
you desire, & cheerfully leave the matter in your hands.
Though I may not be so judged by others, I know that
you will fully believe that I have no unworthy motives
or selfish ends; I will thank you also to say to Mr. Pease
how far I may be deemed qualified to judge of questions
of scientific accuracy & taste or style.

It is absurd to charge me with wishing to make the
work technical, & too Latin; I have said before, that, tho'
I would not recommend it, I have no objection to writing
& printing every word in English only. I remain,

Yours faithfully & truly,

Signed Asa Gray

Coast Survey station
near Bath

Sept. 24th (Friday)

1852

My Dear Dr.

I regret to inform you that I am unexpectedly called to Washington on public business and that I shall ^{not} have the pleasure of seeing you again until you come to Washington.

I wished to have a full conversation with you relative to the operations of the Institution and to make some definite arrangement with you relative to the Report on Forest Trees.

If we succeed in getting Congress to receive from us the 150000 dollars our income will be sufficient, next year, to allow of prosecuting the Report as rapidly as you may wish.

I think I shall be able to obviate the difficulty of which I spoke to you through at the expense of some disagreeable acts.

I shall send to you the list
of plants for the record of periodical
phenomena.

Give my best regards
to Mr Gray and do not fail
to bring him with you when
you come to Washington
we shall always have
a room for you and yours.

I remain very truly
your friend
Joseph Henry

Dr Gray

P.S. I learned that a pamphlet
was published by Deason relative
to the quarrel between himself and
Leitch-Daves. Can you send me
a copy? J.H.

If any communications come
from Washington return them
unpaid to the Institution.

Southwestern Institution

My Dear Dr. Nov 6th 1852

I hope you will pardon me for promitting your very kind and interesting communication of Sept. to remain so long unanswered. The truth is I have been so busied with engagements since my return from the north as to be obliged to put aside every letter which did not imperiously demand an immediate reply.

I was unexpectedly requested to Washington on account of business concerning both the Institution and the government and could not fulfil my engagements to stop at Cambridge I did hope however to give you a short visit when I went to Albany but in this I have also been disappointed - On my return I found an accumulation of business on my table which demanded immediate attention and before this could be cleared off the duties of the committee on the organization of the Light House Board absorbed nearly all my time. I procured an adjournment of the

Bought for a few days and embraced the opportunity afforded by this to visit hastily New York and Albany principally on business relative to the affairs of my deceased brother.

I would not of my own accord have engaged in the business of the Light House Board but as I was especially requested by the President to assist in managing this important part of the executive duty of the Government and therefore could not well decline.

I will now refer to the several parts of your letter in the order of their occurrence. 1. As to the distribution of our publications - The fact you mention as to the tardiness of the packages in reaching their destination shall be communicated to our agents and greater dispatch urged upon him.

2. The fact you mention with reference to ordering the paper has been referred to Professor Baird who has taken note of it and will attend to the settlement of the account.

3. We have in case given a full set of the Smithsonian Contributions to an individual for services rendered.

The Institution and though it would give me much pleasure to present a set to Dr. Wyman yet I would prefer to pay in money for the labour bestowed on the printing after you left.

4. I did promise to send you copies of all our publications relative to Natural History and requested Professor Baird to see that the promise was fulfilled. He now informs me that copies were sent but as these probably did not reach you I enclose a list of all our publications with the request that you will designate such as you would be pleased to receive and if possible they will be forwarded to you.

5 Do not forget the list of botanical books you borrowed for the library of Congress.

I have referred the matter of your last letters to Dr. Foreman & Prof. Baird and I trust before this time you have received the information requested. A number of copies of the book I inquired for were sent to the Smithsonian Institution.

I shall not forget to direct that a copy of the list of plants for marking periodical phenomena be sent to you for revision.

All the affairs of the Institution are going on smoothly and prosperously notwithstanding the attempts which are made through the newspapers to improve the plan of operation. A few weeks ago a very silly attack was made on us in the New York Times but in an article of this week the editor takes the whole back and commends our exertions.

The trip to the hills of Maine very much improved my health and since I left Cambridge I have been quite well.

Nov 11th Your letter of yesterday has just come to hand and I hasten to answer it before the accumulation of other business causes a delay. I had heard indirectly of the intended proposition of Mr Berkeley and if he or you will present me with a definite proposition relative to the

matter. I will give it immediate attention and return an official answer without delay. I am pleased with your suggestions as to the fungi useful to animal and vegetable life and hope you will incorporate them with other illustrations of the importance of the work in your letter to me as secretary of the Institution.

I requested Professor Baird to answer your inquiries relative to the books you supposed were sent to us instead of the Amer. Acad^y. He informs me that they were not received among our packages. I regret as I have before said that we cannot give Dr. Wynn a full set of our publications but it will give me pleasure to draw a warrant in his favour for any sum you think we ought to pay him, and also to present him with copies of any of the separate memoirs which may be of special interest to him.

I must again beg your indulgence on account of the long delay of my answer to your letters. So much of my ^{working} time has been occupied with the organization of the ^{Entomological} Board

Since my visit to the North that I have been unable until to day to get up with my official correspondence, which to me is a most laborious and unpleasant service. Besides this, for the last year, I have been obliged, to transact all my business, and write all my letters, in the public office, with three persons and some times more, in the same room, and subjected, almost every moment to interruption, from visitors and calls of business. A large room, has just been finished in the south tower of the main building of which I have taken possession and devoted to my own special use. This arrangement, which I was unable to adopt before on account of the want of room, will conduce to the better government of the Institution as well as to my own comfort. I can call on my assistants daily for information as to their operations and receive their reports without embarrassment occasioned by the presence of a third person. We are now in good working condition and hope to accomplish much for the advancement of knowledge during the

coming winter. (7)

You have been informed that the secretary of the Navy has called on us for suggestions, as to the scientific operations of the expedition to the northern Pacific. He informed me last night that he had appointed you friend as botanist and the assistant of Sr. Agassiz as zoologist. There is another expedition to be sent to the River, La Platte and the secretary has requested me, to name two young men of the proper qualifications, ^{as naturalists} who would nominally in the capacity of masters' mates serve in the capacity of masters' mates with small compensations. I spent several hours with the secretary last night and he promised, to carry out as far, as his means would allow, any suggestions I might offer. If you can give me any hints of importance relative to botany I will incorporate them with those I get from Baird and from other sources, in my report on the subject, to the War Department. The specimens of Natural History which may be collected will be forwarded to this Institution as often

as opportunity is offered for their transmission
also the records of meteorology and magnetism
will be submitted to us. Baird & Co. is much
delighted with the prospect of a large and
interesting harvest of new results.

There will also be an expedition sent
to Africa in the course of next year, Lieut
Lynch of the Dead Sea expedition starts in
a few days, for Cape Palmas and will
remain there, until he becomes acclimated
after which he will make a preliminary ex-
cursion into the interior with a company
of the inhabitants of the Cape, in order, to gain
the information necessary, for a more thorough
exploration, of the country with a larger party.
The secretary thinks it best, not to send any
one, with Lieut Lynch, at this time, because
the liability to sickness would increase the
probability of delay.

Mr Kennedy, the present secretary of
the navy, is a man of more liberal views,
than his predecessors, and is inclined, during
his short reign, to make his mark, so to speak,
that they cannot be readily effaced.

We are rapidly extending our meteorological

correspondence and have lately received offers of cooperation from central America the West Indies and a promise of the same from the British possessions on this continent...

I perceive by the papers that there is a prospect of the election of Feltton to the Presidency of Harvard University. If he should be appointed, can he fulfil his engagement to lecture the coming winter at this Institution? If he should be obliged to decline we must insist on your taking his place. We must have a course from you soon or later.

With a little drawing of the reins and a more frequent calling for reports of operations than I have been hitherto been able to do, I shall be able to succeed in removing the difficulties of which I spoke to you in confidence. The plan which you have adopted in addressing your letters to me under cover, is the proper one, and hereafter I shall have a better opportunity of writing confidentially to you, than

(18)

I have had since I saw you, on account
of want of convenience, both in the Institute
and at my lodgings.

My family have just returned from
Princeton, where they have been spending
the summer, and we shall resume house
keeping, in the course of a week or two,
we shall be glad to receive Mrs Gray
and yourself at any time you can make
it convenient to visit us.

I have now inflicted on you, a
long and rambling epistle, making up
in quantity if not in quality for my loss
of time; an adjustment of scenes which
though it may not be quite the thing
required, I hope you will accept, as
a testimony that I remain as ever

Truly your friend.

J. P.

To Dr. G.

P.S. I have had no time to make
this shorter.

Smithsonian Inst

Nov 15th 1852.

My Dear Dr.

Accompanying this letter
I send you a list of our publications
and, also a copy of our instructions
for the observation of periodic
phenomena.

Any memoirs in which you
are specially interested will be
forwarded to you.

Do not forget to send me
the account of your last mission
and any other suggestions you may
think of interest for my next Report.

I regret that I had not an
opportunity of seeing you on my
return from Mr. Backus's camp. par-
ticularly with reference to some
definite plan of completing your

work on forest trees. What shall
I say with reference to it in my next
report to the Regents.

During my last visit to the
north I saw Mr. Smith and
Mrs. Moore of Germantown. They
both separately expressed their
regret that your General of the
plants of the United States could
not be continued. I think
it would have been better
had we taken up that work
instead of the forest trees though
the fact of its having been com-
menced was a difficulty.

I remain very truly
yours &c

Joseph Murray

Dr. Gray.

Handwritten text, possibly a signature or name, located in the lower right corner of the page.

Smithsonian Institution

Dec. 3rd 1852

My dear Sir

The time of presentation
of my annual Report to the Regents
of the Institution is rapidly approach-
ing and I beg to urge that you
will favour me, as soon as possible,
with the information asked in
my letter of the 15th ult. and in
that of a few days earlier date.

I hope you do not intend to
to repay me in my own coin by
an indefinite postponement of
the acknowledgements of the receipt
of my letters. I surely made
up in quantity, if not in quality

of matter in my letter of about the
10th ult. and I trust in consideration
of the excuse I had to offer you
will balance old accounts and
shudily commence a new one.

Mr Wright is now in Washington;
he appears himself a well preserved
specimen of a variety of the genus Homo
and is I doubt not a model explorer
or rather I should say collector.

I ought to inform you that
the secretary of the navy finds
that he cannot send out naturalists
with the expedition to the interior
of south America as mentioned
in my letter previous to the last.

I think it very probable
that the expedition to the north,
by the way of Greenland, at the

expense of Mr Grinnell will receive
aid from the Navy Department
and encouragement from Congress.

Mrs Bachelder and myself addressed
a letter to the secretary on the subject
recommending attention to particular
points of science. This letter was requested
by the secretary and will be used
in furthering the object.

I shall expect to hear from
you in regard to the proposition
of publishing the works on the Pungi.

Can you favour us with a
short course of lectures on some
branch of botany between the
1st of Jan'y. and the 4th of March?

I fear Faxon will not be able to
to deliver his course this winter and
that consequently our programme will
be somewhat deficient.

With kind regards to Mrs Gray I
remain as ever truly yours
Joseph Henry

Smithsonian Instn

Dec 9th 1882

My dear Dr

Your package of papers was received this morning and I have just signed a warrant for the amount of your small account. The money will be transmitted in the form of a draft by the mail of tomorrow. It might be left by the early train of this morning for court. The letter addressed to him which came in your package will be forwarded to him by the mail of this evening.

We shall be obliged to let the other account remain unpaid until after the first of next month.

The printed list of publications containing your marks I did not

find ⁱⁿ your ~~the~~ package, you probably forgot to insert it. I send you with this letter another copy which you will please to mark and return at your earliest convenience.

I have written to Dr. Wyman and made him an apology for taking the superintendance of our printing from him after the appointment of Professor Baird.

I shall adopt your suggestion as to the notice of the Report on Forest Trees in my next communications to the Regent, also with reference to the notice of your last memoir.

I have referred the subjects of the books mesent, to Professor Baird and also that of the number of copies of your paper.

I am much obliged to you for your kind and encouraging letter. I am gratified to know that my endeavours to direct the affairs of the Institution are properly appreciated. I am confident that the Institution is doing much good though a proper idea cannot be formed of the value of its operations unless by a more minute study of the details than the public generally are willing to bestow.

I appreciate your remarks in reference to botany we should guard against running too much in one line. The object of the bequest is the encouragement of every branch of knowledge.

I am pleased to learn that you have been favoured by a visit from our friend & son.

I think we shall be able
to assist him considerably
in the way of giving him jobs of
chemical analyses and examinations.

We have almost constantly
matters of this kind referred to
us which we are glad to
put in charge of so reliable
a person as our good friend
the Dr.

We have just received a
communication on a tornado
which happened over a part of Indiana
last year. In your next please
inform me what the Academy has
done with the materials relative
to the tornado which occurred near
Cambridge two years ago.

Dr A Gray

I remain very truly
your friend & servt.
Josiah Henry

Smithsonian Institution

January 10th 1833

My dear Dr

I am somewhat perplexed with the proposition contained in your letter of the 6th inst. It is a fundamental maxim of this Institution to do nothing with its funds which can be equally well done by other means. Before the establishment of the Smithsonian Inst. there was no adequate provision in the United States for the publication of original memoirs while in Europe it is supported funds for this purpose are abundant.

Hampstead as the Institution now is with the erection of the building and the restrictions

your catalogue of books has been received and printed
to the Library Committee of Congress.

as to local objects, it becomes a grave question whether we should encourage the presentation of papers from abroad while our income is insufficient to supply the wants of this country.

On the other hand I do not feel authorized to say we will not accept foreign papers. On the one side the liberal spirit of the plan of organization would prompt us to publish the memoirs and on the other we are deterred from doing so by the danger of opening a door through which we would be overwhelmed by applications of the same kind.

Give me some of your wise suggestions on this point. I have

written on the spur of the moment and have not definitely settled in my own mind the proper course.

What is the inducement which prompts the presentation of these memoirs to this Institution? Cannot they be printed in Paris?

Perhaps the fact of the papers translation into English by yourself may somewhat change the aspect of the proposition.

The Board of Regents are now in session and are called upon to make some important decisions as to the building which may affect the future policy of the institutions. We shall have space for the accommodation of 50,000 vols. and a room 200 feet by 50 for a museum. These spaces are more than sufficient to accom-

update all the collections the
Institution ought to make in
20 years. I regret more
and more that I was obliged
to give way, in accordance
with the law of congress, to the
establishment of a museum
and library and I am deter-
mined while I have any
direction in the operations
that they shall be entirely
subordinate to the publications
and other active operations.

The Report to congress was
struck off before I got back
to Washington and consequently
some of the suggestions made by
yourself could not be introduced. Give
me your opinion as to the remarks (page
page 21) relative to library and collections.
Dr. A. Gray I remember you found ~~devoid~~
Joseph Henry

Smithsonian Institution,
May 26th 1853.

Dear Sir,

Your note and the accompanying correspondence with M^r Girard have been duly received, and in behalf of the Smithsonian Institution, I beg leave to thank you for the candid opinion you have given as to the character of the work submitted to you for examination, and to express my regret that you should be subjected to any unpleasant correspondence on account of the favor you have conferred upon us.

I do not approve of the letter of M^r Girard, and regret that he should have addressed you on the subject. It is a violation of our rules to allow any discussion to spring up between the author of a communication and the members of the commission to whom it is referred for examination. In all cases the correspondence must be carried on through the Secretary, in order that he may obtain the data on which to found the decision as to the acceptance or rejection of the communication.

The Smithsonian Institution had concluded to make an experiment with reference to the publication of Bibliographies on different subjects, and it was important that it should begin with those which were the most needed, and that it should adopt the best plans. M^r Girard's Bibliography was recommended as one of much importance, and the proposition was made to print it as a sample of what was intended to be produced by the Institution. Through inadvertency a number of copies were distributed under the stamp of the Institution, and the printed name of the author, before I had an opportunity of examining it myself, or of referring it to others. I regret this occurrence because the question is wider than that of the

mere acceptance of an ordinary paper. It includes the adoption of a plan of Bibliography to be followed in all our subsequent contributions of this kind - May I ask as an additional favor, that you will furnish us at your convenience, with any suggestions which may occur to you, as to the preparation of Bibliographies, and what subjects are at the present time most in need of them.

I have the honor to remain

Very truly

Your Obedt. Servt.

Joseph Henry
Sci. S. I.

Dr A. Gray.

Professor of Botany -

Harvard University.

Smithsonian Inst

Nov 7th 1853

My dear Dr

Your letter and the invoice of books to be sent to the Royal Society for distribution have just been received and I hasten to request that you will also send the bill of lading I think it best that all the papers relative to the transaction should go through the Smithsonian Inst.

I am much obliged to you for the correction of the proof; though unfortunately it was too late to be used in the present edition. I mailed the article on the 20th and it did not reach me in return before I left for New York on the evening of the 24th - I found it in Washington on my return to this city.

You mentioned to me in one of our conversations, or in one of your

letters that some improvements could be made in our circular for the record of periodical phenomena and in accordance with this remark I send you a copy of the article with the request that you will furnish us with any connections or conditions which you may think important.

I am just about to commence my next report to the Regents and I wish some definite information as to the Report on Forest Trees. We agreed that it should appear in the quarto form and be published as one of the memoirs of the Contributions to Knowledge. If I remember aright the Report was to include an account

of the economical uses of the timber, the method of rendering it durable &c. I think that it was also proposed to make some experiments on the strength of different specimens. If you can furnish the materials I can superintend experiments relative to strength at the navy yard of this city. All the apparatus for this purpose can be obtained at this place without difficulty.

Would you propose to give these practical facts in the body of the work or in an appendix at the end? When can you have the first part ready for the press and about how many pages will it make?

Can we hope that you will favour us, sometime during the ^{coming} present winter, with a

short course of lectures on
fossil trees?

I am just now making
up some notes for the Sec^y
of the Interior relative to the
improvement of the Public
grounds, can you give us
any suggestions?

With kind regards to
Mrs Gray I remain very
truly your friend
& servant.

Joseph Henry

Sec^y Smithsonian

Dr A. Gray

1158

Confidential

I know you are anxious to learn something of the affairs of the Institution. The Regents met on Saturday Mr Choate who had not before been present for six years was in attendance to protect his favourite. Mr Fearey from the committee of the Regents made a Report supporting my views in full which will be printed in a few days. I will send you a copy which ought to be inserted in the Boston papers. to answer the article in the Daily Advertiser of the 18th inst. Mr Fearey was also instructed by the committee to make some remarks on the communication of Mr Sewall to the committee. The members of the committee six in number were unanimous with the exception of Mr Beadman who intends to make a counter report.

The Chief Justice was not present and Mr Choate begged as a favour that the consideration of the Resolutions appended to the Report might be deferred until the 8th of July. He thought the gentlemen in the expression of their honest opinions might have been rather warm but he hoped that the whole affair might be amicably settled. The consideration of the subject was therefore deferred until the time above mentioned. I regret the delay and had I been present would have objected to it. I left the room when the discussion commenced.

The members present stood as follows - for the Resolutions

Certain in favour 6

uncertain 3

Certain unfavourable 2

Three members of the Board were absent of whom there is no doubt viz. The Chief Justice Mr Kiss and Mr Bemis

great efforts are however making to get up a feeling in Congress and in the city. I feel somewhat anxious as to the final result but not on my own account. Let the affair terminate as it may I think I shall personally be better off.

I remain very truly your
friend

Joseph Henry

Dr. A. Gray

March 2, 1964

Mrs. H. B. Gray, Jr.
29 Claremont Avenue
New York 27, N.Y.

Dear Mrs. Gray:

I have sent the following letters over to the photographic department at Widener.* The photostats and the bill will come direct to you.

This library is open Monday through Friday from 9 to 5.

* Letter dated April 15, 1863	J. Henry to A. Gray
" Jan. 22, 1964	" " "
" March 9, 1983	J. Torray to A. Gray
" July 8, 1868	J. Henry to A. Gray
" March 28, 1870	" "
" March 22, 1870	" "

A copy of the letter to G. Engelmann, Feb 27, 1868 herewith (taken from "Letters of Asa Gray")

I could not locate A letter from Asa Gray to Joseph Henry April 18, 1863 nor two from Asa Gray to George Engelmann one dated September 2, 1863, the other dated July 20, 1866.

Very truly yours

(Mrs.) Lazella Schwarten
Librarian

Smithsonian Institution

Washington, March 7, 1854.

My Dear Sir,

My time has been so much occupied, since the receipt of your letter of the 14th Feb^y that I have not been able to give you a definite answer relative to the coloring of the plates before today.

Eighteen cents a plate is a very startling price though the labor may be worth that sum and perhaps more. There is now however in the Smithsonian Institution, a Mr. Richard, who colored the plates of the Exploring Expedition, and who is said to be inferior to no person in this country in works of this kind. He offers to color the plate of the magnolia, at \$12. a hundred, and I would prefer to make a definite bargain with Prestals, that some samples should be given to him.

If you will send on a copy of the plate of the magnolia, we will put it into his hands. We will take good care of the specimens you have sent us and return them after they have been used as samples of colors.

I remain,

Very Respectfully

Your obed^t serv^t

Joseph Hurry
Supt. S. P.

Dr. Asa. Gray.

Smithsonian Inst.
March 23^d 1854

My Dear Dr

Dr. Torrey has given us a
short but very pleasant visit
and I have to day received
a letter from him since his
return. I read to him a
part of a communication
of Professor Swett to a com-
mittee of the Regents which
in his letter of today he advises
me to send to you. It will
serve to show you the abilities
of the man and his power of
sophistical statements.

The original paper consists of
upwards of 50 pages of closely

written manuscripts & taboos
in quibbles verbal criticisms
and abusive insinuations.
It will do him no good and
can readily be answered
in every postulate.

I fully agree with you
that the Regts must put
down the assumptions of
the assistants or I must
lead.

I have no fear as to the
result and as the air is more
pure after a storm so I doubt
not the atmosphere of the
Smithsonian will be more
salubrious after the present
tornado has passed by

In much haste

I remain as ever your
friend & servt

Joseph Henry

H. A. Gray

P.S. I do not wish you to
make any other use of the extract
than to give me if you have
time a few remarks upon it.

