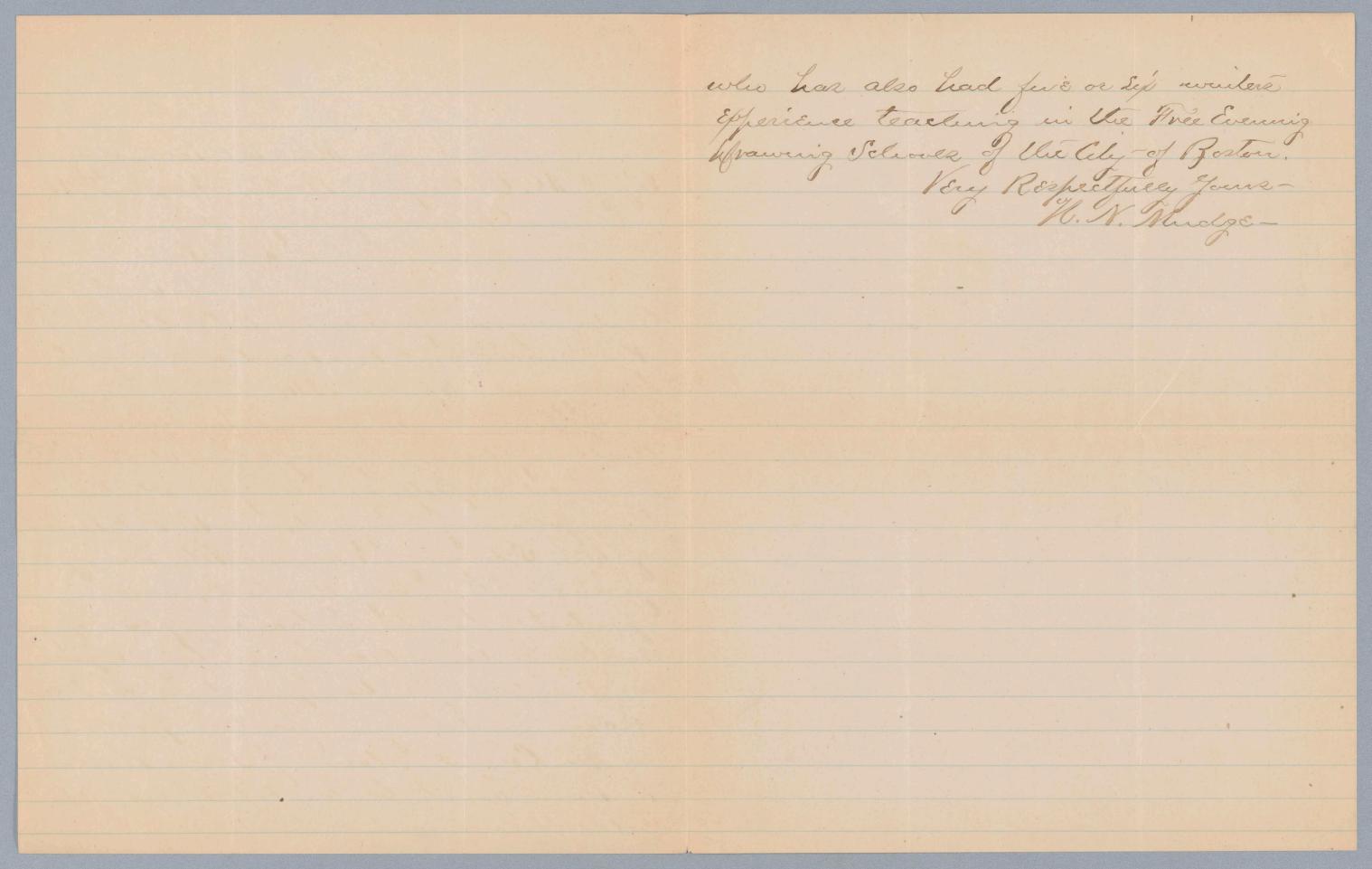
"	Papers, March 1881	W. B. ROGERS MC 1
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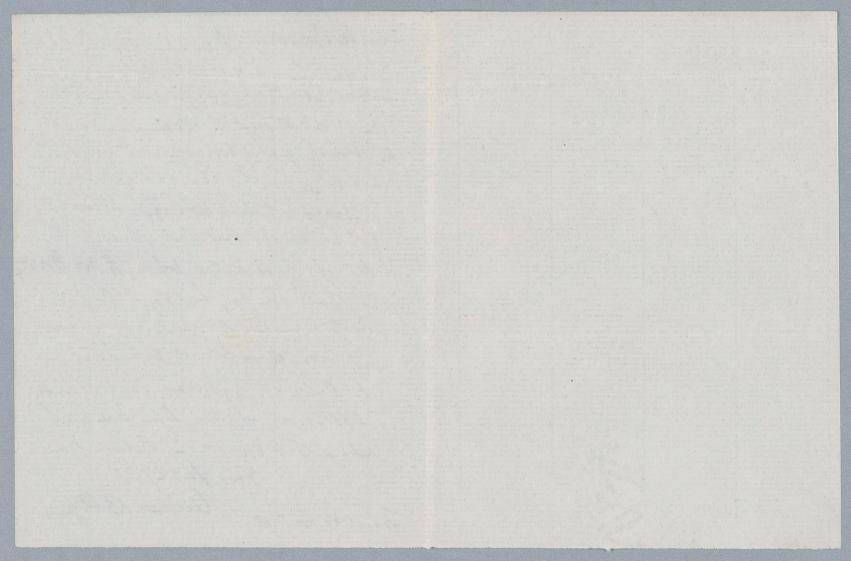
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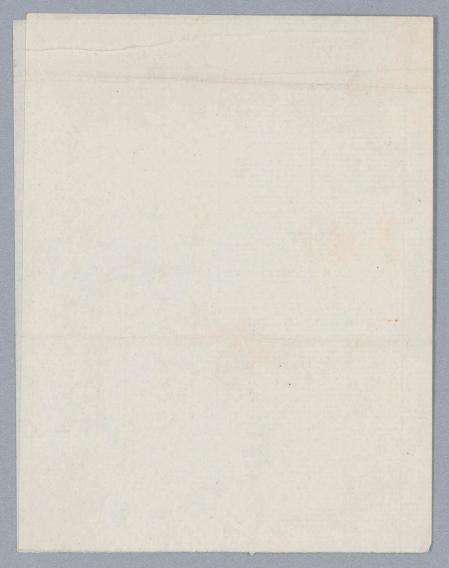
Mass. hud: Technology. Troj. J. M. andreay. Boston March 194881 Chamman of the faculty Car Lei. & hereby tender my resignation as Entructor in Mechanicae and "The Hand Mouring", & take effect - Sprie 1. 1881. To relevie any enbarrament that might arise by my action al This time, I would respectfully call your attention to the following suggestions; Mr. H. K. Burning of the School of Mechanic Arts, having formerly been very assistant, we're probably be able to lake my place of your so dering, require an assistant for his present work - & can recommend to you for the position a Mr. Chas. d. Holaura of Davin Well. & know him & he an Eppert drangelinan both theoretical & practical, and one



