

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

I have been of late overwhelmed with  
letters and extraneous business business as well  
as trouble seldom comes along I have  
been working very hard at my paper and am  
taken 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 200 francs Southey arcade 12 & 175. 6d  
for some apparatus purchased for the college and

Did you and your friends know - I had the  
address in London - with my weakest wishes for you the success of your  
mission and you safe return to relations and friends  
I bid you a warm and affectionate adieu  
Love  
W. B. Brewster



The package will be sent to Chiltons by Mr. Pearson  
of Printers who starts on Monday morning

enclose  
money to about that amount which you can dish  
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  
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

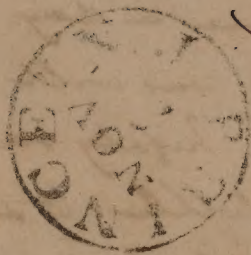
letter to Kemp whom you will find a very ingenious man  
and very willing to communicate to any persons  
I also give you a letter, to Dr Holland of London a  
gentleman to whom I believe I have been regularly  
introduced but who was always attentive to me when  
we met He appears to be a person of business  
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 Christian  
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 endeavor 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 great attention  
which forms a part of their hospitality we find our  
at first a little unsettled <sup>and</sup> 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 advertise

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Dr Asa Gray  
Care of Dr Chilton  
Broadway  
New York



all americans from dealing with him unless he  
fulfills his engagement ~~his engagement~~ - 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

Baltimore Dec 12<sup>th</sup> 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 Institution  
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 perversion of  
a noble bequest.

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  
appointments I have been  
overwhelmed with business  
and feel rather overworked.

I have made up my mind  
to the most disgraceful notoriety  
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 honor is  
unpeached

Your friend

Joseph Henry

Dr Gray



Providence Nov 5<sup>th</sup> 1847

My dear Dr.

In consequence of repeated  
journeyings between this place, New-York,  
and Washington <sup>since</sup> 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 8<sup>th</sup> of December and it is highly important that I have the report of the Acad<sup>y</sup> in my possession before that time.

I rejoice to hear 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.

Wilkes 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 Wilkes but I shall give it ~~my~~ 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 Beale 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 Feltou 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 <sup>and</sup> 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. Maury that Pease is very busily engaged on the investigation of the mass of neptun 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<sup>y</sup>  
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 <sup>because</sup> 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 <sup>it</sup> 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  
year 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  
by the appointment of a committee This I think will help

to reach 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 Squier  
and Dever the wood cuts and  
plates are nearly all finished.

The attention which Squier  
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 you find  
I wish to say  
South Amherst

of books should be commenced  
immediately he however I think  
came to regard the proposition  
more favourably, and on condition  
that Mr. Jewett should be immedi-  
ately 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, expenses  
apparatus, &c. and as I am  
not anxious to push the operations  
too rapidly, I am, for this year, con-  
tent 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 result  
(the increase of the fund) is 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. Hough 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 Bas - and Willard 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 I shall not be controlled by a committee.

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



Washington May 23<sup>d</sup> 1848

My dear

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 results 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 ~~to~~ Congress still in the hands of the printer but are promised in the course of a week or two



favourable. The Librarian 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 engravings  
 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 execution but to endeavor  
 to control the expenditure. I have in due time  
 Congress will be made to see the injustice of the  
 putting the keeping of the National Museum on  
 the Smithsonian fund and not only pay  
 for its keeping but also in part refund a share  
 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 or on astronomy giving sketch of the



5

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

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

These reports should be prepared on the  
plan of the Systematic records of Lullacres sufficiently  
popular to interest the many while it will also  
instruct the few. The first report will be prepared  
by Dr Lewis Beach 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 Bully of West Point has proposed  
to give an account in the case of the commission with the description of new  
text objects.

during the present year but something may  
be derived from the sale of the articles. Suppose  
we should say ~~\$400~~ <sup>\$400</sup> ~~per~~ page 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 per page 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 an action 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

to J. Gray



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 <sup>appear</sup> (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 provide 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 we as early as convenient the testimonials  
you mention and I will confer with the Regents  
in Washington.

I have just received a letter from Mr E. Deane  
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. 5<sup>th</sup> 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. 22<sup>nd</sup> 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 <sup>copy of a</sup>  
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 &c  
Joseph Henry

Washington Jan 18<sup>th</sup> 49

My dear friend

Your favour of the  
1<sup>st</sup> of Jan 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 commission.

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. Benton 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 hope 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 7<sup>th</sup> 1849

[FEBRUARY]

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 book. 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 <sup>are</sup> 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 coopera-  
tion 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 Cretaceous  
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. Pean  
and your good lady and  
receive 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 21<sup>st</sup> 1849

My dear Sir

Your letter of the 8<sup>th</sup> 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 you Botanist.

I have just had an interview with an officer of the Army, Major Kendrick of the 2<sup>nd</sup> 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 would 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 2<sup>nd</sup> 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

energy 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<sup>y</sup>. 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,  
Pierce, Gay, Gould and Bond  
and receive for yourself the  
assurance that I remain as  
ever truly yours &  
Joseph Henry

Dr Gray

If the ~~fact~~ <sup>law</sup> 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, until 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 are engraved the 52 quarto maps of Squier 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 H. DeCary

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<sup>a</sup> 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 2<sup>nd</sup>

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 hat  
a most estimable gentleman  
of extraordinary acquirements  
not only in literature but also  
in general science.

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



has subsided and the  
Hotelkeepers here 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 give 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 results of the trial  
I think will be <sup>be</sup> 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 unrecrued 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 8<sup>th</sup> 49

My dear Sir

I regret that after  
dinner 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. A. D. 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. Henry." — I return you with this the letter from Lieut. Alford 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

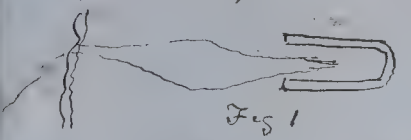


Fig 1

Lowering a strong horse shoe magnet and carefully approached the two legs of the magnet to the point 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

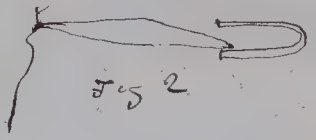


Fig 2

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 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 21<sup>st</sup> 1849

My dear Dr

Your favour of the 19<sup>th</sup> 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 1<sup>st</sup> of July we shall then have from interest upwards of 20 thousand dollars. The building has been kept 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 1<sup>st</sup> Wednesday (the 2<sup>nd</sup>) 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 Leitch relative to Michaux and he agrees with me that it will be best for you to deuce 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 1<sup>st</sup> 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 25 seen.