Smithsonian Institution

May 22, 1854

My Dear Sir,

We send you to-day by Adams & Co's Express, two samples of plates of the "magnolia," colored by Mr Richard, which we will excuse for twelve cents if he has the whole edition. Mr Richard thinks that the No 1 of Prestele could be done by him for 10 cents in the same style, and the No 2 for 8 cents, but he could not undertake the work unless there were a large number to be done.

Please have these patterns carefully kept, and inform us what you think of the work and the propositions of Mr Richard.

I remain, respectfully

Your obedient serv't

Joseph Henry
Secy S. I. G.

Dr Asa Gray.

Cambridge.

Smithsonian Inst

May 24th, 1852

My Dear Dr

Accompanying this
letter I send you a list
of the foreign societies to
which the Smithsonian
Institution sends its
contributions in whole
or in part. Please
look it over carefully
and give me any sugges-
tions relative to it which
may occur to you.

The affairs of the Institution
still remain unsettled.
Mr. Farnum has made a
report vindicating the
course of the Regents in
adopting the plan of active
operations. This Report
is accompanied by a set
of Resolutions the consider-
ation of which was postponed
until the 8 of July next.

The postponement was made
at the earnest request of
Mr. Choate who after

an absence of six years from
the meetings of the Board
made his appearance
at this time to support the
assumptions of his favourite.

The only violation of the
law of Congress was the
appointment of Mr. Smith
as assistant secretary
to take charge of the library.

I have little doubt of
the result of the battle
but I am anxious to have
the matter settled.

I remain very
truly your friend
Wm. A. Gray
Joseph Henry

The Museum Institution,
May 11, 1854.

Dear Sir,

Enclosed you will find a
small number of Mr. Davis's old collected
papers, which have an account of some
of his early life and education after the manner,
which has been given in your Journal. His name is
well known among our people, & his services as a
teacher & a writer, will be well known to you. It is
a pleasure to take the opportunity of
this paper of writing, a personal change of place,
in order to give you some of the
papers which were in his possession
at the time of his death.

I am, Sir, very respectfully,
Your obedient servant,
Wm. H. Davis.

I hope you will be good enough
to give me a little more information with regard
to the amount, and you may perhaps be able to
give me some information regarding the other things
I have mentioned.

Very truly
yours

Wm. H. H. H.

Joseph Henry

107 1/2 11th St. Wash. D.C.

Charles Henry
107 1/2 11th St.
Washington

I have been thinking of you very much
and hope this card will find you well
and happy. I have been very busy
with my work, but I have not
been able to write you more
often than I have.

Very truly
yours
Wm. H. H. H.

Wm. H. H. H.
107 1/2 11th St.
Washington

Smithsonian Inst

May 31st 1834

My Dear Dr

many thanks for your kind expression of sympathy I am much pleased to find so much good and warm feeling among my friends.

I regret the delay though I do not think the opposition will ultimately be able to do but little in the way of injuring the Institution. They have made a desecrately attack on the mayor of the city who was one of the committee to which the affairs of the Institution were submitted. He signed the Report of Mr Pease and now an

attempt is making to prevent
his reelection by asserting that
he is against the interests of the
city in supporting the action & resolu-
tions of the Smithsonian Institution.

I will send you ~~the~~ copies
of Mr Pearce's Report as soon
as it is through the press. It
does not allude to the consummation
of Mr Sewitt and I have
made no reply or at least
none but a very general one to
the part which I sent to you.

It would give me much
pleasure to receive any strictures
on the remarks of Mr Sewitt
any of which I sent you that
you may think fit to make
I shall have occasion for
all the hints and expressions

bearing on the subject which I
can muster. Though I may
have all the prominent points
in my mind still variety in
the mode of presenting them is
desirable.

The city election takes place
next Monday. Should the mayor
be run out I shall ~~lose~~ lose one of
my friends and gain an opponent
such a gain will be very near
a serious loss.

I am aroused to high indig-
nation when I think of the
opposition I am subjected
to from one of my assistants
who was put on my shoulders
in order to give him a situation
and that he might be at hand to
carry out an opposite plan if

I should fail to sustain
myself.

We have had a very pleasant
visit from Eliza Torrey she
came with her father to the
meeting of the association and
remained until the beginning
of last week.

I wrote you an official
letter this morning relative
to experiments on wood.

I remain very truly
Your friend
L. A.

Smithsonian Institution,
Washington June 10/54

Dear Sir,

Your letter of June 7th is just received, and I hasten to dictate the following answer:

In the following reply, I agree with you that it will be scarcely worth the trouble to transport the packages from Buffalo to Washington in consideration of the small difference in expense.

Please accept my thanks in behalf of the Institution for your interesting experiments relative to preserving timber. Several suggestions which you have furnished us, will receive due attention.

I remain,

Very Respectfully,

Your obed^t serv^t

Joseph Henry

Sec^y of the Smithⁿ Instⁿ

Dr. Asa Gray
Cambridge
Mass.

much of my mind resident permanently resident in all the
particulars of the substance

Washington July 12th
1854

My dear Dr. [Name] I am
very anxious to learn the particulars
of the meeting of the Board on
Saturday and I would be
glad to receive an account of the
affairs before this time had I
not been very much pressed for
time!

The meeting took place but
owing to the extreme heat of the weather
the old Chief Justice could not
attend, Mr. [Name] and Mr. [Name]
were also absent the latter on account
of illness

On account of these absences the
consideration of the Resolutions
appended to the Report of Mr. [Name]

was deferred until the next annual meeting in Jan'y 1853 - but a much more important Resolution introduced by Mr Mason of Virginia was adopted

This Resolution affirms that the secretary has not only the power to appoint his assistants but also to dismiss them. This motion was opposed by Mr Douglass but passed by a vote of six in the affirmative and four in the negative. Two of the gentlemen who voted against the Resolution did it because they were not clear as to its legality but they stated that if the secretary would request that any one of his assistants should be removed they would vote for such a removal. The proposition which Mr Mason at first proposed

was that Mr Jewell should be removed by the Board but this I objected to, on the ground that if the secretary had the power he should exercise it. This was necessary to vindicate the office and to establish a precedent which might affect the future welfare of the Institution.

In accordance with the intention of the foregoing resolution I addressed a letter to Professor Jewell informing him that his services as one of my assistants would cease that day -

I am sorry to inform you that Mr Jewell was taken very ill on the day of the receipt of my letter and has since been confined to his bed. I regret this circumstance though I have nothing to regret on account of the course I have taken in the whole of the matter.

P.S. Prof. Baird leaves this afternoon for the sea shore with his
sister wife. He has given in his assurance of loyalty to me
I intend to abolish the whole system of separate needs and

Mr Jewett has not only acted
imprudently as I conceive in a
moral point of view but also
in a prudential one.

This act of the Secretary will
give the editor of the Boston
Daily another opportunity of denoun-
cing the Institution and will I doubt
not be the cause of a storm in the
capital. I am informed that
Mr Jewett intends to contest
the legality of the act - Well let
the storm come! I have a clear
conscience on my side and
I can think an overruling Providence
that I have been kept from doing
any thing in this matter that my
friends need fear to depend on from
me. With kind regards to your
good Lady I remain as ever
your friend & servant
Josiah Hurrey
Dr Gray - Cambridge

Smithsonian Inst

July 14th 1854

My dear Professor.

I am in the Boston
Touvalle, a copy of which arrived
to day, an answer to you con-
taining a communication of so vulgar a
character that the writer is
unworthy a reply.

These articles have no
more effect than the idle
wind. They are perfectly
understood in Washington.

I have just received
a very warm letter from the
Chief Justice fully approving

of the Resolution of the
- Regents as to the power of
the secretary and of my
removal of Professor Sewall.

The only danger is that new
Regents may be appointed who
will be opposed to me.

The meeting of the establishment
takes place tomorrow. The President
and his cabinet will be present. The
subject of the difficulty in the
Institution will probably
come before them but I shall
be prepared. The only one who
will oppose me is Mr C
Cushing.

Mr Sewall is still quite
unwell but is gradually getting

better.

I am just now much
occupied in seeing members of
congress. I learned from one of the
editors of the star that the attacks
on the state mayor because he
approved of Mr Pennic's Report
were sent to the paper by Mr Sewall.
He has pursued a most unjudicious
course to give it no worse a name

With kind regards to Mrs Gray
I remain very truly

Your friend &c

Joseph Henry

Dr Gray
Cambridge
Mass.

thus far achieved ~~results~~.
It has been obliged to
employ sophism and
misstatements of facts
in order to exhibit a
short of reason.

With kind regards
to Mrs Gray I remain
as ever
Truly yours

Joseph Henry

Dr. A. Gray

Smithsonian Inst
July 19th 1854.

My Dear Dr.

I am much pleased
with your proposition
to give a course of say
8 lectures. Our new Lecture
Room will be finished
and I am sure a course
such as you can give
will be highly appreciated.

The meeting of the estab-
lishment took place

on Saturday last
but nothing was done
with reference to the
difficulties in the case.

A motion was made
and adopted to appoint
a committee to confer
with the Board of Regents
as to the official means
of intercommunication
between the two bodies.

This motion was made
by Mr Cushing. Another
meeting of the establishment

is to be held on the 3rd Wed^o
of October for the purpose
of electing another honorary
member.

Mr Sewitt intends
as I am informed to
contest the legitimacy of the
act of dismissal but with
the opinion of the Chief Justice
to back me I do not think
he can succeed.

I do not think that
the united talent of the
friends of Mr Sewitt has

Smithsonian Institution
Washington. Sept 20. 1834

Dear Sir,

In behalf of the Smithsonian Institution I beg to refer to you the accompanying specimens of wheat and chess and to request that you will favor us with the result of the examination you may make of them.

Please return the accompanying letter.

I am, very respectfully
Your obed^t serv^t

Joseph Henry
Secretary Smithsonian Inst.

Dr Asa Gray
Cambridge
Mass.

[See over]

over soliciting and misrepresenta-
tion
L.A.

P.S. on my return to New York
on Monday I found your
note of Friday evening.

I am not surprised to
learn that an attack
is in preparation by the
party you mention and
that it is to be rendered
more powerful by distribu-
tion in a pamphlet form.

I have however an abiding
faith in the power of truth
and justice and trust they
must ultimately prevail.

Smithsonian Inst

Nov 13th 1854

My Dear Dr

I wish to make
some definite arrange-
ments for our course of
lectures during the winter
and therefore write to ask
at what time I may expect
you. I shall depend on
you and shall be much
disappointed if anything
should prevent your com-
ing.

All the affairs of the
Institution are just now
in a tranquil condition

through a very much smaller
than the ~~calm~~ wind, and
the storm. The court has
determined that the wind was
I am informed by the
time for the attack. I have
an other person in a Mr
Blodget, a person whom I
employed to reduce meteorolo-
gical observations. He joined
the Sewall revolt and laid claim
to all the results obtained from
the Smithsonian materials. I
was obliged to discharge him
in rather an abrupt manner
and to lock him out of the
room in which the meteorological
records were deposited. He is

also in Washington and will
undoubtedly make contact
with our meteorological observers
as well as the members of congress.

The new lecture room is
very nearly finished and the
workmen will probably leave
the whole building in the course
of about six weeks.

I did not think the attack
in the Boston Daily relative
to the Report was of sufficient
importance to be worth a reply.
The facts of the case were these
The Mechanics minority Report
was never presented to the Board
of Regents and indeed I never saw
a copy of it until after the Regents
Report was presented to congress.
It therefore formed no part of

the proceedings of the Board
and ought not to have been
published with them. It was
appended to the House edition
by the recommendation of the
House committee on printing.
I could have prevented the
appending of this Report but
was advised by the chairman
to let it pass though I now
somewhat regret that I did so.

We shall expect to see Mrs
Gray with you when you
come to lecture. Please
give her my kind regards
Mrs. Henry would join me when
she presents

I remain very truly
your friend
Loak Henry

Dr. A. Gray

Smithsonian Inst

Nov 27th 1837

My dear Dr.

Our next shipment
for Germany will be made
in April unless we should
have some pressing induce-
ment to send a package
before that time.

We shall depend on
you for a course of nine
lectures to begin say in the
second week of Jan'y.

I would advise that
you shut up your house
and bring Mrs Gray with
you. By so doing I should

say that you would not be
a loafer. It is true we
cannot afford to pay much
but I think you will have
for the three weeks 225-doll
and all your expenses.

We can so arrange the
time that you may give the
first lecture the day you
come or at furthest the day
after you arrive and you
can make preparation for
leaving the morning after
your last lecture. If you
think fit to repeat your course
at Richmond we can procure
an invitation for you to do so.
We have just taken a house

near the Irving Hotel and shall
expect you and Mrs Gray to come
to us the moment you arrive.

All the affairs of the Institution
remain as I have I last wrote
Lewitt and I budget are I suppose
making an effort to interest the
members of congress as fast as they
arrive. I do not think however
they will do much though I
cannot be certain as to the result.

With kind regards to Mrs G.

I remain very truly
your friend & servant

Joseph Henry

D. A. Cross

Smithsonian Inst

May 9th 1855

My dear Dr

I have scarcely time
before the closing of the mail
to say that I have seen over
your article for Silliman
and think you have made
some excellent hits - though
I hasten to correct a slight
inaccuracy in the note at
the foot of page 21. Accompany-
ing this note I send you a

ships containing the committee
was sent you on Monday
last a copy of the whole
proceedings of the Committee
of the House. By reference
to page 113 and also to page
174 you will find two articles
which were introduced after
the meeting of the 21st of July
when the committee declared
that they had heard enough
and that the charges had
not been made out. The
two articles are dated 28

of July the day before the last
meeting of the committee but
the record shows no evidence
that they were received or admitted.
They were unknown to Mr Pitt
Mr Taylor and Mr Puryear and
were introduced without doubt
by Mr Wham. Besides this
most reprehensible perversion
of justice a part of Mr Blodget's
testimony is omitted while
the deposition of Mr Brown
which was introduced to see
but it remains without a
point. Name over two papers

put in by the Bureau to show
the character and claims
of Blodget are also omitted

The whole ^{printed} proceedings of
the committee were cooked
by Upham and Sewitt.

I am obliged to stop
with the assurance
that I am as
ever yours

J. A. G.

Dr. G.

} Given us 600 extra
copies

P.S. I have not said any thing about the illness of Mrs. H. to any of our other friends who is very secret in regard to it.

Smithsonian Inst

May 24th 1855

My Dear Dr

Accompanying this letter I send you a package of gloves belonging to Mrs. Gray which ought to have been forwarded a long time ago; but we have been in such an unsettled state at the house as well as the Inst. that the package has been delayed. Mrs. H. who has been afflicted with a chronic disease for some years became worse after you left and I was obliged to insist upon putting her under a thorough course of medical treatment. To this she at length consented and is now

It was originally intended by an improper prescription
D. 17.
for a uterine affection.

under the care of a medical
gentleman in Penna. in whom
we place full confidence. We
hear from her almost every day
and are cheered with the hope of
her comparatively rapid and radical
cure. My daughters are now my
house keepers and they are exerting their
elves to the utmost to make me
comfortable and happy. They are
very good girls and worthy of all
the commendation that even a
fond father may give them.
Caroline's school does not close
until the end of June and we can
not well give up house keeping
before that time and therefore Mary
will not be able to accept the

kind invitation of Mrs. G. to spend
the month of June with you. It however
a visit in July would be equally con-
venient to Mrs. G. Mary would go on
about the first of the month, but
if not, she can just as well post-
pone her visit until another time.
I shall take the girls some where
to board at the north during the
warm weather.

I see that the Boston Daily
has again commenced to bark
at the Smithsonian Institution
but I trust it will not succeed
in getting up an other excitement.
I think the intelligent public has
its mind pretty well made up
as to the merits and origin of the

controversy and what further
light may be required will
be afforded by your admirable
article in Willman. I have
become so thoroughly disgusted
with the controversy that I should
be happy with the idea that I
was never again to advert to it;
and on my own account, if it were
not necessary, in order to preserve my
own means of usefulness, I would
rather suffer the vilest slanders
to go unanswer'd than be obliged
to arraign myself to the unprofitable
condition of mind necessary to a post-
reply. A war of this kind is attended
with a waste of thought and of labor
and is ^{productive} ~~attended~~ with such an
effect on the feelings as renders

to be highly undecorable. This
life however is one of labour and
trial intended to educate us for
a better and more enduring one.
The course to which I have been
subjected during the last few years
has tended to correct some defects
of my character. It has rendered me
in a great measure insensible
to the morbid feelings I formerly had
as to public censure and criticism.

I have still the unpleasant
task before me of preparing an
answer to the vile and cowardly attack
made upon me by Moore. I have
however all the materials collected
and shall endeavour to give him
an answer which will place
the matter in a different light

from that in which he would be
pleased to have it viewed. The Boston
Daily republished the most offensive
part of the mouse pamphlet and
thereby laid itself open to a criminal
prosecution for the part that it published
was grossly libellous.

We are now getting on quite
smoothly at the Institution and
making up as rapidly as possible
the loss occasioned by the war
The volume of the contributions will
be finished in a few weeks and
our annual Report which forms
a book of upwards of 400 pages will
be through the press to day.

The rooms in the building have
not yet been commenced though
every thing is in readiness for the

workmen as soon as I can make
a settlement with the late con-
tractor.

I directed a copy of the testimony
before the committee to be sent to
you, which I hope you duly received.
Swett has accepted the appointment
of the Professorship of Belles Lettres in
the Columbian College of this city a
small establishment which he
intends to use as an ambuscade
from which to make further war
on me. The appointment was not
made by the trustees with entire
unanimity but it was pressed by his
friends for the purpose of whitewashing
him and for giving him the means
of another attack. Baird is now
endeavouring to retrieve his character

and I wish, as far as possible
to forget the past and look only
at the present, and the future, a dark
shade is however not immediately
removed.

I have now inflicted upon you
a long letter which I have written
before breakfast at my house and
which I shall send without the
Smithsonian stamp. When you
write to me confidentially enclose
your letter in a second envelope and
write private on the inner: or write
private around the seal of a letter with
a single envelope. I have of late
heard nothing of Agassiz or from Feltou
I shall endeavour to have a personal
communication with them when I come
on
I remain as ever your friend
Joseph Henry

Mr. Gray

Washington June 2nd 1835

My dear Dr.

Your letter of the 29th was received
and I now embrace the first opportunity
to thank yourself and Mrs. Gray for
your kind and generous invitation
to the girls. I have however made
an arrangement with Professor
Guyot to take the two younger into his
family for the summer to improve them
in their French. Mary will also
after making Mrs. Gray a visit
take up her quarters in the same
family for the same purpose.

I am much obliged to you for
the suggestion relative to the subscription.

to Professor Agassiz's work

818
I received a copy of his
circular and informed him
that the Institution would probably
subscribe for 15 copies. ~~of the~~

I had a visit last evening from
William Channing. He is full of the
subject of spiritual influence and
appears to be pleased with the idea
of the ~~subject~~ the matter has received
from the late communication of Dr. Bell
to the meeting of the superintendents of the
asylums for the insane. It is really
an astonishing and frightful idea
that there is so much, as it were, of
latent insanity in the community for
I must believe that those who assert
that they have really witnessed the
phenomena are under a delusion.

I do not think I shall be able to
remain more than a day or two at
Cambridge. I shall be engaged on light
house duty and be obliged to spend some
time along the coast.

The girls are much pleased with
the idea of going to Cambridge and
I trust they will have a very pleasant
as well as profitable time.

I doubt not the article in
Silliman will serve to close, in
a great measure the Smithsonian
controversy, though I think it very probable
that Mr. Sewall will make a new attempt
at the meeting of the next Congress. He has
lately joined the "know nothing" party and
is endeavouring to make capital against

me through its organization. I shall
however have a number of warm
friends in the House who belong to
that party and will defend the
Institution.

I received a letter a few
days ago from Dr. Torrey he appears
in good spirits and I think is quite
well pleased with his office.

I have promised to spend a
few days with Mr. Fenner of N^h
and shall start on Wednesday
I find that the excitement to which
I have been subjected begins to re-
act upon me and that I need a
change of place in order ^{to} change
my associations with kind regards
to Mrs Gray I remain as ever your friend
D. G. J. D.

Washington
July 5th 1835

My dear Dr.

Your favour of the 25th was received at the Institution on the 29th but I have since been so occupied with family and other affairs that I could not answer my letters at an earlier period.

We will take the whole number of extra copies of the article in Silliman's Journal and distribute such as you may wish to present to your friends or you may make the distribution of this part yourself.

Please send them by express

with bill receipted and we will
forward a draft on Boston
or New York for the amount

I remain very truly
your obt. servt.

Joseph Henry

Dr. A. Gray
Cambridge

P.S. I put on this leaf what I have
to say about my daughters so that
it may not be copied by the press or the
public book. They left here on Monday
evening and I was very anxious as
to the events of their journey until I
received yesterday morning at about
nine or ten o'clock the despatch from
Mary informing me that they had arrived
safely. They were exceedingly fatigued before
they started with packing up the furniture
and settling the household matters. I
trust the physical and I know the
moral atmosphere of Cambridge will
have a favourable influence on
them. The residence of the young girls
with Prof. Guyot will give them
an opportunity of improvement
in French and other matters.

The article in Lilliman is considered a very excellent one
and I am advised by Bach to give it as wide a distribution
as possible.

When Mary has paid her visit to Mrs
Gray I wish Professor Guyot to
take her also. Her eyes are consider-
ably improved and I think the charge
of the family and all the duties which
have devolved on her since her mother's
absence have been of much service
to her in the way of education. She has
done her part admirably and has
winced more character in the
line of business than I thought she
possessed. My children are a source
of great pleasure to me and I am
anxious to give them all the
advantages my limited means will
allow.