H. N Mudge - Vesegni & Uconmenti, 1 C. L. Adams. . 4

Dear Mr Sought Much &, 1881. I that he glow to talk hot give on the Subject about to hi you Rid hat of the States, a although I faithe tomater to thent g any Anangement for the period of the A. Scientific School , showed at la remark to Berling Which Thought net Interform hate the Sechent actual bolling of our mst; I shale he hay happy to Capas hate you the the Derkynet of you of your dean from at confectured to Could at my house heart Thing on after never at hay toran betoning " Af & & & & & & & Delin him Jones chartefally Collean B Roger Const 15 Bougins





202 A. Rittenhouse Square. Thiladelphia, March 10th, 1881.

Dear Sir:

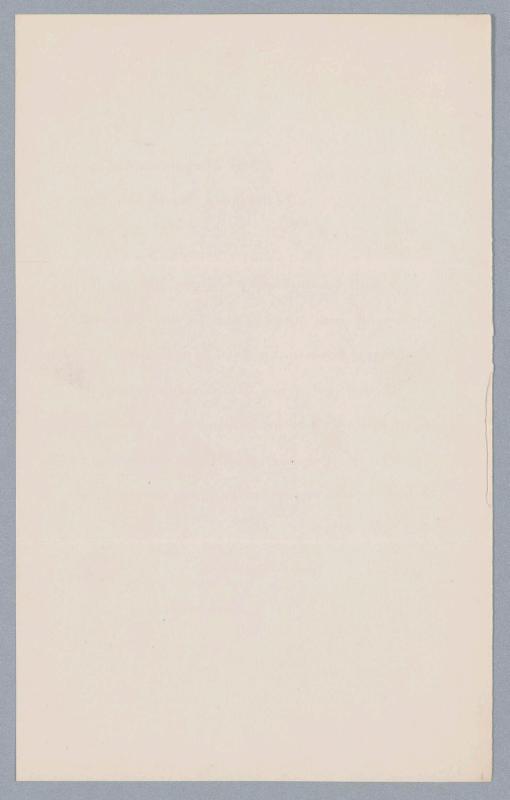
I shall be much obliged if you send me the amount of your annual tax for the National Academy of Sciences at your early convenience.

As the term of my Treasurership expires in April, 1881, and I do not purpose being a candidate again for the office, having held it for sixteen years, I wish to have my accounts entirely completed by that date.

