7 Papers, Jan - June 1865

1. Temple place
Jan. 1. 1865.

Dear Sir.

I have been intending to write to you since my return from Europe in Nov. but the cares & tasks accumulated during my absence have left me little time for this pleasant duty.

While abroad I had the great satisfaction of learning through the Secy that you approved of the plan of Instruction which I reported to the Govt. in May last & of which I sent you a printed copy just before leaving. You will see that in carrying it I have kept in view the two cardinal objects of educating, as widely as possible, a knowledge of the fundamental principles of Science as applied to the Arts, and a

to systematic students a thorough training in the Science & operations belonging to the several professions of the Mechanical Construction & Chemical Arts. Some eminent scientific friends abroad including one of the directors of the Conservatoire des Arts et Metiers, & the ablest mathematical Engineer of G. Britain expressed a very high appreciation of the scheme as set forth in the pamphlet.

Thanking you deeply to begin to
[illegible] now preparing to
[illegible] lectures for the coming class
offer some of the classes in Che
[illegible] what wants for the completion of our
building in Jermyn, & Turley, I
[illegible] planing ~~[illegible]~~
[illegible] that I am endeavoring to make
arrangements for offering some
classes in Mathematics, Dra
[illegible] Physics & Chemis
& the French language,
the rooms in Jermyn St
I hope here shall be
to make a beginning
[illegible]. As soon

your indulgence of 11
to bear with this unav
delay, & the assurance
proper efforts are being m
to ~~cause~~ bring about the
result — & whether ~~or~~ other
so deeply interested your presence
an early & [illegible]
Wishing you a happy New year & that [illegible]
[illegible] [illegible]
[illegible] seven you may witness the large [illegible]
[illegible] & remain with good respect. [illegible]
[illegible]
Ca ~~for~~ valuable but inexpensive
set of Models & description fur
& ~~[illegible]~~ [illegible] & the appearance of
protection which I selected in
Europe will be brought into
immediate use.

I need not say how charged I have in
[illegible] feeling, with which the Institute regard
[illegible] generosity. Knowing perhaps better than
[illegible] my colleagues the magnitude of our
work & of its pecuniary requirements, I
[illegible] claim with [illegible] upon the ability
[illegible] appreciate your benevolent intentions &
[illegible] to thank you personally for the
[illegible] evidence of your beneficent
[illegible].

[1/1/1865]

[illegible] for this purpose should the
[illegible] I will send you a
[illegible] has been reason to hope
that in this way we may
~~have~~ secure quite a respectable No.
of students, desirous of preparing
to enter the 1st year's regular
course or to be advanced
perhaps to begin with the next session
second year's studies. X

I have from Mr. Rogers, that
~~although the~~ the person in Pa.
of whom he is the apparent representative
~~although~~ is ~~both~~, certainly engaged
in ~~endeavoring~~ to ~~raise~~ secure
subscriptions. or what for ~~for~~
~~generous gift~~ is contributing $50.00
~~1st~~ 1st of May next, ~~[illegible]~~
some additional time to be
to report to you ~~[illegible]~~ success
of this. I have no doubt
[illegible] Mr. Rogers I by the way
[illegible] Mr Rogers & the
[illegible] in asking you

Prof. Rogers "Brief" on B. Soc. Nat. Hist.
for Gov's Message of Jan. 1865

The Boston Soc. of Nat. History has removed its Collections & its Operations to the new building on the land granted by the Commonwealth on the Back bay, where its museum thrown open to the public on stated days attracts a large & constantly increasing number of visitors including many who frequent it for special & systematic study. ~~The first impulse given to the operations of the Soc. was shown by the important additions since the opening of the new building in June last as shown by~~ The important additions to its museum & library and the zeal of its active members since the opening of its new building in June last give assurance of the increasing benefits which its enlarged means of usefulness will enable it to confer on the science & education of the Commonwealth.

The Mass. Inst. of Tech. is making satisfactory progress in the prosecution of its objects. Its meetings as a Soc. of Arts are well & zealously attended & by the opportunities they afford for communicating & discussing subjects relating to the practical Arts and Sciences, are helpful to Students & stimulate the investigation on these subjects and to appreciate the Principles which lie at the foundation of the Industrial Arts.

Through the Commw. of Mass. the Inst. has passed a Programme for its School of Art.

Looking to the importance of early carrying into effect the entire plan of the School of Art & of providing also for a second building to accommodate the Museum of Industrial Arts, it is satisfactory to know that the liberality of the Commw. so bountifully shown to the Institute ~~by its friends continues to be regarded as of its~~ is still actively regardful of its interests, & that the generous donor to whom it has heretofore been so much indebted for aid, has recently tendered a further munificent contribution on condition which ~~contin. there is such proof of being~~ will doubtless not ~~& which can~~ & which can be proof of being carried out.

There is one other point concerning my affairs I might to speak
I am advised by several commercial friends here to discontinue my
in getting my property exposed by engaging some intelligent and thorough
Sale Commercial House in Boston or New York. Know well to you
or Hilliard or Mr. Savage to undertake the investing & whatever
management, Hilliard can attend to it at any time, in some form
of Merchandise or floor or any similar commodity certain
of early or immediate sale in Liverpool at the market price
and ship to their Commercial agents in Liverpool to sell
in Hinchcliffe with Orders to remit the proceeds to me
Mr. Smith this a very sound disposition, and I requested
and Hilliard to advise Mr. Savage if he can assist to make
enquiry among your Honest Commercial friends in Boston as
to the practicability of this plan. I should be pleased to hear from
Caledonian always is good to say in the interest of the Drain Trade
this Country & Boston. Perhaps it may be advised in intro
ducing the subject in Cork. Floor were thought as a good medium
to limit from the Hill aged from time to time.
Mr. Hodgkiss Robert and Jane Nathan Hilliard, Mrs.
Hodgkiss Robert and Jane Nathan Hilliard, Mrs.
Jane Hodgkiss age. Thomas Cornelius & his
Letter written to Robert enclosing one to Hilliard 15th April last.

[1/5/1865]

Monday the house, is improving daily. I get up with all my Clothes off for 5 or 6 hours every day. This you see I am doing very well. I have a little cough which I attribute to a relaxed state of the Palate, but I have begun to gargle it with a Solution of Nitrate of Silver and I trust this annoyance will soon abate. My Lungs are still in their sensitive state, a shortness of breath and the feeling of tiredness coming on on slight exertion. I make any considerable exertion. This and my inability to sleep have a chill damp effect upon me. These complaints in the course of which I expressed in my last letter, that I must seek as soon as possible a milder more Climate than this. Cold, wet and windy it is. I sometimes think of trying Torquay, Devonshire, which adapted to many forms of pulmonary trouble, but

[1/5/1865]

I am not aware of a sanatorium in Torquay. Please write to Dr Jacobi for me, & inform me. I have written to Mr Thos Cook to instruct me through Thomas & Ship the Article at Liverpool. In a day or two I shall leave this city and I will then write to Mr Firth instructing him through Mr Bates Building House in Liverpool he is to borrow and ship I leave off to resume my letter tomorrow as it is growing dusky and I am getting tired.