With my kindest regards to Mrs
Gray I remain very truly yours
Friend & servant
Joseph Henry

Cambridge Aug 31st 1835-

My Dear Dr

I regret that I had not
an opportunity of bidding you
farewell. I did not wish you
to depart without receiving an ex-
pression of my high appreciation
of the services you have rendered
me and the cause of truth by your
able defence of the Smithsonian Inst.
and of my heartfelt gratitude
for your warm, constant, and judicious
friendship. Mrs Gray and yourself
have endeared yourselves to my children
and I know they will ever cherish a
grateful recollection of your kindness.

The girls spent the day with Mrs G.
yesterday in assisting her to catalogue
your books and thought they gave

the little aid they probably were company
for me and served to lighten the dark
hours which followed your departure.

She is an admirable woman and
you have been greatly blessed in your
connection with her and her family.

I have been much gratified with
my visit to Cambridge and feel myself
much benefited by the moral and
physical atmosphere of the place.

I have had several interviews with
Agassiz and find him in a very pleasant
condition of mind. There is, as there al-

ways will be, little shapings among
the men of science of Cambridge but
these do not amount to much and as

far as I have any influence I shall
endeavour to multiply them. On the opposite
page I have given a few memoranda
and on this I close with my warmest wishes
for your safe and prosperous journey.

W. Gray.

Your friend
Joseph Henry.

Smithsonian Institution,
October 22d. 1855

Dear Sir,

Your letter of the 18th Inst. has been duly received, and in answer I write to inform you that no box has been received from Prof. Von Martius addressed to this Institution. We will make inquiry respecting the box you allude to, and will inform you when it arrives.

We shall be pleased to receive any works from Mr Martius, and to reciprocate by sending some of the Smithsonian publications.

We have no duplicates of the "Archives du Muséum d'Hist. Naturelle," and the copy in our library was presented by the Minister of Public Instruction.

I remain, very truly

Your obedient serv't

Prof. Asa Gray,
Cambridge, Mass.

Joseph Henry
Secy. S. I.

My dear Dr

I am happy to learn that you have returned and how you have had a pleasant and profitable voyage. I learned before I left Cambridge that your brother-in-law had improved in health.

My family including Mrs Henry are now in Princeton. The girls had a very pleasant and valuable time at Cambridge and are especially indebted to Mrs. Gray for her care and attention to them.

Mrs Henry has much improved in health and is now better than she has been in several years. The experiment of submitting her to a regular and systematic course of medical

treatment has been apparently
entirely successful.

You have probably not had
time to look over the horse
pamphlet and to give me your
advice as to the proper course to
be pursued in regard to it.

When you have time give
me an account of your town
and any suggestions you have collected
in regard to the Unitarianism.

All our affairs are just now
in a peaceful condition and
as I am informed is about to
enter into business with his brother
in the publishing line.

With kind regards to Mrs G.
I remain as ever truly yours
Joseph Sturge

Smithsonian Inst
July 22nd 1836

My Dear Dr

I think the little flurry
on the part of our friend Prof-
Seward has blown over.

I found unexpectedly that
there would be more delay
in the publication of his paper

than I had anticipated and
as he had several times urged

its immediate appearance

I concluded to make,

what I thought the next-
best arrangement, and

have it printed at the expense
and under the authority of
the Institution in Silliman's
Journal. I think however
that the publication of it
in the transactions of the
Academy is preferable, but
I was not aware that this
could be done immediately.

Our friend, between ourselves,
was a little too quick, his
paper was not published in
Silliman's Journal, but only
arrangements made for
its publication. The truth is

he imagined that his paper
had been rejected by the Insti-
tution and wrote to me saying
that had been the case. I did
indeed submit it to an officer
of the army, who, though the
principal ideas were not
original. The critic did
not know that the writer
had borrowed from himself,
or in other words that the
Professor had repeated in
this paper some of the ideas
he had previously published
in a pamphlet form. I did
[not

give the name of the writer and
in order to prevent the delay
of a long correspondence
I concluded to apply to
Dana for its publication in
the Journal.

I have since received
a very pleasant letter from
Breadwell which I have
answered by the mail of to
day.

All the affairs of the insti-
tution are in a peaceful
condition. You have probably
seen by the papers that Felton
has been elected to supply the
place of Mr. Prout, and I hope

he will not hesitate to accept.
I see by an article from
Washington in the ^{Journal} Post that
an attempt will be made
to induce him to decline. I trust
he will have more courage
than Mr. Everett who declined
to repeat a lecture at the
Institution which he is to
deliver at Baltimore and Richmond
because he does not wish
to take part in the controversy
and because he is the relation
of Mr. Dale !!! The article
in the ^{Journal} Post was written by

a scribbler who lends his
pen as Major Dalgetty did
his sword to any one who will
pay for the use of it. He is
now in the employment of
that Prince of Hamburgs the
head of the observatory with
whom I have lately been
obliged to break a lance.
His name is Major Poore.

At this season of the
year I am constantly engaged
in official duty and have
not a moment of leisure
for any other thoughts than

those which relate to the
duty of my office. I am however
in good health and just now in
passable spirits.

I regret that I had not an
opportunity to pay more attention
to Mr. Loring, his lady and the young
gentleman. They appeared however
to enjoy their visit to Washington
and I am only sorry that they
came when I was unable to
give them more of my time.

We have very pleasant
and commodious apartments
in the Smithsonian building
and would be delighted to

receive a visit from Mrs G.
and yourself.

I have not yet found time
to take up the pamphlet of
Mr Morse but intend to do so
as soon as I get through
with the business of the meetings
of the Board. The pamphlets
which you sent to Mr Stephens
of London came to hand about
10 days ago. We are all in toler-
able good health and spirits.

I had a letter yesterday from
Dr Fovey as usual full of kind
expressions and indicating a
more cheerful condition of
mind.
as ever yours L.H.

San Francisco June 10th 1836

My Dear Sir,

I think it probable that an appropriation of considerable magnitude will be made by the present Congress for the promotion of agriculture under the direction of the Commissioner of Patents. He will however consult me in regard to the expenditure and consequently I am anxious to give such advice as may tend to direct the operations into the most productive channel. I beg therefore to request that you will give

any suggestions which may occur to you bearing on this subject. The following objects have been proposed by.

1. A large portion of the appropriation to be given for the purchase of foreign seeds to be distributed among farmers.

2. A smaller portion to be devoted to improve the zoology of the Smithsonian Inst.

3. For experiments on the economical uses of the forest trees of the U.S.

4. An analysis of all the grapes used for fodder in this country with experiments as to the quantity of milk and

butter produced under the same circumstances from each. & the analyses of the worn-out soils of the older states to ascertain whether they are deficient in any particular materials.

5. To continue the investigation begun by Dr. Lewis C. Beak on the value of the different kinds of grain from different parts of the United States.

In connection with this matter I wish you would give me some information as to the condition of the Report on Forest Trees when can it be finished in whole or in part? Perhaps something might be done to defray a part of the expense by means of the agricultural appropriation but of

This nothing is certain.

It is highly important that the proper persons should be employed in any investigations which may be made and therefore I write to ask what your opinion is as to the knowledge and talents of Mr Lapham of Wisconsin. He has been named in connection with researches on the grapes.

Any information you may give me will be prudently used without mentioning your name unless to give you credit for the suggestion and to enforce the proposition.

I remain very truly
your obt. servt.

Joseph Henry

Dr. Gray
Cambridge.

Smithsonian Inst
July 1st 1836

My Dear Dr

Mr. Hunt of the Firm of Rice & Hunt of Philadelphia has just called to make enquiry relative to procuring materials for the publication of a new edition of Michaux. He informs me that his house has purchased the original plates and intends to publish a new edition of the work with notes and additional plates and descriptions of all the trees which have been studied since the time of the appearance of the last edition.

He also states that the plates were purchased under the impression that our Report on Forest Trees had been abandoned.

They have employed as editor Mr J. Jay Smith of Philadelphia and would have applied to you to take charge of the work had they not been informed by Mr James (the)

you were so overwhelmed with engagements that it was impossible for you to think of engaging in the enterprise.

I have informed Mr. Davis, that the idea of abandoning our Report on Forest Trees had never been for a moment entertained, that I had heard from you on the subject this morning and that you would probably go on with the work and publish the first number within a year from this time.

He said that he could not compete with us but would ask ~~whether~~ whether some of the old plates would not answer for our Report and whether some of the plates we had prepared would not do for an addition to the old work?

I have thought it best to give you the substance of this conversation and to ask from you any suggestions

in regard to it which your practical mind may suggest.

I am not sure that I shall visit Cambridge this summer though I should be pleased to have a long talk with you on several points and particularly on that of the Report on Forest Trees.

Yours as ever
Your friend & servant
Joseph Henry

Dr. A. Gray
Cambridge
Mass.

involve an undue share
of the income on a narrow
speciality.

I remain very truly
your friend & servt

Joseph Henry

Dr. A. Gray

Smithsonian Inst
Oct 25th 1856

My Dear Dr

Your letter of the 22nd has
just been received and
I hasten immediately to reply.
I shall not fail to prepare
a letter for Mr Wright and
to request of the Spanish Min-
ister a paper which may
facilitate the explorations
in Cuba.

I am much surprised
to learn the facts you
mention relative to the
the package of Books

P.S. What shall I say in my
next Report on the probable appearance
of a second part of Henry?

and shall enquire
into the matter as soon
as Professor ~~has~~ ^{has} ~~sent~~ ^{sends}
in. The conduct of the
express company is un-
accountable. They should
be made to pay for
the package.

You promised to
give me a report on
the subject of the
publication of the said
tracts and I now send
you by the ~~mail~~ ^{mail} which

takes this note the letters
and drawings relating
to the subject. The publi-
cation would be exceedingly
expensive. A hundred
plates could not be furnished
for less than 7000 dollars.

I wish you would con-
fer confidentially with
some of the members of the
Lyceum on the subject.

While we wish to encourage
labour in every field of
research we must be
cautious in commencing
an operation which will

a visit from Mrs. J. & you
only I remain very truly
your friend & am
Joseph Henry

Dr. Gray

P.S. In sending of the packages
about the middle of the next month

Prof. Baird will make enquiry
at the express office for the packages
of books.

We have sent you the drawing
of the bird tracks. I think the
expense of the illustrations can be
much diminished by putting a number
of figures on each plate. We have
received a number of letters urging
the publication. I have authorized
the author to have photographs of all
the impressions made provided the
expense does not exceed 200 dollars.

Smithsonian Inst
Nov 13th 1856

My Dear Dr

Your package of the 7th has
been received and all the
points mentioned in the accom-
panying letter will be attended to.

We have just published
purchased a number of copies
of the census volume and shall
therefore be able to supply these
valuable and scarce works
to several of our correspondents.

Dr. Engelman is now in the
city. He leaves this afternoon.
I have endeavored to make
his visit to this place as pleasant
as possible to himself and his wife
and accordingly invited a number
of persons to meet them at my home.

I am to visit New York on the 18th and shall endeavour to induce Miss Eliza Torrey to return to Washington with me. I wish her to take charge of completing a one line catalogue for the library of the Institution which she commenced last summer.

Our library is increasing very rapidly in books of the very first quality by means of our exchange; but its value will be small if the study of the works is confined to this city. exclusion of those used by persons connected with the Institution not more than one person in the course of a month visits it for the purpose of research.

It is however important to have such a collection in the country.

We are placing our exchanges on a better footing and now that

the building is finished and paid for we shall I trust be able to bring up all parts of our operations to a good condition. The meteorology has given us the greatest disquietude but we have now commenced the printing of our results and ^{we shall}

I trust convince the observers that we have not been idle.

We shall call on you to go on with the memoir on Forest Trees and endeavour to finish all we have at present on hand.

Miss H. and the girls are in good condition and would be delighted to receive a

Smithsonian Institution

November 1st, 1836

My dear Sir,

The drawings I mentioned in my letter of the 23th Ult. have been sent to Philad. and will be forwarded to you as soon as they are returned.

I have examined a later estimate, according to which the price of illustrations will be very much reduced by the photographic process.

Accompanying this we send you a letter of introduction for Mr Wright, from the Spanish Minister, which I trust will be of some importance to him, and that he will endeavor to sustain the character we have given him. We also enclose the letter of the Spanish Minister to us which we beg to request you will return by mail.

Mr Baird is now in Philad. I have requested him to procure all the information possible in reference to Mr Wright's box.

I remain, very truly yours

Dr Usa Gray
Cambridge, Mass.

Joseph Henry

in regard to those who
have received their
pay and have not
done the work. I am
myself obliged to be strict
in such matters.

Give me all the
facts in the case with
which you are acquaint-
ed and your opinion;
as to what ought to be
done. I will consider

what you write strictly
confidential

What part of the work
has Agassiz, and is there

No.

Smithsonian Institution,

Washington, D. C. 25th

18 56

My Dear Dr

I am now busily engaged
in making up my Report
for the present year and

you will oblige me by
informing me as to what

I shall say relative to
the publication of the first part
of the work on Forest Trees.

Can you have it ready

for the press within the year

1857? If so what will
it comprise? What drawings

58
having been made and
what will be required
to finish the first part?

Drayton as you have
probably heard has gone
to his long home and
Mr Pearce who has
charge of the publication
of the reports of the exploring
expedition is much per-
plexed as to what he shall
do to bring the work to a
close. The charge

of the work was originally
taken from Wilkes and
given under the direction

of Mr Pearce to Drayton but
the latter was under the
control of Wilkes and
therefore the old condition
was not materially
changed.

Mr Pearce thinks some-
thing is closing the work with
some parts as have been
published or are now
ready for the press. There
nearly appears to be
no end to the matter
and I am not surprised
that Mr Pearce should
manifest some feeling

any probability that he will
complete it soon? What
part has Dr Torrey and
when can he finish it?
What is the condition of your
part? Have all the
Reporters been paid in
advance? What parts
could be best omitted
in bringing the whole to
a close? Girard has
not finished the account
of the Reptiles though
he drew the pay more
than three years ago.

Give me the information

...and ...
I for ... to confer with
... to the course
... to be pursued.

All our affairs are
... in a peaceful and
prosperous condition though
the business of my office
constantly increases and
I am unable with the
assistance of Mr. Phoebe
at this season of the year
to keep up with the corres-
pondence.

Very cold weather -
Kind regards to Mrs. Gray
and the congratulations of this
season. I remain very truly
your friend
Joseph Henry

P.S. We send you a copy
of the Report for 1836 from
which you will see that
we have commenced to
publish the lectures and
I add this postscript to ask
whether you cannot give
us those you delivered
at the Institution. They
would serve to diffuse
a preliminary knowledge
of the subject and would
enhance the value of your
text-books. They should
be illustrated with wood
cuts

Smithsonian Institution
Washington Nov 27th 1856

Dear Sir

Your report on the proposition relative to the publication of photographs of fossil footprints has just been received, and I hasten in behalf of the Regents to thank you for the valuable suggestions it contains.

As a preliminary step we have authorized Dr. Sear to procure photographic representations of all the specimens he can obtain provided the cost of the operation does not exceed two hundred dollars. The drawings themselves will be valuable should they never be published, and after they have been received we will submit them to Prof. Dana & Tryman.

Your suggestion in regard to the preservation of the negative plates is excellent, and may be acted upon in regard to other works. There is one question, however, to be settled, namely whether photographic illustrations are

permanent, and will stand a long exposure
to light.

The packages you wish us to forward
to Europe will be in time if they arrive
soon.

I am very truly
your obedient servant

Joseph Henry
Secretary S. I. A.

Dr. A. Gray
Cambridge

~~Washington~~ July 27th
1854
1

My Dear Dr.

This is our most busy season and I am obliged to occasionally to put off some things which ought to be attended to immediately I hope therefore that you will excuse my delay in attending to your account relative to forest trees

I have just signed a draft for the amount and I hope the money will reach you in time to meet your demands.

Your relatives were

at the lecture and our
room last evening -
The city is now filling
up and will be overflowing
until after the change
of administration -

Pucci's lectures have taken
very well. I was some-
what afraid they would
not suit the atmosphere
of Washington but in this
I was agreeably disappointed.

With kind regards to Mrs
Gray I remain as ever

Truly yours

Joseph Quincy

Dr Gray
Cambridge

Smithsonian Inst
April 6th 1837

My Dear Dr

Your letter relative to the new
tariff was duly received and will
be presented to the Hon. Mr. Sumner
at the next session of Congress. I fully
agree with you in opinion that a
tax of this magnitude or indeed
of any kind ought not to be placed
on the "increase and diffusion of
knowledge". The object of this letter
was not however to merely acknowledge
the receipt of the letter above mentioned
but to ask as a favour that you
will procure some reliable infor.

tion as to the method of preserving
and exhibiting wet specimens of
natural history. What is the
experience of the Boston academy
on this subject? How long will
the specimens remain undissolved
in alcohol? How can the bottles
be kept tight? I make these enquiries
because we have concluded to take
charge of the museum of the exploring
expedition now in the Patent office on
the condition that congress pays the
expense of keeping. It is necessary to
fit ^{up} this museum and that of the Institution
so as to produce a good popular effect
or at least that part of the museum
of the Institution which is intended

for public exhibition. I have much doubt
of the propriety of putting in such a collection
a large number of glass vessels containing
wet specimens. If they can be preserved
without a mill we have not yet
as the Constitution discovered the proper
and hence my objection.

As a beginning Congress at the
close of the last session voted 17,000
dollars for cases and for the transport
and arrangement of the government
collection and if we can make the
establishment popular I doubt not
that in due time we shall be relieved
from the expense, if not the care,
of a museum. It does not become
the dignity of the Constitution to do
any thing for popular objects on its

own account but as the custodian
of the Government property it will
be obliged to do something in the way
of display.

My intention is to employ the best
taxidermist we can obtain for putting
up the specimens at first and to have
them kept in order by competent persons.
Perhaps it may be well to procure
the information without making known
the object of your enquiry. Dr. Wyman
can give you some valuable facts
on the subject.

Eliza Torrey is still with us
and working very industriously and
apparently with enthusiasm on
the arrangement of the pamphlets of our
Library - with kind regards to Mrs. G.

Dr. T. Gray. (Wyman as ever truly yours
— Coe W. Hewes

Smithsonian Institution May 2, 1857

Dear Sir,

Please accept our thanks for the name of the plant, which we will communicate to the person interested.

We have found the package of books, and have concluded to pay the bill & place the works in our library, provided you do not draw upon us before the 1st of July.

If you can sell Fendler's plants to any botanist who may want them we would prefer that you should do so, rather than purchase them ourselves. I am afraid we shall not be able to pay for them this year so many demands having been made on our appropriation.

Very truly,

Your friend,

Joseph Henry

Prof. A. Gray,

No.

Smithsonian Institution,

Washington, D. C.

July 24 1857

My Dear Professor

The ship which took our packages to Europe last autumn was accidentally delayed beyond the usual time; but we are now beginning to receive acknowledgments for the articles forwarded by it and I trust your correspondents will soon inform you that they too have received the books you sent to them.

We now make two shipments per year and to save expense, an important

matter, we generally employ
a sailing vessel though the
delivery may not be very
prompt it is sure. Oil

system of exchange has
now become a very impor-
tant business and is attended
with more labour than
the public could readily
comprehend.

I shall hope to meet
you at the session of the
American association
in Canada next month
and until then and
be assured that I shall
remain very truly
your friend &c
Dr A Gray
Joseph Henry

Smithsonian Inst.

July 8th 1858

My Dear Prof.

We cannot find a copy of the Report of Capt. Sitgreaves except one at a Book store for which the extravagant price of $3\frac{1}{2}$ is charged. We have concluded to purchase it and charge the excess of cost, above the limit mentioned to the Smithsonian account.

Any suggestions you may be pleased to give relative to the printing of the scientific Reports by Congress will be thankfully received by us, and I doubt not can be turned to good account through the influence of Senator Packer

I leave home tomorrow morning
on a flying visit to Albany. I do not
much covet the journey at this season
of the year and in the midst of the pressing
engagements of this season of the year.

There is difficulty in the affairs of
the Dudley observatory which it is
thought cannot be settled without my
presence, I go from a sense of duty
not from choice.

Inman as ever
Truly your friend
Joseph Hewey

Professor A. Gray
Cambridge.

Smithsonian Institution
Jan'y 22 1858.

My dear Sir,

Sitgreaves Report has been procured and will be sent as you direct. We can at least send a copy of the Railroad Surveys &c to the Society of Natural History at Geneva.

Accompanying this we send you a draft for \$130, the amount of your bill. We also send a draft for \$156.50 for Mr Sprague according to your request.

We have undertaken so many operations which are still behind hand, that we shall be brought to a stand still in our publications unless the 11th volume of the Contributions is made up principally of memoirs previously paid for, and we shall therefore expect it to contain the first number of your memoir on forest trees.

Do not forget your suggestions as to the future publications of the Government.

I remain, yours truly,

Prof Asa Gray.

Joseph Henry Sec'y

Smithsonian Inst
Feby 3^d 1858

My dear Sir

It will be impossible for us during the present year to do anything in the way of distributing the Genera, though I am still of the opinion the work ought to be continued by this Institution. We have undertaken so many operations that until we have cleared off what is on hand we cannot think of beginning any thing more.

At the beginning of a new

year we are commencing a system of retrenchment in order to bring our expenditures considerably within our income.

We have an unsettled bill with Rice & Kendall and do not wish to increase our indebtedness to them. If however the stones can be purchased at auction at a low rate we would venture a small sum to secure them.

We find great difficulty in keeping the expenditures of the establishment within the receipts and this is increased by the delay in the completion of works we have undertaken

under the uncertainty as to their ultimate cost.

If the stones are bid for on account of the Institution the fact ought not to be made known otherwise we shall be obliged to pay a double price for them.

With kind regards to Mr. Gray
I remain very truly
Your friend
Joseph Avery

J. H. Gray
Cambridge Mass.

Smithsonian Inst
May 31st 1838

My Dear Dr

The proposition to publish
a whole volume on the Forest
Trees of North America will suit
our arrangements very well
provided it can be carried
out without fail on your
part. For this purpose the prin-
ting should be commenced on
the 1st of Jan'y 1860 or in the latter
part of the year 1859.

The tenth volume of the contribu-
tions is now nearly completed and
will be illustrated by the plates
of the 3rd and last part of Harvey's work
with several other drawings. The

eleventh volume, or that for 1859
will contain Brewer's paper on
eggs and other illustrated matter.