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 sprague without further  
explanation may produce some difficulty  
in auditing 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. Frost upon which I beg confidentially to receive your opinion. What is the character of Dr. Frost 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 <sup>on these points</sup> 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 line 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 rep. 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.

Remain very truly and respectfully

Your Obedient Servant

Wm. H. Burpee

Sec. Smithsonian Institution



Smithsonian Institution

February 26 1850

Dr. A. A. 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 expenses, 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



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Smithsonian Institution

May 17 1850

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<sup>d</sup> 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 Volumes 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<sup>d</sup> 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. Bartlet an intimate acquaintance of mine has been nominated as Comptroller.

I remain very truly and respectfully Your friend & Servant

Joseph Living

Secretary S. I.

Handwritten text, likely bleed-through from the reverse side of the page.

Handwritten text, likely bleed-through from the reverse side of the page.

Handwritten signature and text, likely bleed-through from the reverse side of the page.



Smithsonian Institution

London, the 18<sup>th</sup>

My Dear Sir

We have concluded not to trouble you with the box for France, and we shall write to Putnam to return it until called for. Accompanying this I send you a letter of introduction to Smith 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' 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 much obliged 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 Smithson from  
Mrs Estell that there is another portrait  
of our Patron saint in the possession of  
a Mr Hangerford - 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 Henry  
Stevens who was engaged, as you know  
to prepare for the Smithsonian Institution  
the Biographical American has thus far taken  
charge of the distribution of our books in  
England and the reception of donations in  
- trade 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 in the is inclined to be more prom-  
- inent in the character of the former than that of the  
latter, He has sent us our boxes in an irregular

manner, a number of books which might have  
us into difficulty with the custom house.  
These remarks are intended for your eye & are  
Professor Gayot 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  
to dispose of our stock worth 240, <sup>thousand</sup> dollars  
and out of the sum to ask Congress 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 voyage and that your visit may  
be highly pleasant & profitable to you both  
I am writing this in the Institution



would find 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

Bob Beecher is much afflicted with the  
intermittent death of his last brother who was  
lost in the surf from an exploding boat on  
the coast of California

I remain my dear Sir as ever  
truly yours

Josiah Quincy

P.S. We have not the present residence  
of Mrs. Fitall she lived in the days of Quakerism  
at 238 Upper Chadwell — since then she has  
lived on rather her husband 27 Jubilee Place North  
mild end, Old Town.

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

J. H.



2 and  
May 6.

Smithsonian Institution

Washington April 5 1857

My Dear Doctor

Your interesting communication of March 14<sup>th</sup> 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 malignant 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 <sup>scientific</sup> 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. Propr. 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 <sup>have</sup> received ~~the~~ his  
attentions with becoming thankfulness.

J. H.

5 April 33  
J. H.

Albany, <sup>Saturday</sup> Sept 27<sup>th</sup> - 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 <sup>its</sup> ~~the~~ character  
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

Southman Inst.  
Oct 10<sup>th</sup> - 1857

My Dear Dr

I regret that I did  
not receive your kind letter  
of the 29<sup>th</sup> 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 27<sup>th</sup> 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 29<sup>th</sup> - reached me



on Friday evening Oct  
3<sup>rd</sup> - 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 <sup>Boston Med. and S.</sup>  
editor <sup>of Surgical Journal.</sup>

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 come

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 of S. I.



Statement of Account  
 Report on Forest Trees to Smithsonian Institution D<sup>r</sup>.

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

Smithsonian Institution

Oct. 14<sup>th</sup> 1857

My dear Dr. ...  
In answer to your letter of the 10<sup>th</sup> inst. I am very sorry to inform you that we shall be unable to pay the account of Prestele until after the 1<sup>st</sup> of Jan. next. Our appropriation for the year will be expended in meeting the demands on account of the first part of Hovey's mission and other outstanding bills. We did not expect any further drafts on account of the Report during the present year. According to my understanding of the agreement, work to the amount of only three hundred dollars was to be done during your absence; we have however disbursed the drafts of Dr. Sprague to the amount of nearly eight hundred dollars. As you will see by the accompanying account...



In order that I may present to the  
Regents at their next meeting (Jan'y 1<sup>st</sup> 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 us 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 paper for the purpose  
in the session of Meddell. - The number  
of copies of the first 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 referen-  
ce to restricted means and not as to the  
value of the labours of Prof. H. any feelings



as a man am 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

Dr. G. Gray



Sm. The Hon. Secy  
Oct. 27<sup>th</sup> 1851

My Dear Professor

Your favour of the 20<sup>th</sup> 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 for safe appropriations and are obliged to guard against the constant tendency to accumulate plates in advance of manuscript.

I shall be much obliged to you for the statement relative to the present condition of the Forest on forest trees. I wish to present it to the Regent at their next meeting in May.

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 lecturing I can do in the winter ought to be done in Washington. The liberal compensation offered by the Institute would be an important object in the way of making up some heavy losses I have met with during the last twelve months. I am however out of debt

and have my 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<sup>a</sup> 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 & devotee  
Joseph H. Dewey

J. H. Dewey



*[Faint, mostly illegible handwriting at the top of the left page]*

Jan. 26

*[Faint, mostly illegible handwriting in the lower half of the left page]*

2  
Sunderman  
Dec 16<sup>th</sup> 1851

My Dear Professor

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

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

His first lecture will  
be advertised for Monday  
the 26<sup>th</sup> of Jan'y.

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 ac-  
commodate 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 donation of the language tree  
It will be an interesting  
article relative to the  
meteorological exhibition  
it will afford of the  
relations and progress 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 4<sup>th</sup> 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  
accounts of the S. I. become  
due. The 90 dollars for  
Latin is a charge which  
we have never before met



with in our dealings  
with printers

Professor Adams?