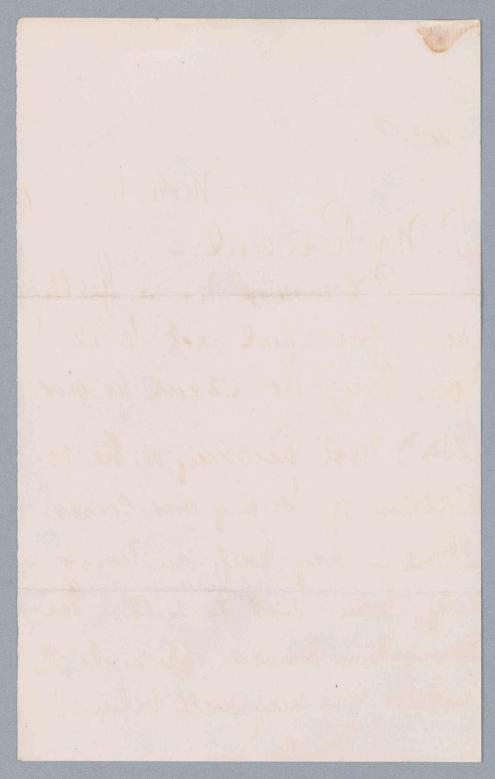
Yours Respectfully,

Fairman Rogers,

Treasurer.



march 10, 1881. X Dem W. Slack Connew with the menter who an also press of your apoch, I feel that that he best that on Aludenti show not be Called when for the Arvice you have kindly proposed. with best wisher for yoursely + for the aport. I am Jom faithing Willian BRogers 5 Cher W Slack Li :arei. Mapick: mi Apro.



MASSACHUSETTS CHARITABLE MECHANIC ASSOCIATION. OFFICE OF THE PRESIDENT, the second second S. Mr. Resident: - 1 It would he a fielty and graceful act blet your bays do escart for our Cesson next Tuesday, on the de-Casia of loging our comer. Stone - Day half-an hour orly, now 1.45 to 2.15. The Association would applicate the Kuidness you near well believe! Tuly you. Part Rogers. 3 ales. W. Slack, Fut.

Mr.C. W. Sladk. and which to he de frace fuel art blat

ERNEST W. BOWDITCH,

Topographical Engineer and Surveyor,

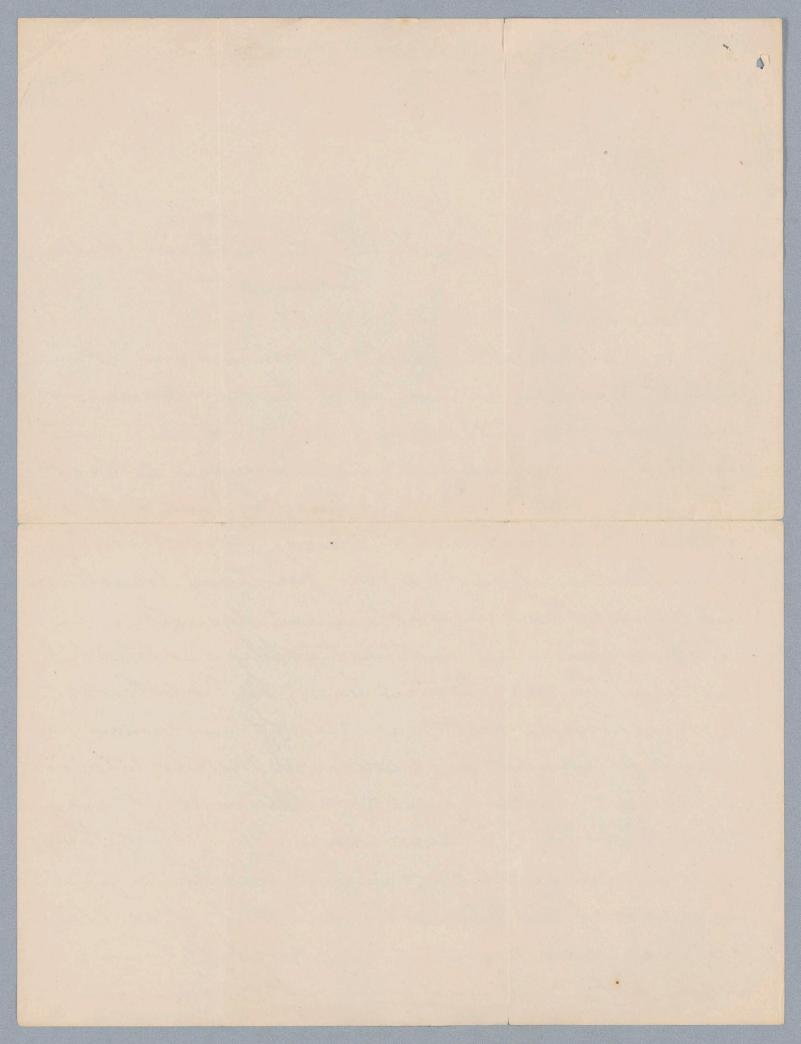
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Porton, 3-5-51

