

Boston March 15, 1869
Mr Peter Cooper

Dear Sir

I notice in the papers of this city that you have given the Cooper Union \$20,000 to be applied to the purchase of a complete set of mechanical models illustrating every conceivable form in which power can be applied to machinery. The models to be purchased in Darmstadt Germany. I was very glad to see so good a movement made in that direction at your Institute. I have been at work for several years in connection with our Technological Institute here, to get up a Library of models of the elements and the simple combinations of machinery, and have been collecting together sketches and plans of such elements and combinations as are not generally known to inventors and constructors of machinery, in order to make a complete Encyclopedia of every

mechanical element and combination of
machines, the general ^{Plan} of which is described
in an article in the Scientific American of
Feb 13, of which I send you a copy

We have many models from Germany and are
ordering more of regular machines to aid in
teaching and illustrating to our pupils, such as
steam Engines Mining machinery, water-wheels of
various ~~kinds~~ kinds, Pumps, Cranes, hoisting mach-
ines &c &c but I believe they have never given
their attention to the getting up of a classified
set of simple elements and combinations which
is very different from regular machines, and
that is what I consider of the utmost import-
ance to our inventors and constructors of
machines, as much so as the dictionary is
to ~~the~~ the author or any one just learning
our language, and as much the largest
part of those elements have been of American
invention and are not known in Germany, and
are being invented every day. I thought that it
would be by far the best way to build the
models ourselves, and then they could be made
on a proper scale and style of finish &c and

have commenced building them accordingly
and I thought perhaps if your Institute
should adopt the same plan in part, that
some arrangement might be made to make
duplicates in which case it would cost much
less to both parties, for instance as a gener-
al thing, a model that would cost say \$20.00
could be duplicate for ten, the expense of what
drawing ^{the} ~~the~~ ^{mes} necessary and the patterns for cast-
ings ~~the~~ would be saved in making the duplicate.

I have rec'd many letters from different individ-
uals since my plan appeared in the Scientific
American speaking in the highest praise and of
the great usefulness of the enterprise, and offering
to give any assistance in their power to carry
out the plan to the greatest perfection, and
would forward sketches and descriptions of such
elements as they had invented or had seen or
knew of, that was not generally known.

Should be much pleased to hear from you
or some of your people that take the most
interest in the matter.

Yours most respectfully
J. P. Pezgles

Abram S. Hewitt Esq.

Dear Sir,

Mr Ruggles tells me that he has had some correspondence with you about his plan of making a collection of the elements of machinery. I have been much interested in this project ever since Mr Ruggles first broached it five or six years ago, and I take the liberty of writing to you about it in the hope that by the cooperation of several Institutes or Schools the plan may be more fully carried out and made more widely useful than was at first imagined. I have seen the Darmstadt models. A part of them are of somewhat the same nature as those which Mr. Ruggles proposes to build; but the great majority are models of

machines or implements. You will doubtless agree with me that American models are to be preferred to German, and new models to those of twenty or even fifteen years ago. The question is how to get the American models designed and made. This is the point on which I want to speak. Mr Ruggles is a practical inventor and constructor of machinery who has made himself independent by his inventions. You have perhaps heard of the Ruggles Press or the Ruggles Hand-stamp. He is thoroughly acquainted with American machinery in all departments, and has a quick eye and clear judgment about mechanical problems. He has acquired this knowledge and power, not from books, but by long experience in the shop and much practice in inventing. He is well known to scientific men here, and

is a member of our Academy. He was appointed Curator of the Museum of the Institute of Technology four or five years ago; but the Institute has heretofore had no money to appropriate to its Museum, and Mr Ruggles has had to wait.

Now however there is a strong probability that money will be appropriated to this object, and the cooperation of the Cooper Institute would be very timely and acceptable to Mr. Ruggles.

The most obvious, though not the only plan is to start a small shop with a few good workmen under Mr Ruggles's charge. If several sets of models were made at once, each set would be much cheaper than a single one could be. Moreover the work of collecting sketches or descriptions of elements not generally known would be facilitated if the two institutions combined

to do it. It should be said that Mr Ruggles
wants no pay or other consideration. He would
give his time and inventive power to the work.

I am convinced that he would produce a
unique and admirable collection of elements,
greatly superior to anything which can be
bought abroad, and thoroughly American in
conception and execution.

Hoping that you will take an effective in-
terest in this very promising enterprise, I am

Very Truly Yours
Charles W. Eliot

Prof. of Metallurgy.

Institute of Technology,

6 Apr. '69. Boston.

1869
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Chas. W. Eliot Esq
Prof. of Metallurgy
Institute of Technology
Boston Mass

Boston, Feb 9th 1869

Phil^a
 Phil -

Dear Mrs Rogers:

I was delighted to learn from your last of the President's great & positive gain in health; & I can well imagine the joy you must all experience after the many long days of anxiety.

Our examinations are all over & the records made up - which are upon the whole quite satisfactory. We lose 4000 of the 1st year, fewer by half than last year.

The balance of the class is good material & the upper three classes

have an unusually well
 the Pine drill went off
 finely - but of this I sup-
 pose you have had a
 full account from Miss
 Cushing who told me
 that she would report
 to you.

The diplomas have
 not come quite as soon
 as I expected. The
 engraver was delayed
 two weeks by an unex-
 pected change of ship.

We shall get ^{them} ~~it~~ this
 week & send to Mr
 Rogers at once. I
 am glad that the
 graduates are to
 have the satisfaction
 of his signature to
 the diploma -

Every thing is going

on well so far as
 Cambridge -

The Lowell courses are
 all nearly closed.
 Mr Lowell has paid
 the \$3000 & those
 who have done the
 work are enjoying
 them.

The weather is delight-
 ful here, & I hope for
 Mr Rogers' sake it is
 also in Phil -

You can not know
 how much I want
 to see him. | Tell ^{Preedy Rogers} him
 it will be one of the
 memorable days in
 my life's calendar
 when I take him
 by the hand again.
 All the Faculty are
 delighted to hear of his

rapid improvement —
Mr Watson said it took
the Phil Physicians to find
that the disease is
"Instituted on the Brain"

When you can do so
please let me know
how the President
is doing —

Mrs R send her
love - We are all well.