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-  
pended so rapidly  
in our operations that  
unless we hold up a

little we shall never 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  
dollars 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 Govern-  
ment. We have just completed a  
new building for a set of self-register-  
ing 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 7<sup>th</sup> and perhaps  
the 8<sup>th</sup> volume of our contributions  
The 5<sup>th</sup> and 6<sup>th</sup> volumes are in the  
press and will be distributed  
before the close of this year. The  
5<sup>th</sup> will be ready for delivery in  
the course of about 3 weeks.

I shall be able to provide



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

\* It is 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 expenditures 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 laboured to develop or I will abandon the enterprise and give to those who attempt to ~~disrupt~~ thwart me the honor of having defeated the operation of <sup>the operation of</sup> <sup>advance of the</sup> or interrupted plans for the best



Washington is a Pan-American. Wash is congregated all the  
personifications of all the evil passions 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 comman-  
dine 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, 31<sup>st</sup> 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 23<sup>rd</sup> & 27<sup>th</sup> 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 <sup>had</sup> 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 Explorins 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 23rd. inst. & I shall be obliged if you will, on a proper occasion, state this to Mr. Pearce -

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~~ <sup>called</sup> 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 A. A. Gray



Coast Survey station  
near Bath

Sept. 24<sup>th</sup> (Friday),

1852

My Dear Dr.

I regret to inform you that I am unexpectedly called to Washington on public business and that I shall <sup>not</sup> 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 arrangements with you relative to the Report on Forest Trees.

If we succeed in getting Congress to receive from us the 150,000 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.

Given 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

Mr Gray

P.S. I learned that a pamphlet  
was published by Deson relative  
to the quarrel between himself and  
Lieut. Davis. Can you send me  
a copy? J.H.

If any communications come  
from Washington relative thereto  
refer to the Institution



Smithsonian Institution

My Dear Dr. Nov 6<sup>th</sup> 1852

I hope you will pardon me for promitting you very kind and interesting communications of Sept. to remain so long unanswered. The truth is I have been so pressed 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 recalled to Washington on account of business concerning both the Institution and the government and could not fulfil my engagement 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



Bound 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 ~~discharge~~ <sup>discharge</sup> of this important part of the executive duty of the government ~~and therefore~~ could not well decline.

I will now refer to the several points of your letter in the order of their occurrence. 1<sup>st</sup> 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<sup>nd</sup> 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<sup>rd</sup> We have in <sup>no</sup> 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 Wymann yet I would prefer to pay in money for the labour he 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 promised for the library of Congress.

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



(4)

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 busily 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 11<sup>th</sup> 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



5

matter. I will give it immediate attention and return an official answer without delay. I am pleased with your suggestions as to the fungi hatched 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 in stead of the Amer. Acad<sup>y</sup>. He informs me that they were not received among our packages. I regret as I have before said that we cannot give Dr. Wynne 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 <sup>working</sup> time has been occupied with the organization of the <sup>English</sup> 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 character of the expedition to the northern Pacific. He informed me last night that he had appointed you joined in tonight as botanist and the assistant of Dr. Agassiz as zoologist. There is another expedition to be sent to the River, La Platte and the secretary has requested me, to name <sup>as naturalists</sup> two young men of the proper qualifications, who would <sup>nominaly</sup> 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



8  
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 marks, so to say,  
that they cannot be readily ~~to~~ 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 ruins and a more frequent calling for reports of operations than I have been to former 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 of writing confidentially to you, than



10

I have had since I saw you, on account  
of want of conveniences both in the Institution  
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 note.



Smithsonian Inst

Nov 15<sup>th</sup> 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 peroxide  
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. Bache's camp. par-  
ticularly with reference to some  
definite plan of completing your

work on forest trees. To 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.



James  
Mason

Smithsonian Institution

Dec. 3<sup>rd</sup> 1852

My dear Sir

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

I hope you do not intend to repay me in my own coin by an indefinite postponement of the acknowledgements of the receipts 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.

The *Trigloporus* is now in Washington;  
he appears himself a well preserved  
specimen of a variety of the genus *Trigloporus*  
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. Bachman 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 *Trigloporus*.

Can you favour us with a  
short course of lectures on some  
branch of botany between the  
1st of January 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  
Wm. Gray  
Joseph Henry

Smithsonian Instn

Dec 9<sup>th</sup> 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 <sup>in</sup> your ~~the~~ packages, 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 mesquiti, 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 Dr. Torrey.

I think we shall be able  
to assist him considerably  
in the way of giving him jobs of  
chemical analysis 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 Henshaw



Smithsonian Institution

January 10<sup>th</sup> 1833

My dear Dr

I am somewhat  
perplexed with the proposition  
contained in your letter of the  
6<sup>th</sup> 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 estab-  
lishment of the Smithsonian Inst-  
tution there was no adequate provision  
in the United States for the publica-  
tion 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 Institution. 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 (beginning  
page 21) relative to library and collections.  
Dr. A. Gray I recommend you found & served  
Joseph W. Henry

Smithsonian Institution,

May 26<sup>th</sup> 1853.

Dear Sir,

Your note and the accompanying correspondence with M<sup>r</sup> 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<sup>r</sup> 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<sup>r</sup> 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



more 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

Secy. S. I.

Dr A. Gray.

Professor of Botany -

Harvard University.

Smithsonian Inst

Nov 7<sup>th</sup> 1833

My dear Sir

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 20<sup>th</sup> and it did not reach me in return before I left for New York on the evening of the 24<sup>th</sup> - 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 corrections or additions 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 <sup>following</sup> winter, with a

short course of lectures on  
fence & trees?

I am just now making  
up some notes for the Sec<sup>y</sup>  
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<sup>y</sup> Smithsonian

Dr A. Gray



1165  
Confidential

I know you are anxious to learn something of the affairs of the Institution. The Regent's met on Saturday Mr Choate who had not before been present for six years was in attendance to protect his favourite. Mr Feare from the committee of the Regent's 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 18<sup>th</sup> inst. Mr Feare 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 8<sup>th</sup> 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 Ross 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, 1863 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 14<sup>th</sup> Feb<sup>y</sup> 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 Prestele, 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<sup>t</sup> serv<sup>t</sup>

Joseph Hurry  
Supt. S. D.

Dr. Asa. Gray.



Smithsonian Inst.  
March 23<sup>d</sup> 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 crimes  
of the man and his power of  
sophistical statements.

