

10

Papers, 1866

W. B. ROGERS
MC 1

My dear Sir

I enclose my check
for \$3000 in full for the course
of evening instruction

Yrs truly

J. A. Lowell Esq

Boston Jan 11 1866

Prof Rogers

President

Mass. Inst. Tech.

602

From J^{no} A Lowell
enclosing

Check for 3000 dollars
to pay for the Exp^{ts},
Course of Instr^{ns}.

1. Table place,
June 7. 1846

Dear Mr. Pillsbury,

It is almost certain
that I shall sail by
Saturday, Steam - for
Liverpool. My brother's
ellipsis is such that I
can only hope to find
him living. Should
my departure be delayed,
to suit his wife,
until Wednesday I shall
return for N. Y. &
see you next Monday,
when I should wish
to see a meeting of the
Com. in Ast. to

Concerning Mr. Ware's
Application.

I trust you will
act for the - during
my absence, and I
learn from you & Mr. Coburn
Prof. Ware's letter - alluding
to his request of absence, &
the particulars.

As regards my own
opinion on the subject -
I beg to say that I
heartily accede to his
application for leave of
absence & for the continuance
to him of dual salary as
he would be receiving of
here - on condition that
he will undertake without
cost to the Institute to

Propagate & maintain
Cathodism, & what is
of even more importance
as general Curator or
President of the School
as regards political
disaffection. It will
perhaps be better except
to act upon this or
my request, but I
am so much interested
in having ^{him} with us in these
various useful functions
that I am quite willing
to stand guaranteed for a
part of the moderate
salary with which I
believe he would be fully
satisfied.

Journal & Substantive --
relating to the Comm.

By such an arrangement
I am satisfied that the
Inst: will gain important
benefits for his Department
in its future development
~~and~~ without being subjected
to any additional cost.

Were he in command
of funds for the equipment
of the School at large I
should go further &
recomm. the application
of a suitable sum to aid
Mr. Ware in his studies
in the purchase of references
of instruction. White
Abso. & Co.

I shall not be
absent from Boston

More than six weeks,
Probably I may be back
in June. I feel that
the Institute class is very
low from me, but such
as those that are now
so sadly demanded from the
quarter.

With kindest regards
to you and others of
the Com.

Yours truly

William B. Rogers

John D. Philbrick

P.S. I hope we may receive the
Volume Series of Prof. Osborne, on
April: in Health & Physics or as

1035

Boston Jan 8, 1866. (X)

Prof. Rogers:

My Dear Sir,

When boys get out some-
thing which they think is new,
they like to communicate it to
their betters; and I, being an old
boy, like to do the same. You
may have devised the same
thing or something better. At any
rate, I send you the picciola,
& hope you will pardon the
presumption.

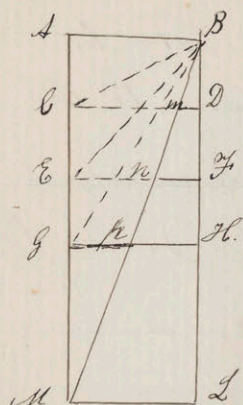
I trust that you have had
good meetings of late, & that
the school prospers gloriously,
which I doubt not. Working
every day continuously from
8 A.M. until 3 or 4 P.M. I have
not been able to attend the
last two meetings of the Insti-
tute; but, be assured that, after

my own School, which must
& ought to command my best
efforts, there is no institution
in the world, in which I feel
so deep an interest, & which I
do ardently hope to see accomplish
its proper work, as the Institute
of Technology. - Don't wear your
self out just yet; able benefactors
are scarce, and the world
needs you many years in
addition to this A. D.

With the highest respect &
esteem,

Very truly,
Yours,

Thomas Sherwin



A rectangle, AL , immersed in a liquid, the upper edge coinciding with the surface, vertically, to divide it by horizontal lines into parts such that the pressure on each shall be the same.

Draw the dividing lines + diagonals as in the diagram. Let the depths $BD, BF, BH, \&c.$ be designated by $d, d', d'', \&c.$, and the whole height by h . And the pressure on the rectangles $AD, AF, AH, \&c.$ by $p, p', p'', \&c.$ From the general rule for pressure, $p = \text{area } BCD \times d \times w$ ($w = \text{weight of a cubic unit of the liquid}$); $p' = BCF \times d' \times w$; $p'' = BGF \times d'' \times w, \&c.$ But these triangles, having a common base, are as their altitudes $d, d', d'', \&c.$; $p : p' : p'' : \&c. = d^2 : d'^2 : d''^2 : \&c. = BmD : BnF : BpH, \&c.$

Now to divide the rectangle AL as specified into n parts, we have $1 : n = d^2 : h^2 \therefore d = \frac{h}{\sqrt{n}} = \frac{h\sqrt{n}}{n}$; $2 : n = d'^2 : h^2 \therefore d' = \frac{h\sqrt{2n}}{n}$; $3 : n = d''^2 : h^2 \therefore d'' = \frac{h\sqrt{3n}}{n}$; $\&c.$ Hence the series $d = \frac{h\sqrt{n}}{n}$; $d' = \frac{h\sqrt{2n}}{n}$; $d'' = \frac{h\sqrt{3n}}{n}$; $d''' = \frac{h\sqrt{4n}}{n}$; $d'''' = \frac{h\sqrt{5n}}{n}$; $\&c.$ Therefore, to find the depth of any dividing line:

Multiply the number of parts by the number expressing the order of the dividing line from the top, extract the square root of the product, and multiply this root by the ratio of the whole height to the number of parts.

If the plane is inclined, the same measurements may be taken along the length of the plane; but if the

vertical depths are required, each formula must be multiplied by the sine of inclination of the plane to the horizon. This evident since the depth of the centre of gravity of each rectangle would be half the length into the sine of inclination $\therefore p = \text{area} \times \frac{1}{2} d \times w \times \sin A$ ($A = \text{inclination}$), or $\frac{1}{2} \text{area} \times d \sin A \times w \therefore d$ becomes $d \sin A$, &c.