Give my best love
to the President & believe
me ever

devotedly yours
J. D. Kunkle.

Regards to Mr Rogers —

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MASS. INSTITUTE OF TECHNOLOGY.

Boston, Apr 8 1869.

Answered April 12. "

Dear Mrs Rogers-

The diplomas
came safely to hand, &
I was glad to see the
familiar hand-writing
without a trace of
nervousness, or anything
to indicate the illness
of the past few months.
The weather is becoming
settler & Spring-like,
and I trust Mr Rogers
is experiencing the
good effects of these
balmy days. So far
as I can judge Insti-
tute matters are going
on well. The Agricul-
tural Coll, & Worcester
School bills for aid

(\$50,000 each) have passed the house, & the Worcester bill came up in the Senate yesterday, but did not reach a vote. If these bills go through the Senate our friends feel quite sanguine that they can carry us through. I send you a copy of our memorial; & will also send you a copy of the report of the Committee as soon as made. I have written the report & put into the hands of the Chairman of the Com. to use in whole or in part, just as they choose. Nothing is likely to

come of City Cooperation for the present.

We are gradually getting our orders off for the Model in the Engineering departments.

The great building for the Musical Festival is rapidly going up, on St James Square, just beyond us, & is drawing thousands of people in this direction. The frame (500 ft x 300 ft) is already up, & the roof will begin to go on in a few days. It will be done before June 15 without doubt; & then look out for a big noise. The Overseers met yesterday, but did reach a

I believe Mr. Sizer should talk his & yours. J. D. Brewster

vote. No opposition was developed, & Prof E will be confirmed without doubt.

It will be a loss to us, but it will also be a gain to have a President at Harv. who believes that the mission of the two institutions is distinct, & that there should be no jealousy, or rivalry between them. You shall close up this year all right with the aid he will give us, & it may be that we can do the work well by using our own graduates, & for the present at least, cut down the expense of the Chemical department somewhat.

At any rate the question will not press for the present.

Give my best love to the Pres.

All well at home

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MASS. INSTITUTE OF TECHNOLOGY.

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Phila:

Boston, April 24, 1869.

Dear Mrs Rogers -

I have been trying for some days to get a spare hour to answer your last kind letter.

Saturday is my day for bringing up arrears, so that I can begin a new week even, & not feel that I am carrying an extra load both on my back and conscience.

You may not have heard that Prof Eliot's nomination was referred back to the Corporation, which means rejection. I do not think that the Corporation will recede, & the chances are in favor of his confirmation next time.

Every one was more surprised at this result than they were at the nomination. The imperturbable Eliot is somewhat taken down by this rebuff.

The objections raised, so far as I can learn, were that he is a Collyer & not an Universal man; that he is a liberal in religion; that he is not sympathetic; that he is too young; that he is opposed by the Peirce & Gibbs wing of the faculty &c.

We are all getting on well. Picketing sent word yesterday that he did not feel quite well, & should stay at home a day or so. I am more & more impressed with the

great treasure we have in him. He has drawn up in quite full detail, a Plan for the Physical Laboratory, which I will send you before long.

I have had it put into type in order the better to submit it to the consideration of a few persons for judgment & advice. Picketing is very anxious to be ready by Oct next to instruct the 3^d year class of Laboratory work, & if our experience of one year shall be favorable, and feel it must be, we can then gradually enlarge our facilities, & take in the lower classes. I am convinced that

in time we shall order
to give the instruction in
Physics just as has been
done in Chemistry.

Find that Cornell Un
Catalogue stated that a
Physical Laboratory is in
early contemplation; and
I also learned that Gibbs
intends to open one in
Cambridge. Now you know
that this idea belongs to
our dear President, and was
one of the prominent features
of his plan of the School of
the Inst; & I can not en-
dure the idea of some other
School first putting the
idea into execution.

I know, if he were here,
he would encourage Pick-
ering as I am doing.

You are now designing the
tables & finding what
apparatus we still need to

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MASS. INSTITUTE OF TECHNOLOGY.

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Boston, 1869.

over a good course of experimentation - As soon as these questions are settled, & we see our way clearly, we may print a short supplement to our 4th Annual Catalogue, just as we did to the third, to announce it Architectural courses.

I am sorry to tell, what I presume you will be prepared to hear, that our bill for aid from the State has failed with the many others of the same class.

The Com. reported in our favor, giving us \$30,000 provided we would raise a like sum, which our friends thought we could do.

All the applications were re-
fused simply on the ground
that the state tax is al-
ready very large, & bur-
densome to the people.
I am not discouraged
by this failure - We shall
find some way to meet
the coming year, &
I am certain that a
Kind Providence will
watch over us in the future,
as in the past.

If we reach 200 students
next year, as I hope we
may, we shall be able
to meet current expenses;
although they may exceed
those of this year.

The President & yourself
are both very kind to think
of my health. I am very
tired & anxious for the ^{vacation} for the

[April 24, 1868]

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Tell the President that
Baker, Carson, Edwards,
Nichols, Libbets and
Whitaker will be candi-
dates for graduation, & that
I see no reason why they
will not pass.

Bowditch has decided to
remain another year, &
will probably not apply,
although I understand
he thinks he might be
able to pass in the Depart-
ment of Science & Literature.

Gelitt and Sattmarsh
have dropped too many
of their studies to pass
without making them
up, which they may de-
cide to do.

I suppose that the examin-
ations of the graduating class
will begin on, or before,
the middle of May.

The intention to give all the classes time, and not overwork them.

Our dear Kittie is just getting up from the scarlet fever - She has had it lightly, & we hope it will leave no ill effects. Our anxiety is now about our chubby boy. A few days more will settle whether is to have it now.

