

83

Papers, November 1878

W. B. ROGERS
MC 1

EDWARD ATKINSON,
131 DEVONSHIRE STREET,
BOSTON, MASS.

Dear Sir

I submit the enclosed
for your consideration - I am
sure some such action is needed.

Yrs sincerely

Ed

Nov 3. 1878

EDWARD ATAKSON
11 DEVONSHIRE STREET
BOSTON MASS

Dear Mr. [unclear]
I have not the pleasure
of your acquaintance but
have some business to
transact with you
Yours very truly
E. Atakson

Nov 3. 1878

From the best information that we are able to obtain we are led to believe that a considerable part of the falling off in the income of our school is due to the position taken by the faculty to wit: that special students in particular branches must meet certain requirements in other departments as the condition of remaining in the school. We are informed that this rule has been applied in certain cases to the exclusion of students and the consequent reduction of our income, and hence it is in part the cause of our present embarrassment.

As a matter of business policy this course is an error and it is entirely inconsistent with the original plan on which the Institute was founded. It is also held to be inconsistent with right methods of technical education. Let us suppose instances

A complete knowledge of modern languages may be very desirable for a chemist to possess in order that he may be able to use the languages in his course of study, but to require a complete knowledge or ability to pass our examination in language as a condition of instruction in chemistry and to exclude a special student for want of it would be an absurdity.

A knowledge of English grammar may be very desirable

to an engineer but is not essential; an engineer who has mastered the principles of his profession and who can understand the conditions of a given problem will not find himself incapable of expressing its conditions even if he does not know how to parse a sentence or to define the difference between a conjunction and an adverb.

It is therefore held that special students should be admitted and retained in any and all departments of the school without other conditions than such as are requisite for the maintenance of discipline and to prevent interruption on the part of those who are not studying for a degree, when instruction is being given to those who are so studying.

It is believed that if this course is adopted there will be a large addition to the number of students by the inclusion of young men who are desirous to obtain a moderate knowledge of the elements of science, but who are unable or unwilling to become candidates for a degree.

The course of instruction in the department of architecture is an example of the policy that may well be adopted in all departments.

This department has not graduated a large number of students but it has met a public demand and has been self-sustaining. Its being open to those who could only take a very partial and limited course has not been found inconsistent with a high standard of requirements as the condition of its

degree.

The faculty are therefore advised that a change is expected to be made in the present rules to the end that special students may be admitted in all departments on easy conditions and shall not thereafter be excluded for failure in other departments than those in which they are specially entered.

That rules shall be established in respect to discipline and in the order and method of instruction consistent with the above advice.

That no student shall be dropped or excluded from the regular or special courses of instruction after his or her first year, without a submission of the case with the reasons for such exclusion to the Committee on the school or to a sub-committee thereof appointed to take cognizance of such cases.

It is held that on the adoption of the method herein advised the number of the students and the income of the school will thereafter depend more than it has done, upon the ability of the several professors to attract and interest students in their respective courses of instruction, and that out of a much larger number of students, while there may not be a greater number found competent or willing to work for a degree there will yet come a greater number capable of entering business life with such a training in science as may enable them afterward to be able to distinguish the thoroughly trained

experts in the scientific professions from those who now
impose upon and mislead the community with a
semblance of knowledge.

A power of distinguishing, the want of which has been
felt for years by many of those who have been otherwise
qualified and have been called to take charge of im-
portant interests.

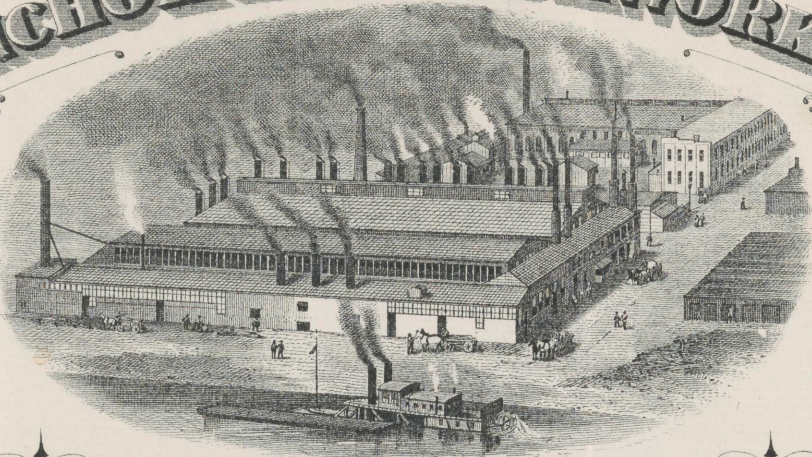
Boston Nov 5. 1878

Thos P. ...

Dr. C. C. Brown

Nov: 1878.

ANCHOR NAIL & NACK WORKS.



OFFICE,
No 116
WATER STREET.

WORKS,
19th ST
& RIVER, S. S.

CHESS, SMYTH & CO.

Otto Krebs Lith.

Pittsburgh, Nov 6 1878

Wm B Rogers
111 Henry St
New York.

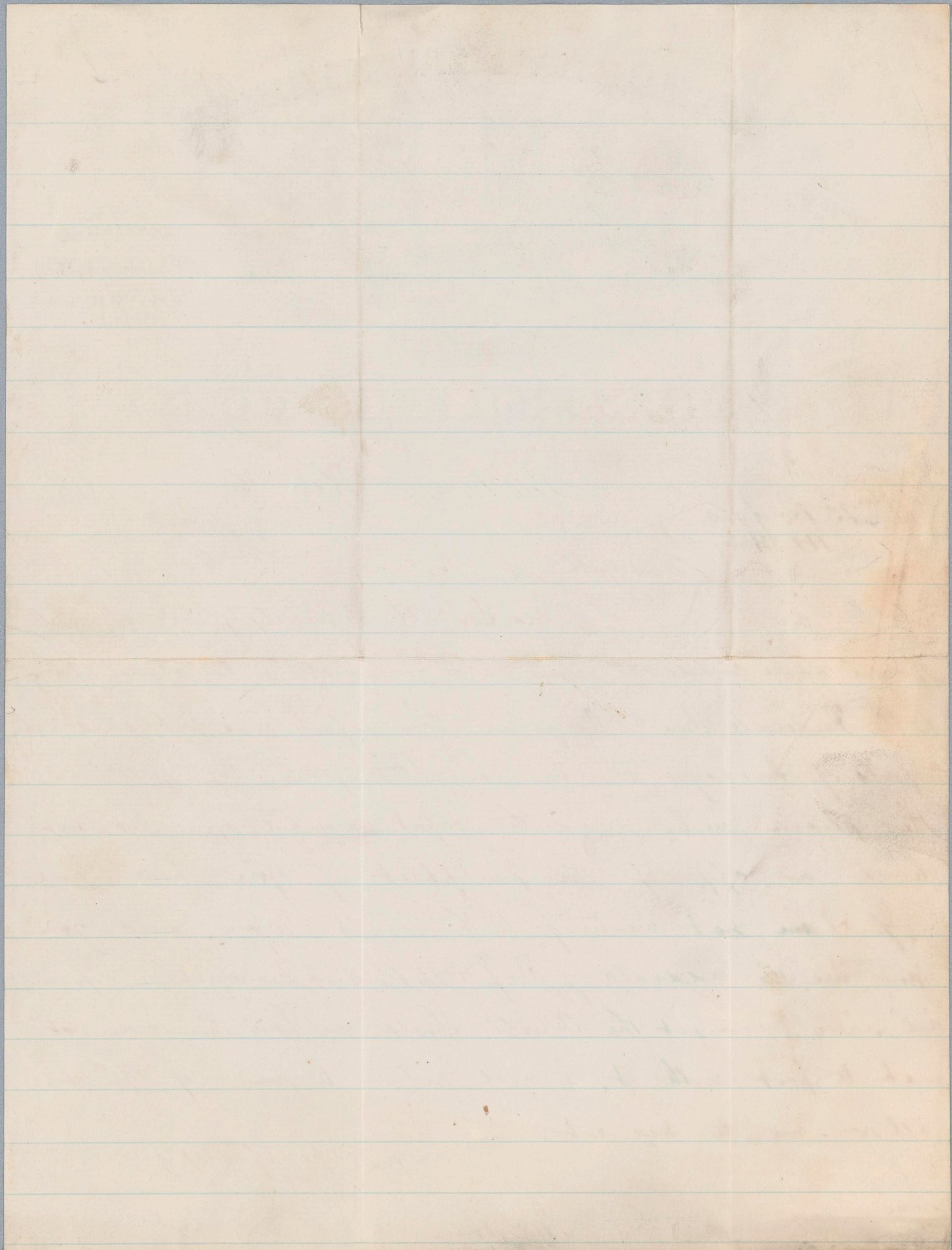
Dear Sir, About twenty years ago a gentleman of your name made a report as a geologist, on lands belonging to the Indevall Iron Co Virginia. This report was published with reports of Surveyor &c in pamphlet form. If you are the person who made this report, would you let me have a copy of this pamphlet if you have one.