Friday 6. January 1865. I take up my pen this morning in my Library where so strong is the chill wind from N.W. that notwithstanding a grate full of actively burning Coal is only higher than about 55° F. My bed room I can keep at 60° but with certain winds it smokes into it badly. This morning's Post has brought me a note from Capt Cook to direct Mr Firth to send the Coal Cutter to the house of Geo Warren & Co, Liverpool the Masters who will be says, send it direct to Boston by one of their Liners upon the payment of freight when it arrives. I shall therefore write to Mr Firth today

Since getting your last letter expressing your wish to receive it I have written to Mr Thos Cook to instruct me through Thomas & Ship the Article at Liverpool.

or tomorrow. I have also just received a
friend's letter from Dr Bennett of Edin:
which determines me to go as far as I can
to Mentone, not to Torquay. He has tried
Torquay, and says the temp: there is very
changeable, and the winter climate does not
differ much from that of Glasgow to produce
a deleterious effect on the lungs. He adds
he has no hesitation in recommending
Mentone as the best locality I can seek.
I can live there comfortably with another
less than £3 per week and all my expenses
travelling thither, living there 3 months &
returning certainly £60 sterling. He kindly
offers me introductions to several agreeable
persons there, including Dr Henry Bennett
of London – physician of great skill in the
treatment of the lungs.

Now you will perceive
my dear William I must take some
funds remitted me by Hilland & use them
to take this apparently essential step to
the restoration of my health and to secure the
retention of my Professorship. If on the
receipt of this he should not have already
despatched an adequate Amt, say £100 in
U.S. 5–20s Bonds, please urge him to do so
with delay, even if he should have to borrow
or sell a little stock easily replaced all
when sufficient dividends accrue. Tell him
that the funds I set in my chest for
the effort or nothing writing prevents
this morning acting on my intention of
yesterday to write to him.

I fear too cloudy, damp and
relaxing for my complete restoration. I have written to Dr
Ramsay there, a friendly medical
to tell me how he thinks I will
suit, also to my kind friend
Bennett of Edinburgh, in whose
knowledge of disorders of the Chest and
close acquaintance with Medical
Climatology I have great faith
for his advice what to do, and
where to go. Perhaps I may hear
from one or both of them before
I post this letter tomorrow. My
impression is that Prof Bennett
will advise me strongly to go
for the residue of the season till
about 1st of May to Mentone in
Italy, or for thanks to Napoleon
now in France. From all accounts
it is the best winter climate for
persons travelled with any disorder
of the Chest, in all Europe. It is
sunny and dry and free from harsh
winds. The Lemon which can
not bear 1° below Freezing pt,
ripens there all the year round

I regret very much to read the opinion Dr Ramsay gives of your health

If I stood in need of sound medical advice or skill, I should have it there from Dr Henry Bennett of London, a friend of Prof B. of Edinr: who will give me a letter of friendly introduction to his namesake, as he promised me he would, when we meet at Bath.

Notwithstanding the monotony of my position just now, my spirits are cheerful and I am full of good bright hopefulness. Nothing dear brother cheers me as does the anxiously awaited letter from you, such as that of the 20th Decr which came to me yesterday – It delighted me and has made me very happy in telling me of your improved health &c. Then the progress of matters in our dear native Country is also most cheering, I would have taken steps to send you the Model of this Coal Cutting Machine still in Mr Fairbairn's possession

2/ (4)

142 Beacon St
Jany 7 1865

My dear Sir

I thank you and the members of the Institute of Technology for the honor you have done me in electing me a member of the Institute.

I shall avail myself of the card, you so kindly enclose, and attend some of the meetings – I wish I could be present at all of them –

I remain
dear Sir
Your very Obedt Servt
Geo. W. Wells

Wm. B. Rogers, Esq
Pres. Mass Inst Tech.
Boston.

3

38 Beacon Street
7 Jan.y 1865

My dear Sir

I have the pleasure of acknowledging receipt of your letter of 1st Dec.r (Postmarked 5th Jan.y) informing me of my election as a Member of the Mass.tts Institute of Technology. With a grateful sense of the honor conferred, I beg leave to accept it.

Thanking you for the courteous manner

in which you have
communicated this
vote of the Institute,
I remain, my dear Sir
With great respect
and regard
Your obedt Servant
James Lawrence.

Wm B. Rogers Esq.
President Mass. Inst. of Technology

Fr James
L Anderson
C A Bowers Elect

4)

(X)

Amherst Ms
Jany 11th 1865

Dear Sir

I beg to acknowledge the receipt of your communication informing me that I had been elected a member of the Mass Institute of Technology & with full appreciation of the honor conferred I accept the membership, and shall hope to have the pleasure of occasionally attending the meetings of the Society, and with my best wishes for its enlarged usefulness I remain dear Sir with sentiments of the highest regards

Yours Obt Servt
Joshua Stetson

Prof Wm B. Rogers
Pres. Mass Inst. Tech

7

From J. Shaw Stitson.

Acknowledging check

5/

(X)

Dedham, Jan 11th 1865

Dear Prof—

I wanted to see you last night, but was obliged to leave before the close of the meeting to get the train. In the early part of the evening I had a long talk with Mr Roff as to the best way of bringing the school of mines in the Inst. to the attention of Mr Hooper. I feel sure, from the tone of his letter, that if the subject is fully & clearly laid before him, his decision will be favorable. Mr Roff & I concluded that the best course would be for you to address a letter to Mr Roff, at his

request, which he will forward to Mr Hooper. All the documents should be sent him, & the proper means taken to inform him of the plans & aim of the Institute, its progress & present condition and wants. The vast mineral wealth of this country, the present demand, which must inevitably be largely increasing, of educated scientific Mining Engineers, the fact that there is not an Institution in the Country where young men can systematically & thoroughly be trained for this work — all these facts should be brought to Mr Hooper's attention. It is important that this matter should be settled as soon as possible, & that Mr Hooper should annex the same conditions as Dr Walker. We shall then have a double motive to raise our $50.000. There is another consideration to which I called the attention of Mr Rf. Dr Walker has signified his wish to do something more for us when we have complied with the conditions to secure the $50.000.

If Mr Hooper gives us fifty thousand & we raise fifty, it is likely that Dr Walker will give us all he intends to in anticipation of our having in fact raised $100.000 in addition to his fifty.

At any rate, we think a note from you showing how important it is that this

department of the Industrial School should be put into operation at once, with the proper information, will be all that is needed to enable Mr Ropes to decide the question — & in all probability in our favor — I told Mr Ropes that now is the time to raise funds, for we shall have a year or two, or more, & they can not far distant, when it will not be so Easy as now to do it. It would not do the Liriam Committee any harm for you to push them a little now & then — for the fact is, they can not know as you do, the condition of our Institution constantly gasping for breath.

Simple means will secure the right men & all needful appliances, & go far towards commanding success —

Yours truly
I D Rundle

Prof W. B Rogers
Boston

6)

Dedham, Jan 5th 1865

My Dear Prof-

Since I last saw you I have been thinking over the subject of the division of labor in the Industrial School - & have thus been led to study anew the "Scope & Plan" - & I must say that, although not surprised, for I knew how exceedingly able it was, yet I am more than ever delighted with it - I have analyzed it with the greatest care, carrying in imagination students through each of the courses from year to year, & I find it to my mind, perfect in all its parts. I am sure that in this Country, (& I doubt if in any other, even in France,

where the largest experience & study have been devoted to the subject, no Institution has ever been based upon a comprehensive & perfect a plan; & I trust that the Government of the Land will not rest satisfied until they have secured every facility for its complete execution.

But the Professorships was the point to which I wished to refer. I have first considered the purely scientific courses, or the foundation on which the professional courses are to be built.