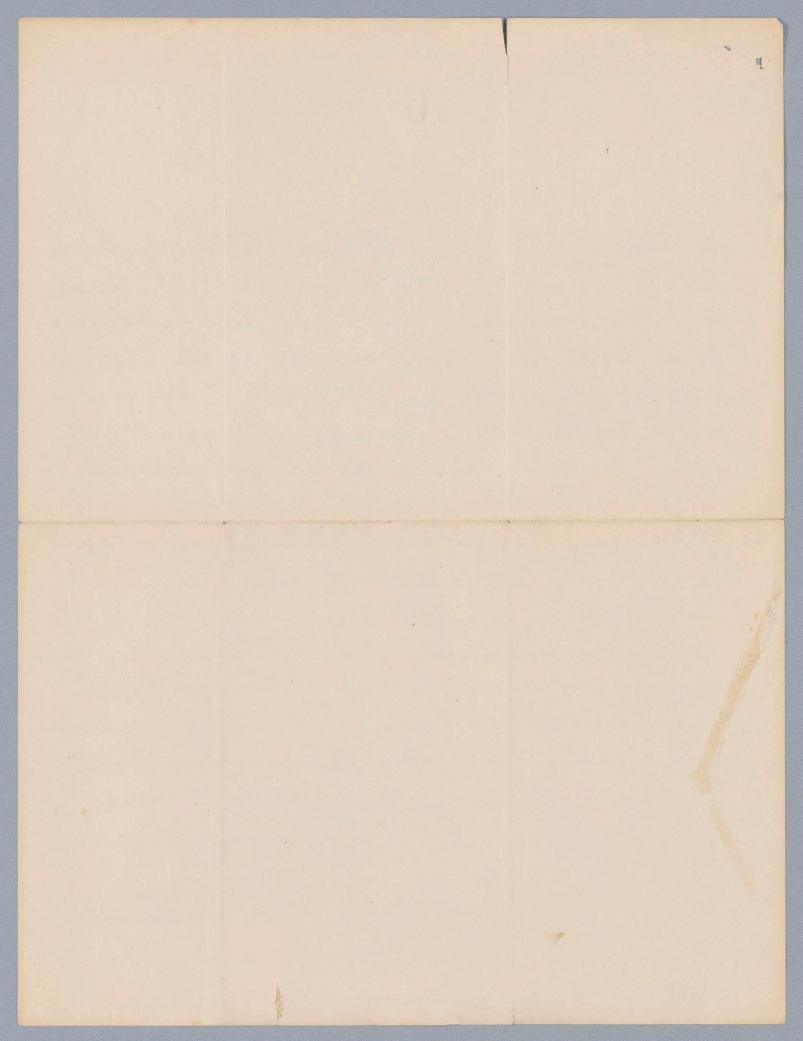
Star Sin, Teng likely you are aware that for this year clam Teng likely you are aware that for this year clam one of the visiting committee for the Gamene Secentifie School, Busy Institution & ander artistic. So far as the lack two Institutions are concerned, you probably are not specially interested, but with the first are it may be gite different. There have been no regular Committee meetings as yed, and may not be for some weeks, so that my miting you this is inticip spontavens and unbeknown to the other members of the Committee, brould you be willing to tell me, confidentially, or othermie, under what conditions you think the School might he revived without interfering with the Institute? Several of the Committee I think might, moles certain condition, favor removing to Boston; could this be done, do you think without big detrimental to the chustitute; if its scope were somewhat attend at the same time ? If you do not care to write to me about it, or would prefer to talk it over a title, lince come down to the I welitute or to your home, and we well go over the whole question. I wish to be entrely fuch, hat I should be very some to be even the enduced theave of causing the slightest inform to the School that enabled me to take the forther I now have. Fey the Dr. Bowstith. Vrof Dr. B. Rogen.

31 merch -Su School Fren Educity Daw Sitch. K

• 5 U Truity School, Twoli= in: Hudson, March 10 the 1841. Fran In, I take the librity of writing to you at Louis length to make inquiry as to the back course for me of our boye to pursue . It intructs to Eukor The M. L. T-, was prepared in all law much lost year, and will to fully prepared by June of this yrac - the is bright and tudins particularly to in Mathuratics, is a fair free hand draughtoman and my excellent in Michanical draughting, in which he has tree lystmatically instructed this year by our Bacher here, M. Victor moost. The is however not truy will off in sumey, This dependent in a widowed Mother, who is an artist have comes a question about his going to the M. J. T. next year. This mother thinks The is under excellent influences here and has improved in character, and that if he stays here me year more it will brushit him -I am not at the tend here, but I take an



· [3/10/1881] listmet in the boy, and think the Somer he goes Alto M. J. T., the better for him - the is 18, large and fully daveloped, also he is fully prepared to go in with his studies, and this he cannot do here, but maly mories. And swith to ask you if Luch a by can receive any assistance at the Institute, provided of course that his scholarship be Excellent, or in any case what his prospect should to of carning during his tacation, or of helping hundelf in any way? again do you, or do you not, think he chould altruckt to go in at mee -Pardin sue for having intruded to much upon your time, but my internet in the boy's facture has from phis and to unito to you, I should have merutined the boys name, it is scrael Davy of Hydroille, Dr., Fam, Jun my neprostfully, Mulastadagus (HB. Hars.) Im. B. Rogers L.D. E hustpuctor ain Imsident of M. L. T. Mathematics.