If I am not writing to the right man, could you give me the address of Prof Wm B Rogers Geologist or inform me where I can get the Reports. Should you have them & do not wish to part with it, I will return to you if you will allow me to see it.

Very respectfully yours

Said report was made by
W B Rogers.

Ch Laumann
116 Water St



X
Boston Nov: 7. 1878

My dear Sir -

Coming to the city for a day or two, I find your notice of the meeting of the Corporation as fixed for Saturday the 9th inst - As I shall return home before that time, I cannot be present -

With a very humble ~~sense~~ sense of my Services as a Trustee in the past, you will perceive that as residing mostly in the Country, I can be of still less use in the future - I ~~for~~ therefore feel called upon to resign my place as a member of the Corporation of the Mass^{ts} Institute of Technology, that it may be filled by one who ^{can} better attend to the important duties devolving upon a Trustee - With my hearty & sincere good wishes for its prosperity ^{that} and of its officers & members, I remain

D. Sam. Kneeland
Sec^y Mass. Inst. of Tech^y
Boston

Yours very truly,
Jos. S. Fay

From Jn. S. Fay
using his place
on the Corporation of
the Institute

14850
3236

11614

Boston, Nov. 8, 1878

Dear Prof. Rogers,

I enclose
a statement of the hours
of exercises in the depart-
ment of Mathematics.

The time for prepara-
tion is of course only
an approximation; it
cannot be estimated
exactly.

Very respectfully
& sincerely yours,
Geo. A. Osborne

<u>Class.</u>	<u>Hours per week in class-room.</u>	<u>Hours per week of preparation, individual assistance, &c. (estimated.)</u>
1st year Math.	9	6
2 ^d " "	6	6
2 ^d year Desc. Geom.	4	4
	<hr/> 19	<hr/> 16

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First Term, 1878-9.

No. of exercises = 27.

	<u>COURSE</u> <u>Year</u>	9-10	10-11	11-12	12-1	2.30-3.30	3.30-4.30
MONDAY	1	I French	II French				
	2						German
	3		German			French (Sc. & Lit.)	
	4	* German					
TUESDAY	1						
	2	I German	II German				
	3						
	4				French	Italian	
WEDNES.	1	I French	II French				
	2						
	3		German			French (Sc. & Lit.)	
	4						French (C. E.)
THURSDAY	1						
	2	I German	II German				
	3						
	4				French	Italian	
FRIDAY	1	I French	II French				
	2						
	3		German			French (Sc. & Lit.)	
	4	* German					French (C. E.)
SATURDAY	1		I French	II French			
	2	I German	II German				
	3						
	4						

* an optional class consisting of 4 students.

+ an optional class consisting of 4 students.

The French (Sc. & Lit.) of the 3^d year consists of 5 students.

[11/5/1878]

Institute of Technology.

Boston, Nov. 8, 1878.

President Rogers.

Dear Sir:

Enclosed please find the arrangement of studies in my department, and a scheme of recitations for the present term, with such modifications of the normal scheme as the tabular view and the necessities of the case have required or suggested.

In respect to the required French in the first half of the fourth year, I am of the opinion that it would be as well or better to omit it, and give students their option to take French or German this term or to omit both. This would give greater elasticity in the various departments in the arrangement of their professional work. Also some of them would prefer German rather than more French. I do not think that students at the end of the first year could be expected to be very strong in the practical use of the language, but they would be as strong or more so than students in German at the end of the third year, owing to the greater difficulty presented by the German. If therefore

either language is to be continued as obligatory into the fourth year, I think it should be the German rather than the French. For these reasons, I should be in favor of discontinuing French as a regular study in the fourth year.

In my interview with you yesterday, the greater importance of French rather than German in certain departments, as for instance that of Civil Engineering, was alluded to. One mode of meeting such a difficulty would be not to require any German whatever in this or these departments, and perhaps give them an opportunity to go farther in French. But I think such a course would be very undesirable in the best interests of the school. For, aside from the intrinsic value of German in every department, there is a liberalizing value in its study, although taught in a practical manner as here, which our students who have so little computing of that kind of training so much need. It is true that things must be balanced by judgment and adapted to means, but something in the direction of breadth and of a tendency to counteract narrowness is very desirable in the training of our students, as you yourself have readily

and happily stated.

Permit me a word in reference to what I alluded to yesterday, the remark of a member of the Corporation, that there was "an excessive amount of time devoted to French and German." By actual figures there is much less time devoted to these studies than in the Sheffield School, and there Latin is required for admission. All who have acquired the ability to use practically French and German know that the acquisition requires much time and work. If we are going to give the students a start in these languages, it is desirable to give them a start which will be of value, when they get to work, in other words an ability to read with some readiness and accuracy. Then there is the liberalizing value of these studies, even when taught in a purely practical manner, of which I need not speak. For my part, and speaking in the interests of the Institute and not alone of my department, I think there is too little rather than too much time given to French and German.

Very Respectfully,

Charles D. Ovi.

P.S. To the last sentence above I wish to add, that it is the interests of the Institute which I consider primarily, as it is my duty to do, in all that concerns my department.
C. D. O.

[11/8/1878]

Arrangement of studies in the modern languages for all students.

<u>First year.</u> French	<u>Second year.</u> German	<u>Third year.</u> German	<u>Fourth year (first half.)</u> French
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Arrangement for special students.

<u>Third year.</u> French (Sc. & Lit.)	<u>Fourth year.</u> German (Sc. & Lit.)
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Third & Fourth years (first half.)
Italian & Spanish (alternating)

Scheme showing the number of recitations per week.