These fundamental, or scientific courses, are gone over mainly in the first and second years, & the applications made in these years are primarily, if not mainly, to illustrate and expound these courses. &

the Professors having charge of them should therefore necessarily be entirely familiar with all the applications, as part of the apparatus, so to speak, of their instruction -

In the following grouping I include descriptive Astronomy in Elementary Physics, and use the simpler cases of Spherical Astronomy as examples in Spherical Trigonometry. The higher parts & questions in Astronomy would come in as applications in Analytic Mechanics -

Descriptive Geometry is begun in the second year, not only, because it is an application of geometrical principals to the representation of the figures & various relations of the forms of bodies according to certain conventional methods, but it is

so powerful an instrument, that it is necessary that the student should as early as possible in his course become familiar with it.

We have then

Algebra Plane Geometry Solid Geometry Plane Trigonometry Spherical Trigonometry	The elementary mathematical courses with the theoretical & practical applications named in the "Scope & Plan"
Analytic Geometry Differential Calculus Integral " Finite Differences " Variation " Analytic Mechanics	The higher mathematical courses with the proper applications mainly for the sake of illustration of the principles involved — these

courses continue to be under the Prof of mathematics until the student enters upon those professional courses requiring their applications. The Prof of a professional course will not interrupt his course to instruct in the elements of any of the above subjects —

The mathematical courses as grouped above, might be in charge of different Professors — but it is probable that better results would be attained by putting them both under the same Prof with such aid as might

all be ranked as full Professors or not I am not quite sure –
You will see that VIII and IX are new according to the list we made out – & I feel that they will commend themselves to your judgment. I think upon the whole that I would attach the drawing of the Civil & Topographical Engineering department to VIII th Professorship.
You will readily see from what I have hereto for said of Descriptive Geometry why I give it the rank I do – & the mechanical, topographical & c drawing goes with it almost as a matter of course.
You have given ample reason on page 9 "Cost & Plan" for IX – & by examining the courses of the 3rd and 4th years his sphere will be apparent.

VI I would put at the head of the school of Design.
I would put II at the head of the Laboratory of Physics & Mechanics; III at the head of the Laboratory of General Chemical Analysis & Manipulation; XIV at the head of the Laboratory of Metallurgy & Mining; and XIII at the head of the Laboratory of Industrial Chemistry.
In what precedes I have doubtless made mistakes which you will readily point out to me – but it will serve as a good foundation to work on when we again meet upon this subject.
I should not be surprised if niche XIII is the one our friend Watson is best qualified to fill – & if not Warren of the Troy Inst. who has prepared quite a series of books on Descriptive Geometry &

& Drawing - & especially if we should find that he is a good teacher. I have had a long talk with Henckie and XI is just the place he is especially qualified to fill - but he says that he does not see how he could take it without breaking in too much upon his own professional work.

In my opinion X is one of the most important in the School, & I wish I felt sure that we had just the man to fill it.

I suppose we shall still want VIII, X, XI and a good share of I - but it is at least safe to say that it will be physically impossible for him to perform so much labor.

I suppose that the Committee on Instruction in their Report, on on the detailed organization of the School, will not only select the titles of the Professorships but define particularly the sphere of duties of each Prof.

[1/15/1865]

Although the whole ground embraced in these XIV Professorships will be gone over by some few students during the first four years, it will not be necessary to fill all the places at once — for the same person may perform the duties of two or more places until the number of pupils makes the work too arduous.

Still, for the good of the School I should be glad to see them all filled at once with the best men — Each one would then have ample time to elaborate his course & methods of instruction — & the whole machinery of the School would get into good working order while the number of pupils was so few, that each Prof

could give all the instruction in his own department –

In this view, it might be the best plan to appoint in many of these places young men, who would take them on small salaries & grow up with them. They would thus grow up under your eye & direction, & would probably make better men than older ones who should ~~should~~ come in with long settled methods & habits of instruction –

Taking all things into account I am not sure but this is the very best course the Institute could adopt – because the plan consults present economy & future efficiency.

Hoping that you may not feel bored by this long scrawl I am

Ever yours truly
P. D. Runkle.

Prof W. B. Rogers –

8)

Acad. of Arts & Sciences
Boston Mass.
Jany 28. 1865.

Dear Sir

I have the honor to inform you that the Librarian of the Am. Acad. of Arts & Sciences by the Steamship City of N. Y. has addressed to the Bibliothèque de l'Institut Impériale de France, certain docs. relating to the Hist. & the educ. & other interests of the State of Mass & city of Boston — together with some Scient. pubns.

These docs. have been recently collected by the Acad. for the purpose of being presented to the Inst. and are now sent as a mark of the esteem in which the Acad. holds the learned labors of that illustrious body and as a return for the valuable pubns of the Inst. sent to the Academy.

My resp. & yours
William B Rogers.
Cor. Sec. Am. Ac. Arts &c

M. A Tardieu
1er. Sous-Bibliothecaire
de l'Institut Impérial.

Letter to Mr. Tardrew
Lib. Librarian of
the Lib. of the Dept.
Paris.
Jan. 28. 1865.

To acknowledge receipt
of the vol. of doc. just
shipped to him by the
Asst. A.C.

11)

1 Temple Pl. Feb 6. 1866

Dear Sir

After you left us yesterday evening it occurred to me that my friend R. M. Copeland, whom you then met - might be induced to accompany you in your proposed visit to the Elk & Kanahwa region. He is familiar with engineering measurements & drafting & is a close observer, & of most scrupulous fidelity in all things. Whatever he put down as positive observation would command my entire confidence. He has been engaged in surveying & such enterprises for several years & has much practical knowledge that would be of value in this exploration.

In regard to any participation on my own part in this or other like enterprises I beg to say that I have uniformly kept myself entirely

aloof from them & that often as I have been solicited to make surveys for parties or to vouch for the value of mineral properties I have unconditionally refused to connect my name in any way with these transactions.
This must continue to be my rule of conduct. At the same time I shall always be ready freely to give the public the benefit of any knowledge I may possess of the geological features & resources of Western Virginia or other regions with which I am acquainted.
Wishing you a pleasant trip & successful trip I remain very truly yours

Wm. B. Rogers
by E. R.

To Mr Boyton.

To. W. Peyton.
in relation to
Survey of Elk
Coal Lands –
& recommendation of
R. H. Copeland –
for it work.
Feb. 6. 1845.

(12) Archives

Feb. 7. 1845.

Invited Mr. Thos. Appleton to meet me at Inst. Room, for suggestions about the Exterior of Inst. building.

He thinks that the amount & kind of ornament indicated by the models would be quite compatible with the plain character & material of the structure, & would produce a good effect.

In his opinion the bronze sculpture would admit of a very satisfactory combination of light & shadows. & the frieze provided the forward figures are in strong relief — & the sculpture is in bold lines without descending at any nice details which would be wholly lost, besides adding to the expense. ~~I suggested~~ The whole group should be effective as a Bas-relief & suggestive rather strongly demonstrative.

He gives a very decided preference to Mr. Milmore's Model Sketch of the frieze — as well as to his better execution for the square slab.

He thinks the figure of Mnemosyne very pleasing for the top.. & prefers Milmore's Model very much to the other, except in the bas-relief Phrenology of Dr. Cheever.

Mr. Benj. Robert also gives a decided preference to Milnes's conception in regard to all those of the works — thus thinking with Mr. A. that the Frieze of Mr. Barry has a good deal of merit.

He is very doubtful of the possibility of getting a satisfactory effect with the brown Sandstone — on acc.t of its absorption of light — only by the strongest relief & most vigorous chiselling and any thing he accomplished, if even then practicable.