The original paper consists of  
upwards of 50 pages of closely

written manuscript. It abounds  
in quibbles, verbal criticisms  
and abusive insinuations.  
It will do him no good and  
can readily be answered  
in every particular.

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  
torpedo has passed by

In much haste

I remain as ever your  
friend & servant

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 24<sup>th</sup>, 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. Pease 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. Croake 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

Southwestern Institution,  
May 20, 1854.

Dear Sir,

I enclose you this letter & send you a  
communication from the Editor of the Southwestern  
Institution, together with an account of some experi-  
ments, & the structure of the instrument,  
relative to the preservation of timber. This communi-  
cation was accompanied with a series of specimens of  
wood cut from the forest, as we propose at the  
Institution to test the specific gravity, & to ascertain  
the power of resisting a permanent change of form.  
I enclose also the report of the way in which the  
kind of preserved timber, & it strikes me that the  
above enclosed account of the experiments might be  
of interest.

I believe, however, the whole paper with  
the report on behalf of the Institution that you will  
give any suggestions which may occur to you as to  
the value of - and the experiments which they  
will. Yours, &c. what ought to receive attention.



I have the honor to acknowledge the receipt of your letter of the 11th inst. with regard to the matter, and you may rest assured that I will do every thing in my power to give you the satisfaction you desire.

Very truly

Yours

Joseph Henry

Secretary of the Smithsonian Institution

I have the honor to acknowledge the receipt of your letter of the 11th inst. with regard to the matter, and you may rest assured that I will do every thing in my power to give you the satisfaction you desire.

Very truly

Yours

Joseph Henry

Secretary of the Smithsonian Institution

Dr. J. D. ...  
Washington

Dr. J. D. ...  
Washington

Smithsonian Inst

May 31<sup>st</sup> 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 much little in the way of injuring the Institution. They have made a desecringly 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 & op-  
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 communi-  
cation 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  
pass 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 out 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 16/54

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 package 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<sup>t</sup> serv<sup>t</sup>

Joseph Henry

Secy of the Smith<sup>n</sup> Inst<sup>n</sup>

Dr. Asa Gray  
Cambridge  
Mass.

make a good binding as usual presenting to assist in all the operations of the substitution

Washington July 12<sup>th</sup>  
1854

My dear Dr. D. I have had a

very anxious to learn the particulars

of the meeting of the Board on

Saturday and I would have

considered you 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. Choate and Mr. Mackam

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. Pease



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  
sick wife. He has given in his assurance of loyalty to me  
I intend to abolish the whole system of separate needs and

Mr Swett 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 Swett 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 defend or com-  
mend. With kind regards to your  
good Lady I remain as ever  
your friend & servt  
Loak M. Hurrey

Dr Gray - Cambridge



Smithsonian Desk

July 14<sup>th</sup> 1834

My dear Professor.

I see in the Boston  
Touvalles, 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 <sup>much</sup>.  
It has been obliged to  
employ sophism and  
misstatements of facts  
in order to exhibit a  
show of necessity.

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

Joseph Henry

Dr. A. Gray

Smithsonian Inst  
July 19<sup>th</sup> 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 3<sup>rd</sup> Wed<sup>o</sup>  
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

Sir Sir,

In behalf of the Smithsonian  
Institution I beg to refer to you the ac-  
companying 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<sup>t</sup> serv<sup>t</sup>

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 13<sup>th</sup> - 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 me much credit  
than the Calves which found  
the storm. In 1840 he was  
returned to the city and was  
I am informed making prepara-  
tion for the attack. I have  
another opponent in a Mr  
Blodget, a person whom I  
employed to reduce meteorolo-  
gical observations. He joined  
the Sewall school 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 present

I remain very truly  
your friend &c &c  
Joseph Henry

Dr. A. Gray

Smithsonian Inst

Nov 27<sup>th</sup> 1837

My dear Dr.

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

We shall depend on  
you for a course of nine  
lectures to begin any 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 dolls  
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 evening you arrive.

All the affairs of the Institution  
remain as I am I last wrote  
deaths and 12 had got on I suppose  
making an effort to attract 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. Gray

Smithsonian Inst

May 9<sup>th</sup> 1855

My Dear Dr

I have scarcely time  
before the closing of the mail  
to say that I have seen your  
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  
has 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 21<sup>st</sup> 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 be  
but it remains without a  
point. None over two papers

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

The whole <sup>printed</sup> proceedings of  
the committee were cooked  
by Upham and Sewitt.

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

J. H. G.

Dr. G.

---

} Given us 500 extra  
copies



Smithsonian Inst

May 24<sup>th</sup> 1835

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 <sup>with</sup>  
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

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

It was originally induced by an impure preservative  
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  
elbows 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, indeed 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 proper  
reply. A war of this kind is attended  
with a waste of thought and of labour  
and is <sup>productive</sup> ~~attended~~ with such an  
effect on the feelings as renders

to befitly undescrivable. 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 Morse. 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 7<sup>th</sup> 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 Feltow  
I shall endeavour to have a personal  
communication with them when I come  
on  
I remain as ever your friend  
Joseph Murray

Mr. Gray



Washington June 2<sup>nd</sup> 1835

My dear Mr.

Your letter of the 29<sup>th</sup> 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 subscrip-

to Professor Agassiz's work

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

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 support 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 endeavoring 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. Pease of N<sup>h</sup>.  
and shall start on Wednesday  
I find that the excitement to which  
I have been subjected by the  
got upon me and that I need a  
change of place in order <sup>to</sup> change  
my associations with kind regards  
to Mrs Gray I remain as ever your friend  
D. G. I. A.

Washington  
July 5<sup>th</sup> 1835

My dear Dr.

Your favour of the 25<sup>th</sup> was received at the Institution on the 29<sup>th</sup> 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. serv't.

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 Bucher 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 31<sup>st</sup> 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 her 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 shuffling among  
the men of science of Cambridge but  
there do not amount to much and as

far as I have any influence I shall  
endeavour to rectify 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.

Yours faithfully,  
Frank's Henry

Dr. Gray.



Smithsonian Institution,  
October 22<sup>d</sup>. 1855

Dear Sir,

Your letter of the 18<sup>th</sup> 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 obed<sup>t</sup> serv<sup>t</sup>

Prof. Asa Gray,  
Cambridge, Mass.