"This proposition occupies $4\frac{1}{2}$ octavo pages in "Jamieson's Mechanics of Fluids."

Bureau of Navigation,
Navy Department.

Washington, 16th Jan., 1866.

Sir:

The Navy Department is about preparing a series of Special Instructions for the use of the Officers of the Navy, all of which are to be published in one volume.

The design of this work is to furnish, in a brief and didactic form, such information as will enable all travellers, and particularly Officers of the Navy, to profit by occasional and extraordinary opportunities for pursuing scientific investigation, and for making scientific collections, or rightly estimating the value of such as are already made. It is not intended, that the book shall be confined to a mere set of directions as to what and how to observe, but that the articles prepared shall include brief explanations

f

of the objects and principles of the inquiries considered

The Bureau requests that you will be pleased to prepare for this work the chapter on Geology

In the distribution of the book, it has been proposed, that the extent of this paper should be such as to make about 50 printed octavo pages; the Bureau, however, would not desire to restrict you to the number of pages indicated, but will be glad to avail itself of suggestions from you in respect thereto.

If you should do the Department the favor to accept this invitation, it will be prepared to pay for your contribution at the rate of five dollars for an estimated octavo page.

Prof Wm B. Rogers,
President of the Mass. Institute
of Technology,
Boston, Mass.

Very respectfully,
Your obt servant,
Samuel B. Mearns
Chief of Bureau.

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

copy
entire

Rooms of the Institute
16 Summer St., Boston
Jan. 13. 1866.

To his Ex^t.

Gov. Bullock.

Dear Sir.

I have the honor of
sending you herewith a
copy of "The first Annual
Catalogue of the Officers and
Students, and Progresses of the
Courses of Instruction of the
School of the Mass: Inst. of
Technology" and of transmitting
a copy of the same to each
of the Members of the General
Court now in Session.

The School was opened
with a preliminary class in
February last, and entered
upon ~~the~~ its first regular
Course of Instruction early
in October. Its plan of

of teaching is now fairly
managed, and the number
& character of the pupils
already attached to it would
seem to give assurance
of its success.

Notwithstanding the operations of
the school have been carried
on under great disadvantages,
in hired apartments ill
adapted to its purposes. But
this inconvenience will not be
of much longer continuance, as
the new building will
be a few weeks in a
condition to receive the
Chem. Class, and will it
is expected early in the Spring
admit of the transfer of
the other departments of the
school & of all the operations
of the Institute to the commodious
apartments provided for them within

its walls.

The Meetings of "the Soc:
of Arts of the Institute" held
on the 1st & 3^d Thursday
of each month of the Session,
& of some interest & value,
are well attended, & ~~have~~
are also ~~the~~ contributing
by ^{the} communicating, describing
relating to the progress of science, useful
& the exhibition of ~~practical~~
inventions, and it is believed to
contribute materially to
the advancement of the Science
& Arts & ~~with the~~ ^{interest} ~~of~~ ^{of}
General Education.

I am therefore
submitting my
Yours Obedtly,

William B. Rogers
Pres. N. Y. I. T. I.

[mc1 4:54]

J. W. Bulluck

Jan. 13. 1866

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

(Keep for
Nat. Academy
archives)

(X)

Albany Jan. 15th 1866

Dear Professor

I received the accompanying communication yesterday — from its place of issue I suppose it to have official sanction and authority. — This is the first intimation I have had (except common hearsay) of the intention of increasing the number of Members. In the outset I may say that were I present I should raise no objection to the addition of Members; but to act upon this question and make the elections at the same Meeting seems to me objectionable, and scarcely fair to those who may for various reasons find it impossible to attend the Washington Meeting.

But are these elections proposed to be for full memberships, or Associate Members? If to be full Members, a modification of the Act of incorporation will be required (unless already so modified) since the original Act limits the number to fifty.

If not to be full memberships, then there are many objections — The organization is now looked upon by many as an invidious

inction; and if any other than full members are elected, it strikes me that we make a double difficulty - Those elected are not flattered by the distinction, and those left out are more than ever hostile to the exclusiveness which has descended a step, but, not including them, places a greater distance than before between them and the original Academy. - Thus, if the movement is intended to prevent or obviate the necessity of a reorganization of the American Association, it appears to me that for this very reason it will prove a failure.

I have no hesitation in expressing myself in favor of a reasonable exclusiveness, or - under other regulations - of admission without restriction as to numbers.

New duties devolving upon me here, would prevent me from going to Washington, even had my health been such as to warrant the journey & exposure.

I am very sincerely
yours,

James Hall.

Prof. Joseph Henry

Rec^d Jan 17. 1866

"The National Academy of Sciences will meet in the lecture room of Columbian College Law Building, on 5th Street between D & E at 11 A.M. on Wednesday 24th of January.

The subject of increase of Membership being before the Academy the Committee of Arrangements take this opportunity to urge members to attend in order that if that measure be adopted elections may be proceeded with, and a full summer meeting secured.

Washington City, January 15th
1866.

Dear Sir,

I take the liberty of sending you a copy of a letter I have addressed to Mr. Henry on the subject of increase of membership in the Academy - I have been unable to attend meetings and do not know perhaps the precise condition of affairs but on the receipt of this circular I thought some expression

I don't know your views, but I
cannot avoid the conclusion that
we should adopt some form of
Association, as one of the best means
of advancing science and promoting
communication among persons
in pursuit of every department of investigation
- I have been so much occupied that I
could not get this off to you until
now and I fear you may have left
for Washington!

I am very truly
Yours
James Hall

Mr. W. B. Rogers
in reply

James Hall

Archives
Nat. Academy

(X)

1. Temple place

Boston July 30. 1846

Dear Sir.