He regards the Material as yet more objectionable on acc.t of its want of durability under the action of water & frost — The collecting of masses of moss behind the figures, & its connection with Ivy, with the effects of alternate thaw & freezing would be the work, soon do demolish them.

On my referring to the Newark Stone he thought it would withstand these actions far better, & that the lighter tint, while preserving harmony with the general coloring, would have the advantage of more distinct lights & shadows —

13

(X)

1. Temple place
Boston Feby 11. 1875

Dear Sir

The Mass. Institute of Technology is proposing to have a die cut for its seal, & wishes to have it executed in superior style.

Will you oblige me by sending to my address a wax impression of your work in this line that we may judge of its character.

It may guide you in selecting a specimen, to be informed that the seal is to be something less than 2 in in diameter, having for its chief features two erect

human species with an
altar between; the whole
requiring strong relief.

By giving early attention
to this request you will
confer a favor on

Yours truly

William B Rogers

Pres. Mass. Inst. Tech.

Letter of introduction –
to Dr Dickey
& Mr & Phila.

to W. Parker. Phila
Batt & Burlington N.J.

(X)

My dear Sir:

I send you the boys I mentioned to you on Saturday. French has not quite determined to come and wishes to see what it is. I shall advise his father to send him. The others are ready to join.

Tuckerman and Higginson have a good knowledge of Elementary algebra, have been over Davies' Elementary plane Geometry and have some knowledge of plane trigonometry. Preble has a little knowledge of algebra and plane geometry. He has been an invalid and but little at school. French knows algebra and plane geometry pretty well

but nothing of trigonometry. They are all lads of fair average ability, not more. They are all excellent fellows interested and in earnest in what they undertake.

I was just preparing to put them carefully through a thorough review of their algebra and a careful study of Davies' Legendre - but I tell them they can get so much more from you than I can furnish that they had better by all means join your class.

Young Tuckerman has read with me a large portion of Ganot's Physics in French, and he has some knowledge of German.

I wish you could add to your course exercises in English grammar and analytic and Logic.

Respectfully and very truly yrs

H. P. Atkinson

Cambridge Feb 20 '65

from W. P. Atkinson.

Lady Stanhope to
Mr Sc: & Ind. Sc.

14

Feby 22.. 1865.

Dear Sir.

It gives me pleasure to inform you that the Build.g Comm: have this day signified by vote that they prefer your design for the pedestal & that of your brother for the Square Niche to the other designs ~~[illegible]~~ of little merit which have been thus far submitted to them, & have directed the payment to you only & brother the stipulated premium of ~~[illegible]~~ sixty & twenty dollars respectively, ~~the premium stipulated for the~~ for the Bronzes.

I need hardly add that the award of the Comm. is simply a decision between the particular designs submitted, and is not to be interpreted as fixing an ultimate choice or in any way committing the Institute to further action on the subject.

Yours very truly
William B Rogers.

The reserve thus regarded with known way that of entities for the object. The offered designs submitted by Mr. Sanders

To — Melmin

Feb 22 65

Boston Feb. 22. 65.

Dear Sir,

I am directed by the Building Com. of the Mass. Institute to convey their thanks for the trouble you have taken in preparing Models for the post-decorations of the new building, & to say that ~~although~~ while giving the preference to other subjects at the same time they recognize in your work the proofs of artistic skill & ability.

Yours truly
W. B. R.

Garrett Bailey Esq.

To Garrett Barry.

Feb. 22. 1845

Bristol, Feb. 23d, 1865.

Prof. Rogers.

Dear Sir.

I would like to gain some information ~~in~~ of the Mass. Inst. Tech. I have completed my first year at the Lawrence Scientific School, during which time I have finished Descriptive ~~&~~ and Analytical Geometry and the Calculus I have also some knowledge of Geology & Chemistry, now I would like to know how far along in the course I can get at the commencement of the next term. I would also wish to know what are the ~~terms~~ rates of tuition, and when the next term commences. I wish to fit myself for a Mining Engineer as soon as possible If everything proves satisfactory, I shall come myself and bring 2 or 3 of my classmates with me. Please send me a prospectus, and any other information concerning the Inst.

which will help me to decide
whether to come or not.

Truly Yours
Chas. E. Barney

Box. 163.

Bristol.
R. I.

P. S. What Mechanics will you use?

From Chas. E. Barney
Bristol R.I.
about Sch. Dis. Sc.

Answered Feb. 26. 1865.

Lexington, Feb. 25, 1865

William B. Rogers,
Pres. Mass. Inst. Tech.

Sir.

I would inquire respecting the cost of attending the Schl. of Ind. Science, Mass. Inst. Tech., conditions of entrance &c. I have been for one term, a student at the Lawrence Scientific School.

Please direct to

Yours Respectfully,
James E. Parker
Teacher Gram. & High Sch.
Burlington
Mass.

William B. Rogers,
Pres. Mass. Inst. Tech.,
Boston,
Mass.

No. 16 Summer St.

Pres
Jas E Parker.
Worcester Hyg. Soc.

Burlington Mass

Feb. 27. 1865 –

795

ESSEX INSTITUTE,

Salem, Mass. March 7th 1865

Professor W. B. Rogers,
Corresp. Sec'y. Am. Acad. Arts & Sci.,

My dear Sir:

Your note of the 4th inst., enclosing notice of my election as a fellow of the American Academy of Arts and Sciences, was received yesterday.

It gives me great pleasure to accept the honor conferred by the Academy, and I shall ever feel under obligations to the kind friends who thought me worthy of the fellowship.

With much respect,
I remain,
Your obt. Servt.
F. W. Putnam

15

To the Hon. Senate and House of Representatives of Mass. in General Court assembled.

The undersigned in behalf of the Mass. Institute of Technology respectfully represent that in the developement of the plan of the Institute they will early stand in need of large additional space in connection with that already granted to them by the Commonwealth & on which they are now building,

They therefore pray that the Legislature will set aside for the use of the Institute the tract of land ~~[illegible]~~ situated immediately west of ~~[illegible]~~ that now in their possession, & lying between Boylston & Newbury Sts. &c

Signed by
William B Rogers
Pres. Mass Inst. Tech.

M. D Rogers
Ch. Com. on Finance

Boston March 15, 1865.

(X)

Petition to Legislature for Additional Tract of Land.

March 15, 1865

Referred to Mr. Ware.

1, Temple place
Boston March. 28. 65.

Dear Sir.

In reply to your Note rec.d yesterday evening, I send you a printed Statement of the scope & plan of our School, and will here add a more specific answer to your inquiries of the 5.th inst. Sir.

The regular Courses ~~to be~~ to be commenced ~~offered~~ next Autumn will ~~be~~ be conducted in the Order & comprise the studies set forth in the pamphlet, herewith sent, with the exception of some inconsiderable changes, not affecting what may hereafter be introduced.

For instance in the first ~~should be expected to be [illegible]~~ year Course the Student will be expected to be ~~[illegible]~~ in Arith., ~~[illegible]~~ to, be expected to have ~~[illegible]~~ mastered the primary operations of Algebra

~~passing to the Remaining~~
~~Books of Algebra~~ including
the solution of simple
equations, ~~should~~ and to have
~~a good knowledge~~ a good knowledge of the elements
of plane Geometry.

In the other branches
no previous preparation will be
demanded but a moderate
knowledge of Physics ~~Chem~~; the
Drawing of Bates with lighter
the labours of his first year.

To F. S. Cabot.

Com 1-Sch. y R. So.

March 28. 65

Boston Steel and Iron Company.