We have kept him out of Kittie's room, but it will be a wonder if he escapes. Prof Rutwell & wife, & also Prof Watson, think serious of going abroad this vacation. Mr Ross & his son sail early in June. Dr Knuland did think of going, but has

given up the idea -

My wife joins me in best love to yourself & Mrs Rogers. I was glad to hear this morning that you have secured a house at Newport for the summer. Prof Eliot is looking for a home for the summer, & asked me about your house at Lunenburg, which I could heartily recommend to him. I am afraid he will think it too large for his family. I am sorry that I could not have filled these sheets with more cheering news - I have done all I could to make it better; & at any rate nothing has been lost at the State House if nothing has been gained.

I trust that this warm weather is proving beneficial to the President's health, preparing him for his journey to Newport, when he will drink in from the sea-breezes copious draughts of health and strength.

kindest regards to Mr. Paine.

I have our consolation in sending you this letter, & that is, that you will take as much time as you like to read it.

Give my best love to the President, & tell him that I am looking forward with the greatest anticipations to loafing on the beach with him this summer.

I am going to take a big rest & want him to help me.

Ever you devotedly
J. D. Puckle

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B. S. [unclear]
MASS. INSTITUTE OF TECHNOLOGY.

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Boston, April 28 1869.

My dear Mrs. Rogers:

Your very welcome letter was received this morning, giving such cheering news from our beloved President, and with the proof of his improvement as evinced by his letter to Mr. Thayer. It seems that the money had been already paid by Mr. Thayer to the Treasurer, for the pupils whose names I sent you; but I sent the note to Mr. Thayer, knowing that he would like to see the familiar handwriting of the President, and judge how much better he must have grown.

Disappointment is our lot in this world; I continually see the truth of the old adage, "L'homme propose, et Dieu dispose".

Our petition for \$50,000 utterly failed in the House; it is said, chiefly from

the attacks of Boston members, notably Mr. Jewell and Mr. Avery Plummer, both members of the Society of Arts - "et tu, Brute", which may freely be translated, "and you, ye Brutes".

The money, therefore, not forthcoming, my European trip fails, as I had expected to purchase with a portion of the money some models of Anzou, necessary for the department of Natural History and Physiology. And here again I find that "whatever is, is right", as I think very much of "Proverbial Philosophy", though not of Mr. Tupper's. If I went abroad, I should leave my family, now, without any one to look up to in case of domestic or other calamity, as my brothers-in-law, both in Europe, will not return till August, though they were expected in May. So I am quite content not to go this year, and perhaps may go next year, unincum-

bered. Besides, I think, it may be of special advantage to the Institute this year for me to be at my post, as a crowd of citizens and strangers will go daily in front of our building, and many will enter, and examine, and ask questions. The "Peace Jubilee" will advertise us extensively, and I wish to be on hand.

I fear Prof. Eliot will not attain the position of President of Harvard; the matter was referred back by the Overseers to the Corporation, which many think equivalent to a request for a new candidate, and consequently to the rejection of Mr. Eliot. I understand that his chief defects were: youth, liberal theological opinions, aristocratic Boston connections, and similar disqualifications.

The Spring in Philadelphia must be delightful, and highly favorable for the President's restoration. I

am very glad that you are to pass the
summer at a distance from a gay
watering place, as I think perfect
quiet of mind is the one thing ne-
cessary to restore to us our Presi-
dent.

The prospects for the next year, judg-
ing from enquiries and demands for
catalogues, are good. Mr. E. B. Bigelow
has given \$1000 for the purchase of mod-
els in Prof. Watson's department, &
probably more will soon be subscribed
for the purpose. Mr. & Mrs. Buckwell
sail for Europe June 5; I think
Prof. Watson also will go.

I showed your letter to Prof. Rumple,
who was, as far as may be believed,
delighted to hear of the President's good conduct.
 Hoping that he will surely and rap-
idly improve, and perhaps be with us
in the Autumn, and with my love to him,
I am yours truly S. Kneeland

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X



Commonwealth of Massachusetts

Senate Chamber,

Boston, May 27 1869

Dear Sir,

The following order
has been sent to the Committee
on Claims

"That the Com. on Claims
be requested to enquire if the
Commissioner and principal
agent appointed by the State
to attend the international
exhibition, at Paris in 1867
have made their final
reports + settled all claims
growing out of the connection

which the State had with
said exhibition; and also
if all moneys appropriated
by the State and advanced
to said Commissioner and
principal agent have been
accounted for by said Com-
missioner & principal Agent."

Will you have the kindness
to communicate to the Committee
any information you may
have on the subject on or
before Tuesday next?

Yrs &c

H. H. Coolidge
Chairman

Prof. M. B. Rogers

May 28 1864

My dear Mrs Rogers

I would not trouble
the Prof about this
matter, but if you know
the facts desired I will
send them I will
send them to the
Comm: or you can
write directly to the
Chairman

Love to all

Ever yours

J. D. Puckle

Held an interesting annual
meeting last eve. The Prof's
letter was received with
great enthusiasm

My dear Mother
I received your kind letter
of the 10th of the month
and was glad to hear
from you. I am well
and hope these few lines
will find you the same.
I have not much news
to write at present.
I am still in the
same place and hope
to stay here for some
time. I have not
heard from you for
some time and hope
you are well.
I have not much news
to write at present.
I am still in the
same place and hope
to stay here for some
time. I have not
heard from you for
some time and hope
you are well.

X
Cambridge May 27 1889

My dear Sir;

I have the pleasure to inform you that you were selected the Corresponding Secretary of the American Academy at its annual meeting on Tuesday.

Inclosed are certain notification papers which require your signature. Please return them to Dr Francis Dana at the Hall.

Very truly yours
Chauncy Wright

Prof. William B. Rogers

Newport R. I.

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MASS. INSTITUTE OF TECHNOLOGY. X

Boston, May 27 1869.

Newport.

Dear Mrs Rogers-

The Annual meeting of the Academy was held on Tuesday last, when the Prof. was selected corresponding Secretary.

If you think that he will never desire to resume this duties, a letter declination had better be written, that the place may be filled at the adjourned meeting. Business is accumulating and some one must attend to it. Best love to all.