The pressure of work
connected with the new
our Institute School has
prevented an immediate reply,
to your favor, rec^d some days ago.
As it was wholly out of my
power to attend the meeting
of the Nat. Ac. I felt that
a prompt answer to your
letter was less urgent.

I have not attended
any of the meetings of the
Academy since that at
which it was organized,
& therefore I presume my

Membership has lapsed.

I have long felt the
desirability of reviving our
old Am. Assocⁿ of Science.
Whatever may have been
its faults, its short course,
it was of great service, and
~~the main features~~
its free & unencumbered
spirit ought I think to
be perpetuated.

James Hall
Albany Jan 30

I have long been
desirous of reviewing the
old Am. Assoc. of Science
which may have been
no fault, or short coming,
in view of great services, and
historical importance
its few & unscientific
defects ought I think to
be forgotten.

New Bedford, July 24th
1866

My Dear Sir

In reply to your interesting note I feel myself obliged to reply to it in doubt whether I shall be able reasonably to answer to your suggestions and as since you I could desire to do in view of my claims on me which I would gladly dispense with in favour of yours were I at liberty to do so. I can only therefore say should appearance hereafter.

warrant - I should most
gladly think of your wants
and wishes

asking you to remember
me to Mr Rogers

I subscribe myself
your self friend
James Arnold

Mr Arnold -



Dear Sir,

I have long known
 the merits of the Zoological
 Institute and looked forward
 to the pleasure of doing some
 thing for it. This I shall
 not fail to do. And speak
 of it will I always do as
 in fact I have much done
 since I got your letter -

But a shower of little
 donations just now have
 rather nipped my ear
 drop and I will if you
 please send out to grass
 for a while. I have say

just as good null bills be
wanted later as now -

Remind your Mother that
the 22^d is my Club day
and that I shall hope
for a notice & remade
from you.

I am very truly

J. G. Apperley

London

10 Cornmarket ad.

To Mr. G. Appleton.

Nov. 21. 1866.

New York. Mar 26, 1866

My Dear Sir,

Your letter of the 24th is before me. There is but one chair to be filled in this institution. It is the chair of Geology and Paleontology in the School of Mines.

What the professor will have mainly to teach in the School will be Structural, Chemical and Economic Geology. Paleontology will be taught, in the regular course, less extensively, but as fully as the nature of the case will allow.

I was aware that you had given to Mr. Hunt a tentative mind; but that circumstance will not, I presume, interfere with your expression of your opinions in regard to Mr. Newberry.

I am, with sincere regard,
Your friend & obt. servt.,
Prof. W. B. Rogers. J. A. P. Barnard.

Barnard

Col: College

Public Library
Boston, 3 April 1866

My dear Sir,

I am happy to inform you that the Trustees of the Public Library have voted to extend to the students of the Massachusetts Institute of Technology all the privileges of the Public Library, during their connection with the Institute. On presenting certificates of membership they will be requested to sign the Register & will receive cards for procuring books. The usual hours for giving out cards are between 9 & 10, A.M. and 8 & 10, P.M.

Hoping that this privilege may not be unacceptable & may add something to the usefulness of the admirable institution over which you preside with so much honor & success -

I remain, dear Sir

faithfully yours

W. Jewett

Secretary
of the Board of
Trustees

President Papers
Massachusetts Institute
of Technology

1840

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

President's Report
1840

1840
1841
1842
1843
1844
1845
1846
1847
1848
1849
1850

ⓧ

John C. C. Jewett Esq
Sec. Pro. Sec.

Ap. 3 -
arrms - Ap. 7

532

from.
Earl. Dine

264



1 Belgrave Square
April 14. 1866

Dear Prof. Rogers

I have to thank you for
all the trouble you have taken
in ordering the axes for me.

I have deferred this letter, that
I might have the opportunity of
seeing and testing them ~~axes~~
on my visit to Tortworth at the
Easter vacation.



The axes are excellent
My only complaint is, that
the vendors in their republican
contempt for the muscular
power of an old wood
carrivocart - have sent
me rather lighter tools
than those which I should

use. However they are all
useful and good. and
I am well pleased with my
purchase

Our Cattle plague is
steadily diminishing. apparently
in consequence of the vigorous
measures which have lately been
adopted. I find that
90 per cent of all the animals
attacked are now slaughtered
forthwith: from the time

that this treatment commenced. The disease began to abate.

We are in the midst of a Reform Bill which - in spite of the opposition of "The Times" and the Conservative party - will in all probability be passed in the H. of Commons. What its fate may be after that - I cannot tell.

With best remembrances to Mrs
Rogers,

I am

Yours very truly

Daniel

Prof Rogers.

1185

Cambridge April 17, 1866

My dear Sir,

I will write to Admiral Davis, asking him to prepare for the Council a short notice of Admiral Duperey — if you think it best — and I will prefer that you do think it best, if you do not take the trouble to reply immediately.

I will ask Admiral Davis to do this for the Council, presuming that you assent, and that you are the embodied Council.

I should not be able to do this work myself, being much occupied with my work on the Naut. Abn.

Very truly yours
Chauncey Wright

Professor W. B. Rogers

Chauncey Wright

$$\begin{array}{r} 2.25 \\ 12 \\ \hline 4.50 \\ 2.25 \\ \hline 27.00 \end{array}$$

To
Wm. B. Rogers

36 Studio Building Boston

April 24. 1866.