CABOT & BROTHER,

SELLING AGENTS,

No. 61 BLACKSTONE STREET,

Boston, March 27 1865

Prof. Rogers,

Technological Institute

Dear Sir,

Will you have the kindness to let me know what the qualifications will be for admission to the School connected with your institution? I wish to enter my eldest boy if he can be ready for the regular course -

Yours Respy

Frederick S. Cabot

From Fred. S. Cabot
About Sch. of Sc.
March 27. 65

16

At a meeting of the Mass. Inst. of Tech held on the 5th inst. the Pres't Prof. Rogers announced the death of Dr. Wm J. Walker on the 2d inst. at Newport — & offered the following Resolns — which after appropriate remarks from Prof's T. Thos. Sherwin Nathan Fairbanks & others were unanimously adopted —

Resolved that the late Dr William J. Walker by his wise liberality towards this and kindred institutions of education has entitled himself to a lasting place among public benefactors. —

Resolved that the ~~Inst~~ Mass. Institute of Technology will ever gratefully remember the services of their friend & patron whose timely munificence has so largely contributed to the ~~real & successful~~ prosperity of its plans, & whose his active interest in the prosperity of the Inst. has been a constant source of satisfaction & encouragement to its friends.

(1)

Resolved that the Mass. Inst. of Technology will ever gratefully remember the services of the friends & patrons whose timely munificence has so largely contributed to the early & successful maturity of its plans & whose unchanging sympathy has shown itself in the more recent prospects & intimations of ~~[illegible]~~ ~~more liberal~~ ~~liberality~~ the assurance of further & larger liberality.

Resolutions —
R. C. Cook —
Prof. J. Lesley

June, 1865

(X)

29. Ashburton
" Tuesday
Dr. Rogers

Dear Sir,

The first Monthly Meeting in the session: Concerning the School of the Institution will be held at the following hours during the ensuing month —

Monday..	French..	from 3 to 5 PM
Tuesday —	Algebra "	9 to 12
Wednesday	Applied Chem:	9 to 12
Thursday	Chemistry	9 to 12
Friday	Physics	9 to 12.

~~Dr. Your friend &c~~

Your presence on any or all of these occasions will be most welcomed

Yours truly
Wm. B. Rogers

Notice of Monthly
Meeting to
members of the
Corp. of Harvard.
Feb. 1. 1845.

Cambridge June 4 65

My dear Sir,

My excellent neighbour Mr Stephen Higginson is in some perplexity as to the disposal of his son Louis, one of the three young men I sent in to you. His question is whether to undergo the expense of keeping him at the school another year, with the prospect of making him an engineer, or to put him out fall into a counting-room. He has eight sons - four have been in service in the war - and having so many claims upon him, he does not want to push the education of this one without

good evidence that it wd be best for him to do so. If he clearly has talents, and could turn a scientific education to really good account, Mr H. does not wish the expense to stand in the way. If on the other hand the young man wd be as likely or more likely to succeed in business than in a profession, ~~the~~ his father thinks that next autumn will be the time for him to begin.

Now the impression that I gather from my own experience in teaching Louis is, that he is an excellent and amiable young man, of fair abilities, but with no special aptitude for scientific study, and a little lacking in the energy that wd be needful for a successful career as an engineer. My impression therefore wd be that he wd sooner find his place and earn his living in business when there is a much greater variety of places to fill, and that if a continuance of his studies is to cost Mr H an effort he had perhaps better not make it. I did not hazard a strong such an opinion, but told Mr H. that I would ascertain Louis' standing from you and ask your opinion as to his continuing his course of study next year. May I trouble you to give me briefly the information and your opinion so far as you can form one. I feel a great regard for Mr H. and for Louis and wd be glad to do what I can to guide him, and I have had repeated

opportunity to know how very important the opinion or advice of a teacher may sometimes be to a lad.

Respectfully and very truly yours

W. P. Atkinson

Prof Ropes

Jan 6 1865

21

Columbia College,

PRESIDENT'S ROOM.

New York May 27, 1865

My Dear Prof.,

I recently nominated our friend Silliman for the honorary degree of LL. D. to the Board of Trustees of Columbia College. I thought the compliment due, if for nothing else, to his long faithful service as the (actual) chief editor of the Journal of Science.

The committee on honors in the Board say that it is customary here to require written testimonials in behalf of all such nominations. I have thought of the gentlemen whose testimonials I should prefer

to me, and they are Prof Henry and yourself. If you think you can with propriety express a favorable opinion in the case, will you do me the great favor to ~~offer~~ address to me a line on the subject to be used before our Board, and oblige,

Your Friend & Obt. Servt.,

F. A. P. Barnard.

Prof. W. B. Rogers

N. B. The Board of Trustees met on Monday, June 5. The Committee on Honors I think as early as the Friday preceding.

From Pres. Barnard -
May 27

[1865]

(X)

Brown University
Providence May 16th

Prof. W. B. Rogers

Sir – I saw the other day a pamphlet containing an account of the Objects & Plan of Operation of the Mass. Institute of Technology. I did not have time, then, to examine it as I wished to – & I should like to ask you, (if it is not too much trouble) to send me a copy of the same report –

Yours respectfully
John H Appleton

From J. H. Appleton
Boston Mass.
May 17. 1865.

Requesting Copy of
Pamphlet.

1, Temple place
May 14. 1865.

My dear Prof.

I have undertaken to furnish a brief notice of your honored father, for the proceedings of the American Academy, and am anxious to include in the two or three pages to which I am ~~it must be~~ limited as complete a record of his scientific labors & services as can be thus presented.

The ~~Art~~ very recent Article in the Jany. No. of the Journal, seems to me to be worthy of the subject and is the source from which I have proposed to compile a more elaborate notice.

Can you ~~give~~ possibly give the long ~~important~~ important facts connected with his scientific career, not there stated — or

~~better state what you not~~
~~mean at little trouble if you~~
~~choose the material, you~~
~~You will just obtain the~~

~~by~~ a better state could you
not ~~produce~~ provide the work by
~~the~~ material, ~~or better for~~
the brief notice which I am
~~well to prepare, the~~ to prepare.

I
Can you furnish the
work any important facts
connected with his religious
services not there stated —
or better state what you not
to be expected — these
should be with the
material for such a
brief notice as I propose.
Little as I feel
qualified for such a task
I understand it a sacred
duty to prepare an affectionate
record of your father's
christian & varied services,
but the pressure of daily cares
& tasks leave me no
leisure for such grateful
employment —
Please let me hear from
you soon, as little more
than a week remains for
the preparation of this sketch for my
annual Report.