Ever yours
L. D. Runkle.

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Cambridge May 30 '69

Newport.

My dear Mrs Rogers,

My work for the year is
over and I want to write a little
account of myself and my doing,
but as you can show to Mr Rogers
at any time when he would interest
and not fatigue him to read it.
Out of sight he is not out of mind
with any of us and I do not feel
as if my duties were quite over
till I had made my report to
my Prudents. I am the more
interested in doing it because
I have been taking the responsibility
in the management of my depart-
ment of departing from many
time-honoured traditions and
have been compelled by the novelty
of my position to try experiments

fairly because I had not fully worked out my
plan. So I wrote patiently down things better
as I got more experience, and straight way wrote
great satisfaction that the best fellows were getting
more and more interested and attentive in
proportion as I worked with greater freedom
and confidence. At the Examination I ventured
to ask the older Classy to give an opinion and
also to show me all they have done in the way
of note-taking as well as theories and the length
they required me. They bring me blank-books
one 9s pays another £20 another three volumes
and the theories of the three slays are many of
them nearly and thoughtful discussions
of important subjects. Cabot (Belau) writes

Sometimes with many misgivings
as to whether I should be strong
enough to carry them out. He much
wishes to be well mounted and would
keep the pieces of custom the
Spanish pivot case, and we
cannot always tell what kind
of a case we use till we try him.

My doings have been mis-
perceived enough but as the results
come in I am more and more
encouraged. I find I have got
a hold on most of these young men
even stronger than I supposed.
At first it was inevitable both
that I should blunder and they
should misunderstand and
I saw that some of the best fellows
had the least faith in me. I
saw that it was partly because
they did not fully understand
what I was aiming at and

I used to think that the larger part of the class were not very much interested in the subject that you lectured on but on a closer inquiry of quite a number of the class I find that I was entirely mistaken. The class I think would sooner be any one of four or five different branches taught in the Institute than the English Comrade's works. I suppose I shall like Pittier's Economy well enough next year but I hope you will not discontinue your history and your comments on ^{the} political affairs of Europe and America. This class voted almost unanimously for an extra hour with me next year if the Faculty would grant it, which they have done. I find much the same spirit in

[May 30, 1869]

the other classes.

You will acquit me I know of vanity and egotism in all this. Nobody knows better than I how imperfect it has all been at the best, and I have had a great deal too much to do to be able to do it thoroughly and as it should be done. I am of necessity Professor not so much of English literature as of English Things-in-General. But I have gained our capital points. I have gone a great way in securing the interest and the confidence of the great body of the students, and have not been obliged to fall back upon any cut-and-dried professional ways but have carried out my own idea of how to address these fellows in a way to do them some real good. I send you an

a man to me an American who has studied
with him and in Germany. I have not yet
seen him.

Next year the White Leg of the
Board of Education has promised me some
lectures on the Constitution which he is very
competent to give and Gov. Washburn says
he will come with great pleasure in attending
an lecture of mine at Framingham and
give the fourth day some lessons on the last of
his days. - Certainly exchange it. My brother or
Mr Sidicott will lecture for me on Currency and
monetary affairs and with their consent
I shall see I hope to make the English department
still better another year. It is all informal

unpublished examination - paper
drawn from the rec. record of
my lessons. To have printed the
whole would have made a
stout pamphlet but I have
elaborated the history a little
in answer to many calls to tell
them what to read. I am
afraid it will be hardly intel-
ligible to any but the student, so
many things are mentioned
merely as reminders. I decline
to make "courses of reading." I
tell them I would as soon make
courses of dinners for them.

In place of Mr Kraus
Mr Röcher and I are looking
for some assistant who under-
stands modern Comparative
Philology and can help both
of us. My friend Prof Whitney
of Yale has mentioned such

and do not commit us to anything.

I write of my own affairs because I know you hear of general matters from Runkle. We have reason I think to be very well satisfied with the writer's work.

Of course you will have heard of Enos's Election. I think he has a fair prospect of success and will be more in place than those with us. He is a good organizer and a good worker and will put more life into the old machine. But I don't believe he will organize a revolution and I am not very sanguine about putting new wine into old bottles.

Give my affectionate regards to Mr. Rogers and believe me yours also with sincere regard
W. R. Atkinson

Boston, June 6 1869.

Newport

My dear Mrs Rogers.

You can hardly realize the sense of relief I feel this afternoon. This morning the last faculty meeting of the session was held, and all the work of the past year together with the admission & examinations are settled. There were six applicants for graduation, and four of them passed: viz, Whitaker, Edmonds, Nichols and Larsen. Baker & Libbetts not. In the case of Libbetts I think the result was just, but most

unjust in the case of Baker. That hateful prejudice which gave us so much trouble at the last graduation, this time carried the day - and if the President were here I should decidedly advise him to carry the matter before the Gov. and get Baker his degree.

There were 33 applicants for the new class, 30 of whom passed. This is quite as many as I expected, from the fact that this examination is some six weeks before the close of the

High Schools; and teachers wish to send their boys as well prepared as possible.

Tell Dr Rogers that I want to see him - I suppose it is out of the question for the President to talk over Institute matters; but I want to see some one to compare notes with & get advice.

I know that it will not answer for me to see him at your house; but I will meet him any day he will name at my house at New Port.

There is an Academy meeting to-night, when

I will attend to Mr
Ryers's resignation.

There are many more
things I want to say,
but not now.

We are all well.

Give my best love
to the President & tell
him that I hope
the sea-air is doing
him all possible
good. With love to
all, I am as

Ever yours
J. D. Runkle.

Our drill went off
finely

8'

MASS. INSTITUTE OF TECHNOLOGY.

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Boston, June 12 1869.

Newport.