All Students.	{	1 st Year	French (2 divisions)	6
		2 nd "	German "	6
		3 rd "	German "	6
		4 th "	French	3
				21
Special Students.	{	3 rd "	French (Sc. & Lit.)	3
		3 rd & 4 th "	Italian & Spanish (optional)	2
		4 th "	German (Sc. & Lit.)	3

Remarks.

In the arrangement for all students, the recitations in French & German come three times a week, and two hours are allowed for preparation for each. The same is the case in the Special classes in Science & Literature. In the optional classes, the number of recitations is less as also the time of preparation.

In addition to the Annual and Semi-Annual examinations, there are written Intermediate examinations occurring once a month. In some of the optional classes, where the work is reading only, the Intermediate examinations are not so frequent.

In addition to the above regular classes, optional classes have generally been formed every year, for ^{the} purpose of pursuing a course of reading in French or German, and going farther than the time allotted to the study in the regular ^{course} ~~study~~ allowed. These classes have not been very large, and ^{have been} composed of such students as had time for this extra exercise. The class in Italian has been maintained to meet the wants of certain students, as those in Architecture who wanted Italian, and those

purposing to go into business, who wanted Spanish. The class (optional) in Italian this year numbers 4 students, three of whom are architects. The optional class in German in the fourth year, numbers 4 students, which would probably be larger were there no required French in this year.

Remarks on the studies of the present term.

Some modifications have been necessitated in the above normal scheme as applied to the present term. These are as follows.

There being no students in the course of Science & Literature in the Fourth Year this term, that course in German is not given.

The French of the Fourth Year is given twice instead of three times a week, in consequence of a difficulty in arranging the tabular view. For the same reason the Civil Engineering students have had to recite by themselves, although this arrangement will not have to be continued through the term.

In the Third Year German there is but one division, neither the size of the class nor the tabular view requiring two.

In the First Year French there is this term one additional recitation. This does not increase the ^{whole} amount of time devoted to the subject, since the amount of time devoted to preparation has been proportionately diminished. This additional exercise requires no preparation, and is devoted to dictation, talking and reading at sight. It is a kind of laboratory exercise, in which the students accomplish by thus working with the teacher much more than they would by spending the time by themselves in preparation. This is especially the case at this early stage of the students' course in the language, and where they are somewhat unequal in their standing, owing to the not entirely satisfactory fulfillment of the requirement for admission.

In the Second Year, the beginners in German have, for the same reasons as in the case of the French, a part of the time of preparation turned into a class room exercise without preparation.

These modifications are indicated on the inclosed view of studies for the present term.

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... the ...
... the ...

Remarks on the subject of the present time

Your ... the ...
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Adopted Nov. 9. 1878

Report of a plan for reducing the expenses of the School of the Institute

On a review of the progress of the School of the Institute for the past ten years, it appears that the number of students in its regular paying departments increased steadily, from 172 in 1868, to 353 in 1872 and that since that time it has gradually fallen off to 203 in 1877, a result doubtless due in a large degree to a decline in the public demand for Engineers & other experts in applied science.

During this period, through the zealous labor of the President & Faculty, the courses of instruction have been increased in their extent & thoroughness, new laboratories have been established and, as a necessary incident, a large addition has been made to the teaching & executive force of the school, by which means the Institute, in spite of the increasing competition, has been able to keep its place at the head of the scientific schools of the country. Of course if the receipts from students fees of late years had kept pace with this internal development of the school, we should have escaped in part our present financial embarrassment.

But it must be borne in mind that the great

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But it must be borne in mind that the great

[11/9/1878]

want of the school is an adequate permanent endowment, & that without this, or large occasional contributions to its means, it must always be subject to the evil effects of fluctuations in its patronage & in the financial conditions of the community.

Observation shows that schools of this description abroad as well as at home, cannot rely for their support exclusively or even very largely on the income derived from their classes. In this respect we know of no instance of a Technical School that is self supporting. It is we believe a fact that the school of the Institute has been more largely supported by its income from students fees than any other of like character in this country. In illustration of what is here stated, we may refer to the Sheffield Scientific School of New Haven, one of the most justly distinguished in America, in the annual catalogue of which for 1876-7 it will be seen that, while the income from students was only half as large as that of the Institute, donations amounting to \$15,000 are added to balance the accounts for the year.

In this connection we should not forget that the number of teachers required in such a school as ours is dependant, more on the variety, range

1
amount of the school is an adequate fund
-independent, that without this, or large
-all contributions to its means, it must
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-patronage in the financial condition of the
-community

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-field beautiful school of New Haven, one of the
-most highly distinguished in America, in the
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In this connection we should not forget that
-the number of teachers required in such a school
-as was is dependent more on the quality than

[11/9/1878]

and thoroughness of the instruction & the consequent subdivision of classes, than upon the actual number of pupils taught, and hence that no large reduction of the teaching force can be made without impairing the character & detracting from the value of the education which it furnishes.

In view of these considerations and of the high reputation of our school with the public, for the solid & practical character of its training & instruction we can hardly doubt that sooner or later it will be relieved from the chances of such embarrassment as the present, by the accumulation of a large permanent endowment, and we feel the more assured of this from the effort recently begun to increase our funds by subscription.

Whatever may be our success in raising the needed addition to our funds, we cannot hope at an early day for such an increase as to dispense with the present necessity for retrenchment.

In considering what measures should be adopted for reducing the expenses of the school so as in future to be within the limits of its financial ability, the committee on the school have been guided by two considerations, first, to avoid wherever possible, retrenchments that would seriously impair the efficiency of its practical work, & secondly, to see that

[11/9/1878]

the changes made in its present system be of such a nature as to secure permanent economical results.

Looking then, for the present, to the means of diminishing the expenses of instruction, three general plans of retrenchment have suggested themselves, either of which might be made to secure the desired result. These are:

1st To reduce the salaries of the Professors & Instructors by a large percentage of their present amount.

2^d To dispense with a number of the Professorships as well as inferior officers of instruction and administration.

3^d To combine both these expedients by dispensing with a less number of Professors & other officers & reducing the salaries of those that remain by a less percentage than in the plan first-mentioned.

The first of these measures might perhaps be concurred in by some of the Corps of instructors under the pressure of necessity and as a purely temporary arrangement but could not be carried out as a prolonged policy without chilling or even extinguishing the zeal for which our teachers have heretofore been distinguished & could not fail soon to deprive the school of its ablest Professors.

The plan of reducing the expenses by a large

the changes made in the present system be of such a nature as to secure permanent economical results.

Looking then for the present, to the means of diminishing the expenses of instruction, three general plans of retrenchment have suggested themselves, either of which might be made to secure the desired results.

1st - To reduce the salaries of the Professors & Lecturers by a large percentage of their present amounts.

2d - To dispense with a number of the Professors as well as a large portion of the Lecturers and other inferior staff.

3d - To commute not these positions by dispensing with a less number of Professors & other officers & reducing the salaries of those that remain by a large percentage than in the first mentioned plan.

The first of these measures might perhaps be carried out in some of the ways of which I have spoken, but it would not be carried out as an arrangement but would be carried out as a necessary evil.

It is not without serious consideration that I have suggested the first plan for which our teachers have labored so long, and which would not fail to secure the desired results of the school of its school & of its professors.