Mass. Institute of Technology,

Boston, March 12 1881

Président Rogers Dear Vie,

As the Committee on the School of Mechanic Arts have received no answer to the communecation made some time ago to the bommittee on the Chool of Industrial Vience, it was voted at our last weeking to ask the Commother on the Chool, again, whether any thing can be done in respect to an increase in the boy of the instructors in the Ochool of elbechance Arts. These waturctors are occasionally. tempted by offers of higher pay in other places and we run the note of loving them, to our very quat inconvence, unless we can pay

There what good work when are now

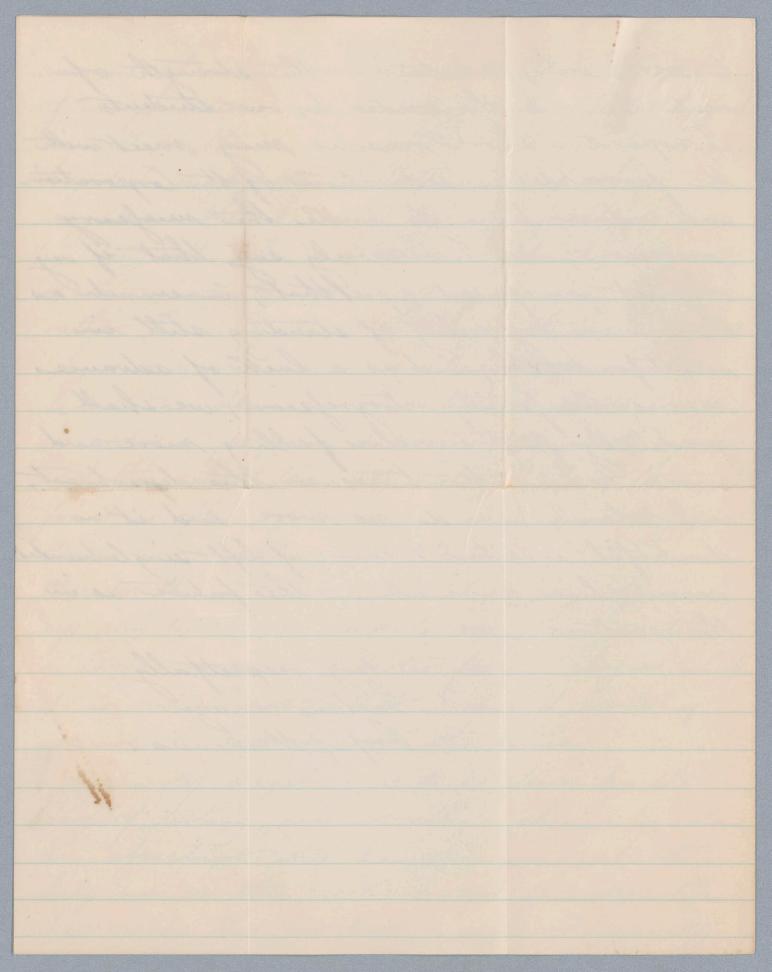
receiving cloedhere. It is exceedingly difficult to find men who understand their trade and at the same true can give instruction to large classes Our shops are going on very well wow and it is to be hoped that The two permanent instructors may be retained. Were either of Hem to leave, it would be haved to fill the place with two new men. They have learned to teach and can therefore accomplete much more than any new instructor could be expected to do. There has been a decided gave from year to year in the amount of our done by the Audents and this is owing to the geadual development of the conses and of the instructors themselves. A change contel not fail to poore detremental to the enterests of

the Auden to and it would en-Charman of the boundantee, - a great additional amount of case and labor. We cannot expect to retain instructors except by a reasonable amount of pay. Whalever our professors may do, we are not likely to find any inthatois the well be willing to once themselves to protain the school. One of the instructors has just received an offer of ten dollars more per month than he is now receiving. Respectfully yours, John M. Ordway Chaiman of the Commetter on the School of Mechanic Ats