The volume for 1860 may there-
fore consist entirely of your memoir.

I shall send you the map
of arable land, before it is put
to press, for critical examination.
I shall publish a small copy
of it in my next Report to the
Patent Office on Meteorology.

I am not sure that I have
given you a copy of my last
report on this subject and
shall therefore direct a copy
to be forwarded with this letter.

I have made some remarks
in this report on the character
of the climate and soil of the

great west, which have attracted
considerable attention and given
rise to a number of comments par-
ticularly in the agricultural journals
and papers. To illustrate the same
subject more fully is the object
of the map now in preparation.

I doubt not your books will
be well received by the public
and serve to reimburse you for
some of your losses.

I trust in due time we shall
be able to assist in publishing
the general of the United States.

I remain very truly
your friend & servt

Joseph Hury

Dr A. Gray
Cambridge Mass.

Smithsonian Inst

May 22^o 1858

I am glad to learn
from your letter of the 12th that
missing letter has been received.

I am just now in the midst
of the preparation of our Reports
and with the attendance on
congress are therefore much
occupied.

Among other matters
which is now occupying
my attention is the compilation
of a map of the available land

in the United States. I am
specially impelled to this by
the interest excited by my
paper on Meteorology published
in the Reports of the Patent
Office. The subject is of
much importance in a moral
and political point of view and
I wish to make the map as
perfect as the existing means
will permit.

I have engaged Mr Cooper
the son of Mr Cooper of New York
the naturalist to do the
work. He has been over
a considerable portion of

the western plains and is a
cautious reliable man. I shall
desire however to submit the
map to your critical inspection.

While I am writing this I
am handed by John the mail
man a copy of your little
book "How Plants grow" I shall
put it into the hands of many and
I doubt not they will
be able to enlighten me on the
subject.

With kind regards to Mrs G.
I remain as ever

Truly your friend

Joseph Huxley

Dr A. Gray
Cambridge
Mass.

Smithsonian Inst
June 24th 1858

My Dear Dr

We shall send you by Adams's Express of tomorrow a manuscript account of the wooded regions of the United States by Dr. Cooper which I beg you to examine and return to us with your criticisms as soon as possible. I wish to make some extracts from the manuscript in my next Report for the Patent Office which must be finished by the 1st of Aug.

The article may be published in a separate form with a large map when it is sufficiently perfect for that purpose.

The small map which accompanies the manuscript is reduced from the larger one and

is intended for the Report
of the Patent Office.

The idea has occurred to me
that it would be important to
append a paper of this kind
to your work on the Forest-trees
of North America.

There is another appendix, which
I think I have mentioned, which,
it appears to me, ought to be
added. I allude to a set of tables
containing the results of a series of
experiments on the strength of the
different kinds of timber.

I hope the work will also
embrace an account of the methods
of cultivation and preservation of
trees.

I remain as ever
very truly yours

Dr. A. Gray,
Cambridge Mass

Joseph Hurry

No. 7.

Smithsonian Institution,

Washington, D. C.

Sept 18 1858

Dear Sir:

We have received a number of copies of the following work -

"Flora Brasiliensis" edidit C. F. Ph. de Martius. Fasciculus XXII.
Lipsae July 1858.

These have your address on, and the freight amounted to \$20.

Please let us hear from you respecting them, and as to the number of copies you wish sent to your address at Cambridge.

Yours respectfully

Joseph Henry

Prof Asa Gray
Cambridge, Mass.

Smithsonian Institution
Jan'y. 13th 1859

My Dear Dr

I am now busily engaged
in making up my Report for 1858
and would be pleased to be
able to say something relative
to the book on Forest Trees.

According to our last understand-
ing if my memory is not in fault
you proposed to publish the whole
or a part in 1860. We have suffi-
cient material to make up the
11th volume of the contributions and
can make arrangements if you
desire us to do so to devote the
whole or a portion of the 12th volume
to your work.

Let me hear from you as soon
as convenient on this point.

I regret that we could not
at the time of the sale of the
effects of Putnam purchase the
plates of the "General". Perhaps
however we may have an
other opportunity to get possession
of them on reasonable terms
and to complete the work.

I remain very truly
Yours obt. servt.

Joseph Hewey

Dr. A. Gray
Cambridge

Smithsonian Institution
July 10th 1859

My dear Dr

We shall be glad to commence the publication of the work on forest trees as soon as you have a part prepared for the press.

I think there is at present some some prospect that the further printing of the results of the exploring expedition will be stopped. There is in congress a great prejudice against printing Reports of a scientific character and this is not much to be wondered at considering the abuses which have been practiced.

You may have seen that a resolution was introduced into the senate by Mr. Pearce in behalf of the Librarian committee asking for a statement of all the parts connected with the

preparation and printing of the
Reports of the Expedition

Mr Pearce says that he cannot
ask for any farther appropriation
that he was assured that the
last appropriation was sufficient
I cannot say how the matter
will end though I think it
very probable that no appropri-
ation will be made for this
purpose at the present session.

I was much pleased to
learn that you have been studying
the flora of Japan in connection
with the subject you mentioned.
It is not the gift of any one indi-
vidual to be equally well developed
in every direction and though our
friend Agnew is a man of generous

Smithsonian Institution
July 18th 1859

My dear Professor

Your note of the 16th and the accompanying letter have just been received and I hasten to reply by the return mail.

You need not trouble yourself on account of the Report on Fossils. If it cannot be finished in part or in whole in 1860 it may be completed in 1861 or 62. I shall not state that it will be printed in 1860 as I had intended to do in the next Report to Congress.

I cannot say what will be the fate of the remaining portions of the exploring expedition Reports. Mr Pearce is much displeas'd with the Capt. who induced him

to ask for the completion of the work
a sum declaimed at the time suffi-
cient but which is now known to
be deficient by upwards of
forty thousand dollars.

I doubt whether any appro-
priation will be made for the
work this session. The dominant
feeling is that of retrenchment.
The treasury of the nation is empty
and at the end of the year will
probably if possible be in a worse
condition.

I will see Mr. Pease
this evening after lecture and
then give him your letter.

I dined yesterday at Buckle's
with Judge Lowry and was pleased
to learn that he is a relative of
your good wife. I think I had

been informed of the fact before but
it had slipped out of my mind. I have
met him a few times and have
found him a very agreeable gentle
man.

Professor Cook is now in the
midst of his course of lectures on
chemistry and is giving excellent
satisfaction. The Room is very nicely
crowded to its utmost capacity. He
is one of the very best popular lecturers
on chemistry I have ever heard.
The lectures are well arranged well
illustrated and well delivered.

I have not of late heard any
thing of Dr. Torrey. all his difficulties
have however passed over. There
is pending before congress a motion
to cut down the appropriation
for the N.Y. mint which if it pass
may affect him some.

Dr. A. Gray

Yours friend
Joseph Hewey

endeavouring to apply
the principles of vegetable
and animal distribution
to the phenomena of the
increase of population.

I am confident that
this subject has not of
late years been properly
discussed the approbation
heaped upon Malthus has
deterred later writers from
adopting his theory the principles
of which though often objected
to have never been disproved

I see that the path coming
book of your friend Darwin is
alluded to by Dr Jardine in his remarks
at the meeting of the British Association
of Inverness your friend
Joseph Sturge

I will answer you other letter tomorrow

Smithsonian Inst
Oct 22nd 1859
My Dear Dr

I am much obliged
to you for your kind efforts
relative to the memoirs so
long delayed by Professor
Agassiz. I have received
a letter from him in which
he promises to prepare the
papers immediately but says
nothing of the supplement.

He brings a request from
two European savants that the
Smithsonian Institution will
publish these memoirs but
on this point I am not very

clear as to what course
we ought to adopt in such
cases; on the one hand we
wish to make the Institution
as catholic as possible
on the other there is so much
greater want of the means of
publication in this country than
in Europe that I do not think
it prudent to encourage the
presentation of papers from the
other side of the Atlantic.

I am glad to learn that
you have got information as
to the Lithographic Stones and
shall be pleased to hear that
you have secured them by

purchase. I presume he will
charge for them the usual price
and you can draw on us
for the amount.

I have run over Buckle's
History of civilization and find
it a suggestive but very unsafe
work. His knowledge of science
is of the most superficial kind
and his deductions from facts
frequently unphilosophical. The
work is however suggestive and
will awaken thought and
discussion. I have given
considerable attention
to some points on which
we conversed and been

Smithsonian Inst
Nov 3rd 1859

My Dear Dr

Commander Rodgers has just called to enquire whether we can publish the paper now in your possession relative to the botany of Hongkong and I have informed him that the article can be put to press immediately. It will form a part of the 12th volume of our contributions but it may be distributed to botanists in advance of the publication of the entire volume.

Professor Agassiz has written to request that we will publish an extended memoir from Valenciennes the celebrated French Naturalist but I am not clear as to the propriety of encouraging the presentation of papers from abroad unless they pertain in some way to matters connected with this country. On the one hand we wish

to be as liberal as possible
and on the other to make
the best use of our funds and
for this purpose have adopted
the policy of doing nothing with
the Smithsonian money which
can as well be done by other
means. Now since it is to be
understood that there are more
abundant resources in the richly
endowed establishments of Europe
for publication than in the United
States it appears to me that we
ought to hesitate to encourage foreign
contributions so long as there is more
matter in this country than we can
give to the world.

Give me your views on this point
with kind regard to Mrs Gray I
am as ever truly

your friend &
Joseph Henry

Dr. A. Gray

Smithsonian Institution
January 6th 1860

My Dear Dr

We have no desire to change our printer at the north although we shall give Dr Brewer permission to have his paper on eggs printed at any office he may prefer provided the work be well done at the same price

We shall probably have a large demand for your paper and therefore shall require a larger edition one of less than 1700 copies will not suffice. You will therefore order this number to be struck off.

I am much obliged to you for the suggestions as to the stereotyping of our papers and shall give the suggestions due consideration

We are just now experiencing a remarkable term of cold weather. The thermometer during almost every night this week has been down to

near the zero point of the scale

It would give Mrs A and myself much pleasure to see Mrs Gray and yourself at our house this winter. We can give you much more comfortable quarters than we did when you were last in this city. Send Mrs Gray over with Professor Felton and his daughter and then come for her yourself -

Bring with you a few drawings and give us a course of lectures on trees or any other botanical subject. The more genial climate of this place will be much more favourable to the health of your good wife than an exposure to the Boreal Regions of Cambridge -

I remain as ever very
Truly your friend
Joseph Henry

Dr. A. Gray
Cambridge

Smithsonian Inst
Jan'y 19th 1850

My dear Dr

I am very sorry to learn from your letter just received that our much esteemed friend Mrs Gray thinks she cannot come on with Professor Feltou. But I hope she may yet be induced to change her mind on this point. We are now having very pleasant weather in Washington and I am sure that between our family and that of Judge Foring she would much enjoy her visit.

It is expected that you will put unmercifully to proof the paper on Botany

I shall take into serious consideration your report

recommendation relative
to the electrotyping of our
manuscripts

I sent for a copy of Darwin's
book as soon as I learned
that it was unbound in
any form but was informed
by the Appleton's that it had
not been published I
read with much interest
the notice of the work which
appeared in the Athenaeum and
was somewhat pleased
to learn from this that the
author had connected his
speculations with the theory
of Malthus and had gone
into a line of speculation

on which I had entered

Pence is now giving us a
short course of lectures on
natural mathematics and
on comets. He is very much
imbued with the views of agency

You will find some very
interesting facts on the subject
in a prize essay in one of the last
volumes of the transactions of our
Royal agricultural societies
of England. The substance of
which is that by breeding from
a selection of sheep with for
example short legs, the offspring
in the course of time become all
short legged and form a persistent
variety the stability of which is in
proportion to the length of the time the
process of selection has been continued
We shall be able to send

to send you purchase of books
to California and to receive
in return any thing you con-
sider my desire to present
to you.

I remain very truly
your friend

Joseph Henry

Dr. H. Gray
Cambridge.

Southwestern Inst
April 17th 1860

My dear Dr

Mrs Gray arrived here on Saturday and appeared much better than I expected to see her. She called at our house on Sunday after church and I expected her and the whole party at the Institution yesterday but owing to the rain they did not come out. I shall see Mrs G this evening if not during the day. I regret that she did not come directly to our house but hope she and your sister will make us a visit on their return from the South.

Dr. Buache writes to ask me why you go so strongly against the Hayes expedition? We think there are a number of interesting problems to be solved by an expedition in the direction towards the geographical pole which would repay in some degree the labour of the expedition. I am however not well pleased with Dr Hayes for putting my name in the pamphlet in connection with a subscription of 1000 dolls. I informed

him that if he could secure the outfit the
Smithsonian Institution would furnish
him with a set of magnifying and microscopical
glass instruments. He has endeavoured
to explain the mistake and has promised
to correct it in any subsequent publica-
tion which may be made.

Mrs. Gray informs me that there is
in Cambridge and at the academy quite
a row relative to Darwin. I have looked
over the article in the North American
and think it childish in those parts
on which my eye rested. The writer
may perhaps have made some points
which I have not seen. Our copy of the
Review is now in the hands of Professor
Bailey when he returns it. I will give
the article a careful perusal.

While I have been engaged in writing
this letter a gentleman has brought in
a phial containing a small quantity of a
yellow substance of which I send you
one half and which he calls the Californian
yeast plant. The specimen I send comes from
North Carolina and is used in that country
for the production of ginger beer. For this purpose

a quantity of water sweetened with molasses
is put into a suitable vessel with a quantity
of ginger to which is added a quantity
of the yellow substance. In the course
of 12 or 18 hours according to the temper-
ature the beer is produced while at the
same time the plant has increased
in the bottom of the vessel and may be
thus propagated indefinitely. It is stated
in the newspapers that persons have
died after drinking freely for some time
of the beer from the growth of the plant in
the stomachs or intestines. You are probably
acquainted with all the facts relative to
this article; but should you not be I think
them well worthy investigation. Will
the sweetened water commence to ferment
sooner with the addition of the plant than
without it. If so the fact will be important
for the theory of fermentation.

I have just been into the house and
learned from Mrs. Hurry and the girls ^{that} they have
just returned from a call on Mrs. Gray and
have learned that the party have gone to
Mount Vernon. The weather to day is very
fine; yesterday it was quite unpleasant.
We shall expect to have their company with
us on Wednesday (tomorrow)

I am just now much occupied
with the business of the Institution and
with getting out our several publi-
cations.

I remain very truly
your friend

J. P. Sturges,

W. A. Gray
Cambridge.

Smithsonian Institution

Aug. 14th 1860

My dear Dr.

I have received an application from Dr. Torrey for a set of duplicates of the Braconeridae forms to be presented to gentlemen to assist him in the preparation of an important work on the subject, and I write to request that if you think this disposition of the duplicate specimens a proper one, that you will send the collection which is now in your possession to the Dr. All we desire is a full set for the Smithsonian Museum and that the duplicates may be disposed of in the best manner for the advancement of science.

I regret that I did not meet you at the meeting of the association at Newport. I wished to have
[some]

conversations with you on the
operations of the Institution in
regard to natural history. Prof.
Agassiz complained to me that
we were doing injury to the
cause of the advance of this
branch of knowledge by the encour-
agement we were giving to young
men to devote themselves to
descriptions of natural history,
instead of applying themselves
to the higher study of the laws of
structure and the philosophy
of life.

You know I wish to give
such a direction to the operations
and influence of the Institution

as will best advance general
science, and I am desirous of
obtaining definite ideas ^{as} to how
this may be accomplished in
the department of natural history.
I failed to obtain from Prof. Agassiz
a clear exposition of his views, al-
though he appeared to be unopposed
with ^{an} idea of the necessity of a change.

The following are the questions
to be answered in relation
to the subject as it presents itself
to me.

1. Is it important to make col-
lections of duplicates in natural
history?

2. Is it important that ^{objects in natural} they
^{history} should be described in
order that they may be identi-
fied? and if so

3 What plan ought to be adopted
to do this in the best manner?

4 So then at the present time

a system of classification

for animals similar to that

for plants, founded on natural

affinities, which would be

generally adopted by natural-

ists?

5 Ought the Institution to

encourage young naturalists

to devote themselves to the

description of species, or to their

impediments in their way by re-

fusing free access to the specimens?

6 Finally, how can the Institution
most effectually promote Natural
History? I remain very truly

Dr. A. Gray

Your Joseph Henry

Smithsonian Inst

Dec 5th 1860

My Dear Professor

When I prepared the letter of instruction for Dr. Torrey I had mistaid the notes you furnished me and inserted from memory the names of the several substitutions to be first supplied. I shall however write to the Dr. and request him to place St. Peterburgh before Berlin.

I am glad to learn that you have found all the stones containing the drawings for the Report on Trees and I shall be pleased to honor your draft for the cost of those you have purchased from Mr. Bradford as soon as it is presented. I am with you in thinking it proper to have all the stones insured

We are desirous to do as
much as our means will
permit in the way of ascertaining
the valuable botanical ex-
hibitions of the Wrights but we
cannot at present advance
the 90 dollars from the appro-
priation of the present year although
we may perhaps do it from that
of the next provided there be
any money in the Treasury
of the U.S. from which the
annual payments to this
Institution can be made.

The Government for the
present has stopped payments
and we are unable at this
time to draw the 2000 dollars
due us for the charge of the
Museum for the last half
year. We hope however that

some arrangements may be
made by Congress by which
the present condition of affairs
may be changed for the better

I remain as ever

Truly yours to

Joseph Henry

Dr. A. Gray
Cambridge
Mass.

My dear Dr. (1) Washington Dec 7th 1860

The good people of the north do not appear to believe in the fact of the danger in which we are now placed. I think it more than probable that our Union is doomed to suffer the fate of all governments. The struggle of life must produce its effects with us as it has with all the world of past history. Every year the number of persons who adopt politics as a profession is increasing; the class must therefore deteriorate in talents, acquirements, and morality. The struggle for office must constantly increase in intensity, and as under our organization the number ^{of offices} cannot be changed the tendency will be to separate us into several governments, each with a president and a corps of sub-ordinates.

If the north will suffer the
negro question to remain un-
disturbed the whole matter
will in due time be settled
by the law of population and
the conflict of Races. ~~white~~
Labor from the north, as it
is cheapened by the increase
of laborers, must be gradually
extended into the south until
it is stopped by the heat of
the sun.

There are parts of our country
which cannot be worked by the
white man and this must be
cultivated by the negro or not
at all. I have little hope
that the black man can ever
be civilized unless by selection
in the course of geological
periods, but I would make

make the experiment on a grand scale and expend millions under the direction of the colonization society in establishing an empire in Africa. The rulers might be the half breeds which we could constantly furnish for many years to come.

I do not think the negro can ever exist in close approximation with the white man, except in a state of slavery. The struggle of life must be most severe at the lowest point of the scale and the negro has neither the mental nor physical power, in our climate, to continue long the contest.

May we hope to have a few

lectures from you this winter
our trees and the pleasure
of a visit from Mrs. Gray?

I am much gratified to
learn that our friend
Dr. Torrey has made so
pleasant an arrangement
with the Columbia College. In
the present aspect of political
affairs no position connected
with the government can be
considered permanent.

This communication was
intended as an accompany-
ment to my official letter
of yesterday but was acciden-
tally omitted in mailing the
other. I remain as ever
Truly yours friend
Joseph Quincy

Dr. A. Gray

green. We have more than ten times
the number of politicians and consequently
while the number of the offices of the general
Government remain comparatively
the same the "struggle" for office has
become ten times more fierce.

This is one cause of the present
disruption and must tend unless
checked to further dismemberment.

Three confederacies will give
three times as many offices for hungry
politicians. There at present

100,000 applicants for office
and but a small part of these will

be supplied - the remainder or rather
the great majority will turn against

the party now in power and endeavour
by all means in their power to cripple

the administration. I have not time
to develop my views but must close with
saying that you have not sent me a copy of your

Defense of Darwin, and the request that you
will give my kind regards to Mrs Gray yours truly
Joseph Henry

Smithsonian Institution

April 29th 1861

My Dear Dr.

In answer to your letter
of the 26th just received I write
to say that we shall be pleased
to obtain the package you men-
tion as soon as the city is again in
a proper connection with the north,
by means of the express. We can at
present transmit small packages
at a cost of four times that of the
usual charge.

For nearly a week we were in
a state of isolation, cut off in every di-
rection from the outside barbarians;
with no other intelligence than that
of threatened invasions from various
quarters. We experienced however
no bodily fear although I felt at

at one time somewhat anxious that Mrs. N. and the girls should leave, but they refused to go without me and therefore remained until they could not get away even had they desired to do so.

The city was at one time in considerable danger of an attack. The successive flags could be seen from the high tower of the Institution waving over the adjacent portions of Virginia while war was waging in Baltimore. But now that there are nearly 20 thousand troops at hand ready for action there is no fear of an invasion for the present. I think it probable however, from all I can learn, that an attack will be made as soon as Davis can collect what he may consider a sufficient force unless congress makes some arrangement with the existence of the southern confederacy is officially acknowledged.

I would like to have a good long talk with you on the present condition of our country and its future prospects. To consider the subject properly it would be necessary for us to elevate ourselves above the excitement of the present hour and view the facts from a scientific and unprejudiced position.

I have come to the conclusion that our union as a whole cannot be permanent and that it will be far better to separate peacefully than to deluge the country with blood, and then in the end be as far from a harmonious union as we now are. I think the north will be more harmonious and enabled to amend the constitution than with the south. We have become too large. We have ten times as many people as we had at the beginning of the government, and ten times those numbers had

Smithsonian Institution

July 12th 1861

My dear Dr

I intend to leave Washington with my family for some place in the mountainous part of Penn^a. as soon after Congress adjourns as I can get away. From present appearances the Law-makers of the land will not remain in session beyond the present month. The hot weather and the fact that they get no additional pay, for the session will not tend to keep them long in this city.

As there will probably be no inspection of light-houses this season I do not think I shall have the pleasure of seeing you this summer.

unless it be in a more southern latitude than that of Cambridge.