The plan of reducing the expenses by a large

curtailment of the teaching staff might of course be⁵ made financially effective, but if carried far enough for the purpose in view would, we fear, so impair the value and attractiveness of the school as to defeat the economical object it was intended to secure.

The third plan above mentioned, calling for a less reduction of the teaching staff and of the salaries of the Professors, might, we think be so arranged as to sacrifice comparatively little of the practical efficiency of the School and would on both accounts, we should hope, be acceded to, if not cordially, at least without serious dissatisfaction.

Keeping in view the above considerations, the Committee are of opinion that the following scheme of retrenchments, more or less modified in some of its details, would effect the desired economy without a serious disturbance of the productive activity of the School.

- | | | |
|-----------------|---|---------|
| 1 st | To dispense with the chair of "Logic & the Philos: of Science," thereby saving | \$ 2500 |
| 2 ^d | To dispense with the office of Secy, as heretofore constituted, leaving the Faculty to choose their Secy. from among themselves and calling upon the Bursar if necessary to act as Secy. of the Corp. " " " | 3500 |

entirement of the teaching staff might of course be
 more financially efficient, but if such for enough
 for the purpose in view would, on fair comparison
 the more and attractiveness of the school as to
 defect the removal of it. It was intended to
 remove.

The other thing about maintenance, and as for
 the situation of the teaching staff and the
 of the Professor, might, we think be as
 as to secure for comparatively little of the
 of the school and would not be a
 we should hope, be secured, if not
 of least in some satisfactory

It is proposed to the above mentioned, the
 of opinion that the following scheme
 of maintenance, which has been first in view of
 the school, would meet the basic requirements with
 out an excessive drain on the funds of the
 of the school.

1. To dispense with the class of Brown etc.
 of some twenty pupils.
 2. To dispense with the office of head, and
 to be maintained, leaving the school
 to choose their own head from among themselves
 and allowing them to leave from any
 to act as head.

- 3^d To dispense with one of the assistants in each of the several Dep^{ts} of Chemistry, Civil Engineering, Mech^l Engineering and Architecture. " " \$ 2400
- 4th To restore the duties of Prof^{rs} Niles and Hoyatt to the measure of last year, reducing their salaries to what they then were, but keeping Mr. Crosby's as lately fixed " " 2100
- 5th To dispense with one of the mechanics or servants attached to the building or reduce wages to the amount of \$500 500
- 6th Turning to other expenditures of the Institute, as exhibited in the late report of the Treas^r, we find in the item of Laboratory expenses & that of Insurance & repairs an opportunity for further important reductions.

The former item, which in 1877 amounted to \$2156, was from various causes swelled in 1878 to \$5637. Allowing a reduction from the latter to 3000 which is nearly \$1200 more than the reported expense for 1877 we should save \$2377.

As the outlay for Insurance, repairs &c for 1878 amounting to \$4256, included

to inform with one of the assistants
in each of the several Dept. of
Civil Engineering, Mech. Engin-
g and Architecture.

to inform with one of the mechanics
accounts attached to the building
to reduce wages to the amount of \$500
during the suspension of the State

to inform with one of the mechanics
accounts attached to the building
to reduce wages to the amount of \$500
during the suspension of the State
the best, we find in the list of
noting expenses, that of business
an opportunity for further important
work.

the former, which is \$177 amount
it to \$2150, was from various causes
of our cancelled in 1878 to \$2687. However a
reduction from the latter to \$200 which
is nearly \$150 more than the reported expense

for 1877 we should save \$237.
As the salary for business expenses
for 1878 amounting to \$2250, included

2100

2100

200

2100

2100

2100

2100

2100

2100

2100

2100

the large payment for a 5 years Insurance and as the corresponding expenditure for 1877 was only \$1755, we may assume \$2,000 as a sufficient sum for the current year.

We have then an aggregate saving on these two items of about \$4600, so that, allowing \$600 margin for further expenditure if needed, we may estimate our saving on these two heads, as compared with the expense of 1878 at about

4000

Making all the above reductions we should, without resorting to a tax on salaries, save \$14000 as compared with the expenditure of 1878

14000

cutting down the salaries of the remaining 12 Professors, (Prof. Dunkle excepted) to the amount of 10 percent would bring \$3000 and a like tax on the inferior salaries not below \$1000, would save \$600 making an aggregate of ---

3600

We should thus have a total reduction of our expenses as compared with last year of

17600

Here we certain that our pending subscription would by the beginning of 1879 reach

7

the large payments for a 5 year term
and as the corresponding expenditure for 1877
was only \$1250. we may assume \$2000 as
a sufficient sum for the current year.
We have then an adequate saving of
two thousand of about \$400, as that,
allowing \$200 margin for further expendi-
ture if needed, we may estimate our saving
on these two heads, as compared with the

4000

expenditure of 1878 at about
\$1000. All the above reductions we
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14000

save \$14000 as compared with the expenditure
of 1878.
Cutting down the salaries of the re-
maining 12 Professors, (Prof. Charles Wright)
to the amount of 10 percent would save \$2000
and as like the rest the inferior salaries are
below \$1000, would save \$2000 making our saving

3000

of our expenses as compared with that year of
1878.

17000

There we believe that our funding out-
lay would be the equivalent of 1877.

[11/9/1878]

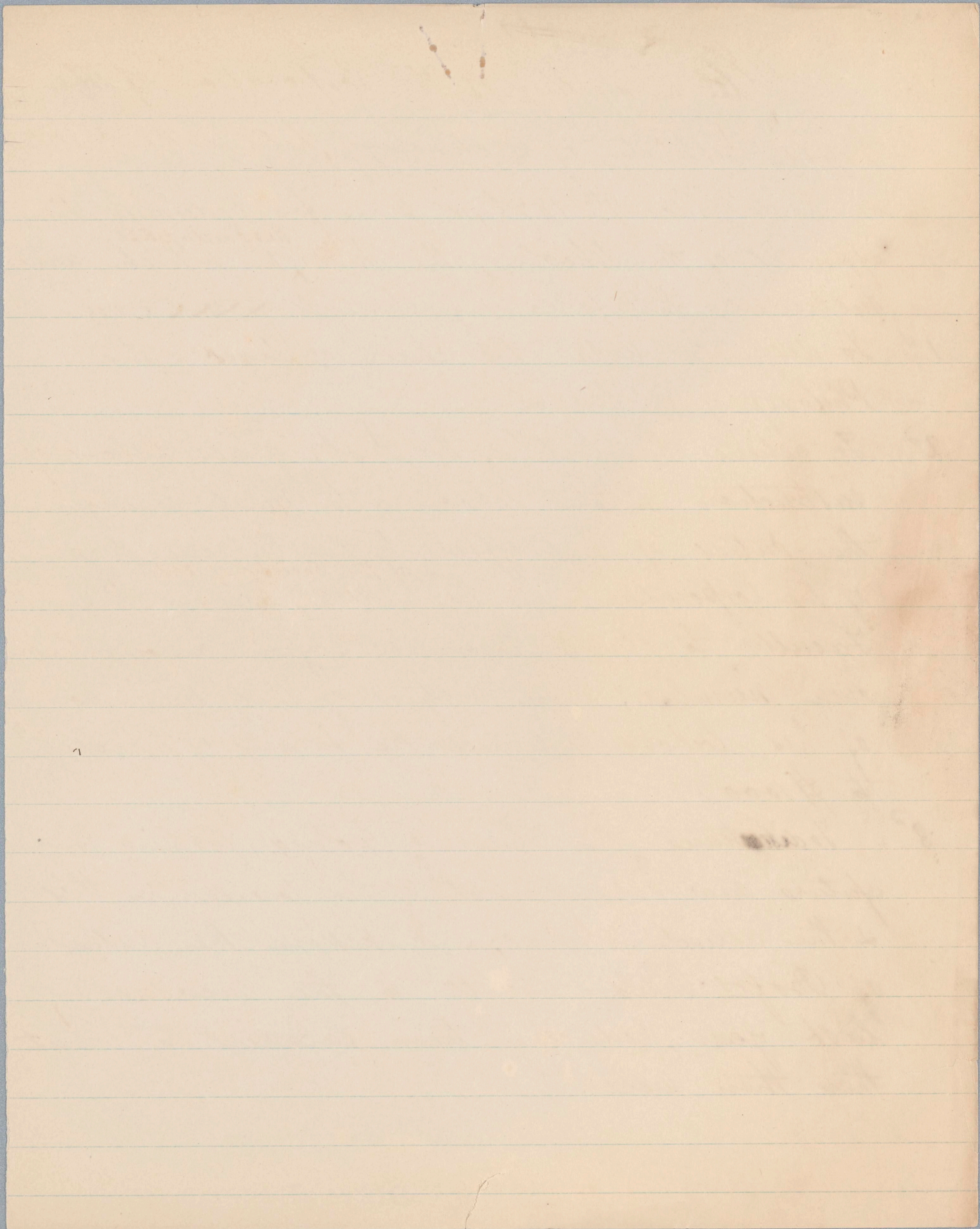
\$100,000 or even \$75,000 we might feel secure in dispensing with the tax on incomes, and even should the subscription be much smaller at that time or much slower in accumulating than we had been expecting, it is worthy of consideration whether a small part of it might not be allowed by the donors to be applied directly to paying what may be needed to balance our expense account for 1878-9