from Prop. Orderay Mad. 12,1851 2 Provent Mary Star

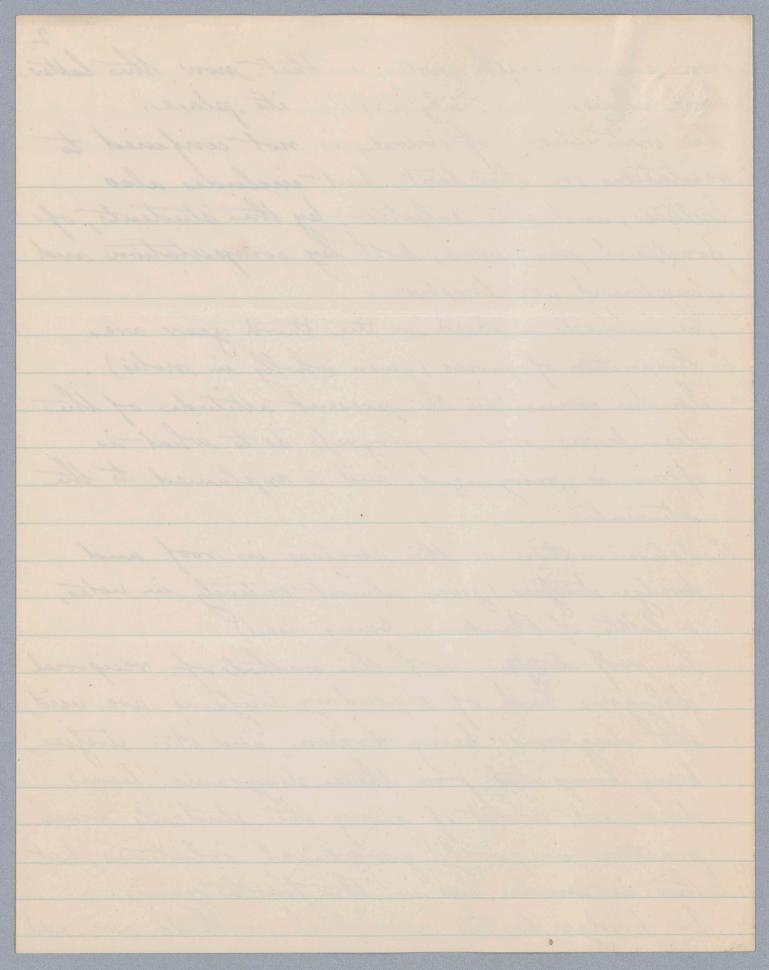
Mafs. Institute of Technology Boston March 14the 1881 President MM B. Progers Dear dir In accordance with your suggestion I will put in writing the request of had the honor to make of you verbally a short time ago; that an afsistant be provided for the department of Mechanics for the next school year. This need I have seriously felt for a long time, and especially during the current year, and I have only refrained from asking for one thus far, on account of the poverty of the Institute, kut now I do not see how I can possibly carry on the needsary work in the future, at all as it should be done, if aid is not provided. The accompanying report explains what is now done in this department, and what it is minediate improvements are demanded. In carrying on the instruction of the several dappes (five or six in all there is a large

to work with, and testing the strength of amount of detail work, consisting of the making of computations and drawnigs, absolutely needed materials is buelly needed by our students. as well as the examination of the problems I hope the above reasons may meet with handed in ky the students, all of which the favorable consideration of the Corporation might as well be done by an afsistant as and induce them to make the neighary by myself. As matters now sland, a part provision, and I can only say that if my request is refused I feel that, inasmuch as of this work is left undone, a part is done there is no possibility of standing still in rather hurredly by me, and the remainder (by noo means an insignificant amount) scientific worthe, and as a lack of advance has to be done by the students themselves means necessarily retrogression, we shall in order to prepare something to work upon; gradually find ourselves falling more and more thehid the times in this department, and this causes them a certain logs of time, for it is often of such a character as to give as I certainly can do no more, and it is them no valuable information. doubtful whether I can, if left single handed, Besides this the part that I do myself uses accomplish as much in the future as w up my time, and prevents me from writing the just. Very respectfully Gaetano Lanzo a large amount of notes for the clafses, which it is indispensable that I should write if we are to keep up with the times. Brof of Mechanics , Again, if anything is to be done by the way of testing, and something should be done an afsistant will be indispensable to help me in this work; indeed this department has never this far had a piece of apparatus



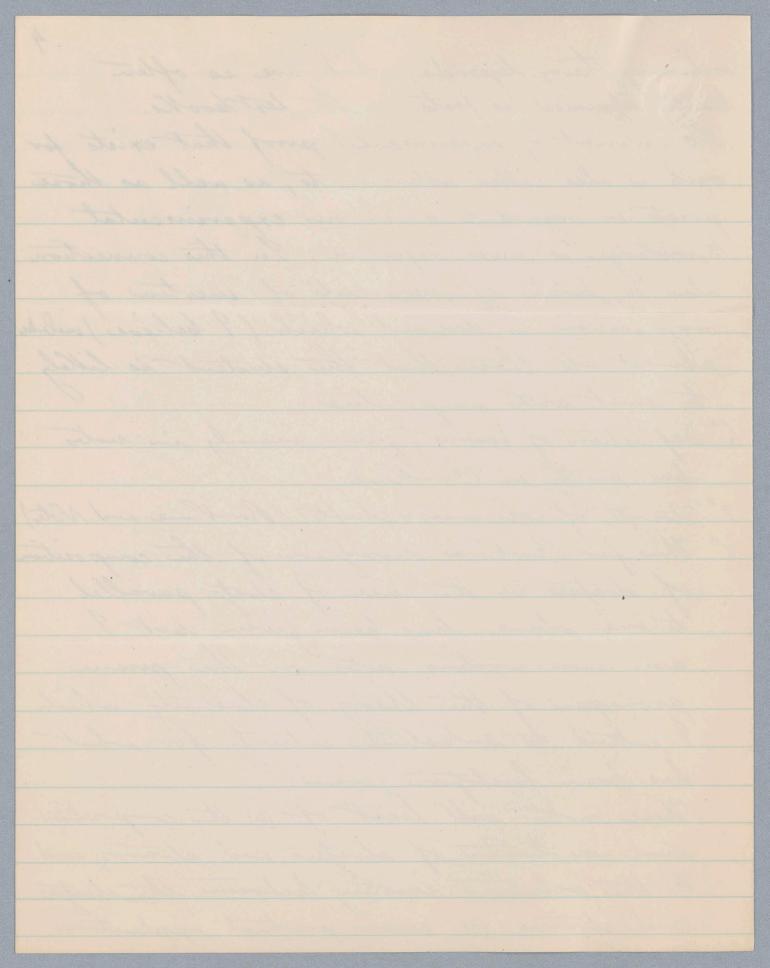
Report of the Department of Mechanics. [encl. 3/14/1881] Mafs. Institute of Technology Boston March 9th 1881 President MMB, Progers Dear Hir I have the honor to submit a statement of the present condition and work of the department of Mechanics, together with some observations in regard to its proper scope in the near future, and its most prefsing needs. As to it's past, and the various steps by which, from very small beginnings, it has, during the last nine years, developed into what it now is, I will not take the time to explain, but will proceed at once to its present condition. The instruction in Applied Mechanics is given to all the regular students of the third and fourth years of the courses in Civil, Mechanial, and Mining Engineering, Architecture and Physics In the third year there is only one claps, and atthough Rankine's Applied Mechanics is nominally the text book, it has, each year, been more and more displaced by my