My dear Mrs Rogers-

Yours of the 11th is at hand. I know that it would not answer for me to see the President, and as ardently as I desire it, I trust that you will be over careful in allowing me or any one else to disturb him. One of our students, Herrshoff, of Bristol whose brother makes the famous yachts wants to call at Newport and take the President on a short cruise. I told him that I would notify you of his wish, & as soon as the Pres-

dent is able I would
write him. This brother
is blind, & yet is
one of the best de-
signers and work-
men. I have not written
you about the Physical
Laboratory, because I knew
that this was one
of the things which
should not be brought
to Mr Rogers' attention.

I have had two motives
in taking the step now-
first, other institutions
are moving in the
matter, & I heard pri-
vately that Prof Gibbs in-
tends to attempt something
of the kind soon, and
second, Pickering had
become deeply inter-
ested in it, and it

would, in my opinion, have
been unwise to have dis-
couraged him when the
success of the Laboratory
depends so much upon
him.

The idea belongs to
the President, & we ought
to be the first to put it
into execution -

The Gov. at the Annual
Meeting, selected me
to ^{the} place I now hold, for
the coming year, or un-
til the President wishes to
resume his duties.

I am happy to say, that
so far as I know, every
member of the Gov. has
treated me with all
confidence, & feels entirely
satisfied with what I
have done during the year.

They have only followed
the example set them
by the President, to whom
I render a confidence
I am indebted for the
distinguished post I
hold. I am very glad
that I shall have an
opportunity to discuss
the whole subject of
the coming year with
Dr Rogers. He will
be able to judge to
what extent I am
carrying out the policy
of the President.

Give my best love to him
& believe me

Ever yours

J. D. Runkle.

I explained the matter &
gave in the President's signature.

Judge Ogilvie is in Sumner

N. H. MASSIE, Presd't.

A. P. ABELL, Vice Presd't.

B. C. FLANNAGAN, Cashier.

Charlottesville National Bank.

Charlottesville, Va., June 12 1869

Prof M. B. Rogers

Dear Sir

I send you under cover duplicate deeds which will not need explanation, as you have doubtless been informed of your appointment as Trustee for the purposes mentioned.

Please acknowledge before a Notary Public, that being necessary under our laws in order to be admitted to records.

When you have completed the signature, you will be kind enough to return the papers to Rev. R. M. Manly, Supt. Education, Richmond, V.C.

Very Respectfully

A. P. Abell

Faint mirrored text at the top of the page, likely bleed-through from the reverse side.

June 12 '69

Ⓟ

~~Mass. Institute of Technology.~~

Boston, June 25, 1869

Newport

Dear Mrs. Rogers.

I hope the Prof-
 continues to feel the good
 effects of the sea-breezes of
 New Port. It is some time
 since I have heard - but
 I take it for granted that
 no news is good news.
 I have not yet heard
 from Dr. Rogers, & suppose
 that he did not get to
 the Jubilee - On Wednes-
 day next we give up our
 house in Boston (lease
 expired) & go into the
 country, Oxford, Mass.

Oxford is near Worcester, & the family we know will - I shall be able to get down during the summer as often as is necessary - Kneeland intends to remain here, & one or the other will keep close watch of matters.

The Scientific Association will meet in Salem in August, & we have arranged to have them visit this building during the session.

I shall be glad if you can drop me a line telling me how the Prof is doing, before next

Wednesday, for I shall not be able to leave at all happy without hearing from him.

I need not tell you how much I want to see him - but know too well that it might be the very worst thing which could be done.

Give my best love to him & all the family.

Tell him that I took my first rest yesterday with wife & babies on Chelsea Beach. Dr J. H. Arnould, of Albany has just paid us a visit, &

was delighted. He
says he saw nothing
to compare in his
trip abroad.

Our Mechanical Engi-
neers are spending
their summer in the
Machine Shop of the
Navy Yard. by the kind
permission of Com Rogers.

A splendid opportunity!

Ever

Yours devotedly
J. D. Runkle.

Oxford
Boston, July 4 1869.

Newport

Dear Mrs Rogers.

I was very glad to get your letter just before leaving Boston, & learning that the President is still gaining ground. May he continue to do ^{so} more and more rapidly. If I could only have one hours Conference in regard to plans for the coming year I should be satisfied - But as this can not be, I must do what I think he would under the same circumstances. You know that it is often fatal to throw away an opportunity; & I feel that just such a case has arisen. You already know that from a pier

on the top of our building a large number of Coast Survey positions are visible, which enables us to connect our building in their triangulation. We also have a base-line apparatus, which enables us to work from our own base to lines determined by the Coast Survey. This gives our students the problem of triangulation in its complete form, and it only remains to work into our course as complete, the problems of "Field Topography" and "Physical Hydrography".

We shall then have, as a part of our Engineering course all the problems of the Coast Survey. It so happens that two Coast Survey Officers are now stationed in Boston, Mr Whiting,

the Chief Topographer, and Mr Mitchell the Chief Hydrographer of the Coast Survey. It occurred to me that if we could get these gentlemen to give the field instruction to our engineers in these subjects, our facilities would be unapproachable; and besides, it would put all the best instruments of the Survey at our command without expense. After giving the matter all the attention I could, & becoming more & more impressed with the importance of the subject, I wrote to Prof Peirce, the Supt, who consented that Messrs Whiting & Mitchell could take positions in the Inst. & do this work for us, provided no salaries were attached

ed to the position. Whiting & Mitchell are delighted with the idea, & I am sure that our facilities in the department of Engineering will be unsurpassed. These gentlemen have an experience in their respective departments to be found nowhere else. I have neither time nor space to give you in full the importance of this step. Not only Prof Peirce, but W. & M. are looking forward to us for the proper supply of trained young men for Coast Survey work; and it will open all branches of the survey to our students during their long vacations. This is one of the opportunities, I have not dared to throw away. It puts so much at our disposal at little or no expense. I feel that the President will sustain me.

[July 4, 1869]

MASS. INSTITUTE OF TECHNOLOGY.

126

Boston, 1869.