Dear Sir -

Allow me to take this means
of bringing before you, and through you
before the Committee of Instruction, some
considerations in regard to the Depart-
ment which you have done me the
honor to place in my charge. I have
already taken occasion to explain in gene-
ral terms the spirit and method in which
as it has seemed to me an Architectural
School should be conducted, in a paper
read before the Society of Arts in the early
part of the winter, and since then printed.
A chief portion of this had previously
brought to your notice through a letter ad-
dressed to Professor Sumner, nearly a year
ago, when I was first approached in
regard to the School. I shall hereafter
recall this subject to your attention in pre-
senting for your approbation the details of

the system thus sketched out. There re-
tails ^{however} a ~~work~~ ^{task} yet to be elaborated, and so
to elaborate them as to make of this theo-
retical scheme a practical working system,
is the first duty of the Department. It is
to the means necessary to this that I bring
now to your attention, and in so do-
ing I have to submit for your approval
the course I would myself propose to per-
sue in carrying on this work of prepara-
tion.

These necessary means are, in short,
a thorough study of the corresponding
institutions on the other side of the water.
It would be, as I have said, but a
poor illustration of our own methods of
procedure if we attempted single-handed
to work out the great variety of questions
that must come up, while ~~and~~ almost
identical problems is in course of solution
in half-a-dozen cities of Europe. The
field is new and we shall doubtless fall
into new and original errors. We can
at least save ourselves from the old ones.

tations on the part of the public which cannot still be met, as I will presently explain, and would indeed if properly understood greatly add to the éclat of the Department and of the School of which it forms a part. It would show that we are in earnest in undertaking to afford the best things.

The collection of drawings models photographs casts and other necessary equipment of an Architectural School could best be made at the same time with this study of existing schools, and time spent in learning what can be had and in making judicious selections, would be well spent.

I may add that I consider a year spent in Europe absolutely indispensable to myself both on my own account and on account of the school. My professional studies are not complete until I have been abroad, and as when the school once begins

[4/24/1866]

It will be important for me to be absent,
at least for a number of years, and I must
so now, or wait until my going will
be of comparatively little service either to
myself or you, and consider indeed that it
is as necessary for the school as for my-
self that I should enjoy these opportunities
of improvement. Without these I consider
myself, as I said a year ago, entirely in-
competent to the work you have put into my
hands.

I should propose to make my-
self familiar with the schools in question and
with the local opinions held of them, to make
the most of the opportunities I should find
of learning from architects themselves the
most approved methods of work and gain-
ing the most intelligent criticisms of the re-
ceived methods of instruction. I think
that a tour among the architects would
be something quite new, and as service-
able to the school as to myself. I should
also propose to prepare accurate lists
of the collections and apparatus need-

ed for my classes, so that they could at
any time be sent for with the certainty
of getting the right things, and of knowing
their prices exactly at the same time. I
should undoubtedly come across a great
many things of interest and of a unique
nature, which if had at all must be
had at once. It would be very much
for the interest of the school accordingly
if a portion of the fund intended for the
equipment of this department could be
put into my hands to be used in this
way at my discretion.

It is in this way that I would
propose to pursue that work of pro-
portion which is in some way
to be completed before this ^{course} ~~semester~~ can
begin. I believe that it cannot be
satisfactorily done in any other way.
I have accordingly respectfully
suggested that leave of absence, in
the name of the Institute, be granted
to me during the whole of the next
academic year.

[4/24/1866]

The Course of Building and Architecture ~~will~~ be opened in the autumn of 1867, in connection with the instruction in materials and construction which will then first be given to the classes in Chemistry and Engineering. Applicants for admission will be classified according to their attainments, and young men proposing to take this Course will accordingly be recommended to qualify themselves for an advanced position by pursuing their scientific studies in the School, and training in Architects Offices as much knowledge and skill as they may. The relation which it is hoped to establish between the Schools and the Offices, in which such shall supplement the other, may thus be inaugurated at once, and no one need be at a loss for suitable study through the year's delay in the organization of their Department.

If you will lay this note before
the Committee of Instruction, or
such other body, as have authority
in the case, and obtain early action
upon it, I shall be able at once to
determine my course.

The cases of the Mechanical and
Engraving Drawing, including the care
of all the graphical work and the su-
pervision of the drawing rooms,
need in any case have to be put
into the hands of a subordinate
officer of the school. His remuneration
need I suppose come from me, as
this work is under my care, and
I should be able to indicate my
nominee and explain to him the
work before him, so that my absence
need not be felt in any of the
work going on in the school.

I am very truly yours

William T. Wace

810

59 St. Vincent Street
University of Glasgow,

28th April 1866

My Dear Sir,

Enclosed I beg leave to send
you the answer I have received
from Mess^{rs} Charles Griffin &
Co^{rs}, the publishers of my
books on Engineering &c. If
you wish for any further
information I shall be glad to
obtain it for you