Are you not desirous to visit the army and give Mrs. Gray an opportunity of seeing Washington in her present martial character? We shall endeavour to make your visit as pleasant and as profitable as the times will allow.

We have become habituated to the pride and circumstance of glorious war and are scarcely satisfied with the daily papers unless they give us an account of a skirmish in which a number of human beings are hurried into eternity. The warlike spirit may perhaps be referred to an outcrop of the transmitted habits of our heroic progenitors which has been dormant for some time and now called forth by the events of the day.

This war will probably produce some remarkable changes in the con-

dition and character of our country. The negro in all the conquered states will probably be liberated and in that case left by themselves to carry on the battle of life with the whites they will like the Indians be driven to the wall and in time go out of existence. The negroes now living in New England are merely retained on the principle of natural selection the stronger and more intellectual continuing the battle a little longer than their less persistent brethren. But I cannot go into this subject with any pen and must therefore defer it until we can have a full vocal discussion.

You have been unusually sparing of your letters for the last year, you have not informed me as to your operations and scarcely mentioned Mrs. Gray. Dr. Torrey gave us a very pleasant visit at the time of the coming in of the new administration but I have scarcely heard from him since. I do not think there has been any attempt to molest him in his position in the army office and if there were any I do not think it would be successful. Mr. Chase is a very reasonable

man and is not disposed to make more
changes than is unavoidable.

I am writing this in my office otherwise
Mrs Henry and the girls would join me in
Kind regards to Mrs. Gray.

I remain as ever truly
Your friend & serv't.
Joseph Henry

Dr. A. Gray
Cambridge Mass.

Smithsonian Institution,
Washington, July 12, 1861.

Dear Sir:

We find on consulting our books that the bill, of Rice and Kendall for paper, which you enclosed to us a few days ago was paid on the 31st of January.

Notwithstanding the disturbed political condition of the country, we are going on in the usual way, with the exception of curtailing our operations. On account of the impossibility of collecting the interest on some of the bonds in which our extra funds are invested, our annual income will be diminished by at least \$500 dollars below the estimate at the beginning of the present year.

Besides this we are informed this morning, from our Banker, who has presented our requisition for a half-year's income of the fund of the Institution, that Government intends to pay only Treasury notes. This will be another cause of diminution of income, unless I can prevail on the Secretary of the Treasury

to pay us in specie.

On account of this condition of our finances we are anxious that our next volume should be as little expensive as possible and we have therefore written to Professor Agassiz to urge him to finish the manuscript of the paper, of which we have had the plates so long on hand. We have not however as yet heard anything from him in reply.

For a similar reason we would be pleased if you could furnish us with a number of your Memoir on the Forest Trees; provided the additional plates would not make too large a draft on our treasury.

Our invoices of presentations for the world abroad have been shipped, and most of our business for the year posted up.

I remain,

Very Respectfully,
Your obed^t. Serv^t.

Joseph Henry
Secretary S. I.

Prof. Asa Gray,
Cambridge
Mass.

Washington Aug 13th 1861

My Dear Sir

Your very acceptable letter
of the 9th has just been received and
as I intend to leave this city on Thursday
I shall make the enquiry as to the
whenever Capt. Rogers to day by
calling at the house of his brother
Lieut. General Migs.

Had I received your letter a few
days ago before the departure of those
of whom I would make enquiry I
would have been able to give you
some information as to the status of
the appropriation for the North Pacific
expedition. It is possible however
that you may obtain the information
desired from Mr. Stimpson who has
your name and is probably at this
time at his father's in Cambridge.

I leave Washington for about

five or six weeks to make a tour
in the coal Regions of Penn^a and
to visit Princeton New York and
perhaps Albany. The Army and
our girls are going for a week
or two to York Springs and thence
to Germantown where I intend
to join them on my return.

I sincerely regret that I
shall not have an opportunity
to have a long talk with you
this summer and I must therefore
insist that you bring Mrs. Gray
to us in the autumn or early winter.
The climate of your delightful
new residence is too severe for
us in the beginning of winter or spring
while Washington at these seasons is
usually mild and pleasant.

I have given considerable attention
to the study of history, government and
political economy since we last
met and I would be gratified
to have an opportunity to discuss
some of the points with you.

If I have wandered too far from
the general line of previous studies
you and the cause and must
be held responsible for the coils
which may result from such
excursions into new paths.

Our city is just now in apparently
a very peaceful condition. A great
change has taken place since Gen.
McClelland took command and our
streets are now as orderly as those of
Cambridge.

I had a letter yesterday from
Dr. Torrey he is getting on very pleasantly
at the mine but has suffered a
good deal.

account of the war - who has not? The
answer is all except the rascally contractors
and who have cheated the Government and
oppressed the soldiers. Their suffering is
of yet to come.

We had a very pleasant visit
from Professor Hoopord who staid
with us about a week while he
was engaged in the good work of intro-
ducing his book into the use of the army.

The city is somewhat excited this morning
by the arrest and confinement of our
late minister to France. I fear the
arrest will produce an unfortunate
state of feeling in Maryland or rather
anymore that which now exists. I presume
however that Gen. Scott has good reason for
ordering the act. I shall close this letter
after I have obtained the information relative
to Capt Rogers. I learn that Capt R.
has gone to take charge of the Marine
operations on the Mississippi. With kind regards
to Mrs G. I remain very truly yours
Joseph Hurry

Washington May 22^d 1862

My Dear Dr

~~we have had little work~~
The house had little work
for a long time past. I think
however that the world is moving
smoothly with you & my excellent
friend Mrs. Gray. Our household are
in good condition but would have been
bitten had we been favoured with a visit
from Mrs. G and yourself.

All the affairs of the Institution
are now in a quiet condition although
a few dark clouds appeared in our house
I go during the winter.

The Museum is now in good condition
and is a source of great attraction to the
immense number of visitors who flock to
the national capital. I am just now

considerably interested in the subject
of archaeology and have issued circulars

for the collection of Indian implements
with the collections of the exploring
expedition. Through the national system

others we have received from Denmark,
and those presented to the Legislature,
we have now quite an interesting
series to illustrate the several stages

in the progress of elementary arts.

From the appearance of the war
we may entertain hope that it will
be speedily brought to a close. The

difficult question with them remain
us to what is to be done in regard to

the negro. I am warmly in favour of
colonization - of trying the experiment
on a grand scale - of founding and

supporting, for years to come an empire
in Africa which will be so attractive

to the negro that under the repulsive
influence of caste in this country he will

be voluntarily impelled in that direction.

With kind regards to Mrs Gray

I am as every truly your

Friend
Joseph Henry

Dr. A. Gray

Smithsonian Institution

May 22nd 1862

My Dear Dr

I send you a note and
a specimen from one of our corres-
pondents with the request that you
will furnish him with some re-
marks relative to the subject.

What do you say as to going
on with the Report on Forest Trees?
Congress has just established an
Agricultural Department - which
might perhaps be inclined to assist
in defraying the expenses of the work.

I remain as ever truly

Yours &c

Joseph Henry

Dr. A. Gray
Cambridge

commit to paper. ~~cannot~~
we must somehow ^{conduct} during
the summer?

With kind regards to dear
Gray I remain truly your
Friend & servant.
Joseph Henry

Dr. A. Gray.

Smithsonian Institution

April 15th 1863

My Dear Dr.

I am glad to learn by your letter
of the 10th that Dr. Serry is on the Sunday
bound. He left Washington in a public
conductor and I presume has been
kept under by the bad weather of the
backward spring. I trust however
he will arrive on the evening of
warm weather and hope he may
long be shared to his family and
friends. We can scarcely like to see
his like again.

I send you with this note a copy
of the law of Congress establishing the
National Academy, but can give you
no information as to the plan of or-
ganization which will be proposed.
I have made no inquiries in re-
gard to it and have received no
definite information.

The subject of an academy was
discussed about a month before

The ~~action~~ of Congress by Davis
Becke and myself, when we
came to the conclusion that
it would be impossible to obtain
the passage of a law authorizing
such an institution; and that
if established it would give
rise to so much bad feeling
that it would be production of little
good. Instead of an academy
it was concluded to ask the
appointment by the navy
Department of a permanent
commission to which all
questions of a scientific char-
acter presented to the navy
Department should be referred.

This commission was appointed
and has been in active operation
for nearly two months. It has

occupied nearly all my time,
not devoted to the Institution
and more than I could well
shame. It has done good service
and can scarcely be improved
upon by the acts of the academy.

I shall attend the meeting
of the academy and do what
I can to give it a proper direction.
I put but little faith in applica-
tions of Congress. On the first ap-
plication for an appropriation
the friends of those who have been
left out will make war upon
the establishment.

I shall be much disappointed
in not meeting you in New York
since I have a number of subjects
on which I wish to confer with
you and which I cannot well

P.S. Catherine will write to Mrs Gray as soon as she writes
comes home. She is now occupied in her first attempt at bookbinding

Do not fail to send her one
either by the express line or by
some other trustworthy convey-
ance. You must not forget
that you owe us several long
visits and that we shall not
be satisfied until you have
paid us to the last item.

We had a delightful visit
to Cambridge, pleasant and
profitable at the time it was
enjoyed, and will be gratifying
and improving in the recollection.

Did you see Professor Lowell
in regard to the lectures? Shall
I write him an official letter
on the subject?

With kind regards to our much
esteemed friend Mrs. Gray I

Remain as ever
your friend

Dr. J. Gray
Joseph Henry

Smithsonian Instⁿ

Nov 7th 1863

My Dear Dr.

I have put off from day
to day to inform you of the safe
arrival of Caroline and myself
in Washington. After lingering
a few days on the way, in order
to give Jack frost an opportunity
of driving off the malaria, we reached
home just three weeks ago today
and found all things at the
Institution in the usual con-
dition, and the city, though crowd-
ed with people, apparently in
a healthy state.

Mrs. Henry and our other daughters
have not yet got back, but we expect
to see them this evening. The air

of Trilbesturne was found
so agreeable to Helen that
they concluded to remain until
the prospect of cold weather
should drive them home.
They are now in Phil.^{ia} and
report that Helen is much
better, but since the departure
of William so unexpectedly, I
feel that all our holds on
life are by a very feeble grasp.

We have just had a very pleas-
ant visit from Dr. Loring. He came
on Tuesday night and left yester-
day morning. He is apparently
quite well and much occupied
as chairman of the committee
^{on} with the subject of the prevention
of counterfeiting the currency.

I shall be obliged to see
that he gets the full pay for
his expenses. He should include
the extra wear and tear of clothes
as well as hotel cost of board
&c, but he is too modest to take
proper care of himself. The Govern-
ment can well afford to hold
him entirely free of loss while he
is doing that which may save
hundreds of thousands of dollars.

Washington is overflowing with
people and a hanging up place
can scarcely be obtained for money
to say nothing of love. We have
however a small nook in which
we hope to put Mrs. Gray and
from which, and a warm atmosphere,
she may look out on the bayward
around without fear of molestation or of
[cold].

Southampton Mass

Dec. 9th 1864

My Dear Dr.

The decision of Mrs. Gray has given our household much pleasure; whoever may be with us at the time of the inauguration she will have the best accommodation we can offer. Do not let her change her mind in regard to this matter; for we shall anticipate her visit with much interest, and would be sadly disappointed were our expectations not realized.

I am glad to learn that you still approve of your first suggestion, as to the method of finishing the report on forest trees. I am very anxious that it should be completed as

soon as possible, and in order
to proceed with it, as rapidly
as it can be properly advanced,
I would defer the completion
of other works now in progress.

I am making arrangements
for the accommodation of my
share of the members of the
National Academy at the next
meeting, and wish to know,
as early as may be, whether
we are to have the pleasure of
your company.

I remain very truly
your friend

Dr. A. Gray Joseph Henry

I am obliged to keep a sharp
eye on the Smithsonian expenditure
unless we curtail some of our
operations we shall go behind
hand during the present year -

Give my warmest regards to Mrs
Gray and urge her to come on as
soon as she can - she will be
the pet of all our family and
be allowed to be as naughty or
as good as she pleases. I have
purchased a white horse which ^{though} not
very much in the way of display
is very well in that of going ahead.
With this Mrs. G. shall have a
ride as often as she may think
fit to take one.

Helen is slowly improving ^{though}
she is still far from being strong
Truly your friend

Dr A. Gray

Joseph Henry

Smithsonian Inst ^{ms}
July 26th 1864

My Dear Sir

Accompanying this
note I send you an epistle
which has remained in my
portfolios for a long time.

Although the news which
it contains may like that
of the poet be much older
than your age; still I
trust you will accept it
as an evidence of the fact
that I had not entirely forgotten
Mrs. Gray and yourself ^{what}
even my long silence to the
contrary may have appeared
[to indicate

We had a call a few days ago from Governor Washburn who informed us that Mrs Gray had been quite unwell but was better. We requested him to urge you to bring her on to the south as soon as her health would permit her to travel.

The weather in Washington is generally in the spring quite pleasant and I doubt not that she will find a residence with us until the season has been fully established very beneficial.

Since the date of the accompanying epistle Dr

Looney and myself have had a very agreeable reunion in Philadelphia as commissioners to attend the annual assay of the U.S. mint. The Dr was accompanied by Herbert who also appeared to have a good time Mrs. Henry accompanied me and we took advantage of the opportunity to visit Anneton.

I have nothing new beyond what you have seen in the news papers. We are still under a dark cloud and many of the more reflecting members of Congress are very anxious as to our financial affairs

and how he may yet be
induced to change his mind.
Do not fail when you come
on to put a few lectures into
your trunk;—those on the
large trees of California and
other giants of the forest would
be very acceptable.

Mrs. Henry and all our family
are delighted with the prospect
of having a good long visit from
Mrs. Gray. I need not say that
we shall endeavour to make
her as comfortable as possible
and I doubt not that she will
improve under the more mild
climate of Washington in the
early spring.

Carol Turvey has just this
minute left our house for

Smithsonian Section
Lucy 22nd 1864

My Dear Dr

Since the receipt of your
interesting communication of the 12th
of Dec. I have been so pressed with
business that I have not been able
to keep up with my correspondence.
Besides the current business of the
Institution I have been one
of a Commission which has made
upwards of 170 Reports to the
Government and have con-
ducted an extensive series of
experiments on the subject of oils.

The meeting of the Academy went
off, on the whole, quite smoothly.
The reports of the committees on
subjects pertaining to operations
of the United States exhibited a

considerable amount of
valuable labours of the
kind much wanted by the
Government. A number
of papers of minor importance
was presented, but nothing
of special novelty. Most
of the time of the session was
expended in discussing the
articles of the Constitution and
By-Laws and receiving the
Reports of the committees.

The meetings were held in
the Capitol in a room, the
use of which was granted by
the Vice President.

If the members will all
attend and resolve to do

all in their power to support
the establishment on just
and unselfish principles the
academy will do much good
both in the way of advancing
science and assisting the
Government.

Professor Agassiz gave a
course of three lectures at
the Institution on the subject
of the glaciers and has gone
to the West to give a course
of about 20 lectures at different
cities. He left this city in
much better spirits than when
he came.

I was much disappointed
with the decision of the Lowell

Smithsonian Instⁿ

Dec 22^d 1864.

My Dear Dr.

We shall be very
glad to see Mrs Gray and
yourself at the time mentioned
in your note of the 12th instⁿ
and to receive from you the
lectures suggested.

The time of the meeting
of the National Academy is
drawing nigh, but from present
appearances the number in atten-
dance will be small. The
pressure of the times is so
hard on salary men that
they can ill afford the ex-
pense of a journey to Washington.
Mrs Henry and Caroline
have for nearly two weeks

Just been almost constantly
from home in attendance on
a fair for the benefit of the
orphan asylum of this city.
Helena has not been able to
take an active part in the
management of the fair, but
has been a liberal contribu-
tor with her needle and
drawing pencil.

Mary is still in Phil^a
improving herself in the art
of sculpture: we hope to see
her at home on Tuesday next.

Tell Mrs Gray that we
are the owner of an old white
house which Mrs. Henry con-
sidered a model animal, and
is much on account of his
physical as his moral qualities.
He is returned in accordance

with the time honored maxim
"handsome is that handsome"
With this animal and an
old, but safe carriage, Mrs. Gray
can visit Under ^{Abbey} ~~Abbey~~
and all the other lions of this
city. We expect some other fine
on the ^{occasion} ~~occasion~~ of the inauguration
and will forward to a good
time.

We are having a town of
cold weather. The thermometer
has been falling all day and
is now down to 25° which
with a high wind from
the N.W. gives blue noses in
this latitude. The minimum
of temperature will reach you
in Cambridge probably some
hours later.

I am as ever
truly your friend
Prof. A. Gray.
Joseph Hunt

Does not appear possible
that we can much longer
stand the expenditure of upwards
of two millions of dollars daily. If
we could bring the war to
a close within the next six
months we might then be
able to weather the storm but
if the strike continues longer than
this the result as to our finances
will I fear be very disastrous.

I am very glad to learn that
there is a prospect of a desirable
disposition of your collection of
plants. The present is a favorable
time for raising money but you
must have a care as to the

manure in which it is invested.

Please inform Mrs Gray that
Caroline will give her a long
letter in the course of a day or
two. Since our return from
the north the young lady
has been so much occupied
with various engagements
that she has but off from
day to day her letter to Mrs Gray
and on this account I know
has had many twinges of conscience.

I have much to say
which I cannot write and
which I shall reserve for
your ear when you come
on.

With kind regards to Mrs Gray I
remain as ever truly your
Your friend
Joseph Hewey

Dr A. Gray
Cambridge
Mass.

I did intend to start for
New York this morning but
the authorities of the city have
recommended a general illu-
mination and I have thought
it best to remain to superintend
that of our end of the Smithsonian
building.

We are all highly rejoiced
with the surrender of Lee and
the prospect of a speedy and
favourable termination of the
war.

We are making preparation to
commence the repair of the towers
of the Smithsonian building. The rooms
in them are most called for on
account of the want of office accom-
modation.

Give my kind regards to Mrs G.
and to Margaret Torrey if she is still
with you. I remain as ever truly
yours
Dr. A. Gray

Josiah Howard

Smithsonian Institution
April 13th 1863

My Dear Dr

Accompanying this note
we send you a letter for
Mr Wright which we hope will
answer his purpose. We shall
be much gratified to learn
that Mrs Gray has returned
improved in physical condition
by her southern excursion. I say
in physical condition because
she needs no improvement in
her mental and moral character.

We were much disappointed
in the shortness of her visit. We
supposed when she came on
that it was settled she was to
remain with us until the spring
weather had been entirely established.

at Cambridge and under this impression we did not make as much exertion to take her out as we would have done had we been assured of her early departure.

I have just called on the Mr. Calhoun the new Secretary of the Treasury in behalf of Dr. Torrey and I found him as I thought I should very favourably inclined to give the Dr. any indulgence in his power. He said he would not hesitate to give the Dr. any permission of absence he might require but that he wished to do more - to give him some mission on the part of the Government which

would entitle him to payment of expenses. I suggested a visit to California to which the Secretary replied that he had sent an agent to that region but if there was any information remaining which might be of value to the Government he would send the Dr.

I start for New-York tomorrow morning to be absent from Washington about a week. I shall confer with Dr. Barnard and Mr. Dunning as to the Dr's mission and see the Secretary on the subject when I return.

I have found it impossible to go on to Boston this spring and have made arrangements by which the business on which I was to go will be conducted by another

has all the money derived
from the original bequest
untouched in the treasury
of the U.S. — seventy five thousand
dollars in Indiana bonds
and thirty thousand in the
hands of the Treasurer. Besides
these items the bonds of Virginia
and Tennessee owned by the
Institution are quoted at
about half their par value.

I believe that I mentioned
to you when in Cambridge that
there are 25 thousand dollars
of the estate of Smithson still
in England which was left by
Mr. Rush as the principal of an

annuity granted to the mother
of the nephew of Smithson. She ^{the annuitant}
died about three years ago and a
power of attorney was sent last
year to collect the money. The
minor officers of the crown however
are throwing all possible difficul-
ties in the way of procuring the
money and I fear a greater
part of the sum will ^{be} absorbed
in litigation. The whole estate
was granted without hesitation
to Mr. Rush and it does not
appear well in the present
state of feeling between the
two countries to throw any
obstacles in this late day

in the way of supporting the
remainder to be brought
over. I intend to consult
Lord Lyons on the subject
and endeavour to induce
him to use his influence
in the adjustment of the
difficulty.

From the statement I have
given you it appears that
our financial affairs are
still in a favourable con-
dition and this would really
be the case could we depend
with certainty on the future
of the public credit but it

New York after giving us a visit of
about two weeks she came on with
her father and has I think had a
pleasant time. She has kept us con-
tinually in a laughing condition.
Though very eccentric she has a
kind and generous heart with
much good sense.

Dr. Loring will visit this city again
in the course of a few weeks. He is
chairman of the committee on pro-
hibiting the counterfeiting of the currency &
has given much time and thought
to the subject.

The first meeting of the Board
of Regents of the Institution for the
session of 1864 was held yesterday
at which I gave a general account
of the condition of the funds.

The Institution is free of debt.

was present and expressed
his approbation of the sentiments
I had advanced. He is
coming to Washington and
will visit the Smithsonian.

I am informed that Mr
Peabody is to visit this city
in the course of the autumn
or winter and as I am
to open his Institute in
Baltimore, I shall have an
excuse for calling on him and
shall not fail to speak on
the subject of your letter, I
can do this with the more
freedom since I have no pet

S I Oct 31st 1866

My dear Dr

I am glad to learn from
your letter of the 27th received
by the mail of yesterday that
Mrs. Gray has recovered, and
I hope she will continue in good
condition during the winter, and
be prepared to take advantage
of the mild climate of Washington
to help her through the severe
weather of the spring.

I am also much pleased
to learn that Professor A. and
yourself have again come
together. I am sure he is a
happier man on this account

and that you are now
the less comfortable. I hope
in future he may be guided
by a little more of your
wisdom and a little less
by that which has of late
years ~~been~~ ^{directed him} ~~directed~~

I dined with Mr Peabody
last Thursday on the occasion
of the opening of his Institution
in Baltimore. The dinner
was a private one given
by the Trustees to Mr Peabody.
I had little opportunity
to talk with him, but

embraced the opportunity
to say that I had lately visited
you and had been highly
gratified with what he
had done for Cambridge in
the line of ethnology. For this
he appeared much
pleased. I also took ad-
vantage of the occasion
of being called on for a
speech to say how much
good could be done by
assisting men of discernment
in their investigations.