There is another important matter. You know that our students in Mechanical Engineering get nothing in the form of shop work, or shop experience with us. Last spring at the Academy I met Commodore Rogers, & the idea occurred to me that perhaps, in some way our students in this department might gain admission to the Machine Shop of the Navy Yard during their long summer vacations as volunteers. I suggested the idea to the Commodore, who said it would give him the greatest pleasure to issue orders in favor of any students I should here send him. Now Mr Hall, & three of our students in Mec Eng. are at work in

6
the yard with every advantage
that that great shop can
offer them. It virtually gives
the Institute, without cost,
a shop which it could not
supply without a mint of
money, and if the students do
right, as I know they will, all
future classes will have the
same opportunity. I know the
President will fully appreciate
this step. I shall ask the
Gov at its next meeting to take
proper notice of this act of
Commodore Rogers.

You speak of inviting the Assoc-
tion to hold its next meeting in
our building. It would be well
to do so, although it is not likely
that it will meet so far East
so soon again. I shall attend
I will submit any invitation
the President may send.

[July 4, 1869]

127

The Gov. authorized me to ask the
Adm to visit our building this
summer; but I wish the
President would write a
short note communitating the
action of the Gov. & at the
same time offer our build-
ing for any future meeting
in Boston. Prof Eliot's resigna-
tion took place July 1. Both
he, Storer & Warren, agree
that Mr Ordway, in Metallur-
gy & Industrial Chemistry, will
be the best appointment we
can make. Ordway will
take these subjects at a salary
of \$1000. Richards & Nichols
will remain as assistants in
the chemical department. In
this way the expense of the depart-
ment will not be increased, & Prof
Storer will be satisfied, which
is a great point, as the President

will see. But my dear Mrs
Rogers, do not bring all these
things to the attention of the
President. They are my sleep-
ing as well as waking thoughts,
& I know that however
much he might agree and
sympathize with me in
them, they would be far
too exciting. His approbation
is all the reward I ask; &
at any rate he will always
know, that in all I do, I
have but one end, the
good of the Just, in view.
I was anxious to talk these
matters over with Dr Rogers;
but I could delay no longer.
I am one of a Committee
to report on the condition of the
Stehfield Obs. of Hamlet
Ct. Clinton, N. Y. where I must
be on the 12 & 13th. We have
a delightful boarding place.

Mrs Rogers in her to see. See the first line of "Dumplings" & the

Fort Monroe 7th July 1. 1859.

Antelias Geil. ad Humphreys.
Chief of Engineers
Washington D.C.

Sir.

I forward by Adams & Co's express today to your address, a small box containing specimens of clay and fossil remains taken from the Artesian Well at this place, at depths from 558 to 590 feet below the surface of the parade of Fort Monroe. The compartments in the box are numbered front to back -
- thus:

- 1 Contains a light spongy clay taken from the well on the 19 June 1859, at a depth of 558 feet.
- 2 Contains two pieces of bone, supposed to be a portion of the vertebra of a black fish, or right whale. These specimens were taken from the well on the 25 of June at a depth of from

570 to 574 feet. The bone was no doubt broken up by the auger, and portions of it forced into the clay outside of the tubing.

3 Contains concretions of sand, marl and shells, taken from the well on the 25 of June, at a depth of from 570 to 574 feet.

5 Contains borings from the well at a depth of 583 feet, removed on the 29th of June.

4 Contains borings from the well at a depth of 590 feet, removed on the 30th of June.

6 Contains sand &c, washed from borings from the well, at a depth of 590 feet, removed on the 30th of June. This residuum is about 50 percent of the mass. From this washing was obtained specimens of shark-teeth & petrified wood, contained in a small box in compartment No 6.

x x x x

I have the honor to be

Very respectfully

Your obedient servant
(sgd) Henry Brewster
Col & Act Brig Genl U.S.A.

June 1. 1869.

Gen. E. Humphreys.
(Newtown)

Fort Monroe, Va. July 1st 1869.
Col. Maj. Gen. S. H. Humphreys
Chief of Engineers
Washington, D. C.

Sir,

I forward by Adams & Co's Express to day to your address, a small box containing specimens of clay and fossil remains taken from the Artesian Well at this place, at depths from 558 to 590 feet below the surface of the parade of Fort Monroe, Va. The compartments in the box are numbered from 1 to 6 inclusive.

1. Contains a light spongy clay, taken from the well on the 19th of June 1869, at a depth of 558 feet.
2. Contains 2 pieces of bone, supposed to be a portion of the vertebra of a black fish, or right whale. Three specimens were taken from the well on the 25th of June at a depth of from 570 to 574 feet. The bone was no doubt broken up by the auger, and portions of it forced into the clay outside of the tubing.
3. Contains concretions of sand, small shells, taken from the well on the 25th of June, at a depth of from 570 to 577 feet.

5. Contains borings from the well at a depth of 583 feet, removed on the 29th of June.

4. Contains borings from the well at a depth of 590 feet, removed on the 30th of June.

6. Contains sand &c, washed from borings from the well, at a depth of 590 feet, removed on the 30th of June. This residuum is about 50 per cent of the mass. From this washing was obtained specimens of shark-teeth & petrified wood, contained in a small box in compartment No 6.

This morning the $4\frac{1}{2}$ tubing moved downwards seven feet by its own weight, and that of the rods within it, to which the auger is attached. The pipes have now reached a depth of 593 feet below the surface of the parade.

I have the honor to be

Very respectfully

Your obt^d serv^t

Henry Brewerton

Col. 1st Regt. Engs (U.S.A.)

(Signed)

July 1: 1869

[Faint, illegible handwriting covering the majority of the page, likely bleed-through from the reverse side.]

Mass. Institute of Technology.

Boston, July 8, 1869

My dear Mrs Rogers -

I saw Mr Endicott a day or so ago, who told me that he thought that if the President would intimate to Mr Hayer that the Institute could use additional funds to advantage, he would respond. Last year when he gave Mr E. his check for \$25,000 he told him that he should have more for us this

Year. I think he might
become interested in
the Physical Laboratory,
& perhaps give suffi-
cient to put it upon
a firm foundation.

Also, if the President
would drop a note
to Mr Beecher to have
him see Mr Peabody
in our behalf, it might
result in something.