Joseph Henry  
Secy. S. I.

My dear D

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 Dorchester. 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 leisure give  
me an account of your town  
and any suggestions you have collected  
in regard to the Southronian.

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 22<sup>nd</sup> 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 thought 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 <sup>Journal</sup> 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 relative  
of Mr. Hale!!! The article  
in the <sup>Journal</sup> 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 the lovely lady and the young  
gentleman. They appeared however  
to enjoy this 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. A.

San Francisco June  
June 10<sup>th</sup> 1836

My Dear Sir,

I think it probable that  
an appropriation of consider-  
able magnitude will be made  
by the present Congress for the  
promotion of agriculture un-  
der the direction of the Commissioner  
of Patents. He will however con-  
sult me in regard to the expendi-  
ture and consequently I am  
anxious to give such advice  
as may tend to direct the  
operations into the most produc-  
tive 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 metro-  
logy of the Smithsonian Insti-  
tute.

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

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

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

6. To continue the investigation  
begun by Dr. Lewis C. Beck 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 condi-  
tion 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 agri-  
cultural 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.



Southwestern Scot  
July 1<sup>st</sup> 1836

My Dear Dr

Mr. Hunt of the Firm of Rice & Hunt of Philadelphia has just called to make enquiries 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 editors 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 that

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 understanding  
of the income on a narrow  
speciality.

I remain very truly  
your friend & servt  
Joseph Henry

Dr. A. Gray

Smithsonian Inst  
Oct 25<sup>th</sup> 1856

My Dear Dr

Your letter of the 22<sup>nd</sup> 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 require  
into the matter as soon  
as Professor ~~send~~ <sup>send</sup> ~~me~~ <sup>me</sup>  
is. 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 ~~re-~~  
tracts and I now send  
you by the ~~mail~~ <sup>mail</sup> ~~which~~ <sup>which</sup>

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  
Society 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 G & your  
self I am very truly  
your friend & am  
Joseph Henry

Dr. Gray

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

Prof. Brand 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 dolls.

Smithsonian Inst  
Nov 13<sup>th</sup> 1856

My Dear Dr

Your package of the 7<sup>th</sup> 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 that  
valuable and scarce work  
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  
18<sup>th</sup> and shall endeavor to  
induce Miss. Eliza Torrey to accompany  
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. exclusive of those  
used by persons connected with the  
Institution not more than one  
person in the course of a smooth  
visit 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  
ready for use shall I trust be  
able to bring up all parts of  
our operations to a good con-  
dition. The meteorology has given  
us the greatest disquietude  
but we have now commenced  
the printing of our results and  
<sup>we shall</sup>

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

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

Mrs. St. and the girls are  
in good condition and would  
be delighted to receive you



Smithsonian Institution

November 1st, 1836

My dear Sir,

The drawings I mentioned in my letter of the 23<sup>th</sup> 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 Asa Gray  
Cambridge, Mass.

Joseph Henry

in regard to those who  
have received the  
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.

25<sup>th</sup>

1856

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



50. ~~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  
really 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 your kind interest  
for I wish to conform with  
the law as 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. Rice  
at this season of the year  
to keep up with the cor-  
respondence.

Very cold weather with  
kind regards to Mrs. Gray  
and the congratulations of the  
season. I remain very truly  
your friend  
A. Gray  
John Henry

P.S. We send you a copy  
of the Report for 1856 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 27<sup>th</sup> 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. Deane 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. G.

Dr. A. Gray  
Cambridge



Washington July 27<sup>th</sup>  
1857

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  
house last evening -  
The city is now filling  
up and will be overflowing  
until after the change  
of administration -

Perrin'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 6<sup>th</sup> 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 ~~any~~ 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 <sup>up</sup> 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 propriety  
and hence no urgency.

As a beginning Congress at the  
close of the last session voted 17,000  
dollars for cases and for the transport  
and arrangements 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  
taxi drivers 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 A. Gray. (Remain as ever truly yours  
Joseph Henshaw)



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 1<sup>st</sup> 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. Our

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 <sup>soon</sup>  
be assured that I shall  
remain very truly  
your friend &c  
Dr A Gray Joseph Henry

Smithsonian Inst.

July 8<sup>th</sup> 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 Pearce



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 Henry

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  
July 3<sup>rd</sup> 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

and 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

To Mr. Gray  
Cambridge Mass.



Smithsonian Inst  
May 31<sup>st</sup> 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 1<sup>st</sup> 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 3<sup>rd</sup> 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 atlas of the United States.

I remain very truly  
your friend & servt

Joseph Henry

Dr A. Gray  
Cambridge Mass.



Smithsonian Inst

May 22<sup>o</sup> 1858

I am glad to learn  
from your letter of the 12<sup>th</sup> 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 Metamorphology 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 knowledge  
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 24<sup>th</sup> 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 1<sup>st</sup> 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 strengths of the  
different kinds of timbers.

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. 5

Smithsonian Institution,

Washington, D. C.

Sept 18 1858

Dear Sir:

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

"Flora Brasiliensis" editio 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 Rowley  
Cambridge, Mass.

Smithsonian Institution  
Jan'y. 13<sup>th</sup> 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 understanding if my memory is not in fault you proposed to publish the whole or a part in 1860. We have sufficient material to make up the 11<sup>th</sup> volume of the contributions and can make arrangements if you desire us to do so to devote the whole or a portion of the 12<sup>th</sup> volume to your work.

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



I suggest that we could work  
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 10<sup>th</sup> 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 farther  
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 reso-  
lution was introduced into the senate  
by Mr. Pearce in behalf of the Librarian com-  
mittee asking for a statement of all  
the facts 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 18<sup>th</sup> 1859

My dear Professor

Your note of the 16<sup>th</sup> 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 Bucke's  
with Judge Loring 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 almost 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. Loring. 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  
reaped 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 forthcoming  
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 22<sup>nd</sup> 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 civilisation 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 3<sup>rd</sup> 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 12<sup>th</sup> 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 enquire 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 &  
am as ever truly

your friend &  
Joseph Henry

Dr. A. Gray

Smithsonian Institution  
January 6<sup>th</sup> 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 19<sup>th</sup> 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 immediately to press the paper on Botany

I shall take into serious consideration your request



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 Appletons 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. A. Gray  
Cambridge.