I am

Yours very faithfully,

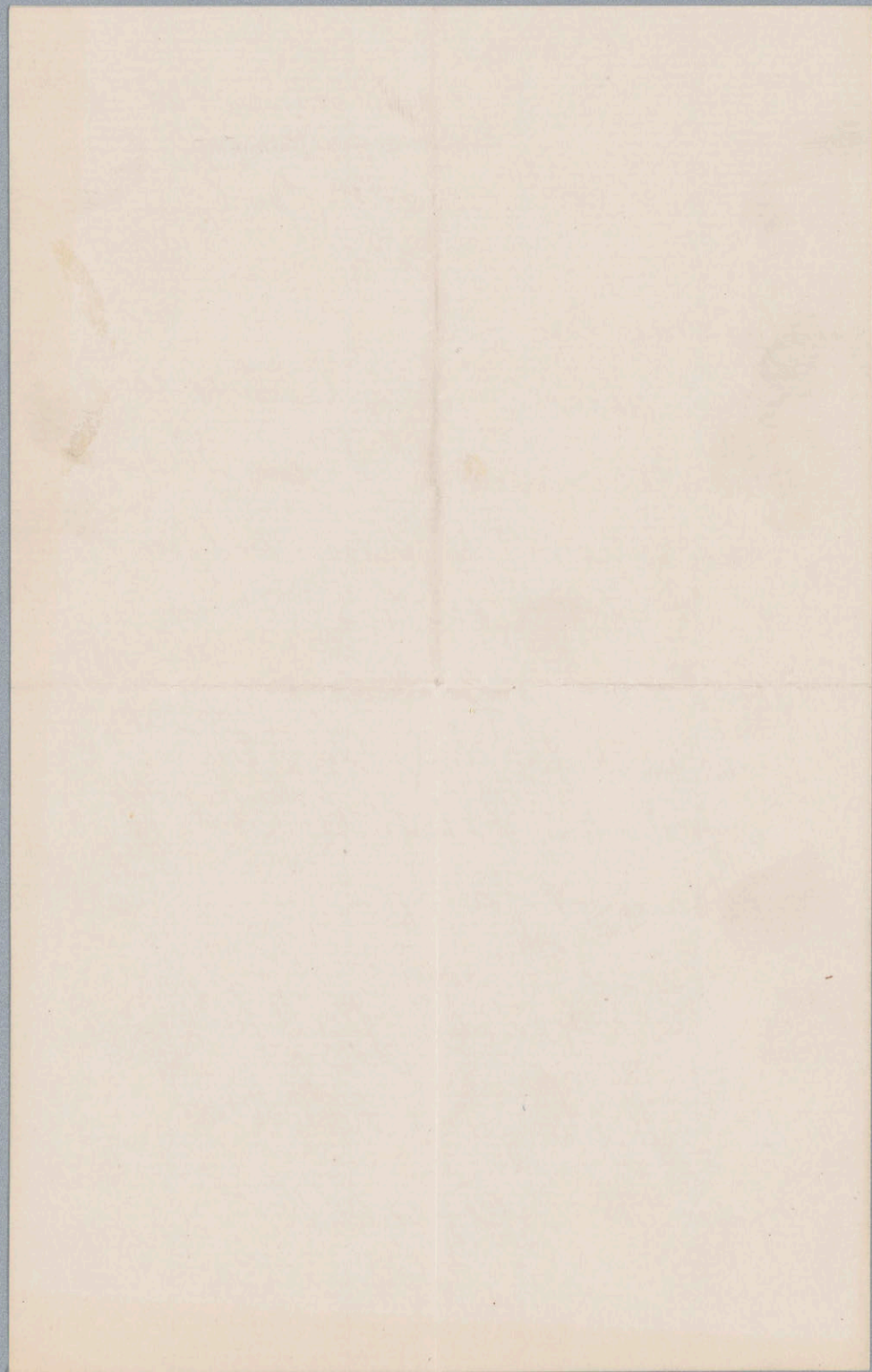
W. Macquorn Rankine

Professor W. B. Rogers L.S.D.

u

u

u



18/

39 India Wharf
Boston. 31st Aug 1866.

Prof: H. B. Rogers
5 Joy Place
Dear Sir,

The rooms
recently occupied by the
Institute of Technology
in Charney St have been
left in a condition which
it seems proper should
be brought to your notice.
will it be convenient
for you to meet Mr
Larguerthy & myself on
an early day to examine
the rooms? if you will
designate the day & hour
I will notify Mr. Larguerthy

of the same.

Very respectfully Yours
J. P. Melledge
Treasurer.

Melledge

British Association for the Advancement of Science,
London, 42nd Rulland Gate, Knightsbridge.
April, 1866.

Sir,

We are directed by the British Association for the Advancement of Science to announce to you that the Thirty-sixth Meeting of the Association is appointed to be held at Nottingham on Wednesday the 22nd of August, 1866, under the Presidency of William Robert Grove Esq^{re} M.A., D.C., F.R.S. and to express the earnest desire of the Members of the Association to be honoured by your presence on the occasion of this its first visit to Nottingham

The Officers of the Association hope to be supported on this as on many previous occasions by the personal assistance and written contributions of the Philosophers of other Countries; and they gladly undertake to make preparation for the convenient reception of those distant friends and Associates who may honour them by accepting this invitation and giving notice of their intention to be present at the Meeting.

We have the honour to be,

Sir
Your obedient Servants

W R Grove President.

Francis Galton General Secretary.

George Griffith — Assistant General Secretary.

To Professor W. B. Rogers,
Cambridge

[mc 1 4:54]

Professor W. B. Rogers.

Cambridge

United States



54
1974
Dover



19 May 66

My dear Sir

I send you
to look at a specimen of con-
-glomerate - from the bottom of
the Compass frigate -
It is quite heavy & short,
a good deal of copper - there
is charcoal also - It seems
almost impossible that
the mere copper sheathing
could by any combination
of fire, water, & sea shells,
make so heavy a mass & I
cannot but think - this
must be the result of
the fusion of a brass gun,
or a mass of copper, which
mixed with mud &c
became incrustated - yet
how could it occur?

we know that shells do
adhere even to copper in
time in brackish water -
at any rate it is curious
& will interest you as
geology in a new form!

I am

W. W. W. W.
R. B. W. W.

J. T. R. G. W.

in him that will do
a little more to give
him a better education
at my rate it is certain
I will interest you as
a geologist and you find
I am

Yours truly
R. A. [unclear]
[unclear]

[unclear]

36 Studio Building -
Boston, May 29, 1866 -

Dear Sir -

If, as I suppose I may expect, the Committee of Instruction accede to my request for a leave of absence in the service of the School, I should like to have you direct their attention to two points, both relating to the expenses of the Department.