Hope the President is
still improving - We
expect to leave Oxford
tomorrow for a trip of
a couple of weeks in

New York. After that
I shall get to Boston
quite often -

Letters sent to me
here will be promptly
forwarded; & I shall
hope to hear as often
as you can find
time to write.

Give my best love to
the President, & tell
him that Pickering
has received a letter
of high commendation
of his Laboratory plan,
from Prof Tyndall.

So far as Mr. Hayes
is concerned, I feel
quite strong that
he will initiate a
movement in our
favor if the President
will suggest it to
him.

With best love to all
I am

Ever yours

O. D. Remble

P. S. I enclose Eliza's letter
of resignation.

Office of the Chief of Engineers,

Washington, D. C., July 8th, 1869.

Prof^r William B. Rogers,
Lunenburg, Mass.
Sir:

During the two years that have elapsed since your note of 25th May 1867 replying to my enquiries respecting the probable or conjectural vertical positions of water bearing strata at Fort Monroe, Va; the borings in progress there have been continued, with perhaps about the usual share of difficulty, until we have now attained a depth of nearly 600 feet. A letter from General Brewerton, the Engineer Officer in charge of the work, has just reached me, explaining the present condition of the work, and transmitting a series of specimens, with fossils, of the material recently passed through by the augurs. I enclose herewith a copy of this letter, which I hope may interest you, and shall be glad to send you for

examination the box of specimens in question.
I shall esteem your opinion - derived from
these indications - of the present condition
of the undertaking, of much value; and if
you desire a full series of the borings it
will gratify me to have them prepared, and
send them to you.

I am Sir.

Very respectfully
Your Obt Serv^t

A. A. Humphreys

Brig Genl & Chief of Engrs

1-3-23

...the best of specimens ...
...of the present condition ...
...of the ...
...of the ...
...of the ...

Very respectfully
Your Obedient Servant
(H. C. ...)

July 1869

Manchester (pro. temp.)
12 July 1869

President Rogers

My dear Sir,

I have not written to you before, as I have wanted to, because we have all felt that the less your quiet was disturbed the better.

You will believe that we value very much your sympathy and good wishes. The assurance which your

Very respectfully
Yours
affectionately

Charles W. Eliot

I trust that you will
have latitude
in the
matter
of
reserve
without
meddling
upon
the
part
of
you

note gives of your restoration
to health is delightful. For
the sake of the Institute - for
the sake of American education
- I hope you will continue
to practise the utmost prudence.

Please do not let the Paris
business weigh on your mind
for a moment. What I wrote
is already too old to be printed
in its present form. The whole
would have to be recast.

I think that Storey would

say the same of his part.

And now, with my new
duties, I don't know how I
could find time to recast
it, if I wanted to. Why
should not that business
lie forever quiet? If ever the
Institute prints a journal, per-
haps Storey & I may find the
material for some articles
in our old manuscript of 1867-
68 I thank you very
much for your kind words

about my cooperation at the
Institute; but I know perfectly
well that I received from the
School much more than I ever
gave. Your example and precepts,
your wisdom and wide experience
have not been wholly lost upon
me. So far as in me lies, I
mean to see that the Institute
enjoys the field it has so honor-
ably won, without competition
or duplication of any sort at
Cambridge. If my position ever
enable me to be of any service

Manchester (No. temp.)
12 July 1869

President Rogers.

My dear Sir.

I have not written
to you before, as I have wanted to,
because we have all felt that the
less your quiet was disturbed the
better. You will believe that I
value very much your sympathy and
good wishes. The assurance which
your note gives of your restoration to
health is delightful. For the sake
of the Institute - for the sake of
American education - I hope you will

Continue to practice the utmost
prudence.

Please do not let the Paris business
weigh on your mind for a moment.
What I wrote is already too old to be
printed in its present form. The
whole would have to be recast.

I think that Storer would say the
same of his part. And now, with
my new duties, I don't know how I
could find time to recast it, if I
wanted to. Why should not that
business lie forever quiet? If ever
the Institute prints a journal,
perhaps Storer and I may find the
material for some articles in our
old manuscripts of 1867 - 68.....

I thank you very much for your
kind words about my cooperation
at the Institute; but I know
perfectly well that I received
from the School much more
than I can give. Your example
and precepts, your wisdom and
wide experience, have not been
wholly lost upon me. So far as
in me lies, I mean to see that
the Institute enjoys the the
field it has so honorably won,
without competition or duplication
of any sort at Cambridge.
If my position ever enables me

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the express permission of the Institute Archives - M. I. T.

to be of any service to you
or to the Institute I trust
that you will call upon me
without reserve.

Very respectfully & affectionately
Yours.

Charles W. Eliot.

copy.

Manchester (Pro. temp.)

12 July 1869

President Rogers.

My dear Sir.

I have now written
to you before, as I have wanted to,
because we have all felt that the
less your quiet was disturbed the
better. You will believe that I
value very much your sympathy and
good wishes. The assurance which
your notes give of your restoration to
teach is delightful. For the sake
of the Institute - for the sake of
American education - I hope you will

Continue to practice the utmost
prudence.

Please do not let the Paris business
weigh on your mind for a moment.

What I wrote is already too old to be
printed in its present form. The
whole would have to be recast.

I think that Storer would say the
same of his part. And now, with
my new duties, I don't know how I
could find time to recast it, if I
wanted to. Why should not that
business lie forever quiet? If ever
the Institute prints a journal,
perhaps Storer and I may find the
material for some articles in our
old manuscripts of 1867-68.....

I thank you very much for your
kind words about my cooperation
at the Institute; but I know
perfectly well that I received
from the School much more
than I ever gave. Your example
and precepts, your wisdom and
wide experience, have not been
wholly lost upon me. So far as
in me lies, I mean to see that
the Institute enjoys the the
field it has so honorably won,
without competition or duplication
of any sort at Cambridge.
If my position ever disturbs me

to be of any service to you
or to the Institute I trust
that you will call upon me
without reserve.