Written by Prof. W. B. Rogers

Prof. B. Silliman
May 14. 1868

18/ From Professor Pickering

17

Brooklyn N.Y.
April 18th 1895

My dear Professor,

Your note of the 14th reached me this morning, having been forwarded from Long Branch.
I thank you for your kind wishes in regard to the happiness of married life and rejoice that my "good time" has come at last. —
The next best thing since you and I (rusty old bachelors that we once were!) are now married, is the glorious good fortune of the Bolton Sect. of Trab. Phil. and your new excellent Institution — The moment I heard of it I rushed to tell Johnson of your streak of luck and you may be sure that we both heartily rejoice with you.
As regards an estimate of costs of pictures and apparatus in our Laboratory, it is not my

easy to get at it. Mr. Sheffield hand the bills and in many cases the cost of and that of the joiner's work, masons and ~~[illegible]~~ iron work are mixed up with other things of like nature so that it is quite difficult to ~~get~~ determine it. I make a sort of estimate at the time that the Laboratory wing with fixtures etc. cost about $15000. and that the benches for students, with furnaces sand baths, gas, fixtures and plumbers work with apparatus & reagents cost about $6000 and I do not believe this will be very wide from the mark — Joiners work 1500 Sand baths & furnaces 1500 Plumbers job $1000 Gas-fitter $300 Apparatus and reagents say $2000 —

I cannot give you the size of the rooms until my return to Troy I hope to work a few days hence. It must be held in mind that ours is by no means an ideal building for a Laboratory — we had no choice but the problem was submitted to us to make a Laboratory in a building of given dimensions and Johnson and myself tried to do the best we could under the circumstances. I think our main Laboratory is 42 X 35. We accomodate 25 students. The Metallurgical laboratory or furnace room is 42 feet long but not over 15 to 18 feet wide. In addition we have large reagent and glass closets, a balance room and library-room. Johnson and myself have our offices, private laboratory and lecture room on the 2d. floor. If you can possibly arrange it do have all your laboratory rooms on one floor. It is vastly more convenient and we tried hard to have ours so, but we had no choice in the matter.

I will send you further items from Long Branch if you should desire me to do so. Please make my kindest remembrances to Mrs Rogers. I hope we shall have the pleasure of seeing you both at Long Branch before long —

Very truly Yours
Geo. J. Brush

The Respondent
Corey Lefferts —
Affidavits

17)

To Prof. George F. Barnes.

16

1. Temple place
Boston April 14. 65.

My dear Prof.

I have been intending for a long time to write you a word of congratulation, on my own & Mrs Rogers' behalf — but you are now so old a married man, that I can only do more on the occasion than to wish that you may find as much happiness in this new life as I have found & expect to find to the end.

You have probably heard of the Pike bequest to the Institute from which we expect to realize a large addition to our means. I am now preparing to put up the laboratory & lecture room

of our new building - and an
assistant to make some approx-
imate estimate of the cost of
such preparation -

Can you conveniently ascertain
for me the sum expended in
fitting up the Sheffield Laboratory -
giving at the same time the
dimensions of the room or rooms,
& the No. of students which
can be conveniently instructed
in the Office appropriated to
Chem. Analysis & Manipulation.
Any engaging articles to permanent
fixtures such as furnaces -
Sandbath &c. &c of Porter's Architecture

[unfinished]

To Prof Black.
about Cost
of Laboratory

19

71 Chester Square
April 26th 1865.

Professor Wm B Rogers
My dear Sir
The last of the
Lectures before the Teachers of the
Public Schools - at the Hall of the
Society of Natural History will
take place one week from
Saturday (May 6th)
All the Teachers are looking
forward with pleasant
anticipation to hearing you
on that day - I felt under
great obligation to you for your
kindness in making the
remarks you did - on the sad
event which had plunged a Nation
into grief. - Nothing could

have been more acceptable than exactly what you presented — I have heard many speak of it

Notice will be given on Saturday — that the next and last lecture will be by you — which will give a finish to the whole.

I feel convinced that these meetings have been a gratification to the Teachers giving a good impulse. suggesting much — imparting some valuable information,

With high regard
very truly Yours
R. C. Waterston.

I hope you will feel quite free to take whatever subject you please — for although we talked of a particular subject still there is nothing binding & you can do just that which comes with most freshness to your own mind — As it is the last lecture it may be appropriate & desirable to let some part of it have a closing word — and a rounding off. —
And no man living can do that better than yourself.

Waterston

Lowell Bleachery and Dye Works,

LOWELL, 23 March 1865.

Wm. B. Rogers Esq.

Dear Sir,

I have recd. with my aft. rect. a notice that Classes have already been formed at yr. Institute — & I write to ask whether any pupil can join now — My Son has been studying with a view to Entering the Scientific School at Cambridge, & as his teacher has given up his School, I am anxious that he should enter the Institute Classes in Chemistry & French, as soon as possible — Will you be kind enough my dear Sir, to inform

me as to the Conditions of
Entrance &c.

In case it would
be more Convenient to you
for me to call & see you
about this matter I Shd.
be most happy to do So.

Respectfully,
F. W. Appleton.

F. P. Appleton

Lowell Bleach & Dye Works

Ap. 25. 65

22

Lansingburgh Wednesday.
June 3. 1845

My dear Sir.

Your letter of the 27th found me in the midst of the thousand cares connected with the Society & with the removal of my family to our Summer house. I trust however this note will be in time for such use as you may choose to make of it.

Prof. Silliman's service,

to the Science of this country as the actual Chief Editor of the Am: Journal of Science have been very important, and certainly entitle him to our hearty acknowledgements.

Without claiming a place in the first rank of Science his various papers on Chem: & more useful Geological subjects have contributed to the stock of our knowledge & have caused for him the reputation of ~~[illegible]~~ ability in ~~[illegible]~~ these departments.

ability & diversified attainments —

~~I hope~~

Trust that the trustees of your College will accord to him the ~~[illegible]~~ occasional honorary ~~[illegible]~~ expected to be given to such. I am

Very truly yours

William B Rogers

To Prest. Barnard
relative to Prop. Sullivan

To Charles W. Eliot

23

Boston June 6. 1865.

My dear Sir

I write in haste to be in time for the Mail. You will therefore excuse the brevity & bluntness of my communication.

I am now drafting a bill for the Legislature, requesting the Institute to relinquish its property in Boylston St. for $100.000 in the City Stock, which I hope will be put through as speedily as may be, to enable us to commence the School.

If the department has any hints to give us, we should be very glad to receive them. Until the Organization takes place I must be the only person who can act in behalf of the School.

Yours very truly, I feel confident

Written to Gurney at Saratoga as a postscript. It was with satisfaction that I learned from you that Mr Gurney was decided

We shall need at the begin? but Chem. Prof. Ohe have general Chemistry including Assaying & some of the Chem. Arts — & the Chem. Laboratory instructor in its various branches, including Metallurgy — but the details might in many cases be interchanged if found expedient & agreeable. Nothing has been yet settled as to the Prof. of Gen. Sci. & Mech. Arts or these subjects, but have been awaiting the final adjustment of the Walker bequest. But I have talked with Severance

I will be here always second or third Friday & the days or week I shall be at Cambridge & ready to confer with you.

Yours very truly
Wm. Pickering

Yours very truly
Wm. Pickering

P.S. Being able to offer some regular courses next autumn in the new buildings will be a large step. We have fine material & the prospect is very encouraging. Harder to fill — some 25 pupils, when Dana told the people to enter Dana's the second year's course, it left too few.

The great difficulty is to provide up a good faculty of instruction, and I want you to be one of the number. Wish you were here to see as I do the kinds of

But what will I have to do? Shall I be able to offer some regular courses next autumn in the new buildings with a large class? We have fine material & the prospect is very encouraging. Harder to fill — some 25 pupils, when Dana told the people to enter the second year's course, it left too few.

The great difficulty is to provide up a good faculty of instruction, and I want you to be one of the number. Wish you were here to see as I do the kinds of

you to [illegible] Chemistry & the Laboratory with such other Chem. matters as Gen. & Chem. Mech. Arts might arrange between you?

influential persons in the Govt. including Mr. Geo. A. Lowell & I feel safe in promising you for the first year a salary of 2000 dolls.

I shall be greatly disappointed if through the extent of our classes & other demands, a larger salary ~~[illegible]~~ should not be granted the following year. Indeed I look forward to making these professorships sufficiently remunerative to place the Profs. at ease in regard to means. But there is much work to be done, — and you can greatly aid in doing it.