Southwestern Inst  
April 17<sup>th</sup> 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 how she and your sister will make us a visit on their return from the South.

Dr. Baiche 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 10000 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 war relative to Darwin. I have looked  
over the article in the North American  
and think it childish in three parts  
and would 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  
Baker 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  
learn from Mrs. Hury and the girls <sup>that</sup> 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 publica-  
tions.

I remain very truly  
your friend

J. A. H. H. H.

W. A. Gray  
Cambridge.

Smithsonian Institution.

Aug. 14<sup>th</sup> 1860

My dear Dr.

I have received an application from Dr. Torrey for a set of duplicates of the Brachneridge ferns to be presented to him 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 in accord  
with the 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 <sup>objects in natural</sup> they  
<sup>history</sup> 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 Is there 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 5<sup>th</sup> 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 institutions 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 Mr Wright 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  
Joseph Henry

Dr. A. Gray  
Cambridge  
Mass.



My dear Dr. (1) Washington Dec 7<sup>th</sup> 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 <sup>of offices</sup> 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 undisturbed the whole matter will in due time be settled by the law of population and the conflict of Races. ~~It is~~ Suborn 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  
over trees and the pleasures  
of a visit from Mrs. Gray?

I am much gratified to  
learn that our friend  
Dr. Torrey has made so  
pleasant an arrangement  
with 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  
Dr. A. Gray Joseph Quincy



men. 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 nearly  
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 29<sup>th</sup> 1861

My Dear Dr.

In answer to your letter  
of the 26<sup>th</sup> 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



one time somewhat anxious that Mrs. H. 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 towers of the Lustration 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. 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 the number of



Smithsonian Institution

July 12<sup>th</sup> 1861

My dear Dr

I intend to leave Washington with my family for some place in the mountainous part of Penn<sup>a</sup>. as soon after Congress adjourns as I can get away. From present appearances the lawmakers 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 war-spirits may perhaps be referred to an out-crop 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 31<sup>st</sup> 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 Obedt. Servt.

Joseph Henry  
Secretary S. I.

Prof. Asa Gray,  
Cambridge  
Mass.

Washington Aug 13<sup>th</sup> 1861

My Dear Sir

Your very acceptable letter  
of the 9<sup>th</sup> has just been received and  
as I intend to leave this city on Thursday  
I shall make the enquiry as to the  
wharves of Capt. Rogers to day by  
calling at the house of his brother  
in law 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 state of

the appropriation for the North Pacific  
expedition. It is possible however

that you may obtain the information  
desired from Mr. Sturgeson who has

your note 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<sup>a</sup> 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 German town. When 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 are 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.  
McClellant 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 point 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  
suffered the soldiers. Their suffering is  
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 unfavourable  
state of feeling in Maryland or rather  
an argument that which does exist. 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<sup>d</sup> 1862

My Dear Dr

We have had little cross  
weather for a long time past. I know  
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  
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 Institute



others we have received from Denmark,  
and those presented to the institution,  
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

Dr. A. Gray

Joseph Henry

Smithsonian Institution

May 22<sup>nd</sup> 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~~ to  
we must somehow develope  
the summer?

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

Joseph Henry

Dr. A. Gray.

Smithsonian Institution

April 15<sup>th</sup> 1863

My Dear Dr.

I am glad to learn by your letter  
of the 10<sup>th</sup> that Dr. Torrey is on the Sunday  
ward. He left Washington in a feeble  
condition and I presume has been  
kept under by the bad weather of the  
backward spring. I trust however  
he will accustom to the opening of  
warmer weather and hope he may  
long be shared to his family and  
friends. We can scarcely hope 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 enquiries 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 appropri-  
ations 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. Caroline will write to Mrs Gray as soon as her mother 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 conveyance. 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

Dr. A. Gray your friend  
Joseph Henry

Smithsonian Inst<sup>n</sup>  
Nov 7<sup>th</sup> 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 condition, and the city, though crowded with people, apparently in a healthful 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.<sup>ia</sup> 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  
<sup>on</sup> 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  
notice 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 busy world  
around without fear of molestation or of  
[cold].



Southampton Dec 9<sup>th</sup> 1864

Dec. 9<sup>th</sup> 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. H. 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 <sup>though</sup> 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 <sup>ms</sup>  
July 26<sup>th</sup> 1864

My Dear Sir

Accompanying this  
note I send you an epistle  
which has remained in my  
portfolio for a long time.

Although the news which  
it contains may like that  
of the poet be much older  
than you are; still I  
trust you will accept it  
as an evidence of the fact  
that I had not entirely forgotten  
Mrs. Gray and yourself what  
ever 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 assaying 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 hope 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.

Israel Tenny has just this  
minute left our house for

Smithsonian Institution  
July 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 labors 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 decisions of the Lowell



Smithsonian Inst<sup>n</sup>

Dec 22<sup>d</sup> 1864 -

My Dear Dr.

We shall be very  
glad to see Mrs Gray and  
yourself at the time mentioned  
in your note of the 12<sup>th</sup> inst<sup>n</sup>  
and to receive from you the  
lectures suggested -

The times of the meetings  
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

2  
has just been almost constantly  
from home in attendance on  
a fair for the benefit of the  
orphan asylum of this city.  
Helen has not been able to  
take an active part in the  
management of the fair, but  
has been a liberal contrib-  
utor with her needle and  
drawing pencil.

Mary is still in Phil<sup>a</sup>  
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-  
siders a model animal, not  
so much on account of his  
physical as his moral qualities.  
He is stunted in accordance

with the true honest maxim  
"handsome is that handsome"  
With this animal and an  
old, but safe carriage, Mrs. Gray  
can visit Under <sup>arm</sup> Abouham, <sup>Abbey</sup>  
and all the other lions of this  
city. We expect some other friend  
on the <sup>occasion</sup> of the inauguration  
and look 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 J.  
and to Margaret Torrey if she is still  
with you. I remain as ever truly  
yours  
Do. A. Gray  
Joseph H. Storer

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 strike 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. Drumming 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 one  
[other]



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. 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 <sup>be</sup> 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 Seymour 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-  
tecting 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 per

S I Oct 31<sup>st</sup> 1866

My dear Dr

I am glad to learn from  
your letter of the 27<sup>th</sup> 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 none  
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 <sup>directed him</sup> ~~been 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 science  
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  
renown. In what way could  
public acknowledgments  
be <sup>best</sup> 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 sound the night  
we left Boston; but arrived  
in good time and in good  
condition in New York next  
morning.