I understand that the salaries of the officers of the School are contingent upon the organization of the Departments to which they belong. In the case of the other Departments this may be presumed to mean the commencement of instruction, this being a mark of work actually going on. But in the Department of Building and Architecture, there is, on account of the novelty of the undertaking, a great deal of work to be done before the School is in a condition to receive pupils, and this work is of a particularly difficult and responsible kind. The Department

must be hard at work for a long time to
fine instruction can be begun, and I do
not suppose it was the intention of the Com-
mittee who reported the resolution in
question, that this labor should go unre-
warded. It is this work which I propose
to pursue in great part abroad, where
alone indeed a great part of it can
be performed, and where I can have the
freedom from other care indispensable to
its performance. There are other and pri-
vate ends which I propose to compass
at the same time, but I cannot afford
from my private means the extra expense
which the proper serving of the School would
entail. I beg that you will bring this
aspect of the subject to the notice of the
proper authorities.

In regard to the expenses to
be incurred in equipping the Depart-
ment, I am of the opinion I ex-
pressed in a former note, that the
chief part of the collections may be
as well made by and by as now.
I can obtain at once such informa-

tion as will enable me to make out com-
plete lists of articles to be desired, and
these can be sent for from time to time as
circumstances permit. I am also confirmed
in the opinion I expressed that it is best
to have a certain sum put at my dis-
position for immediate use, so that the
School may profit by any special oppor-
tunities I may enjoy; some friends of
the Institute, whom I have consulted
in regard to the probability of our obtain-
ing from private collections of books or
photographs contributions to our store, have
suggested that it will not be easy to ob-
tain such benefactions until a nucleus
is formed. Set a beginning once be
made, it has been said to me, and
and people will hasten to add their offerings
to the pile. There is no doubt a great
deal of material which the owners
would be glad to convey to our use,
things which have outlasted their ~~original~~ ^{owners'}
purpose, but which are perfectly adapted
to ours, and which our collections, once
begun, would attract towards it.
I beg to submit this consideration
to the authorities of the School.

I should think that two or three thousand
rolls would be sufficient for this pur-
pose.

I am very truly yours

William T. War

Professor of Building and Architecture
in the School of the Institute.

1. Temple place

456

May 29 .. 1856

My dear Doctor Beselov

Mr. Love the Manufacturer
of Edison's Hygro-meter tells
me that you are desirous of
having my opinion as to the
merits of the Instrument. This
I cheerfully give, only
regretting that the our
Institute examinations allow
me no time for more than a
very brief notice of Mr. Edison's
improvements. I need hardly
add that, from taste as well
as a sense of duty to the
Institute, I carefully abstain
from recommending the
merchable wares of any
inventors whose valuable I may
think them of & that in the

present instance I speak
to you as a man of science,
only of the Scientific value
of the Instrument.

Mr. Edison's Hygrometer, to
which I think he has needfully
attached the new name of
Hygrodecit is an improvement
on the well known Wet-bull
Hygrometer which for the last
^{or more} twenty four years has been
much used by Meteorologists
& other Scientific Observers.

Its indications are dependant
on the fact that a thermometer
with moistened bulb will assume
a permanently lower temperature
than a similar adjacent
thermometer whose bulb is dry,
& that the difference between
the two will furnish a
measure of the degree of
dryness of the surrounding
air.

This difference disappears when
the air is at the point of
saturation, as in that case
evaporation from the wet bulb
ceases. As however a given
difference, say 10 degrees, at
a high temperature of the air
implies a nearer approach to
saturation than the same
difference implies at a lower
temperature a formula has
been devised which enables
us from the observed temperature
of the dry bulb & the
difference of temp between the
dry & wet bulbs to compute
the relative humidity or
degree of saturation of the
air at the time & place of
observation.

To the Agent, &c

Of the Building of the Map. Inst.
of Technology;

Mr. Lowell
wishes to know what will be the
rent, per year, of the Whole room
above the Hall, properly partition-
ed, prepared with sinks, &c., with
gas pipes of sufficient size car-
ried to convenient places for the
burners required by the School
— including the warming of the
whole during the cold weather.

Also, the rent of the middle
portion alone, or middle & one
side, (in case only so much be
needed for his purposes), prepared
as above.

Yr. Ovr Servr

B. E. Cotting

June 27th/66

Dr. B. C. Cotting
to the Agent of the Building
of the Mass. Inst. of Technology.
Dated June 21st. 1866.
Recd in government
Meeting June 27/66
& referred to Committee
on Instruction to report
what action should be
taken thereon.

Roxbury, June 22/66

Dear Sir,

I forgot, in my note of yesterday to add and care — i.e. "rent & Care of Rooms" — as it would create confusion, often, to have separate janitors, &c.

It will be desirable that the teachers & Curator have the same authority with & over the janitor as teachers & managers of the Tech^l Inst. have —

It will be required of the janitor to keep the rooms in proper order, attend to the lighting, & extinguishing the gas, & such other matters as custom regulates.

Please underline the words and care in my note of yesterday —

Very truly yr Obedt.

B. S. Cotting

M. D. Ross, Esq.

Dr. B. E. Cotting
to M. D. Rolfs.

Dated Roxbury June 22/66.

Read in Government
Meeting June 27th. 1866,
& referred to the Committee
on Education to report
what action should be taken
thereon.

July 6 1866

To the Chairman of the Com-
mittee of Instruction of the
Mass. Institute of Technology
Sir;

At a meeting of the
Faculty of the Institute
held this day it was
voted that the Secretary
be directed to communicate
to the Committee of Instruction
a schedule of the apparatus
and furniture that will
be absolutely necessary in
each department of the
School at the Commence-
ment of the next term
Oct 1 1866.

I herewith enclose
a memorandum, in ac-

Cardinal with the above
vote

Respectfully

W. P. Ackriss
Secy of the Faculty

Enclosed with the above
are

Respectfully

W. P. Anderson

Act of the Faculty

Commonwealth of Massachusetts.

In the year One Thousand Eight Hundred and Sixty-six.

Resolves

concerning the Universal Exposition at Paris.