It may be added that the \$3000 paid for many years past to the President of the Institute will not be called for as long as the present arrangement continues and this itself would probably go far towards balancing the account in future; provided that the income from the students does not fall off.

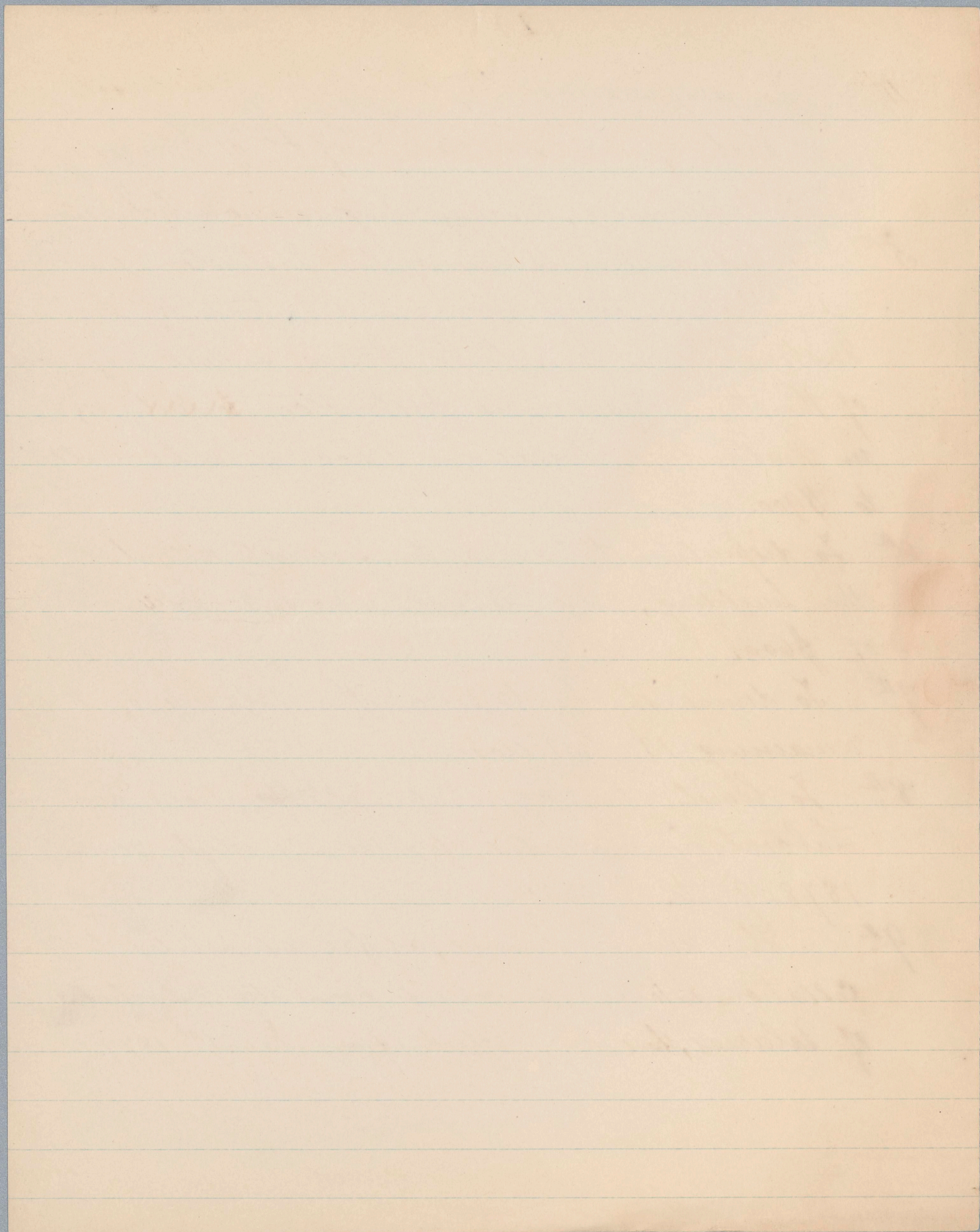
As yet the committee have not considered the question as to the time at which it will be expedient that these retrenchments go into effect. Should the 1st of January next be fixed on as a suitable date for this change, the amount of retrenchment above stated would of course be considerably reduced.

Nov. 9. 1878

- At a meeting of the Corporation of The Mass: Institute of Technology, held at the Institute on Friday Nov: 9th 1878, a plan for reducing the expenses of the School of the Inst: ^{was adopted} in which are included the following changes ~~to wit~~: viz
- 1st - To dispense with the chair of Logic & the Philosophy of Science.
 - 2^d - To relieve the Sect^y of the Inst: of all labors of instruction in the School & to limit hereafter the duties of his office to the Clerical work of the Corporation & its Committees ^{& of the Society of Arts}, leaving the Faculty to choose their Sect^y from among their own number; & in virtue of this diminution of his labors to reduce the salary of the Sect^y to \$1000.
 - 3^d - To discontinue the Chair of Geology, looking to a future new arrangement of the Courses in this & the allied studies; & to restore the duties of Profs Miles & Hyatt to the measure of last year, reducing their salaries to what they then were.