Hearing some time ago of the large offer made you at Lowell, I feared that you might be

1. Temple place
Boston June 6. 1865

My dear Sir

I write in great haste to be in time for the mail. You will therefore excuse the brevity & shortness of my communication.

You have doubtless heard of the bequest of Dr. Walker to our Institute. This will put us in possession by August next of from 150.000 to 170.000 dolls, the chief part of which will be set aside as a fund to aid in supporting our School.

In this disposition has been made on mature deliberation? & with the aspiration which I trust may be secured this

Dussauce, I feel very sure that we shall be able to open our regular courses next autumn in the new building with a large class. We have now in the ~~[illegible]~~ preliminary course some 25 pupils, of whom some will be ready to enter on the second year's course at that time.

~~I am deeply interested now in making up an able faculty of instruction, and would respectfully [illegible] you of the Number,~~

will you not

My great anxiety now is to make up a good faculty of instruction & want you to be one of the No. What say you to taking charge of the laboratory with Prof. Otis.

Chem. [illegible] you & Otis might arrange between you. We shall need at the beginning two Chem. Profs one having general Chem. including lectures on Agricultural Chem. Arts, & the other laboratory instruction in its various branches, including Metallurgy but the details, both of many cases be interchanged if found expedient & agreeable.

As yet there has been no formal action of the Corp. of the Rensselaer Institute. We have been awaiting the final adjustment of the Walker bequest. But I now can talk with several influential persons of the Corp. including Mr. Peter A. Lowell & I feel safe in promising you for the first year a salary of 2000 dolls. I shall be greatly disappointed if through the extent of our classes & the strong & long Salary should not be present the next year.

Indeed I look forward to making this Prof. Department a source rather than a drain upon the Prof. at large.

in Ugland to mention [illegible] there
is Much work to be done &
you can greatly aid in doing it.
Many a long time ago, of the
large offer made you at Lowell I
learned that you might be tempted to
give up science as a profession. It
was with no small satisfaction that I
learned a few days since you determined
to hold to your scientific pursuits. I believe
you will never regret the decision.

The present vacancy recently created
by Rurke & Walker during the Rebellion
by Prof. Dana, leaves Yale in
danger in Chemistry. Becker is good
when free from Dana's harness in
charge of Laboratory at Lowell
Dana, Silliman, Thacher, Porter, Hale
Spencer he considers permanent
in chemistry having gone from of Rule
& Capacity during the experimental course.

I am hoping to get Hesse to
take charge of Engraving.

Please let me know what course
will be most agreeable to you being of the
Professorship here in Yale. I wish you
would come to see us & do the work of
the Lab. for a season & the profits of
consider & the basis on which
build direct assurance of success.

Let Moment be only W. Mr. L.

Yours very truly W. D. R.

J. Pat. Ct. Chot.

Lunenburg
June 8 .... 1865.

My dear Sir.

Urgent duties prevented my replying to your letter before leaving town yesterday afternoon.

My observation of the young person's intellectual qualities & temperament, as shown in our School, agrees very closely with the opinion you express.

His deportment has always been amiable & correct, but his

Inspection, while in the main respectable, & in some departments even more than this, has not been such as to show a decided aptitude & taste for Scientific Studies.

I think he has sufficient capacity but is perhaps lacking in the zeal & energy required for the studies & the active labours of the Engineer.

It is proper to add that in this Opinion I am guided by the concurring Reports of my colleagues as well as by my own Observations.

You will therefore see that I would not, under the circumstances you mention, venture to advise the continuance of the young man in his course of studies.

At the same time I am diffident of my judgement, knowing that the taste for scientific studies and the zeal accompanying it do not always display themselves at the beginning & that in some cases they become conspicuous after a time, in spite of their seeming absence at the commencement.

we have now 26 students in attendance of whom three have entered quite recently –

I shall be very sorry to have cut him short but the Lecture should then be decided, – I believe it has equally won the regards of the instructors

The Studies at the Institution are held notwithstanding – April 8th they were as follows

[illegible]

Yours very truly

Wm B Rogers

Wm. P. Atkinson –

24

Vienna June 20th 1865.

Prof. Wm B. Rogers

(24)

My Dear Sir,

Your note of June 5th reached me at noon today, too late I am afraid for any answer by next Saturday's steamer, but as I learn that tomorrow's mail from here sometimes catches the Saturday boat from Liverpool, I write this evening though perhaps without that time for consideration which your proposal demands. You do not probably expect an instantaneous, categorical answer to your offer - indeed I gather from your note that no definite action is possible before August when the Walker money falls in. I am very glad that time is thus afforded for an interchange of letters, because after an absence from home of a year and three quarters I find myself in ignorance of much in the history and present state of the Institute of Technology which I need to know in order to a ~~true~~ satisfactory decision of the question you have asked me. I never remember to have seen the "Constitution" or "fundamental "Charter" of the Institute, nor do I know who its Trustees or Government are: Secondly, you speak of a new building as nearly ready — is this a School building, or a

Museum building? Is there a laboratory appertaining to this building, or is the laboratory yet to be created? Are any collections, or apparatus or other tools for instruction already provided; or are these still to be obtained? In whose hands will be the practical arrangement of the course of studies? In the hands of the Faculty, or of the higher Boot of the Institution? Has any particular policy in regard to the course of studies or the discipline of the School been decided upon, or is all to be developed hereafter as experience may show the way?

Thirdly, to what class of men does the Institution look for that money support which it will need. Will the State give further help? You perceive at once the drift of these questions. You invite me to join in a new & difficult enterprise — I should like to understand, as well as I can at this distance, the condition of the work already done, the leverage we could bring to bear, & the prospect of success. That the School is new & its success something to be conquered, does not make it any less attractive to me. Nothing has struck me more in Europe than the great & prompt success which all the well organised Polytechnic Schools have had — Paris, Carlsruhe, Stuttgart, Zurich, Vienna, all illustrate the wonderfully rapid growth & great usefulness of these technical Schools. Looking at these Schools I have often felt how useful would be the work in which you have been engaged these several years in Boston, provided only that the community gave you an adequate support. What Governments do in Europe, individuals must do with us — and ours is infinitely the best way in the long run. Personally, as to the money part of it, I should be quite satisfied for the first year with the salary you have felt able to promise — one does not expect to make money in Science.

I infer from your note that the same proposition has been made to Storer — of course he has the first claim and I should not dream of accepting any position in the Institute until he had been provided for. That he would be my immediate colleague is in itself a very strong inducement to me. For my own part, I could not conceive of a more agreeable association: the idea is quite delightful to me, for we have been close friends for years.

I thank you for what you say of my refusing the Merrimack Mills offer. The proposal was a very flattering and somewhat tempting

one, but I never expect to regret my decision.

We have taken passage for home on the steamer of Sept. 2nd from Liverpool, and my address during the summer will remain as now "Care of Baring Bros & Co. London"

You will excuse the elementary questions I have asked about the Institute — my long absence from home alone necessitates them — if I had been on the spot I should have known all about it.

Please present our warmest regards to Mrs Rogers. I know what a deep interest you must all be taking in the civil troubles which are rising up on the heels of the military ones, but what abundant reason we have to be of good courage. The Press in Europe devotes a deal of time & space to American affairs, but for every grain of sense or good feeling there is a bushel of idiocy and malignity. I trust that Americans pay no attention whatever to their many foreign advisers, particularly about treason & its penalties.

Let me say in conclusion that I am very sensible of the honor you have done me in making me this proposition.