own papyrograph notes, so that now the latter have almost entirely taken it's place, The instruction, of course, is not confined to rentations on the text, but includes also lectures, and the solution, by the students, of practical problems, both by computation and graphical construction, The subjects studied in the third year are 1 composition of forces (given wholly in notes). In this connection the present altitude of the discupsions now in progress as to what is force is recognized, and is explaned to the students. 2' Determination of the strepses in roof and bridge trufses (given almost entirely in notes, a little of branking being used . In roof trufses, both the methods of reciprocal polygous and of secondary trufsing are used, the diagrams being drawn, and the strefses being computed from these diagrams. Time does not admit of giving the students much practice in purely graphical solutions, but this is made up in the fourth year. In bridge trupes analytical methods are used.



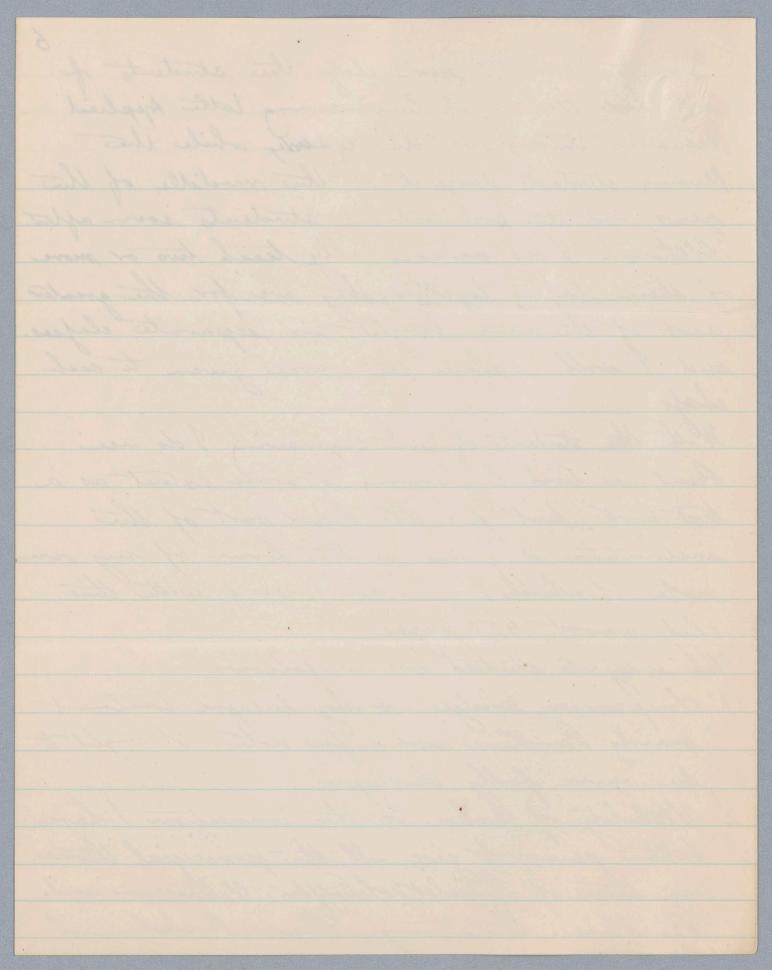
[Encl. 3/14/188] In both cuses the effort is made to give the students, in as short a time as possible, the principle of the subjects, and to give these in such a way that the students may acquire a confidence in his own powers to determine the strepses in any ordinary roof or bridge truts that may be presented to him for solution even though he may not adopt the shortest or neatest solution in any particular case 3° Brankine's discufsion of Burallel Projections. 4° Centre of Gravity (given wholly in notes) The general formulae are deduced the usual theorems demonstrated, and a large number of examples worked out, especial attention being paid to the crops sections of hearns, and to other cases that have the most direct bearing on practice 5 The usual topics of the strength of materials are next discussed; viz: Tension rods, Riveting and Boiler shells. (given in notes and (handline combined); Strength of beaus (given alamily in notes, a little of Bankine being used) In this connection care is latter to kering out prominently the afsumptions on which the