Professor Paul has returned



After 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 relative  
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 8<sup>th</sup> 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 shake with  
him in regard to the affair in  
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 the Boston Navy yard and I would suggest that he is fully worthy both in regard to patriotism and business of an 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 opening 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 situation  
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 has directed  
me to sell stock and Treasury  
notes of which we have possession  
and thereby increase our capital  
at once to 550,000 dollars. After  
doing this we shall still have  
our fund undiminished to reconstruct  
the building without impeding our operations.

You have been very fortunate  
in all our money operations and  
have made a rather  
substantial increase than



reminded 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 Capital of the Nation:

One hundred thousand dollars  
have been appropriated to  
purchase the library of Mr.

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 set at rest the cavils of  
the friends of Mr. Swette, as to the  
violation of the law of Congress  
but 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 then 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

My dear Dr

July 28<sup>th</sup> 1866 -

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 superintendants 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 librarian and 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 <sup>The books</sup> 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 civilization, 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 1<sup>st</sup> volume contains but five  
papers <sup>contained</sup> ~~comprised~~ 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. Bacon, who since  
her husband was the first President,  
and because his fortune after

Smithsonian Institution

July 8<sup>th</sup> 1868

My Dear Sir:

The first intimation  
that I had of your going abroad  
was from Whitney who informed me  
that he had dined 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  
crosses 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 Bachus 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 Bachus in his annual address ascribing the authorship to myself. He has also sent me a copy of the 1<sup>st</sup> volume of the great scientific

index which I think will be of great importance to American savants in giving a conspicuous <sup>reference</sup> place to their contributions: for example no less than six volumes are devoted to Bachus's <sup>contributions</sup> 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 an suggestion of my own in a letter 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 ministers 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 in 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, 1869

My Dear Dr.

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; then hastened home where  
I found all the contractors waiting  
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 urgent for a report of the invest-  
igations on Spirit Meters and on the



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  
flans I have not slept more  
than four hours a night during  
the past two weeks. I have  
concluded to start the journal

Philadelphia, to visit 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



Smithsonian Institution

December 10<sup>th</sup> 1869.

My dear Dr.:

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 Station 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, Gen<sup>l</sup> Capron,  
 the herbarium of the Inst<sup>n</sup>, subject to certain  
 conditions, and the idea was also presented  
 itself, that the reports on forest trees <sup>might</sup>  
 also <sup>be</sup> 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 Inst<sup>n</sup>  
 for the advances it has already made.  
 I have spoken on the subject to Gen<sup>l</sup>  
 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 10<sup>th</sup> has come to hand since this letter was written

J. H.



Smithsonian Institution  
March 22<sup>nd</sup> 1870

My dear Professor

General Capron has referred your letter of the 19<sup>th</sup> 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 12<sup>th</sup> 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 evident 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 <sup>Directors</sup> Reports, at their last meeting adopted a resolution, 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 12<sup>th</sup>. 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 Henry

Dr. H. Gray

Smithsonian Inst<sup>n</sup>

My Dear Dr. March 28<sup>th</sup> 1870.

Many thanks for your letter  
painted with words of kindness,  
and of wisdom. It was received  
by the mail of Saturday 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 condolences 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 29<sup>th</sup> 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 crowd 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 <sup>by</sup> 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 Capital cannot be supported; while on the other if we continually petition Congress for an appropriation for the support of the Smithsonian museum <sup>we are</sup> continually bringing the Institution under the influence of Congress and will finally end in the Institution being obliged to furnish places <sup>for partisans</sup> 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 <sup>support</sup> 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 Inst<sup>n</sup>. It will be one of my objects abroad to solicit, through the influence of the Institution specimens of sculpture in ~~particular~~ <sup>plaster</sup> for the Comman gallery as well as to <sup>turn</sup> ~~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 Inst<sup>n</sup> I would use, all the  
influence I <sup>may</sup> 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, <sup>and</sup> with  
different heads; but this produced the Sewall <sup>embroglio</sup>



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 promote 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 <sup>in the eyes of some</sup> 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 in upon 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 each  
Port or at some other point on  
the coast, busily occupied with  
his fish collections.

All the affairs of the Institute  
are still in a favorable condition,  
largely as the last session ago, we  
received 15 ~~000~~ thousand dollars  
for the care of the museum, and  
the same sum for the improvement  
of the building.

I am informed by Mr. Bliss, who  
saw you at the work, 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. Bliss  
to assist in the arrangements of his lectures.

Give the love of his family and when to  
join me in the belief that we shall be  
his and yourself soon. Truly yours  
Jas. Smith

Smithsonian Institution

Oct. 10<sup>th</sup> 1872

My dear Dr Gray.

I enclose a letter from a gentleman  
of this city who has devoted a considerable  
— 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.



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 15<sup>th</sup>. 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 our  
country. You must have greatly im-  
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 con-  
struction of the Rail-Road! It is one  
of the wonders of the world. Landing  
on the look-outs can over the Sierra  
Nevada. I felt like "assuming  
the God affecting to nod and  
seemingly to shake the chimes" 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 here yesterday. Henry and Arthur  
are in New-York but expect to return



of making an annual appropriation for the full support of the National Museum.

At the season which has just closed it 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 7<sup>th</sup> 1873

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 intensity cold storm 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 much 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 <sup>the</sup> 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 Inst<sup>n</sup>

April 7<sup>th</sup> 1873

My Dear Dr

Mrs. Gray arrived at the  
Washington Depot within a minute  
of the time the train was due, namely  
at 5<sup>h</sup> 35<sup>m</sup> 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



sister 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 the  
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. 10 - 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 where  
we shall take our flight  
for a more southern line



I am obliged to be  
in Washington on the  
15<sup>th</sup> in order to be prepared  
for an important meeting  
of the Light-house Board  
on the 17<sup>th</sup> 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 Benjamin Coffey  
of the Lehigh University. I know  
Coffey and do not anticipate  
any difficulty or uneasiness  
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 do Joseph Henry

Smithsonian Inst<sup>n</sup>

Jan<sup>y</sup> 17<sup>th</sup> 1874

My Dear Sir

You have probably seen  
by the newspapers, that you  
have been elected 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<sup>y</sup> and Feb<sup>y</sup> to settle the accounts and present the reports and after that one in March

or April to discuss of any <sup>other</sup> business which may require the action of the board.