His Nephew, Professor Marsh,

and is as usual hard
at work. His wife
is at a private hospital
in New York awaiting the
proper time for an operation.

She has been a great suf-
ferer, and he a most
attentive and affectionate
husband.

Give my kind regards
to Mrs. Gray and the two
young ladies and remain
for yourself the assurance
that I am as ever truly your

A. Gray
Friend
Joseph Henry

project of endowment to
which I wish to direct
his attention. I cannot say
what will be the result.
While he is a man of noble
purpose, and desires to do
good, I think he would
all things being equal, pre-
fer to perform those acts
which will give the most
renewal. In what way could
public acknowledgments
be ^{best} made to him in the case
under consideration?

I am alone in the east
wing of the Smithsonian

busily engaged every
moment I can spare
from my duties in the
Institution preparing my
notes for my lectures in
Baltimore. I very reluctantly
consented to deliver them,
but I found that I could
not get off. I hope I shall
be of some service in
giving the magnificent
endowment of the Peabody
a proper direction. It now
amounts to one million of

dollars and ought not only
to be a blessing to the city of Bal-
timore but also to the whole
country.

Mrs. Henry, Helen, and
Caroline are in Philadelphia
Mary is in New York. I ex-
pect them home the latter
part of the present week.

We had a very rough
time on the road the night
we left Boston; but arrived
in good time and in good
condition in New York next
morning.

Professor Daniel has returned

As before these lectures were
given I had next to prepare
for the meetings of the Board
of Regents while I had on hand
a large amount of work relating
to the examination of the methods
to be employed in the inspection
of schools for the collection of the revenue.
We have almost entirely a
new Board of Regents who at
the commencement of the session,
were not well informed as
to the character and value of the
operations of the Institution and
were somewhat inclined to changes. I
had therefore some anxiety as to the course matters
might take but fortunately all things have

Washington March 8th 1867
My Dear Sir
I am sorry to inform you that
I was absent in attendance on the
meeting of the mint in Philadelphia
when Mr Peabody visited this
city. I regret this because I lost
the opportunity to speak with
him in regard to the affair in
and which you are interested as well
as other matters. I have however
to have an opportunity to confer
with him before he leaves the
country through the agency of his
nephew Professor March who is
very favourably impressed with
my views as to the conducting of the
Peabody Institute of Baltimore

Commodore John Rogers, as you probably know, has now changed to the Boston Navy yard and I would suggest that he is fully worthy both in regard to patriotism and soundness of mind election as a member of the American Academy. I am sure he would take much interest in the meetings and be induced to take part in the discussions of the questions brought before the Academy. He is a man of much reflection and has collected a large store of observation in various parts of the world.

His wife was Miss Ann Dodge, and old and valued friend of our family whom Mrs. Gray and yourself would find an intelligent and interesting acquaintance.

I have had a very busy time since my visit to you last autumn. On my return to Washington I found it impossible to get off from giving the Spring course of lectures at the Peabody Institute and I was obliged to prepare four lectures, which for want of practice, for twenty years, cost me no small amount of labor.

be surprised when he comes
to reflect on the facts of his ap-
pointment. He had no idea
of such a result when he came
on. Had he not taken it, the
survey would have gone into the
hands of a gentleman of administra-
tive ability, but of no pretensions
to science, and would have taken
the first step towards the overthrow
of partisan politics which has
already swallowed the Patent Office,
the mine, and the agricultural
departments.

When are we to expect Mrs.
Gray? The weather in Cambridge
at this time must be very trying
while that of Washington is just
beginning to be very pleasant.

With kind regards to Mrs. Gray
I remain as ever your friend
Dr. A. Gray Joseph Henry

you as I wished, and the lecture
to day is in a more prosperous con-
dition than it ever was before.
Congress has authorized us to in-
crease our capital by savings
or otherwise, until it amounts
to one million of dollars and the
Board of Regents had directed
me to sell stock and Treasury
notes of which we have possession
and thereby increase our capital
at once to 650,000 dollars. After
doing this we shall still have
on hand enough to reconstruct
the building without impeding our operations.
You have been very fortunate
in all our money operations and
have made rather more than
double the increase than

announced our friends notwithstanding
the great outlay on account of the
Building.

The transfer of the library
has also been a fortunate opera-
tion since it has not only relieved
us of an expense of several
thousand dollars annually,
but has awakened a spirit
of pride in the library of Congress
which will serve to make it
a collection of books worthy
the Capitol of the Nation:
one hundred thousand dollars
have been appropriated to
purchase the library of Sen.
Jones and already the
proposition has been suggested

to erect a separate building
for the exclusive use of the library.
The transfer of our library has therefore
not only relieved us of the burden of
the friends of Mr. Sewell, as to the
violation of the law of Congress
it has also served to bring about
what I have always contended
for the establishment and
support of a large library by
the general government.

In time a similar result
will be produced in regard
to the museum.

You were probably much
surprised to learn that Pierce
had been appointed superinten-
dent of the coast survey and
I think that Pierce himself will

This addition to the Congress library will require an additional assistant Librarian who will be appointed on the recommendation of the Institution with special reference to the care of the Smithsonian books. Although if all things were equal I would prefer to retain our library within our own building yet in the actual condition of affairs I think the transfer will be beneficial not only to the Institution but also to the public.

The mere covering of the building and the restoration of the towers will cost at least 100,000 Dollars and still leave the wings and connecting ranges in a combustible condition. In the present state of the finances of the country I see no prospect of an appropriation from Congress and unless we can get rid of a part of our burden a large portion of our income must be absorbed in brick and mortar and the full realization of the plan for which I have so long labored be abandoned.

Smithsonian Institution

July 28th 1866 -

My dear Dr

I need scarcely say that I am well pleased with what you have done in regard to the plants which have been intrusted to your care, and that we shall be ready to pay any expenses which may have been incurred as soon as the accounts are rendered.

I would be glad if you could find time to give me for my annual Report an additional statement of what you have previously done relative to the same plants in order that I may present to the Regents a connected history of the whole matter. I am giving my Report at the several meetings of the Board, in parts, and if you can favour me with the required statement within the course of two or three weeks it will be in time.

I am at present in frequent communication with the members of the Committee of the Library

of Congress and shall not fail to procure
what information I can obtain, in rela-
tion to the points mentioned in your letter.

We are discussing with a committee of the
Library of Congress the proposition of the transfer
of the care of the library of the Institution to
the superintendant of the Congressional library.

At the last session an appropriation was made
of 180,000 dollars to enlarge the space of the
Library of Congress and the accommodation thus
provided is sufficient for all our books
and the annual increase of both libraries
during the next fifteen years.

The object of the transfer on the part
of the Institution is to relieve the Smithsonian
fund of the expense of a librarianship of binding
and cataloging the books, and above all, of the
cost of a new apartment for the rapidly increas-
ing number of volumes. The wing and connecting

range in which the books are now deposited
are not fire proof, and are therefore not only
unsafe, but cannot be heated in winter. Besides
this the shelves are filled to overflowing and
we shall require a larger, as well as a more
safe place of deposit for our valuable collection.
The conditions on which the deposit will be made
in the library of Congress are in effect as follows.

- 1 ^{The books} They are to be placed by themselves in the
new part of the library.
- 2 The Institution is to have the same use of them
that it now has.
- 3 The library of Congress to be open the whole year
round to the Institution and the public for reference.
- 4 The Institution to have the same use of the
books of the library of Congress as the members of Congress
have.
- 5 The books of the Institution to be bound by the
public binder.
- 6 If the Institution should at any time desire
to withdraw its books it can do so on paying to the
Government the cost of binding.

science as connected with our
present obligations, and have
suggested that if the Government
is to be benefitted by the operations
of the Academy it must make
provision for the annual meeting
of the body and the more frequent
assembling of its Committees in Washington.
I have said very little in regard
to the publication of the memoirs, since
the 1st volume contains but five
papers ^{contained} ~~occupies~~ in 342 pages, though
the number was unlimited by law.

I very reluctantly accepted the
Office of President and I was princi-
pally induced to do so at the earnest
solicitation of Mrs. Bachman, who since
her husband was the first President,
and because his fortune after

Smithsonian Instⁿ

July 8th 1868

My Dear Sir:

The first intimation
that I had of your going abroad
was from Whitney who informed me
that he had hired your house
for a year. I immediately com-
menced a letter, but was interrupted
before I had time to finish it.

We were very sorry that Mrs Gray
could not come to us and most
sincerely hope that her residence
abroad will be beneficial. I think
you have adopted the wisest course
in this as you have in all previous
epochs of your life.

I am very anxious to have a long conversation with you and will endeavour to so arrange my affairs so as to meet you either in New York or Cambridge: from which of these two ports do you sail?

I am a little surprised that you ask me what you shall do with the eulogy on Bache since I thought you had given it to Dr Gould. You will please however return it to me since it will save the labour of a copyist. Sabine has adopted it as the account of the life of Bache in his annual address ascribing the authorship to myself. He has also sent me a copy of the 1st volume of the great scientific

index which I think will be of great importance to American savants in giving a conspicuous ^{reference} place to their contributions: for example no less than six volumes are devoted to Bache's ^{contributions} and several papers are enumerated of which I had lost sight. This volume includes the first three letters of the alphabet. The origin of the work, in the preface is very liberally ascribed to a suggestion of my own in a lecture addressed to the British Association.

I have just presented to Congress the report of the National Academy for last year, and have embraced the occasion in this to give some views in regard to the importance of abstract

her death will be under the care
of the Academy, is exceedingly anxious
that it should be perpetuated.

I introduced a resolution at
the last meeting to abolish the
itinerary character of the Academy
and to have an annual session
in Washington in the month of
May. I mentioned the fact in my
report that I had no part in the
organization of the Academy but since
Congress was seen fit to establish
an institution of this kind I thought
it my duty to give it all the aid
and direction in my power. Thus
for all the assistance it has
afforded Government has been

through the labor of a few persons principally connected with the Government, residing in Washington and New-York and unless Congress makes provision for the meetings of members from a distance, it will receive no more benefit from the Academy than what it could have obtained from a few members usually appointed. I am somewhat delicately situated in regard to the Academy. I honestly desire to render it of use in way of advancing the science and reputation of our country, and am far from desiring that it should expire in my arms, but how to preserve its

life and to render it useful is a different problem, and on this point I desire some confidential consultation with you, whom I have always found a wise and just man. The affairs of the Institution are now in a very prosperous condition: The new Regents are all well disposed: even Wade takes an active interest in our affairs and fully appreciates the spirit of the establishment.

With kind regards to Mrs Gray, I remain very truly
your friend
Joseph Henry
Dr A. Gray
Cambridge Mass

report which is still in the
hands of the binder, I regret
that I am not able to get you
a copy but send herewith a
portion of the proof from which
the extract might be made
With kind regards to Mrs Gray
As ever, your friend
Joseph Henry

Prof. Asa Gray
Cambridge

Smithsonian Institution

October 5, 1867

My Dear Sir,

Since I left Cambridge
I have been continuously employed
from early morning till late at
night. I spent three days in
New York in actually directing the
operations of a distillery in one of
our most wisomest portions of the
city; there hastened here where
I found all the contractors regret
for money and a pile of correspon-
dence on my table which with
incessant labor I have not yet
been able to fully dispose of. The
Revenue Department on the one hand
was regret for a report of the invest-
igations on Spirit Meters and on the

to the Light House Board asking
for an account of my late inves-
tigations on oil. These Reports I
have finished and submitted
and am now considering a pro-
gramme of experiments on Fog
Signals which are to take place
as soon as the weather clears up

I have begun the Eulogy on
Baker but cannot finish it at
present for I begin to find that
I shall break down for owing to
excitement of mind and annoy-
ances caused by mosquitoes and
flies I have not slept more
than four hours a night during
the past two weeks. I have
concluded to start the examination

Philadelphia, to set out there
over Sunday and then to go
on to New York where I shall
meet my wife on Monday
I regret very much that I
am unable to fulfil my
promise but I feel that I
have taxed my powers to the
utmost during the last two
weeks.

We shall not want any
copies of Bentham's Address
as we have received a large
number for distribution from
London, but in its republica-
tion in Simmons's Journal I
think it would be well to make
a few extracts from my last

1
Smithsonian Institution

December 10th 1869.

My dear Sir:

I am much gratified to learn that you have returned in safety, and I hope that Mrs. Gray and yourself have been physically and mentally much improved by your extended tour in the old world. It would give Mrs. Henry, and myself much pleasure to have a visit from Mrs. Gray and yourself; we would take great interest in going over with her the incidents of your travels and she will find Washington a much more genial climate than that of Cambridge at this season of the year.

I wish to confer with you on various

points in regard to the present and future of the Institution; and this I would do more freely and fully in conversation, than in writing. You will see by the report for 1868, of which I send you a copy, that all our affairs are still in a prosperous condition. Our financial matters are so arranged that our capital, with the exception of the Virginia stock, is now so invested that hereafter nothing, but the interest can be expended. Just at this time however we may suffer some diminution of our income on account of the fall in the price of gold without a corresponding reduction in the rate of printing and other operations.

I think also from the report you will be led to infer that there has been no diminution in the activity of the Institution since you left the country, and that it is still fulfilling its mission in the way of increasing and diffusing knowledge. I have not however during the present year enjoyed my usual state of health. I was last summer seized with a diarrhoea resulting perhaps from over-work and the malarial influence from proximity to the Washington canal, and on getting rid of this I was attacked with a cough which assumed the form of a chronic bronchitis.

After, however, a short visit to Savannah Georgia, I have returned much improved and am again on the mending hand.

In view of my own health and the changes to which all things are subjected I have been especially anxious to complete as soon as possible the enterprises of the ~~institution~~ in which we have embarked; and for this purpose have employed a number of persons to work up the meteorological data we have collected during the past twenty years. We have just finished a very interesting discussion of the rain-fall of the different regions of the United States which is now in press.

It will be illustrated by charts and woodcuts, and will form one of the most important additions to the meteorology of this continent which has yet appeared. We are now occupied with the temperature and winds and are about commencing a new epoch in our connection with the medical Department of the Army as to all the elements of meteorology of this country.

I need scarcely say in this connection that I am also desirous to have the reports on forest trees finished as early as possible and in regard to this I would submit for your consideration a suggestion which has occurred to me. You will see by the reports for

1868 that we have turned over to the
 Commission of Agriculture, Genl. Capron,
 the herbarium of the Instⁿ, subject to certain
 conditions, and the idea was also presented
 itself, that the reports on forest trees ^{might}
 also ^{be} transferred to him. He will be
 able from his ample appropriation
 to advance all the money that might
 be required to defray the expense of
 assistants, and to remunerate the Instⁿ
 for the advances it has already made.
 I have spoken on the subject to Genl.
 Capron with whom I am on excellent
 terms and he has manifested a ready
 acquiescence in the proposition. I would

much prefer that the original plan
 should be carried out, but in view of
 the speedy completion of the work and
 the better remuneration of those who may
 be engaged on it I am willing to adopt
 the course suggested. The statistics of
 the lumber of the United States and
 perhaps of Canada, should be obtained
 and arrangements made for procuring
 specimens suitable to test the relative
 strength of wood of different kinds and
 from different localities.

I was informed last year while
 on a visit to Williamsport Pa. that at
 the rate at which pine trees are now
 being cut off, the whole supply will be

exhausted in the course of ten or fifteen years. Much attention has of late been directed to the rearing of forest trees of more rapid growth, and I am sure that a full report on this subject would be an exceedingly acceptable gift to the productive economy as well as to the science of the country.

I am as ever

truly your friend

Joseph Henry

Dr. Asa Gray
Cambridge

P.S. Your kind letter of the 10th has come to hand since this letter was written

J. H.

Smithsonian Institution
March 22nd 1870

My dear Professor

General Capron has referred your letter of the 19th Feb'y to me, and I am pleased to learn from it that you are disposed to push on the arrangements for finishing the Report on Forest Trees.

I have been informed that Dr Engelmann, though a good botanist, is too much occupied with professional business to be able to give much attention to the investigations required for the report. I learn however that he has completed the study of some classes of Forest trees, and what he has done may perhaps be obtained for the work, while his services in preparing other parts might be secured. It appears to me that if you could get some young man of the proper character, who would work under your direction the desired results would be the soonest and best attained, but on this point, as on many others, I defer to your judgement.

I think the work could be made to pay the cost of its production if judiciously put on sale.

I hope you will find time to give this matter the necessary thought as well as to favor us with a visit. The weather for a few days past has been delightful, and we shall in all probability, from this time forth, have such air as Mrs Gray would be benefitted in breathing.

The National Academy meets in this city on the 12th of next month. I have re-

-newed the motion, which was lost two years ago, to have but one session a year, and that in Washington. The propriety of this was evinced at the last meeting in Northampton, where not more than one fourth of the members were present. The legacy of Dr Bachs, amounting in all to about 50,000 dollars, will tend to preserve the existence of the Academy and enable it to accomplish something for science.

You have probably learned that two societies have been organized in opposition to the National Academy; one in New York under the name of the National Institute, and the other in Washington with the title of the American Union Academy of Arts, Literature and Sciences. The first was incorporated by the State legislature at Albany, two years ago; but as yet has done nothing more than the making up of a programme of what is intended to be done. I was elected as the president of one of the Academies of which the Institute is composed; but gave no other attention to the matter than that of offering the advice that from the many men of princely fortunes in New-York, a fund of one million dollars should be obtained for scientific research, accompanying this advice with the statement that, without such a motive power, nothing of importance could be accomplished.

The other establishment was lately been organized in Washington. It is composed of the judges of the various courts, lawyers, and other persons not necessarily connected with science. Dr Draper of New-York is the President,

and a part of its programme is the uniting of all the scientific and literary societies of the country under it as the great head. Will the American Academy of Arts and Sciences, or the American Philosophical Society, consent to such an arrangement? It has been surmised that this organization has an eye to the Smithsonian funds, after, if not before, I take my departure. Be this as it may, I fear it will be made a political engine, like the old National Institute, for the advancing of private interests. I was much surprised that Draper consented to accept the Presidency; he was however unjustly left out of the list of the members of the National Academy.

We are much in want of a local society for uniting all the men of science in this city in one organization, and this may perhaps be done through the National Academy, although the manner of accomplishing the project is not quite clear to my mind.

The Board of Regents, at their last meeting adopted a resolution, ^{delegating} that I be requested to take a vacation of six months to visit Europe, for the benefit of my health and the advantage of the Institution, and that two thousand dollars be appropriated to defray ~~that~~ expense. I have not yet definitely concluded to accept this liberal offer, as there are some matters, at present, connected with the Institution, which require my especial attention. I should not think of it, were it not that my daughter Mary, who has been confined to her room for two months, may be benefitted by the voyage.

I am at present very anxious as to the future of the Institution. Though the funds

at present are in a very favorable condition, I fear that the income from them will in time be entirely absorbed in local objects; or fall under a political influence. To prevent the latter event, nothing should be asked from Congress, while on the other hand the keeping of the museum and the expenditures on the building are constantly absorbing more and more of our means. Congress allows us four thousand dollars, (\$4,000), ~~annually~~ for keeping the museum, while the actual cost last year was fifteen thousand, besides the interest on one hundred thousand, the cost of the reconstruction of that part of the building devoted to the museum; the whole expenditure on the edifice, since the fire, has been one hundred and forty four thousand dollars, and before the whole is finished and rendered fire proof, at least seventy five thousand dollars more will be required.

The proper plan is to induce Congress to make a liberal appropriation for a museum worthy of the Nation, and leave the Smithsonian fund to be expended in the more direct method of advancing science. The Regents of the Institution might take charge of such an establishment, and give the present building for the purpose, with the exception of one of the wings which would be abundantly sufficient for the transaction of the Smithsonian business.

With kind regards to Mrs Gray I remain
as ever

Yours truly

Joseph Henry

Dr. A. Gray
Cambridge Mass.

its next session in April, com-
mencing on the 12th. I shall
make a move towards bringing
about the plan you suggest
Pierce is in favour of some
thing of the same kind. It will
however be opposed by Gibbs
and Gould who have thus far
considered themselves the essen-
tial elements of the society.

as ever truly yours

Joseph Drury

Dr. A. Gray

Smithsonian Instⁿ

My Dear Dr. March 28th 1870.

Many thanks for your letter
painted with words of kindness,
and of wisdom. It was received
by the mail of yesterday and I now
embrace the opportunity, while waiting
for my breakfast to answer one part
of it, mainly that which relates to
Mrs. Gray. Let her and your niece
come together. We shall be entirely
alone after Tuesday, and will be
delighted to see them. The weather
is now becoming settled; and
I can from certain meteorological
indications assure them as to a
good time. I am writing this in
a room without fire and am
in a comfortable temperature -
We have a little horse and
a modest carriage with which
the ladies can daily take an airing

The cars between New York and Washington are furnished with separate apartments and do not change during the passages. Congress is now in session and an hour or two spent in the Capitol would serve to amuse if not to instruct. Mrs. Henry would join me in presenting underaments but unfortunately the good lady is still in bed.

I shall not fail to sound the commissioner as to what he can do in regard to the appropriation for the Report. He is well disposed, but somewhat timid; and indeed is obliged to be cautious, since he holds his office by the slight tenure of a political appointment made by President Johnson. If however the work is once taken in hand it will be carried on who ever may have charge of the Department. The national academy holds its

Smithsonian Institution

May 29th 1870.