With many thanks, I am Very sincerely Yrs
Charles W. Eliot.

Richmond Virginia
June 12th 1865

Prof. Wm B. Rogers LL.D &c

My dear Sir,

There is a vacancy now existing in the Chair of Surgery in the Medical College of Virginia, in consequence of the recent death of Prof. Charles B. Gibson, and I propose to become a candidate for election to that position. I write, therefore to request that you will give me such a letter in regard to my character and general attainments as you deem warranted in the premises — I am rather late in taking the field and my competitors have considerably the start of me. Under these circumstances I have determined to address myself to those few whose good opinion I am ambitious of winning

As the election will be held early in the ensuing month I will be under many obligations if you will let me hear from you at your earliest convenience — As there has been no communication between Virginia and the North during the past four years you may not have been informed of the death of my father. This event occurred in the Spring of 1862 — My mother is now in Goochland County in attendance upon my brother Edward, who is dangerously wounded. If she knew I were writing she would certainly send some message to Mrs. Rogers & yourself. I trust you may be spared for many years in the tranquil enjoyment of otium cum dignitate & that a country already so deeply indebted to your labours may yet greater obligations to your services — Please present my kindest regards to Mrs. Rogers & believe me

With sentiments of cordial esteem and sincere admiration
very truly, Your friend George T. Harrison

P.S. Please send your reply to the care of Wm. Bell, Box 471, Richmond Virginia —

for Dr. Geo. Harris
Richmond

Arlington St. Boston
June 22. 1865

Wm B. Rogers Esq.
Corresponding Secretary,
Am. Academy of Arts & Sciences,

Dear Sir,

I have the honor to acknowledge the receipt of a communication from you, informing me of my Election as one of the "Fellows" of the Academy, and to add that it will give me great pleasure to become one of its members.

I am very truly
Yours &c.
Edw. H. Clarke

57 Rutland St.
23 June, 1865.

My dear Sir,

The next Annual Meeting of the State Teachers' Association is to be held in Boston, on the second week in October next, and I am directed by the Committee of

Prof. W. B. Rogers,

Arrangements to in-
vite you to deliver
a lecture on that oc-
casion.

Very earnestly hoping
that you may find
it convenient to ac-
cept this invitation, I
remain. Very respectfully
and most truly Yours,

John D. Philbrick
Pres. Mass. S. P. A.

J. D. Philbrick
Inv. to gen. Lecture
before State T. A.
— Oct. —

M. Thompson
Chairman
Pro. Com.

(8)

Cambridge June 25th 75

My dear Sir,

I am going to trouble you about another of your young pupils. My friend Tuckerman has just written me a letter which shows that he quite misapprehends his son Walter's position, and has some very moderate notions about what is best for him. He is dissatisfied that Walter did not enter the final examination, and speaks of him as having "failed", and as if things were all going wrong with him. Mr T. is a driving business man, making a great deal of money under the high-pressure New York system, and is

a little impatient if every thing does not move at fast as he does.

Now I have written him my view of the case, but I want also your testimony. I have told him that Wallie staid away from the examination by my advice, because, being a year or a year and a half younger than his companions, it was not desirable that he should hurry into the advanced class, — but that his proper place is in the Junior class — that he has "shirked" nothing, but on the contrary, so far as I understand it, has been faithful and diligent in all his duties — that he is not behindhand, but, considering his age, in a very good position.

Parkinson is impatient to put his son into the charge of his brother-in-law Prof. Cobb or his kinsman Prof. Eustis — but I tell him that a year more with you will do the boy vastly more good, because he is not yet old enough nor mature enough to devote himself to a specialty. I want him very much to spend another year in your Junior class — then, if his father pleases, let him come to our Scientific School.

Now I want you or Mr Rankin or Mr Watson to write me a letter that I can send to Mr P. giving an account of his son's conduct and progress, such as may convince him that he has been doing his duty and is in a good position, and such as may keep him with you another

year, not for your sake but for the boy's sake - because I am satisfied it is the right course for him. Mr Tuckerman is a man of excellent sense and always open to reason when the case is clearly before him - but I shall feel stronger if I have a letter of your evidence. I am only sorry that I have to call upon you for the smallest addition to your labors.

Respectfully and very truly yours

N. P. Atkinson

Prof. Ropes.

Lyn Mass.
Jan 28. 65.

25

Boston. June. 27th. 1865

Mr. Wm. B. Rogers.

Sir.

If I am rightly informed, the committee for the Institute of Technology intend to establish a German professorship or instructorship. If this is the case, and the place is open for competition, I would request you to have my name filed as one of the competitors. As to my qualifications and character I would refer you to President Hill and Prof. Lowell of Harvard and Mr. J. I. Philbrick.

Very Respectfully

Your obed. servt.

E. C. F. Krauss

Cambridgeport.

Herr P. C. T. Krauß.

Jena Zeiss.

1. Of what nature is the force operating between the particles of a solid. 1st. When it is stretched. 2d. When it is compressed. Illustrate by examples. Describe Newton's exp^{t} with the convex glass & shew that the actions by seeming contact are really actions at a distance. (10.)

2. Describe Oersted's apparatus for determining the compressibility of Liquids: and shew that the capacity of the inner flask is diminished by the compressing force. (10.)

3. Give the formulas for Velocity, Time, and Space in uniformly accel^{d}. & uniformly retarded motions — and solve the following problem. Two equal weights of 60 ounces each are balanced over a pulley (fig. 1) and a weight of 8 ounces is added on one side, producing unif^{m} accel^{d}. motion. Compute the accel^{n} per second (a) also the Vel. acquired and the Space described in 20" supposing friction & other resistances withdrawn. (20)

4. A known weight W is supported by two ropes AB. — AC. meeting at a known angle (fig. 2 & 3). Find by Construction the pull exerted at B and C respectively. — 1st. when the weight acts vertically & 2d. when it acts towards the right (15)

5. The two beams of a roof (fig. 4) meeting at a known angle are loaded at the top with a known weight W. Find by Construction the thrusts in the direction A.B. — AC. Also what part of the thrust at B acts horizontally, tending to push the wall over. (20.)

6. Find by Construction the Resultant of the three known forces P_1 P_2 P_3 (fig. 5) applied in given directions to the points A.B.C. of the body LM explaining the several steps of the process.

Let S be the position of a pivot passing through the body. What are the moments of the several forces as refer^{d} to S & what the relation between these moments and the moment of the Resultant. (15.)

7. Mention the relation between the motion of the C of Gravity of a body and each of the three kinds of Equilib: —

When a body with a flat base rests on a spherical surface (fig. 6) under what conditions is the Equilib. stable, neutral, tottering?

Prove that the C of G of a triangle is on the bisecting line at one third its length from the side bisected. (15)

8. State the Equation of Equilib. of the Lever and on what principle dependant. Give this Equation for the case represented in fig. 7.

What conditions regulate the sensibility of a balance of equal arms? (15)

9. Point out the changes in the order of Leverage, in the rope windlass as its handle is carried round. – Demonstrate the Eq^n of Equilib. of the differential Wheel & Axle. In a combination of wheels & axles how compute the relation of Power to Weight? (20)

10. What is the relation of P to W in the Inc. Plane?

1st. When P acts par. to the Plane.

2d. When P acts par to the base of the Plane.

Prove these relations by a figure.

From which of these cases do we deduce the relation of P to W in the Wedge & Screw?

Compute the relation of P to W in the combination represented in fig. 8. (20)

Questions at Final
Examn. June 20. 1865.

Physics