- 4th. To dispense with one of the Assistants
 in each of the several Dep^{ts} of Chemistry,
 Civil Engineering, Mechan: Engineering & Architecture
- 5th To reduce the salary of the Instructor in
 Architecture to \$1600 per an.: that of the
 Instructor in French to \$1200. & that of each
 of the three remaining Instructors ~~to wit:~~ viz
 in Mathematics, Drawing & School of Mech: Arts
 to \$900.
- 6th To dispense with one of the servants attached to
 the building, or to reduce wages to the amount
 of \$600.
- 7th To diminish by 10 per c. the salaries of the
 remaining 13 Professors.
- 8th To limit the aggregate appropriation for
 Laboratory expenses for the current year
 1878-9. to \$3300.
- 9th The above changes, as far as relates to the
 cessation ~~into~~ the special & pro-rata reductions
 of salaries, ~~shall~~ take effect from Jan: 1st 1879.



Nov. 9, 1878

Union Club, Boston,
8 Park Street.

My Dear Mr. Rogers —

I promised you that I would send you a line in answer to your inquiries about my own work at the Institute and also in regard to possible reductions in the expenditure of my Department —

I. My regular exercises with my students come on Tuesday Wednesday Thursday and Friday. On each day I have a lecture or recitation in the morning and a lecture in the afternoon. I also spend an hour or two every day in the drawing-room reviewing and correcting the drawings made in illustration of the lectures. The rest of their work in drawing is

mentally in two foreign lands, and I only give in time enough to keep the run of it, and to keep up my knowledge of the young men.

On Mondays and Saturdays I have no regular exercises. But my special instruction I want to give, such as courses of lectures in Perspective ~~or~~ in Shades & Shadows I generally give on Mondays, and I generally take Saturdays for examinations, so as not to interrupt the regular work.

After the first of December I shall have two hours a week in addition to the above.

As two thirds of my young men are on my hands all day, being special students with no other work but what I give them, a good deal of my time is taken up in per-

sonal conferences with one and another or with their parents & guardians, all the correspondence and all the talking which in the case of other students is done by the Secretary being necessarily thrown upon me, so much so if it was a private school. I find I cannot get through with the day's work in less than five or six hours. But on ~~Monday~~ days and Saturdays I do not generally spend more than three or four hours at the Institute.

By day's work, I mean the actual conduct of affairs. I never get any time while I am there for reading or study. I am generally down town or at my office for three hours between noon and half past three.

II. As to the expense of the Department I think it will not appear to be disproportionate to

the amount of teaching done, when it is considered that it gives to between twenty and thirty students almost every thing that they get, in the course of the year, (only the regular students of the 2^d and 3rd years doing anything to speak of outside,) and that the teaching given is in the nature of things of the most expensive and advanced kind, being personal instruction in individual and independent work. Nevertheless the expenses of course ought to be diminished if they can be, so that the Department may become a source of so much revenue to the school as possible, without impairing its efficiency.

I do not think it is practicable or desirable to make any change in Mr Letour's

case, for obvious reasons. Although it has not proved practicable to increase his salary as time has gone on, as was hoped and expected at the time of his appointment some years ago, it is true that the its value has been enhanced by the reduction in the cost of living and the rate of exchange, so that it is at present fairly proportioned to the value of his services. It is never the less true that they would be almost impossible to replace, and that in putting them at our command he has thrown himself out of the line of ~~advancement~~ professional advancement either here or in his own country. We can of course discontinue the arrangement whenever it seems best to do so, but while it continues and while we desire it to continue, I do not think it

will be practicable to change the conditions, even if under the circumstances we should think a reduction of compensation proper to propose.

But I think that I can now for a year or two dispense with the services of a second paid assistant. When I asked for a second assistant three years ago the appointment was absolutely necessary to enable me to carry on the work of the Department. His assistance has enabled me to get my work into excellent condition, the collections are in good order and twice as available as before, and the diagrams and drawings most necessary to my work will by the end of this year have been completed. The Depart-

ment can run for a year or two on the strength of what Mr. Hubenwood has done. He does not in any case wish to remain, in a place that has no promotion, beyond the spring, and though it would be well worth while to have his place filled by another so competent person, it is not absolutely necessary and I will not ask it. But I shall be glad to have the services of one of my own students, for two or three hours a day, to keep the collections in order, and to have his fees remitted in consideration of such service. If every year some promising student is permitted from enrolling into the school on account of the absence, and if I can be ab-

hired, as I have never or twice
been allowed in former years, to
offer a free place in exchange
for necessary service, I am
sure that I could make an
arrangement that would not
diminish the revenues of the
school.

I am very truly
Yours.

Wm. R. Ware

Nov. 9, 1878.

Notes on Plan for Reducing expenses.

The Suggestion of (2) relating to the present fee. could not be carried into effect - without ^{giving notice to the} ~~first~~ ~~Meeting~~ of the Corpⁿ. of the proposed Change, with the Subpoena by which the Meeting is called?

D. Knudsen does a large amt. of Clerical work for the Faculty - what could not be done by fee? of the Faculty (or of the Prof^s) without Clerical help - He has also much work for the Soc. of Art, which he is engaged to do by the By-Laws of the Society.
Read Substitute for this Clause -

Ornith. Library & Legation
+ Wells

Franz 1000

~~Wells 1000~~

Mudge 1000

2000 10% = 200

Living at top? 300

13 Proj^{ns} $\cdot 13 \times 250 = 3250$

gr. 3250

Making a total of Tax & Salary
on salary of 3450.

Our Uncle would stand that

Commission 2500

Sec^y 1500

Appt^{ts} 2400 ^{per month}

Library & Leg^y & Wells 900

Rules & Byalls 2100

Printer 500

Servant 600 or 600

Lab^r & Rep^r 2100

14,550

Wells 200

14,800

Effect

If the above deducts should take
effect Jan. 1' 1879 - we should

have to deduct from the above
the profit of the following items.

Salary of Honors 2500

Sal of Knicker 2500

Library & Legation & Wells 900

Rules & Byalls 1500

Appt^{ts} of Serv^{ts} 3000

10% Exp^{se} 3450

4 / 12 8.50

to be deducted 3,202.50

from the estimated total

paying - for the current

Scholastic year

75

25

3 250

3202.50

375

2827.50

[11/11/1878]

(1)

X

Dear Sir.

At a meeting of the Corporation of the Mass: Institute of Technology, held at the Institute on Friday Nov: 9th 1878, a plan for reducing the expenses of the School of the Institute was adopted in which are included the following changes, ^{important to the Faculty & other officers of the School -} viz:

1st

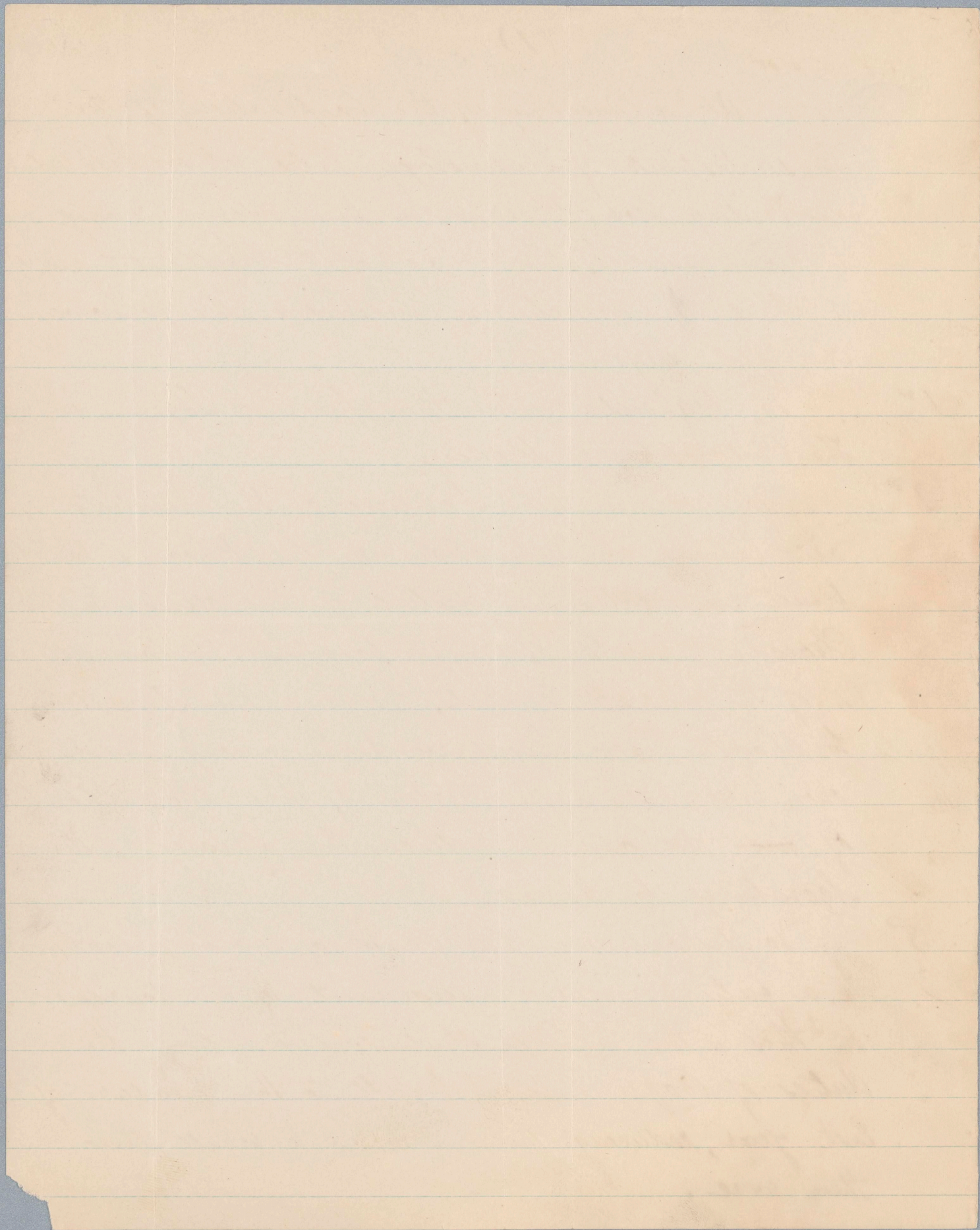
To dispense with the chair of Logic & The Philosophy of Science.

2^d

To relieve the Secretary of the Institute of all labors of instruction in the school, & to limit hereafter the duties of his office to the Clerical work of the Corporation & its Committees & of the Society of Arts, leaving the Faculty to choose their Secretary from among their own number; & in virtue of this diminution of ~~his~~ labors to reduce the salary of the Secretary to \$1000.

3^d

To discontinue the Chair of Geology, looking to a future new arrangement of the Courses in this & the allied Studies; & to restore the duties of Prof^s Miles & Hyatt to the measure of last year, reducing their salaries to what they then were.



- 4th - To dispense with one of the Assistants in each of the several departments of Chemistry, Civil-Engineering, Mechanical Engineering & Architecture.
- 5th - To reduce the salary of the Instructor in Architecture to \$1600 per an., that of the Instructor in French to \$1200, & that of each of the three remaining Instructors, viz: in Mathematics, Drawing & School of Mechanical Arts to \$900.
- 6th - To dispense with one of the servants attached to the building, or to reduce wages to the amount of \$600.
- 7th - To diminish by 10 per cent the salaries of the remaining ^{thirteen} ~~13~~ Professors.
- 8th - To limit the aggregate appropriation for Laboratory expenses for the current year, 1878-9, to \$3300.
- 9th - The above changes, as far as relates to the Cessation & to the special & pro-rata reductions of salaries, shall take effect from Jan: 1st 1879.

Imp. Statement for
Papyrograph.

Nov. 9. 11. 1878.

1878
11. 9.
1878

[11/11/1878]

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[11/11/1878]

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1878-p-8781

for

Henry P. Kidden
 John W. Forbes
 James L. Little
 E. R. Budge
 S. D. Warren.
 John Cummings
 W. Conditott Jr.
 Geo. C. Richardson
 S. R. Payson.
 John A. Lowell.
 W. B. Rogers.
 N. Thayer.
 Martin Brimmer
 L. A. Shaw.
 W. O. Grover.
 W. Higginson
 R. C. Robbins
 G. W. Lyman.
 W. M. Mason
 R. W. Mason
 John L. Bremer.
 Chas P. Kennerway
 W. Kennerway.

Miss Marion Hoovey
 A. A. Lawrence
 R. S. Fay.
 Jas. S. Fay.
 Peter Smith
 Mrs. N. J. Bowditch
 Saml. C. Lawrence.
 W. D. Parker.
 J. S. Morgan.
 Russell Sturgis
 J. B. Alley.
 Fred. L. Ames.
 Jonas Litch.
 W. L. Pierce
 L. W. Standish.
 B. Schlesinger.
 Geo. Warren.
 C. J. Morrill.
 J. W. Wolcott.
 J. W. Beal.
 J. W. Waver.
 Chas Faulkner.
 D. N. Skillings.

L. L. Dexter.
 E. Atkins
 Alex. Agassiz
 Thos. Lyman.
 J. A. Burnham.
 John Foster
 J. P. Coolidge.
 G. B. Blake.
 S. Jones.
 W. B. Bacon.
 Stanton Blake.
 G. D. Jordan.
 W. H. Bunnewell.
 P. C. Brooks Jr.
 Ignatius Sargent.
 C. W. Chapin.
 Edward Austin
 J. W. Brooks Milton.
 Chas. Francis Adams
 W. M. S. Eaton
 Jos. S. Robinson
 Thos. Nickerson
 Jos. Nickerson

A. A. Burrage
 J. C. Burdige
 Augustus Lowell.
 W. B. Spooner.
 Lyman Nichols
 Mrs. Sarah S. Russell.
 J. L. Gardner.
 John C. Gray.
 J. C. Proctor.
 Robt. C. Billings
 Cyrus Wakefield.
 Abbott Lawrence.
 W. D. Pickman.
 Otis Norcross.
 John C. Phillips Jr.
 J. L. Bowditch
 J. W. Sears
 C. H. Dalton
 John Bailey
 W. F. Weld.
 W. F. Weld.
 Geo. W. Corlies
 John Slater

[11/11/1878]

Given.

Gen. Bigginson
G. R. Whitney
Ann. Amory.
Miss G. Appleton
E. R. Bigelow
E. Pierson Beebe.
Mrs. J. M. Beebe.
Mons. Gardner Brewer.
Miss Brewer.
Mrs. Saml. Hooper.
Miss Alice Hooper.
D. P. Kimball
W. L. Daggett
Isaac Linn
C. O. Whitmore
Dr. Donald Kennedy.
Nash Spaulding Esq.
Capt. J. B. Thomas.
John Duff.
Saml. C. Cobb.
P. C. Brooks.
C. H. Baker.