My Dear Dr.:

After having wound up my affairs as far as possible before starting for Europe I have commenced to devote the last hours of Saturday night to a communication with you. The proposition that I should visit Europe was so unexpected, and my labours so multifarious and incessant during the first half of the year that I have been taxed beyond my strength and have had a slight return of the bronchial affection with which I was afflicted last year. I am however encouraged by the physician to hope that the sea voyage and change of air will act beneficially, and as I do not intend to overdo myself by too many engagements I hope to avoid the dangers to which the traveller is exposed. My daughter Mary, who is also an invalid, accompanies me. The manner in which the announcement of my departure has been received in the city of Washington and ^{by} the public generally has been very gratifying to myself and my family. The President, the Board of Regents, and the State Department, have

without solicitations of mine, furnished me with documents commending me to the special attention of all the Representatives of our Government abroad. The Bremen line of Steamers offered me a free passage both ways for myself; while the Cunard line in connection with the New-York Chamber of Commerce have presented me with free tickets for Mary and myself both ways across the Atlantic.

I think the Institution itself has never been regarded in a more favorable light by Congress than at the present; and I indulge the hope that I shall live to see the day when a liberal appropriation will be made for the support of a museum worthy of the Government without encroaching on the Smithsonian fund. The Institution may continue to take charge of the museum or the latter may be placed entirely under other direction. My special object is to keep the Smithsonian fund entirely free from the control of politics, and in order to do this it is necessary that no appropriation should be asked from Congress for the operations of the Institution, while it may be asked ~~for~~ with propriety for taking care of the National Museum. The actual cost of the museum

last year, without including our own explorations was \$15000. This does not include the interest on \$140,000 which have been expended in the building since the fire, almost entirely on account of ~~the~~ museum, while we received from Congress for keeping the museum but \$4000. On the one hand with so small an appropriation, and without encroaching on the Smithsonian fund a museum worthy of the National Capitol cannot be supported; while on the other if we continually petition Congress for an appropriation for the support of the Smithsonian museum ^{we are} ~~it~~ continually bring the Institution under the influence of Congress and will finally end in the Institution being obliged to furnish places ^{for partisans} as the reward for political service. The transfer of the Library and the Herbarium have produced good results. The Library of Congress is now the first in the country in regard to the size of its collection and is worthy to be called the National Library;—while the Smithsonian fund has been relieved of the ^{support} ~~cost~~ of the plants, Botany has been the gainer by the labors of Dr.

Passy at the seat of Government. Every transfer of this kind while it does not diminish the usefulness of the collections, increases the power of the Institution to do more for the advancement of knowledge, - to distribute more books and specimens, make more researches and by the returns to enlarge, not only the collections in this city but those in all other parts of the country. The Comman is just about to open his new gallery of art and this will obviate the necessity of establishing another of a similar character by the Smithsonian Instⁿ. It will be one of my objects abroad to solicit, through the influence of the Institution specimens of sculpture in ~~particular~~ ^{Marble} for the Comman gallery as well as to ^{turn} ~~hand~~ over to it on my return all the specimens we have accumulated in this line. The more we give away the richer we are, and if Congress makes the appropriation we have asked for of \$25,000. for finishing the large room in the upper story we shall be able to make a very grand display with what remains.

I have dwelt long upon this subject because

I have an idea that you do not fully approve of this part of my policy; and I should regret that after all you have done, with your counsel and your pen, for the Institution, and myself, there should be the slightest shade of difference of opinion between us - I am sure there would be none if we could have a free and full discussion of the subject.

Professor Baird, who at one time, was opposed to these views now professes to be in entire agreement with them. If the museum were to be wholly separated from the Institution I would use, all the influence I ^{may} have, to procure the appointment of Prof. Baird as Director or if a separate appropriation were made for the care of the museum I would give the whole in charge to Professor Baird. This I cannot do while the funds of the Smithsonian are devoted to the museum. You may recollect that we started with the plan of separate departments, ^{and} with different heads; but this produced the Jewett embargo.

and was abolished by the Regents. The whole was then put under the immediate charge of the Secretary with such assistants as he might choose to employ; and a special act was passed forbidding any letters to be written on business connected with the Institution unless under the special direction of the Secretary. After the Swett ~~errata~~ I stated to Professor Baird, that if he would render me all the assistance I might require of him, in carrying out my views of the policy of the Institution I would grant him every facility which the Institution could afford to present any branch of Natural History he might desire to cultivate, but that I could not without being devolved to the duties devolved upon me and regardless of the experience of the past, give him any share of the management of the Institution. To this he fully and unconditionally agreed. The course which I have adopted has given and gives me an amount of labor not surpassed by any one in any public position in the country. Baird is now I think thoroughly imbued with my views and I

trust with the most important fact of all in the management of a public trust that the policy pursued must involve an entire abnegation of all personal considerations as to the interest of the agent.

I regret that I shall not have the opportunity of seeing you before I sail, to talk over the past and speculate on the future. I have a regard for you which from long and friendly intercourse has grown into something stronger than ordinary friendship and it is with feelings of dissatisfaction that I have learned you have changed your physical appearance by cultivating a beard. This which may possibly improve your appearance ^{in the eyes of some} cannot have the same effect in mine. It will for ever, as long as it is worn change to me a face which from long association has become a source of pleasure for me to look upon. I doubt not that Dr Torrey shares this feeling with me though I have not spoken with him on the subject. Indeed the question may be asked whether a man over the age of 45 has a moral right to so change his appearance that his friends cannot recognize him. He surely ought to have the full consent of his wife. What says Mrs Gray to the metamorphosis?

We all regret that Mrs Gray did not give us the long spring visit we all looked for. The weather has been delightful, and I am sure she would have enjoyed herself and added much to our pleasure.

I commenced this letter with the intention of giving you an account of the feeling of the Commission of Agriculture as to the Report on Forest Trees. This has varied with the prospects of the Government appropriation. At the first of the session this was very poor and a spirit of retrenchment prevailed to an immense extent, but this has given way to a more liberal feeling and while the Commissioner concluded a few weeks ago to give up all attempts in the way of doing anything for the report this year he now thinks something may be done at this Congress to secure an appropriation for commencing the work. I wish therefore you would enter into a correspondence with him in regard to the work and give him as definite an estimate as you can furnish as to the time of completion and the annual cost of the Report.

With kind regards to Mrs Gray

I remain as ever truly your friend

Joseph Henry

Dr A Gray

Cambridge Mass.

P.S.

A letter addressed to the care of

William Wesley, 81 Fleet Street, London

will reach me I think.

Professor Baird is still at east
Port or at some other point on
the coast, busily occupied with
his fish assignments.

All the affairs of the Institution
are still in a favorable condition,
largely as the last session as we
voted 15 ~~000~~ thousand dollars
for the care of the museum, and
the same sum for the improvements
of the building.

I am informed by Mr. Pease, who
saw you at the west, that Professor
Lyndall is to be your guest while
he remains in Boston. I intended
to go on to New-York to meet him on
his arrival, but was prevented by
my engagement with Sir Frederic
Arrows. I saw on however Mr. Pease
to assist in the arrangements of his lectures.

Give the love of his many well-wishers
to you in the belief that we shall see
him and yourself soon. Truly
yours
Jas. Smith

Smithsonian Institution

Oct. 10th 1872

My dear Dr Gray.

I enclose a letter from a gentleman
of this city who has devoted a considerable
sum of money to found an annual
prize for an original essay on some medi-
cal subject. If you know the whereabouts
of the person mentioned on the letter please
send it to him; you will find enclosed
the necessary stamps.

I regret that I could not visit you
before I came from the north. I was
prevented doing so by an arrangement
made with Sir Frederic Arrows to meet
him on the coast of Maine, and to ac-
company him along our coast to examine
our light-house system. After showing
him some of our light houses and fog signals
on the coast of Maine I took him through
the sound, in one of our light-house steamers.

to New-York and afterwards sent him
in the same vessel, to Albany. From
the last named place he went through
Lake Champlain to Canada thence
up the lakes to Niagara & Detroit;
after this he went to Chicago and
thence came to Washington by the
way of Pittsburg. He left Washington
yesterday for New-York to sail in
the Russia on the 15th He returns
to England I think well satisfied
with the attention he has received,
and the information he has obtained.

I found him an exceedingly agreeable
gentleman excellently well informed
on Light-House matters and well quali-
fied to properly appreciate our improve-
ments.

I have read your address before
the American Association. It is an
admirable production rich in interesting

facts and satisfactory in an inquiry
theory. It must form an important
point in the general history of Na-
vigation. You must have greatly in-
joyed your visit to the western
coast. What an idea the journey
gives of the extent of the country and
of the magnitude of the work of "instruc-
tion of the Rail-Road"! It is one
of the wonders of the world. In riding
on the lookouts over the Sierra
Nevada. I felt like "assuming
the God affecting to nod and
seemingly to shake the spheres" The
power of man over the obstacles
of nature are here strikingly exhibi-
ted.

My family have not all returned
to Washington. Mrs. Henry and Helen
came home yesterday Mary and Louisa
are in New-York - but expect to return in

of making an annual appropriation for the full support of the National Museum.

At the season which has just closed it was appropriated upwards of \$40,000 for the care of the museum the fitting up the rooms and the beginning of heating arrangements.

Of course you will either bring on Mrs. Gray or come on to escort her home and I shall therefore have an opportunity of having a long conversation with you relative to the past, present, and future. Do not disappoint me in this!

Truly your friend

Dr. A. Gray
Cambridge.

Joseph Henry

Smithsonian Institution,
Washington, D. C. March 7th 1879

My Dear Dr Gray

I write in behalf of my family, and myself to say that we shall expect to see Mrs. Gray at our house as soon as the weather moderates sufficiently to allow of her safe coming. We have had an awful winter; nothing equal to it in severity has been experienced in this city for more than twenty years. We are however cherishing the hope that the intensely cold term which has so materially affected the festivities of the inauguration and which is now gradually passing off, will be the last of the kind during the present season.

What ever may be the condition of the weather Mrs Gray will be in a more favourable climate in Washington than in Cambridge during the spring and I therefore must urge you to send or bring her on as the weather will permit.

Dr. Newberry of Columbia College called on us on Tuesday last with a message of kind regards from Dr. Torrey whom he saw the day before. Dr. N. thinks Dr. Torrey is in a very bad condition, and that it is very doubtful as to whether he will ever again be able to leave his room. We had a letter however a few days before Dr. Newberry's

visit which gave a much more favourable account of the Dr's condition - it was from one of his daughters. Dear good Dr. Torrey overflowing with good will to men may he yet be long shared to the world. But when ever he may make his exit it will be with the general sentiment that he has performed an admirable part in the great drama of life.

My family are all in good condition and are now enjoying the quiet after the bustle of a very busy season in ^{the} way of giving and receiving visits.

All the affairs of the Institute are in good condition Congress has at length come into the season which I have so long advocated

Dr. Joany. What do you intend
to do with the sketch you are
preparing? I must give an
account of his death to the
National Academy at its meeting
next week, and appoint some
one to pronounce a eulogy upon
him at the next session.

His life was indeed a beautiful
one. It does honor to refined humanity
and no one but yourself can do that
justice to it which shall make
it effective in the improvement
of the moral condition of the youth
of our country.

I have in a week or two to have
an opportunity of a long talk with you
relative to the best the best and
the future. I remain as ever truly
yours &
Dr. A. Gray Cambridge Joseph Henry

Smithsonian Instⁿ

April 7th 1873

My Dear Dr

Mrs. Gray arrived at the
Washington Depot within a minute
of the time the train was due, namely
at 5^h 35^m P.M. nearly three fourths of an
hour before sun set. I was present
to meet her and was so fortunate as
to take my stand on the platform
immediately opposite the point at
which she came out of the cars.

At the first glance, as she came
out, I did not know her, but thought
she was some young lady I had seen
before; the moment she spoke I
recognized her voice. She is indeed
looking very well and I trust she
will return to Cambridge entirely cured
of the lameness of her feet.

She had quite a pleasant and comfortable

sides in the compartment car
and appeared not in the least
fatigued. She gave us a great
treat last night by an account
of your voyage on the Nile and
we have only to regret that
she did not bring with her the
photographs and paper rubbings
which she collected in this
excursion.

We have had a very severe
winter - the coldest on the average
for more than twenty years. The
spring has also been late although
the weather now appears to be coming
settled and we entertain the
hope of an opportunity to enjoy re-
siding on the improved streets of

Washington. We have a strong horse
and a tolerably good looking carriage
in which we propose to give Mrs
Gray an airing every day the
weather is favourable.

Mrs. Gray read to us the
letter from Herbert Torrey's wife
with which we were all impressed
as the production of a woman of
good feeling, good taste and
good judgement. I have also
received an excellent letter from
her as well as one from Herbert
from which I am assured that
they will endeavour to the utmost
to properly discharge the duties which
devolve upon them.

Mrs. Gray informs me that you
are making notes as to the life of

Rye Beach

Sept. 10th 1873

My Dear Dr Gray

We have concluded to
tax your hospitality with our
whole party on Monday night
Mary and Caroline will
depart for Boston on Tuesday
morning to visit a friend in
that city while Mrs. Henry
Helen and myself will
remain with you until
Thursday morning when
we shall take our flight
for a more southern clime

I am obliged to be
in Washington on the
15th in order to be prepared
for an important meeting
of the Light-house Board
on the 17th of this month.

My family and myself
have had a delightful
time at this place and
I have made a very inter-
esting series of experiments
on Fog signals.

With kind regards to Mrs
Gray I remain as ever

Truly your friend

Joseph Henry

to that effect offered by
Mr. Fairfield was not as
usual immediately passed,
but referred to the committee
on education and labour
which committee struck off
the name of Stewart and put in
its place that of President Coffey
of the Lehigh University. I know
Coffey and do not anticipate
any difficulty or uncom-
fort in his appointment although
it indicates the danger to which
the institution is liable in the
appointment of improper
men. Truly your friend

Prof. A. Gray can be Joseph Henry

Smithsonian Instⁿ

Jan^y 17th 1874

My Dear Sir

You have probably seen
by the newspapers, that you
have been selected to fill the
vacancy in the Board of
Regents occasioned by the
death of Professor Agassiz.

I hope you will not for
a moment entertain the
idea of declining the appoint-
ment since it is of the highest
importance that none but
men of high character should

be in the board of regency.

We should be glad to see you at the first meeting of the session, but if you cannot come on at this time you can defer your attendance until March when you are to bring on Mrs Gray to give us her annual visit.

We shall have several meetings during Jan^y and Feb^y to settle the accounts and present the reports and after that one in March

or April to discuss of any ^{other} business which may require the action of the board.

We have lost from the board two of our most important members namely General Gurfield and Judge Poland from the House. I'm thankful appointed in their places Judge Hour of Mass. and Hon Mr Highton of Wis.

At a meeting of the board previous to the action of Congress yourself, Professor Dana, and A. J. Stewart were recommended to fill vacancies in the board other than members of Congress. The resolution to

and only yielded on pressing solicitation.

The chief Justice has expressed a warm interest in the affairs of the Institution and will I trust act as his predecessors have done to strengthen the hands of the Secretary.

Our large room is now furnished with cases and we shall soon begin to furnish them with articles of ethnology in which I shall make a grand display.

With much regard to Mrs Gray I remain as ever truly
yours to her

Dr. A. Gray

Joseph Henry

Smithsonian Institution,
Washington, D.C. March 14th 1874

My Dear Dr

We are all very sorry to learn that Mrs. Gray has met with an accident which confines her to her bed. I was about to write to you to send her on to spend the present month with us, and you to come for her about the first of April. I beg to urge this proposition as soon as she is able to travel. We can hold the next meeting of the Board of Regents at any time to suit your convenience. I wish to have another meeting in order to elect the new chief Justice

as the chancellor of the Board and to finish up the business of the session and if you will inform us as to the time which will be most convenient to you I will make arrangements accordingly.

All our affairs are in a favourable condition although congress is at present in a state of excitement in regard to the state of the finances, yet I think we shall get our appropriation of 15000 dollars for the care of the museum.

What think you of the action of Pierce in resigning the ^{Directorship} of the coast survey, ^{resigning} without giving the academy an opportunity to nominate his successor? He first resigned from the Light House Board and this too was done without giving me an intimation as to his intention. He is a man of genius, but a child in the every day business of life.

DuRoi has been appointed to the charge of the observatory, and will probably end his days in that position. It was with considerable difficulty the appointment was obtained for him. The President was opposed to his appointment

went and let you know
the results next week

I hope you will be able
to induce Mrs Gray to come
with you. Washington will
be in its best dress. My family
will be much gratified with
a visit from her and I am
sure she will have a good
time

The Purson girls appear
to be enjoying themselves very
much. They are well qualified to
call forth kind attention from
all who can appreciate female
excellence. Sincerely yours
Joseph Henry

Smithsonian Institution
April 9th 1874

My Dear Dr Gray

Your letter of the 31st ultimo
has just come to hand, and I
hasten to say in reply that we
shall make arrangements
for putting to press immediately the
Botanical Index. You have
put off the printing of this until
the payment of the bill would
come into the next half year, since
on account of the failure of the
first National Bank, we were
short of funds at present. Mr
Watson can send on the man-

scribble as soon as it is ready
for the press.

We shall expect you
to be present ^{at} ₁₈ of the meeting
of the Board on the 25th and
shall ^{call} the members together
at 12 o'clock of that day.

But will you not be too
fatigued to attend after
riding all night and would
it not be better for you to come
on the day before?

The meetings of the Board are
usually held at night on account
of obtaining a better attendance;

but as Saturday is a broken
day with the members of
congress it has been thought
best to attempt to have
a meeting in the day time,
in order to give the Regents
an opportunity to see the man
use and exchange rooms.

It is possible however
that the chief Justice cannot
attend in the day time and
in that case we shall postpone
the meeting until Monday eve-
ning the 27th. I shall write to
the chief Justice in regard to
this

Smithsonian April 14th/74

My Dear Dr Gray

Many thanks for your valuable suggestion as to the name of the National Academy, which I shall present to some of the influential members for consideration.

It will require an act of Congress to make the change which could however be readily obtained.

The meeting of the Board of Regents has finally been fixed for Monday the 27th at 10 o'clock A.M. The chief Justice informed us that he could not attend on Saturday the 25th the time previously suggested.

I hope you will still conclude to come on Friday, that we may have you longer with us and

that Mrs Gray will come
with you. The weather is
becoming quite pleasant
in this city.

The daughters of Professor
Parsons are still with us and
are apparently enjoying Washington
life. They have won golden opinions
from all who have found them
acquaintance and are very nice
girls.

It is generally thought that
the inflation bill will become
a law unless the President puts
his veto upon it. It will be a
disgrace to our government and
a brand of the most important character
on the real capital and honest
industry of the country.

Truly your friend
Joseph Hursey

his ~~express~~ verbal shake of him
with affectionate regard.

You are all in good con-
dition. A sojourn of two weeks
at the light house depot station
Iceland has much improved my
physical condition.

Professor Baird leaves the
Institution tomorrow for Woods'
Hole to go on with his researches
relative to fish culture.

With kind regards to Mrs Gray
I remain as ever truly yours &

Joseph Henry

P.S. This letter was written at the
time of its date when I was about to
leave the city and by accident was not
mailed. I found it in looking over my papers

I leave for the summer on Monday. ^{my}
family will join me at Swasey city in about a week.
Be sympathetic with Mrs Gray and yours in your sor-
row.

J. H.

Smithsonian Instⁿ

June 15th 1875

My dear Dr Gray

Your note which reached us
on Sunday morning gave Mrs
Henry and myself a pang of sorrow
more intense than any thing of the
kind we have experienced for
many a day and scarcely a
moment has passed since the
reception of the sad intelligence
in which the condition of Mrs.
Winlock and her children have
not been vividly before us.

What can be done for them
have they relatives or property
to fall back upon? I fear not!
How sad and momentous the
change in the condition of Mrs. W.

from that of a well provided
happy wife to that of penniless
widowhood with a family of helpless
children to support!

How impossible it is for us
to realize our tenure of life. To
day busily engaged in what
we consider of the most im-
portant character. Tomorrow
suddenly called from among
the living and rendered oblivious
to all they hold of value. What
shadows we are and what shadows
we pursue!

It is well that we do not
realize our condition as to life.
If we did so, our efforts to labour
in the world would be paralyzed
and all our thoughts absorbed in
the contemplation of the "inevitable
hour"

Another matter intrudes itself
unbidden on our thoughts. Who
is to be the successor of Professor
Winlock in the charge of the Obser-
vatory? I cannot but deem that
the choice may fall on Gould.
He has suffered much and I think
has been softened by tribulation.

The Secretary of the Treasury asked
me yesterday to name a successor
to the Professor in the boiler com-
mission. He spoke in warm
terms of Winlock and expressed deep
sympathy with his family in regard
to his death.

He was truly a good man and
the news of his death has given a
pangful shock to all who knew
him. From his connection with
the Naval Academy he had a
wide acquaintance and all

Dictate

SMITHSONIAN INSTITUTION,

WASHINGTON, Jan: 12th - 1876

My Dear Doctor Gray:—

The first meeting of the Board of Regents will be on the 19th Inst., but as the accounts will hardly be ready by that time, having only just now succeeded in drawing our interest and selling the gold, we shall adjourn, without transacting any special business, until the 26th when we shall expect you to be present.

The meeting of the 26th will be one of importance and matters may be discussed which will have an influence on the future history of the establishment. The great increase in the

number of specimens in the Museum, consequent on the Centennial Exposition, will necessitate a much larger building for their accommodation than the present Smithsonian edifice, and consequently the following questions will arise;

Should this building be an extension of the present Smithsonian edifice or a separate one; or one in connection with the Library of Congress. If the new building be an extension of the present one ought not Congress to pay at least half the cost of the present edifice, say of \$300,000, and take the whole for the uses of the Government? The Smithsonian, after depositing \$200,000 of this sum as an increase of the permanent

fund would devote the remaining \$100,000 to the erection of a building sufficient for all the wants of the establishment, supplied with a Chemical and physical and a biological laboratory and apartments for carrying on the Exchange system.

In view of the great extension to which the Museum is destined, and the magnitude of the appropriations which it will require annually, and the continued appeals to Congress for these appropriations, and the danger of merging the Smithsonian Bequest in a Government establishment, the question is, is not an entire separation between the Institution and the Museum advisable? There is, moreover,

danger that in the continued association the Institution will fall under ~~the~~ immediate Congressional direction. We have already been called on by the Secretary of the Interior to furnish a list of the names, salaries, places of birth, states from which appointed, &c, of all the Museum employes.