Whereas, There is to be held in Paris under the auspices of the French Government, during the year eighteen hundred and sixty-seven, a "universal exposition of the agricultural, manufacturing and artistic productions of all nations;" and whereas our general government has initiated measures to have the United States of America represented in that exposition; and whereas we think it the duty of Massachusetts to cooperate with our general government, in order that the enterprise, ingenuity and skill, of the citizens of this commonwealth may be more fully exhibited on that occasion: Therefore,

Resolved, That the governor, by and with the advice and consent of the Council, be and hereby is authorized to appoint a Commissioner to attend said exposition, and co-operate with the commissioner accredited by our General Government to the Imperial Commission; and also as many agents as to His Excellency shall seem necessary to co-operate with the State Commissioner and any agents appointed by the General Government, in organizing and forwarding the movement in the United States, by furnishing to citizens of Massachusetts, desirous of exhibiting their industrial products at said exposition, the requisite information and facilities.

Resolved, That to carry into effect the provisions of the foregoing resolve, there be allowed and paid out of the treasury of the Commonwealth such sums of money, not to exceed ten thousand dollars in all, as the governor and council shall deem necessary

House of Representatives, May 14, 1866.
Passed, James M. Stone, Speaker.

In Senate, May 16, 1866.
Passed, Joseph A. Pond, President.

May 18, 1866,
Approved, Alex. H. Bullock.

Secretary's Department,
Boston, July 6, 1866.
A true copy,

Olivier Warner,
Secretary of the
Commonwealth



Enclie

435-

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Harvard College, July 18, 1866.

to

Professor William B. Rogers, Esq.

My dear sir

I take great pleasure in informing you that the University has this day conferred upon you the degree of Doctor of Laws, in recognition of the distinguished success with which you have pursued physical inquiries, and of the successful zeal with which you have served the cause of education,

With great respect

Very truly

Yours

Thomas Hill

The Diploma will be sent to you.

[mc 1 4:54]

Brook Hill
announcing the
degree of D. D. Sanford.

323

20 State St
Boston 27 July 1866

Dear Sir

In company with
Judge Hear and other
gentlemen I have an
interest in a Cannel coal
mine near Charleston
West Virginia where we
make coal oil, not very
properly.

The enclosed Newspaper
clip struck my eye a day
or two ago and naturally
interests me.

I should like very much
to be put in the way to
obtain reliable information

as to the Experiments referred to,
but have no idea in what
direction to apply for
light. Can you aid me?
Of course in addition to the
results of the Experiments I
should need to learn whether
any change in the structure
of a steam engine is required
to use oil as fuel.

I am the liberty I take
in troubling you -

Believe me,

Very Respectfully,
yours

Dwight Foster

Prof^r Wm B. Rogers -

Dwight Foster

New Haven, July 31. 1866.

My dear Professor

I was exceedingly
grieved to hear of the death of
your excellent brother. The announcement
took me wholly by surprise; for I had
always thought of him as in perfect
health. We could not have
said less in the Journal, and
it is a gratification to know
that you are pleased with the
brief tribute to him. Through his
labors, he has made an impress
on the very foundations of Geological
Science, and one that will
remain to his honor through all
time: (a share of which, I may
add, is yours). I thank you

T-F

R 737

For your letter and
 all it contains respecting
 the American Association
 I am happy to say, is to remain
 in force, and under good auspices.
 I am, Sir, your
 Obedient Servant,
 Wm. D. D.

132 Freeman St

Boston

Aug 10 1866

My dear Sir

It seems
an absurdity to
write to Loxbury
while the chances
are so enormously
in favor of
your being all
the while en
route for Temple
Place. But on
returning from
Mt. Desert I find

a letter from Dr.
Kneeland in which
he asks me to make
formal application
in his behalf to
the Govt. of the
Inst. Mech. for
the position of
secretary.

What I can at
present do any-
thing more or
better than to
inform you of
this request
I do not see.
Hence this note!

I have, — and shall
continue to hold
until I can see
or hear from you,
several papers
(tabular view of forms
of bonds) for you
which were left
by Elliot when
he sailed.

I can find
neither head nor
tail to the Inst.
Mech. — in the absence
of so many of
its officers.

Some body should
be procured to
represent us -
and that as soon
as possible.

With special
regards to the
Mrs. Rogers I
am as ever
yrs most truly

Frank H. Storer

Storer.

Map Inst of Technology

Boston, Aug 29th 1866

Dear Mrs Rogers.

I take such paper as I have at hand to answer your welcome note of yesterday, just recd. I am delighted to hear that our dear Prof. is getting on so well. The Adv. I wrote about in my last announ. is the time of the Examination — and also five courses of instruction for the information of those likely to want special courses.

I think the Prof. had better see it, for he may think it best to separate the Circular part of the Adv. from the simple announcement of the Examination. Besides, if we announce these courses, which seems to me best, I think one or two should be added, and especially that on Geology & Mineralogy. I am over my hurry — can obey at me any summons I may get from Sunny Hill. The gas pipes are going in at the same time, but not so as to affect the special details of each room. This needs more careful study, upon which we

are now at work. Mr Shad is here with
me nearly every day, and Mr Malworth fre-
quently.

The ducts for the Chemical rooms, one in
the Qualitative & store in the Quantative, are
in hand & will be done in time. The piping
of the Chemical floor is about done; the
boilers are set and the floor for the
engine laid. The cold air ducts will
be in in a few days. In short we are
doing all we can to expedite matters.

Hoping that the Pop's health may continue
to improve & am with love to all

Your truly
C. J. Runkle.

To R. M. Copeland

Concerning his efforts
on Uni-unites
to the attention of
Engineers

Paris. le 29 avril 1864.

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Monsieur,

J'ai l'honneur de vous adresser ci-joint
une introduction pour la Commission des arts
et métiers, ainsi une lettre - M. Tresca sous direction.
Et un abrégé, quelqu'un pourrait
peut-être vous l'adresser - le plan.
la Commission est rue St-Martin. 292.