Miss Wigglesworth.
Misses Wigglesworth
Rhodes.
N. J. Bradley.
C. C. Henry Lee.
W. M. Pulsifer.
Moses Kimball
Mrs. B. H. James.
Mrs. Ellen Sutton
J. B. Moore.
Moses Williams.
Barney Cory
Aug. Hemenway.
R. W. Hooper.
Ralph Warner.
Goddard Bros.
L. J. Hill
J. J. Borden.
R. T. Butler
Chas. J. Paine
James Thompson's widow
David Nevins
Leopold Morse.

[11/11/1878]

L. P. Talbot & Co.
Amos D. Lockwood.
A. G. Cunnick.
H. L. Richardson
Walter Paine 3^d
L. P. Rindge
Wm. J. Rutch
Wm. Robeson
Nov. Seabury, Treasurer }
Calumet & Hooker }
Isaac Thatcher
Chas. L. Thayer.
John C. Whitier
E. A. Straw
Garner & Co. by }
D. J. Johnston }
Tilston & Hollingworth
A. H. Rice
Saml. C. Davis
N. W. Harwell.
C. C. Haskell.
L. J. Knowles
Worcester.

Crompton Ges.
Worcester.
Bunham J. C. & P.
W. Montgomery
J. D. Fairworth.
Avery Plumer.
Alpheus Hardy
Sewall Day & Co.
Saml. Batchelder.
Wales
Cushings
Jaff Carl.
W. Royden.
Jas. L. Amory.
Yueker W. W.
J. Quincy Browne
S. P. Ruggles.
Taft Hudson & Co.
Rempew Jas.
H. B. Wood.
L. L. Brown.
O. W. Perry
Chas L. Harding.

[11/11/1878]

Rufus S. Frost.

R. H. White

Nelson Curtis

E. C. Baskell.

W. & G. C. Bayles

Nelson Slater.

Fred. K. Somnells.

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

Wm. H. White
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Wm. H. White
Wm. H. White
Wm. H. White
Wm. H. White

[11/11/1878]

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Dear

1881

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[11/11/1878]

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[11/11/1878]

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Laboratory
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[11/11/1878]

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from 1st 1871

117 Marlborough St
Nov 11. 1878

Dear Dr. Cheeland

It gives me more pain than I can express to send you the enclosed communication including as it does a vote of the Corporation which largely affects your salary. In doing so I wish to say that while all these measures of retrenchment received a prompt & unanimous approval their adoption called forth the most earnest expressions of regret that the financial condition of the Inst: should have rendered necessary measures of retrenchment which were to bear so heavily on individuals.

Of yourself personally & of your long & zealous services to the Inst: just & honorable mention was made & I am sure that others joined me in the very kind regard with which your faithful devotion to its interests was remembered. I trust dear Dr: that you will accept the action of the Corporation as the result of a calm deliberation upon the measures of economy which have become essential to the safety & welfare of the school & for myself I know that you will need no further words to tell you how sincerely I remain

W.P.C.
E.P.R.

W B R

to Dr. J. L. Kneeland

Nov. 11 - 1878.

x

Nov: 11. 1878.

Boston

Dear Prof Howison

In sending you the enclosed statement of the
of the votes passed by the Corp^y of the Institute at its meeting
on the 9th inst. one of which relates to your Department
I am requested by the Corp^y to express to you
their appreciation of the ability, zeal & faithfulness
with which you have performed your duties as
Prof., ~~and~~ together with their sincere regret
that the financial condition of the Institute
does not justify their retention of your
Professorship ^{position} in the Scheme of Instruction of
of the School of the Inst.

It is but right that I should add that these words
of esteem & regret are but an imperfect indication
of the respect & regard for you expressed at
the meeting by Members of the Corporation

As for myself dear Prof you will I am sure
believe that it pains me very deeply to be under
the necessity of communicating this result to you, & of looking
the withdrawal of the services & companionship in the Inst: of one
whose scholarship & personal qualities are so
worthy of regard -

Please bear Prof accept my sympathy & the assurance of
my wish to
do whatever may be in my power to forward your interests in the future &
believe me
With sincere regard Yours very truly
W. A. P.

W. B. R.
To Prof. Huxsidi
Nov. 11 1878.

Dear Prof. Huxsidi

Nov. 11 1878

I am very glad to hear from you and to hear that you are well and happy. I am sure you will find the winter very pleasant. I have not much news to write at present. I am still in the same place and doing the same work. I hope to see you sometime. I am very truly yours, W. B. R.

To Instructor, Lecturing & Superintending

117 Marlborough St

Nov: 11th 1878.

Dear Sir

At a meeting of the Corporation of the Institute of Technology held Nov: 9th 1878, among the measures included in "a plan for reducing the expenses of the School," which was unanimously adopted, a vote was passed to the effect:

That --- "The salary of the Instructor in Architecture be reduced to \$1600 per annum, the change to take effect from Jan: 1st 1879."

In communicating this vote to you I beg to say that the action of the Corporation has not been due to their want of appreciation of the value of your services to the School, with which all are fully satisfied, but to the fact

W. B. R.
To the Instructors
Eugene Letang &
Julius G. ...
Nov. 11. 1878

that the financial condition of the Institute compels them to provide for a considerable reduction of its expenses.

Trusting that you will concur in the expediency of this measure & looking hopefully to an enlargement of our resources at no distant time I remain dear Sir

M. Yours very truly & respectfully

William B Rogers Pr

(for the Corporation)

Mr Eugene Letang
Instructor in Architecture.

(Copy.)

Dear Prof. Ordway

I had hoped to have obtained the paperigraph of which I send you a copy in time this morning to prepare the packets & letters for the Faculty today.

I have had a day of hard & painful work, but cannot close it without sending you a few words of suggestion.

Should the Faculty hold a meeting tomorrow please say to them that it is the wish of the Committee on the School that the Profrs of the Depts indicated in Vote 4 should report to the Chairmen of the Faculty the name of the individual in each case with whose services they can best dispense. Be good enough also to make known to Instructors Wells, Mudge & the new Instructor in the School of Mech: Arts the portion of Vote 5 which refers

to them, or if you think it better I shall myself write to them.

As regards Vote 6, we shall rely upon the judgement of yr self & Mr. Tappan, with the members of the faculty if desirable for appropriate action.

I earnestly hope that the Faculty will generously acquiesce, hard as it may seem, in the proposed tax on salaries.

Every member of the Corporation desires to increase rather than to diminish the pay of the Profs & I know that they will be eager to do so whenever the finances of the Inst: permit.

Now they are feeling greatly strengthened in the effort to carry forward the subscription by the

evidence the Inst: is giving of its determination to live within its means.

I need not say that as the reduction does not begin until the end of the 1st quarter the tax for the year is really $7\frac{1}{2}$ & not 10 per cent.

Should the faculty desire my presence I shall willingly attend, tho' this late task has greatly tried me.

Believe me dear Profs in the faith & hope of brighter times for the Institute yours faithfully

WTR

117 Marlborough St
Nov. 11th 1878.

To Prof. Ordway (Chairman)

Nov. 11. 1878

to be read to the Faculty