You are a wise man and are well fitted by knowledge and judgment to deliberate on questions of this kind; and from the interest you take in the Institution I need scarcely ask you to give them your special attention.

Very truly yours, &c,
~~John~~ Henry

D. Asa Gray -
Cambridge,
Mass.

Smithsonian Nov 6th 1876

My Dear Dr Gray

Your kind letter of last month came to the Institution while I was absent, and has since been mislaid. I know therefore that you will excuse the delay of my answer.

I need scarcely say that I shall be delighted to receive a copy of your book; first because I am interested in the subject of which it treats, and second because it will come from you, and I trust will contain your autograph.

I had on Saturday last at the meeting of the visitors to the Argyle for the usual serious talk with the Rev. Dr. Newman of the Metropolitan Methodist Church of this city on the subject of Darwinism which he had represented on the previous Sunday as an absurdity so apparent that it ^{was} scarcely necessary to refute it. He appeared much surprised to find that I differed from

him, and that much could be said in favour of the hypothesis. I finally could not refrain from telling him that the clergymen who rushed into the conflict against Darwinism did injury, as a general rule, to the cause of truth and the interest of christianity. I denied the charge against it of a tendency to atheism and asserted on the contrary that it gave higher views of the power and wisdom of the creator.

He gave profound attention to what I said and did not attempt an answer.

My family have all returned home after a longer absence from Washington than ever before since we came to this city. They had a first rate time in Cambridge. Mrs. Henry would not consent to turn her face homewards until she had seen Mrs. Gray. I had to regret that I could not accompany her. I was called to attend an important meeting of the High House Board at Staten Island.

All the operations of the Institutions
 are going on as usual. We have pub-
 lished the 20th and 21st volumes
 of the Contributions to Knowledge; the
 annual Report is in the hands of
 the binder and will be ready for
 delivery in the course of a few days.

The conditions of the centennial
 exhibit I fear are not quite as
 favourable. It will I fear be
 somewhat embarrassed by the
 failure of congress to make the usual
 appropriation for the support of the
 museum. The hope however is inter-
 tained that a deficiency appropri-
 ation will be granted for bringing back
 the specimens, and for making the du-
 plicates into sets for distribution to colleges
 and academies.

I have not changed my mind
 as to the propriety of the separation of the
 national museum and the Smithson
 although I do not intend to urge immedi-
 ate action unless there is a prospect of

4.

Success. I think it highly probable that if the connection continues and large appropriations are called for by the Institution for the support of the museum the ~~latter~~ ^{former} will be in danger of falling into difficulties, ^{and} finally becoming merged in a great establishment with a politician at its head.

I have had a very busy year but thanks to a kind Providence I am in a good condition of health. I spent the month of July at the Antwerp, ^{an} two weeks on an excursion to Buffalo to attend the meeting of the American association - three weeks at Block Island and two weeks at the Light-House Spot-staten Island and a week in Philadelphia in attendance ^{national} at the meetings of the Academy. I am now busily occupied in bringing up the affairs of the Institution and making preparation for the meeting of the

Board of Regents Our financial condition will indicate continued prosperity. We have received from the First National Bank the remainder of the sum which was in its possession when it stopped payment. Owing however to the failure of Congress to make more than half the usual appropriation for the museum we have not got back to the Smithsonian fund what was advanced for the museum and the centennial.

The armory building has been fitted up for the reception of the extra-specimens from the centennial and will furnish a very convenient receptacle. Congress granted \$500 dollars for its improvement.

The project has been somewhat discussed to bring the contents of the

Government building to Washington as a perpetual exhibition. This proposition involves the idea of a separation of the museum and the Institution or the keeping up by the pro latter of a separate establishment or in other words of throwing the present building on the hands of the Institution since the several Bureaus will scarcely consent to place their articles in charge of the Institution. - How matters will crystallize I am unable to say. I desire of course to do direct affairs as to benefit the Institution while the public good is heartily cared for.

I would we were together for a while that I might have the advantage of your wise suggestions. Do not fail to arrange your affairs so as to be with us for long time and above all do not fail to bring Mrs Gray with you. She will be glad to see the new President

7

I have just returned from a dinner at the Smithsonian Institution, University given to Professor Sylvester Washington, D. C., 187

It was a very interesting occasion and gave me an opportunity to become acquainted with what has been done in the way of the development of the establishment.

I think the University has made a very good beginning. It has been very sparing of its funds in the way of building. It has purchased 2 brick houses ad joining each other, and converted them into one with all the studios, offices, laboratories and lecture rooms necessary for the most extended instruction.

Twenty fellows have been appointed with salaries sufficient for a comfortable support. A mathematical journal is about to be established under the charge of Professor Sylvester which it is thought will concentrate the mathematical talents of the country and attract materials from abroad.

I highly approve of the course which

both much regards to Mrs Gray I am as ever truly yours Joseph Henry

but thus far been taken under the direction of President Gilman who I think is an excellent organizer and with whom I am on terms of very friendly relations.

The establishment of the university will have an important bearing on the scientific character of this city since the Professors and the fellows can surely attend the meetings of the Philosophical Society of Washington and the friends of the two cities may thus be united.

Much anxiety is felt in this city as to the result of the election. Great suffering has been inflicted on a large number of citizens by the part worn of the government to make the usual appropriations and the consequent discharge of a large number of clerks. Should Fisher be elected a still larger number will be dismissed. Otherwise Eldred is thought to be a man of intellect and that he will, if elected well manage our affairs for the betterment of the country.

Museum. An appropriation
of 25,000 Dollars has been asked
for the next fiscal year which
will probably be granted.

We have learned from
Mrs. Gray that you all reached
home in good condition and
I hope you will not have lost
any working time by your visit;
but that the vacation will have
given you the power of more intense
application.

We were in a state of collapse
after your departure - the light of the house
had departed with Mrs. Gray and
our morning news. You were all
missed in Washington. The papers
announced your departure and
although ^{the} Smithsonian was not hung
with black a dark cloud hung over
it.

Smithsonian Instⁿ

Feb^y 15th 1877-

My Dear Dr. Gray

After your departure the memorial
to Congress was prepared and sent to
both houses. It was read and
favourably received and the prob-
able is that the appropriation
of 250 thousand dollars will be
granted.

Senator Morrill has taken the
matter warmly in hand, but he
strongly objects to having the two
buildings erected, and especially
to having the new building built in
the rear of the present edifice. He
insists on its being on a line with
the latter either to the east or west
and this arrangement I think
on reflection I think will tend

to solve our difficulties. If the two buildings are separated all the specimens belonging to the museum may be removed from the southern edifice and accommodation made for the signal service operations and the display of the objects of the Educational Department; Government buying the Institution a new site for the space occupied. I am the more inclined to this arrangement since it will be very difficult to disassociate the Institution from the present building with which it has been so long connected.

I called on the Chief Justice after you left and in conversation he said that on inspection as to what had been said in regard to the ^{Plan} separate

he had come to my opinion and desired to be further informed as to my views on the subject.

Baird is of course much interested ⁱⁿ having the two buildings united, but has given up the idea of placing the new one in the rear. Mr. Jewell's objection to the connection of the two edifices is the crowding of the structures and the interference with the carriage ways.

The appropriation of a deficiency of 20,000 dollars has passed the house and will meet with no opposition in the Senate - this will pay for the transportation of all the specimens from the centennial and clear off other debts of the

unanimously and would
have passed the House could
it have been brought before
that body without the consent
of two thirds of the members.

The decision of the U.S. su-
preme court that the money
lent to the centennial must
be returned, will have a
favourable effect on the ques-
tion of the grant for the building.

There will be a change in
the Board of Regents at the
next session - in a new
member from the Senate, in
the place of Mr. Stevenson - in
the new vice President and
in three members from the house

Smithsonian Inst^{on}
Oct 11th 1877-

My dear Dr. Gray

In answer to your inquiry
of the 8th just received I have
to say that we forwarded to
Germany yesterday 13 boxes of
books and can send a pack
age for you as soon as it is re-
ceived in Washington.

Do not forget to direct it
clearly, and to put your own
name on the cover!

We are just now much
occupied in insulating all
parts of the building from each
other to prevent the spread of
fire. We have been stimulated
to this by the late accident at

The Patent office and the investigations which have been instigated by the government as to the safety of the public buildings in this city.

I am pleased to be able to inform you that all the affairs of the Institution are in a favourable condition. The system of exchange has been extended beyond that of any previous year: the additions to the museum have continued as in times before the continental.

We have made the drawings of Huber's paper proposed for

the engraving, but not without considerable trouble. We ~~we~~ were obliged to bring him to Washington, and keep him in the Institution for nearly three months. He has given us a large amount of manuscripts which will require much revision and condensation before being put to press.

The President has promised to recommend the petition of the Board of Regents to Congress in his annual message, if not in his extra one. The prospect is good as to its being granted since the proposition as to the new building passed the Senate

I had an opportunity
of making observations
on sound in connection
with fog signals which
are important additions
to those I formerly made,
and which tend to establish
the theory I adopted.

I hope you will make
arrangements to spend
with Mrs. Gray a longer
time with us than you did
last season. We shall
want your influence with
Congress as well as your counsel
in the meetings of the Board
Truly yours
S. P. Henshaw

Perhaps one of the members
from the House may be disappoint-
ed in the election from Anna

I think Congress as a whole
will be favourably disposed
to the Institution. Randall
will probably be elected speaker
and he has always been friendly.

I have endeavoured during
the present year to keep down
the expense of conducting the
operations of the Institution,
and hope to be able to present
a good balance at the
next meeting of the Board
of Regents.

The question of the separation
of the Museum remains in
the same state it was in

last winter. The time of writing
it may perhaps not have
yet arrived; but I think
it proper to put it before the
the Regents and the public
generally.

I am glad to learn from
the letter of Mrs. Gray that
you have had a good
time in your excursion
in the Rocky Mountain regions
with your friend Dr. Wesley

You must have looked
into the operations of nature
with double power and
obtained many of her secrets
never before known to man

I am glad to know that
you made the acquaintance
of our friend General Bidwell
a gentleman of admirable
character, of large means
and a liberal heart.

I have also had a good
time during the past summer
and have returned with a
store of health which I hope
will last during the winter.

My family have returned
with the exception of Helen
who is still in Barcelona.

She and Mrs. Henry as well
as Caroline have been detained
from home on account of repairs
and painting in the house.

I have good reason to think that that catalogue had undergone the revision of the Professor himself.

One proof for you, is the careful mention of my cooperation with him in the experiment ~~of~~ ascertaining the relative temperature of the solar spots, when compared with other portions of the sun's surface.

This was the earliest experiment of that sort.

There must be some account of it in the Proceedings of the American Philosophical Society, or else (not so likely) in Silliman's journal. The image of the spot to be experimented on was projected in a dark chamber, beyond the eye-piece of a telescope (by Schneider & Fraunhofer).

Stephen Alexander
Letter of Prof Henry

Princeton, N.J.
Wednesday evening, Dec 4, 1878

My dear Dr. Gray:

It is a great pleasure to see to receive any thing with your signature.

Your of 2d inst reached me this morning.

I tried, in vain, to have the date of Prof. Henry's birth set right, when I was present at the time of his funeral. But it was the decided impression that the Cyclopaedia must be right. And

I did not even succeed
in having the coffin-
plate tell the truth
But I had learned
years ago, the date (as
to the year) of Prof. Henry's
birth, and compared
his age with my own.
The difference was what
it was not likely I
would forget.

But to set all convinc-
ingly right, I wrote
to the friend who had
charge of the professor's
Life Assurance; and his
investigation brought out
the same result with
that which I had
insisted on.

Prof. Henry was born

in 1799. That is certain.
The statements, in ad-
dition, say in Dec. of that
year, some of the docu-
ments in your possession
I believe, mention the day
1878 in May (was it not)
1799 in Dec

79 - years (and not 81)

The documents sent to
you by Mr. S. Marlean
afford a great deal of
information; and are re-
liable as guides.

One of the best cata-
logues of Prof. Henry's
Scientific Papers & is that
in the Index Volume of
The Biblical Repository
& Princeton Review
from 1825 to 1878 inclusive.

with an enthusiasm
and scarcely less than
that which he mani-
fested when he was
engaged in his magnetic
investigations. He noted
every 10th oscillation of
the needle calling it out
distinctly, while I noted
the times by chronometer
on seconds and fractions;
the chronometer having had
its error and rate previ-
ously ascertained by myself.
The investigation was Prof
Henry's own. It was made
at Albany on an eminence
which has since been
dug down and built over.
The needle was not moving
in vacuo. An attempt
to exhaust such an ap-
paratus afterwards, here

2
I projected the image
of the spot ~~on~~ upon the
end of the thermo-electric
pile; while Prof Henry
read off the inclination
of the needle. Then ~~ex~~
also the bright ^{neighboring} portion
of the sun's disc was
tried in the same way.

This experimental in-
vestigation was made
at the instigation of
Prof. Henry;

In our observations to
determine the difference
of longitude between Phil-
adelphia and Princeton
we had the cooperation of
the late Prof. A. Dallas Barber
and Mr Esby, (the "Storm-king")
Two of us faced inward
as respected the line

between the two plays
and two others outwards
and every second during
a full hour ~~was~~
as given by an astro-
nomical mean time clock
was audibly called off,
by one or the other al-
ternately of two relay
observers (The same clock
is ticking steadily beside
me as I write this;
going unperceived on;
& though three of the
four observer men named
are dead)

The observations resulted
in a success. The differ-
ence of longitude, so
determined agreed within
about 2 seconds of time

with that indicated by
the Coast Survey. You will
find the results of my
comparison ^{of these times} somewhere in
the Proceedings of the
American Philosophical
Society, date about 1835
Almost none of the
accounts of Prof. Huxley
experiments say any
thing about those on
the magnetic intensity.
He had obtained from
Hanssen a needle
which had been vi-
brated in Norway by
Hanssen himself. It
was my privilege to
cooperate with him in
the observations which he
made with this. Prof.
Huxley engaged in them

as an experimenter,
lest it might be supposed
that the mercury had
merely been transferred
by an adhesion (after the
fashion of capillary attrac-
tion) to the outside of the
wire, he prevented that
by varnishing the wire.
(A case as scrupulous as that
of Henry R. Walker when he
demonstrated the wire before by
making the pendulum-ex-
periment.)

Prof. Henry previous to
his engagement as Parochial
School in Gen Van Rensselaer
family, taught for a
little while a district
school.


You know that he
learned, before that, a
silversmith's trade; or
at least some part of it.
This under Providence

at Princeton, resulted in
the breaking off of the
upright tube; so that
the experiment could not
then be tried. Prof Loomis
was I think then about
to be the experimenter.

The experiments ~~which~~
here spoken of, were made
in 1832. (see Hilliman's
journal, probably, or else
the Proceedings of the
American Philosophical
Society.)

Prof. Henry cooperated
with me in the observa-
tion of the annular eclipses
of 1838. The ring was
visible here - narrow on
one side. Between the
cusps after the ring broke
was visible a little prominence.

like those which have
been so conspicuous in
total eclipses. In Prof.
Henry's telescope this ray
must more conspicuously
show in my own. It
had a red screen; and
we used the instruments
interchangeably, marking them
distinctly (see Proceedings
again). Prof. Henry insisted that
the color of these protuberances
seen in total eclipses was
subjective. ^{He} made some
experiments at Washington
with burning wood exposed
to bright sunshine to prove
the same. I saw the
protuberance in Java in 1869
and they showed different
tints under a variation
of circumstances during
the brief 3 minutes of
totality.

In Prof. Cameron's Reminiscences
I think, or else in the cata-
logue, I have referred to, you
will find a description of
Prof. Henry's experiments which
resulted in a detection of
the transmission of metallic
mercury through a ~~line~~
lead acting as a syphon.
(wire was about 20 thick) 
I exhibited the same infiltra-
tion with the mercury
frequently to successful classes
when I succeeded Prof. Henry
here for a time. I allude
to the experiments with it
especially because they in-
dicate quite as perfectly
as any thing else I
think) Prof. Henry's thorough-
ness and scrupulous care as

I ~~shall~~ ^{was} not always hold
that steadily before me
the loss of my guide, my
counsellor friend for some
60 years; my more than
brother. But the courserous
ness of that loss comes over
me unbidden sometimes
as a cloud - a cloud
though, with a light
beyond it.

My very kind regards
to Mrs Gray, as well
as yourself, ~~as well~~
~~as to yourself~~.

I remain

Yours faithfully,
and very sincerely,
Stephen Alexander

P.S. Another note - I do not think
the family will be altogether
pleased with the appointment
Prof. Newson as the Treasurer of
of Prof. Henry, for the National Academy

4
was the source of much of
his facility in combining
apparatus and experimenting
He had a small workshop
for a while, and in it
(a mere boy) I received my
first lesson in magnetism:
small pieces of wire being
made to erect themselves
on a piece of paper, when
a magnet was passed
beneath it; and the
inquisitive boy looked below
the paper to see how the
ends of the wire had been
mechanically moved; but
was told that magnetism
did it.

The earliest public ex-
periment of Prof. Henry
was probably that in
which he exhibited to
the Albany Institute

The effect of the sudden
settling free of possibly
condensed air, in freezing
the fit of water from an
soda-fountain (see *Transac-*
tions of the Albany
Institute vol I)

For a full account of
Prof. Harry's Magnus
Experiments see *Illinois*
Journal and also the
Smithsonian Report for
1857 under the head
of *Proceedings of the*
Regents; in which the
whole of what we may
term the Morse matter
is exhibited; ~~and~~
as well as the progress
of *Electric-Charge*
up to date

I was deeply moved
on the receipt of my

brother's last Report
(that for 1877), & con-
sidered it perhaps the
best that he ever made
& requested Dr. Newell
to refer you to certain
portions of it — charac-
teristically clear, and
deeply conscientious to
the last as to the ful-
fillment of the purpo-
ses of the great Trust;
and summing up al-
most at a glance the
great results of the
Secretary's own plans

Thus my dear Dr. Gray
I have tried to comply
with your request. Perhaps
I have been more than less
involving to you because
I have sometimes been almost
conversational.

Princeton, N. J.

Thursday, Dec. 5, 1878

My dear Sr. Gray:

In the letter which I sent to you this morning, I neglected to call your attention to Prof. Henry's induction with regard to "power"; which complements in some respects the generalizations of Laplace and Sir J. Herschel. I have looked in some of the Smithsonian Reports, but have not as yet found the matter noted in them.

The date of the proposed communication on the subject must I think have

I do not think that Professor published
much in the Proceedings of the American
Association for the Advancement of Science

seen not far from 1858.
In 1859 he spoke of the
matter in a criticism
on somebody, no matter
who, who had committed
a plagiarism with re-
gard to it.

Please examine the
Smithsonian Reports
throughout, some papers
which escape us now may
be found, and look
also in the Biblical
Repository catalogue of
the Professor's papers; and
the Proceedings of the
American Phil. Society.
I think they have an
Index Number

I remain
yours very sincerely
Stephen Alexander

FROM WASHINGTON.

[Correspondence of the New York Express.]

The Smithsonian Institute.

WASHINGTON, Feb. 8.

We understand that there is a settled determination on the part of the Secretary of the Smithsonian Institution in conducting the affairs of that institution to carry out his own views, without regard to what may be the policy the regents or others connected with the Institution desire to see pursued.

The Board of Regents years ago, passed a resolution that the funds of the institution should be divided between the library and the prosecution of scientific researches in different departments of science, purchase of the philosophical apparatus, &c. And up to the present time the funds of the institution have been expended according to the policy then adopted by the Board of Regents.

Now I am told, the Secretary, Prof. Henry, is pursuing a course, the design of which is to narrow the usefulness of the institution, and confine its operations simply to the increase of knowledge. publishing the results of scientific labors in books to be distributed only in libraries and among institutions of learning. The library of the institution he regards as a useless appendage, and the building of no earthly use, and all the officers about the building except himself and those immediately under him as useless fungi; their labors of no advantage to the world. The building he would like to see sold to the Government for Government purposes. Lectures are not in the design of the institution; and lecturers are only employed in order to please the people about Washington, and prevent too much outcry against the institution. The question may be asked, whether if the lectures are worth being paid for to please the people of Washington, they are not equally worth being published for the instruction of the people at large. I understand that Prof. Henry does not regard the lectures delivered at the institution worth reporting; and the proprietors of the papers here seem to take the same view of it that he does, for since the organization of the institution I have no recollection of seeing a single lecture reported in full for any of the papers here.

It is the impression of the people that the Smithsonian institution was designed to diffuse as well as to increase knowledge; and in their opinion the lectures delivered before the public of Washington ought to be published to be read by the many; and that if they are not worth publishing, the money of the institution ought not to be employed in paying for them.

The contest between Prof. Henry, and his policy, of only increasing knowledge, and the other party who go also for diffusing it, has waxed so warm and each party has taken such a decided stand that it must end either in the withdrawal of Prof. Henry from the institution altogether or the changing of the character of the institution, the abolishment of the library and librarian and other offices of the institution who now have a voice in regard to the mode in which the funds should be appropriated. In our opinion the true interests of the institution require the immediate resignation or removal of Prof. Henry.

(Because our regular correspondent writes this, we publish it,—but for the profound learning, pure character, and high qualifications of Professor Henry, we have unshaken convictions. His letter shows a state of opinion in Washington that it may be interesting to know.)—Eds.

Facts in the history of the electro-
magnetic telegraph

- 1 I was the first to magnetize a horse shoe of soft iron at a distance by transmitting a current through a long wire interposed between the battery and the magnet
- 2 I showed that in order to produce this effect with little or no loss of power ~~that~~ a compound battery must be used instead of a single one
- 3 I also showed that when a compound battery ^{is} employed the coil around the magnet must consist of one long wire and when a single battery is employed several short wires must be used

These facts are given in my first paper on electro magnetism published in Silliman's journal for 1831 They are the facts on which Mr Morse has based his telegraph but his assistant Mr Vail in his publication relative to the history of the telegraph has neglected to give me any credit for them