Very respectfully & affectionately
Yours.

Charles W. Eliot.

copy.

111
132 Tremont St
Boston

Aug 27 1869

My dear Prof. Rogers

Absence from the city has prevented me from answering your kind note of the 16th inst. In referring to my memorandum book I find that I have received

from you, an account of Paris Exposition ^(gold)

on May 17 1867 \$437.96

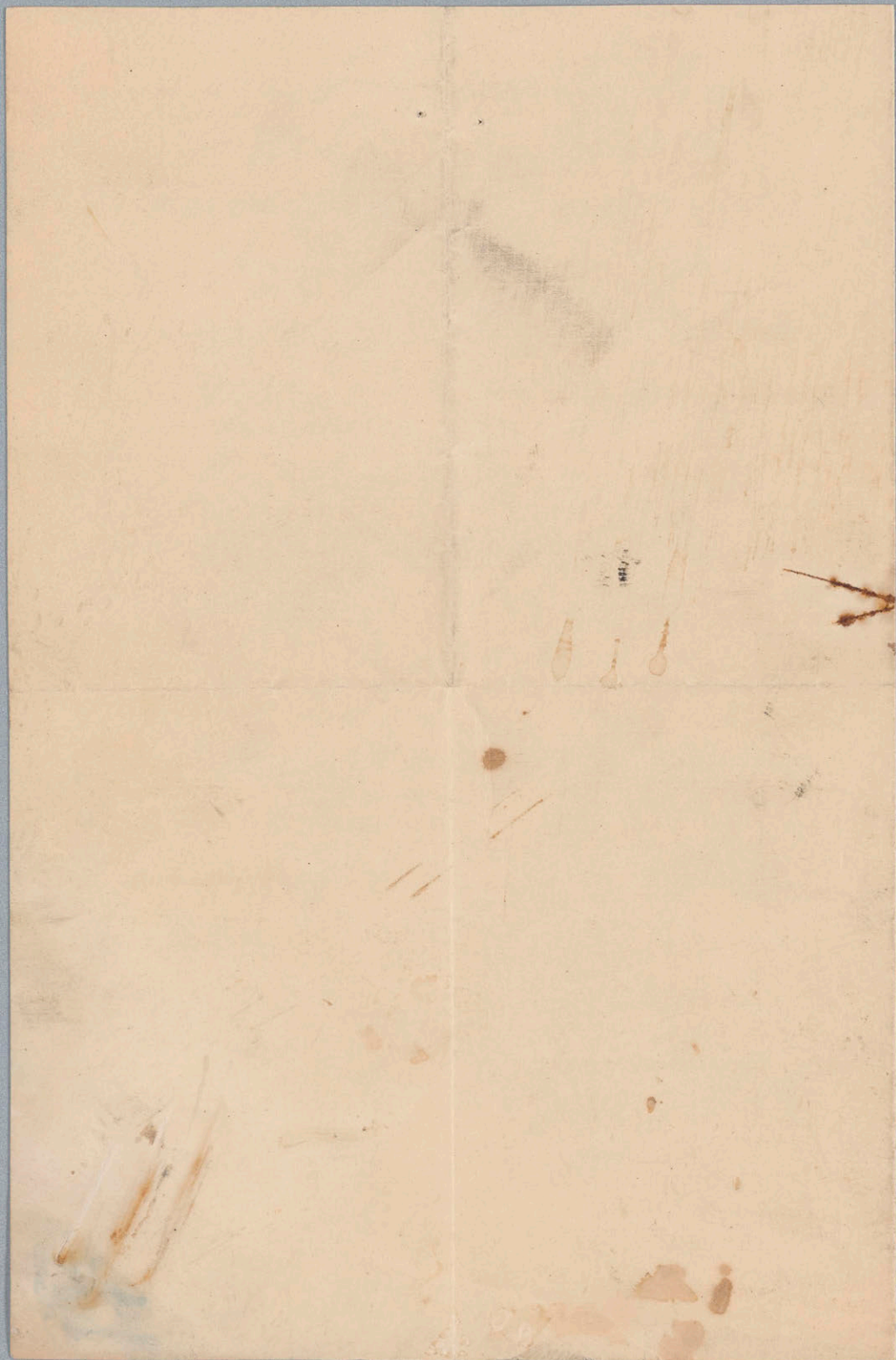
" Aug. 7 1867 (260) \$292.80 "

Sum (received) 730.76

I trust you have
here this entirely
reversed ground
the system which
your letter speaks.

I have great faith
in Ordway. He is
sound, reliable and
learned. In the mat-
ter of practical
knowledge, no school
in the country has
a teacher who
compared with
him.

Please give my
kindest regards
to Mrs. Rogers
& believe me
yours truly
Frank H. Storer



(X)

132 Tremont St

Boston

July 17 1869

Newport

My dear Sir

I am glad to be assured through the reception of your note of your improved health and spirits but am sorry that your mind seems in the position you mention. Would it not be well to discuss that subject if possible as a sort of matter to my mind I must confess I didly that I had stomach for the matter

I wrote, after our re-
turn from Paris in
1867, was suited for
that day and hour.

It would be as unfit
for publication today
as a stale newspaper
article of similar date.

Even if I had the
heart (which I haven't)
to recast the MS, it
would have to be re-
membered that I have
not the knowledge
requisite for the task.

It is not true now
that I have just re-
turned from an
inspection of European
methods and appliances.

Of the precise char-
acter and quality of
MS, I am uncer-
tain but I sup-
pose it must be
strongly much the

same condition of
uselessness as my
own.

As the matter pre-
sents itself to myself
— as I have endeavored
to depict it here —
the modicum of
"back pay" becomes
insignificant. I beg
you will dismiss it
from your mind,
as I have dismissed it
from my own long
ago.

With the kindest
regards for Mrs. Rogers
and best wishes for
your restoration

When I remain
yours truly
John H.

Prof. Wm B. Rogers
Newport.

Rec^{ty} Prop. Chart &
Prop. Slaves -

Aug, 1859

(X)