J'y joins un Carte pour M. Perdonnet,
direction de l'École centrale, qui sera probablement
absent, mais quelqu'un pourra vous donner
donner un exemplaire du programme

de l'enseignement. L'École est sur Charignay. 7.

7- Vous ferez voir à l'École des mines,
afin d'obtenir le programme imprimé
d'admission; ~~à~~ j'adresserai, les
quel j'aurai. Le Directeur et le
leur directeur de cette École par absence.

Si vous désirez en'annoncer la visite
venillez vous adresser au Comisary - M. Buisson.
avec ma ~~part~~ part.

Venillez agréer, Monsieur, l'assurance
de ma considération la plus distinguée.

A. Daubrée

Monsieur Verdoulet, Directeur de
l'École Centrale des arts
et manufactures
A. Daubrée,
Ingénieur en Chef des Mines
Membre de l'Institut
Demande à M. le Directeur de l'École des arts
et manufactures
91, rue de Grenelle-Saint-Germain

Monsieur Serdounet, Directeur de
l'École Centrale des Arts
et Manufactures
A. Daubrée,

Ingénieur en Chef des Mines

Membre de l'Institut

Demande à M. le Directeur de l'École Centrale

91, rue de Grenelle Saint Germain

Introduit M. W. B. Rogers, physicien
distingué des Etats Unis, qui désirait
avoir le programme de l'Institut de
l'Ecole Centrale des arts & manufactures.

Handwritten text, possibly a title or header, mostly illegible due to fading.

Two lines of handwritten text, likely the beginning of a letter or document.

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Niagara Falls, Sept 3, '66.

My Dear Sir,

I am an applicant to the State Dept for one of the Honorary (unpaid) commissions to the Pan Exposition of 1867.

Mr. Swan, at this place, yesterday, expressed to a friend of mine his willingness to appoint me; but said there was a great pressure upon him; and suggested that some written recommendations should be sent to him at Washington, to make a show of interest in my behalf. There are many of my friends to whom I might safely appeal, under these circumstances, and some to whom I am appealing, and whose support I feel will be valuable. Among these I count yourself as of

those whose voices will carry with
them the highest weight.

I do not ask, nor is it necessary,
that any very high commendation
should be bestowed upon me in
testimony of my fitness. It will
be sufficient, I presume, to say,
that in your opinion, my appoint-
ment would not be an unfit one,
and that it would not be likely
to bring any discredit on the
country. If you can and will
say so much as this, I shall
esteem it a great favor.

I trust you are recovered
from your temporary indispo-
sition, which unfortunately de-
prived us of the pleasure of your
presence at Buffalo. I am
happy to say that the Assocⁿ

went on to the completion
of its labors in perfect harmony,
and that the session was
uncommonly interesting.

I am, Very truly yours,
F. A. P. Barnard.

Prof. W. D. Rogers.

P. S. I shall return to New
York within the next week or two.

To
Pres. Barnard
Col. Coley

Ms. Sep. 20. 66

From H. L. Wayland, Esq. 60a

Providence R. I.

Nov 1 - 1866

President Rodfus.

Dear Sir

If I am not in error,
you were at the Univ. of Va. when my late
Father, Francis Wayland, & Mr L. Allen
visited the Univ. in 1850; & it was at your
house that they were entertained.

I venture to make an enquiry or two
to aid me in preparing the part of his bio-
graphy relating to the new system then intro-
duced into Brown University.

May I ask, whether when was the sys-
tem then in use at the U. of V. intro-
duced? Was it in accordance with
Mr Jeffers's original plan? Was the
method successful? Was it substan-
tially the same introduced in Brown
Univ. as recommended by my
Father in his Report of 1850?

How far is the Institute of Tech -
~~Edin~~
nology a result or carrying out of the
plan adopted in the U. of T.

Permit me to add that if you recall
anything connected with his visit,
of interest, or if you have any letters
from him of any moment, &
the Institute myself greatly favored
by receiving them, the letters of
course to be returned.

I beg leave to express my sense
of the value of the work done by your
admirable Institute. While very much
of my past life has been inveterate in classi-
~~cal studies~~
cal studies, & am painfully impeded
with a sense of their inadequacy to the
wants of the mind, or the demands of
the age.

I remain, Sir,

Very truly yours

H. L. Wayland

Toth's of Rogers
replied: -

H. L. Weyland &
Reply.
March 16. 1867

W^m B. Rogers Esq.

New York.
Dec^r 13. 1866

Dear Sir,

Several years ago
a coal & salt property called Warfnes.
& lying on the Sug. Fork of Big Sandy
River in Lawrence County - Kentucky
& then belonging to the late Gen^l Geo B.
Floyd of Virginia - was inspected either
by you or by your brother - the late Mr Rogers
Sorg. in Edinboro. I am informed that this
inspection was probably during your sojourn
at the University of Virginia & where you
was Geologist of that State. The records of
Gen^l Floyd & his friends are under the impression
that either you or your brother made a report
connected with this property - which with other
valuable records in connection with Warfnes were
burnt during the war. This report would now
be of great value to Mrs Floyd & through me she
begs the favor of you to furnish her with a copy
of this report if in your possession or to give to her your

Carrington, Chas. S. X

Kind assistance in obtaining such a copy - if
the same be in existence. If there was no
written report - if you have any information as
to this property - she believes that this infor-
-mation will be of great value to her & she
throws herself upon your kindness in this regard.

I shall be happy to receive a letter from
you directed to the care of Thos. L. Brown.
95. Liberty Street - New York.

I have not the pleasure of your acquaint-
-ance but you are well known to me not
only through your reputation but also through
many acquaintances of your own in Virginia &
among others several of the Professors now
at the University of Virginia. Hoping that you
will pardon the liberty which I have taken
in this letter I am.

With great respect.

Your Obedt. Servt
Chas. S. Carrington

x A letter to

Prof. William Barton Rogers