We have lost from the board two of our most important members namely General Joseph and Judge Poland from the House. I'm shaken 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 14<sup>th</sup> 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 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, <sup>resigning</sup> 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.

Davis 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 result 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 Parson 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 9<sup>th</sup> 1874

My Dear Dr Gray

Your letter of the 31<sup>st</sup> 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. We 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-



- drafts as soon as it is ready  
for the press.

We shall expect you  
to be present <sup>at</sup> ~~of~~ the meeting  
of the Board on the 25<sup>th</sup> and  
shall <sup>call</sup> 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 27<sup>th</sup>. I shall write to  
the Chief Justice in regard to  
this

Smithsonian April 14<sup>th</sup>/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 27<sup>th</sup> at 10 o'clock A.M. The Chief Justice informed us that he could not attend on Saturday the 25<sup>th</sup> 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 H. H. H.

his ~~express~~ parcels 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 Jersey City in about a week.  
Be sympathetic with Mrs Gray and yours truly in your sor-  
row.

J. H.

Smithsonian Inst<sup>n</sup>

June 15<sup>th</sup> 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 severely 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 hope 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: 12<sup>th</sup> - 1876

My Dear Doctor Gray:—

The first meeting of the Board of Regents will be on the 19<sup>th</sup> 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 26<sup>th</sup> when we shall expect you to be present.

The meeting of the 26<sup>th</sup> 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 6<sup>th</sup> 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 Academy for the evening a 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 <sup>was</sup> 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 Light House Board at Staten Island.



all the operations of the Institutions are going on as usual. We have published the 20<sup>th</sup> and 21<sup>st</sup> 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 entertained that a deficiency appropriation will be granted for bringing back the specimens, and for making the duplicates 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 immediate 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~~ <sup>former</sup> will be in danger of falling into difficulties, <sup>and</sup> 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, <sup>an</sup> 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 Life-House I do not state Island and a week in Philadelphia in attendance <sup>national</sup> on the meetings of the <sup>Academy</sup>. 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 discouraged 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. Some 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 furtherly 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 John Hopkins Uni:  
SMITHSONIAN INSTITUTION,  
iversity given to Professor Sylvester  
Washington, D. C., 187  
It was a very interesting occasion  
and gave me an opportunity to be  
come 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  
showing of its funds in the way of building.  
It has purchased to brick houses ad  
joining each other, and converted them  
into one with all the studies, offices, lab  
oratories and lecture rooms necessary  
for the most extended instruction.

Twenty fellows have been appointed  
with salaries sufficient for a com-  
fortable 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 kind regards to Mrs Gray I am as ever truly & warmly  
Yours  
Joseph Henry

but thus far been taken under  
the direction of President Gillman  
whom I think <sup>is</sup> an excellent organ-  
izer 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 easily 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  
unwise use of the government to make the  
usual appropriations and the consequent  
discharge of a large number of clerks. Should  
Fildes be elected a still larger number  
will be dismissed. Otherwise Fildes  
is thought to be a man of intellect and  
that he will, if elected, well manage our  
affairs for the better interests of the country.



musium. 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 left - the light of the house  
had departed with Mrs. Gray and  
our darling niece. You were all  
missed in Washington. The papers  
announced your departure and  
although <sup>the</sup> Smithsonian was not hung  
with black a dark cloud hung over  
it.

Joseph H. ...

Smithsonian Inst<sup>on</sup>

Feb<sup>y</sup> 15<sup>th</sup> 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 connected, and especially  
to having the new building put 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 place 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 <sup>Plan</sup> 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 <sup>in</sup> having the two buildings united, but has given up the idea of placing the new one in the rear. Mr. Howells 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 central 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<sup>n</sup>  
Oct 11<sup>th</sup> 1877-

My Dear Dr. Gray

In answer to your inquiry  
of the 8<sup>th</sup> 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 had the drawings of Habak's paper prepared for

the engraver, but not without considerable trouble. We ~~was~~ 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. H. Young

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. Wheeler

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 Princeton.

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 Uchneider & 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 1878)  
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  
in 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 <sup>neighboring</sup> 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 Barker  
and Mr Esby, (the "Storm-king")  
Two of us faced inward  
as respected the line

between the two plugs  
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 unperceivedly on;  
& though three of the  
four observer men named  
are dead)

The observation 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 <sup>of these times</sup> somewhere in  
the Proceedings of the  
American Philosophical  
Society, date about 1835  
Almost none of the  
accounts of Prof. Henry  
experiments say any  
thing about those on  
the magnetic intensity.  
He had obtained from  
Hansveen a needle  
which had been vi-  
brated in Norway by  
Hansveen himself. It  
was my privilege to  
cooperate with him in  
the observations which he  
made with this. Prof.  
Henry 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 C. Walker when he  
assembled the wire before by  
making the pendulum-ex-  
periment.)


Prof. Henry previous to  
his engagement as Parole  
Tutor in Gen. Van Rensselaer's  
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 co-operated  
with me in the observa-  
tion of the annular eclipse  
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. <sup>to</sup> 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 of  
lead acting as a syphon.  
(wire was about 20 thick)   
I exhibited the same in filtra-  
tion with the mercury  
frequently to successive 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~~ <sup>may</sup> 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. And in case - I do not think  
the family will be altogether  
pleased with the appointment  
of Prof. Newson as the <sup>Memorialist</sup>  
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. Henry's magnetic  
Experiments see *Scientific*  
*Journal* and also the  
*Smithsonian Report for*  
*1857* under the head  
of *Proceedings of the*  
*Academy*; in which the  
whole of what we may  
term the Morse matter  
is exhibited; ~~and~~  
as well as the progress  
of *Electric-Chapmanism*  
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. Maxwell  
to refer you to certain  
portions of it — charac-  
teristically clear, and  
deeply conscientious to  
the last as to the ful-  
filment 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 G. 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 professor's communication on the subject must I think have

I do not think that Professor Bushnell  
must 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 <sup>is</sup> 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