ordinary theory depends, which are so often tarity afsumed as facts in the lext books. The amount of experimental proof that exists for cach is also called attention to, as well as those points in regard to which our experimental Knowledge is most defective. In this connection also a takk of moments of mertia of crops sections is deduced which (I believe) meludes almost all those that the student is littley to meet with in practice. 6 Deflection of beams (given mainly in notes but party in Bankine) 7 Strength of columns & shafts (Rankline and Notes) 8 This far Brankine's discufacion of the composition of strepes in the case of strep parallel to one plane has been given but 9 an now worting notes on the prom principles of the theory of elasticity which I intend to substitute entirely for what has been herelofon given. These notes will treat of (a) the composition and vesolution of strepes and strans, and to the velations existing between the streps and strains, (c) some prosteal applications



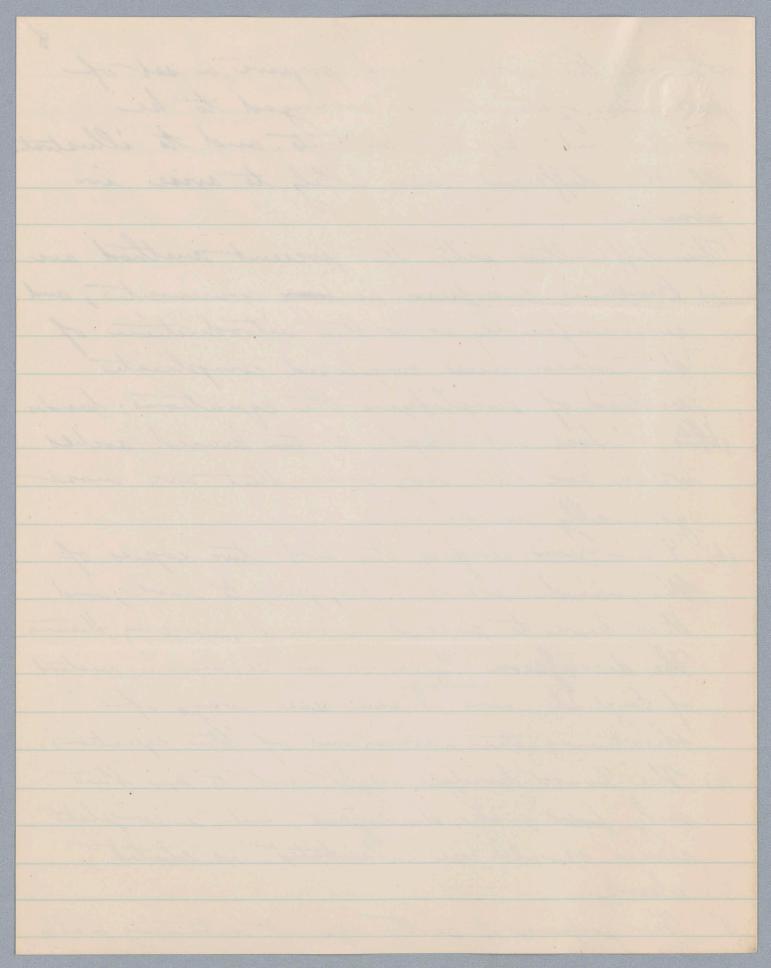
(Encl. 3/14/1881) of the theory. In this discussion the fact will 5 be tatten with account that when a vod is subjected to a pull in the direction of its length there occurs, not measely an elongation of the vod in the direction of the pull, but also a contraction in directions at right angles to it's length. This fact, which is not verognized in Rankine's Applied Mechanis is tatten account of in the deductions of the most recent workers on the strength of materials, and allers many formulae 9° Whatever time versains is devoted to the main principles of theoretical Dynamics, and whatever part of this is left unfinished here is completest in the fourth year. This is given almost entirely in notes. Of the notes given to the third year's class there are now over four hundred pages.

In the Fourth year's claps the students of avil, and Mechanical Engineering latter Applied Mechanics throughout the course while the Mining students drop it at the middle of the year, and the Architectural students soon after. Although I do recasionally teach two or more of these clufses together they are for the greater part of the time taught in separate clupses. and I will explain the course given to each dap. With the students of Civil Engineering I do use Bankines live Engineering to some extent as a text book, but far the larger part of the instruction is given in the form of my own notes, of which I am now using with this class about 450 pages. The subjects studies are as follows 1° Ouspension bridges. A very meague treatment mainly brankine and a few notes. It ought to be more fully developed 2 Stability of Arches. In this connection I have taken pains to give all the principal theories vis: those of Poncelet, Scheffler, Villaviean and Bankine: the laterary, Ellipse, Pavalola and



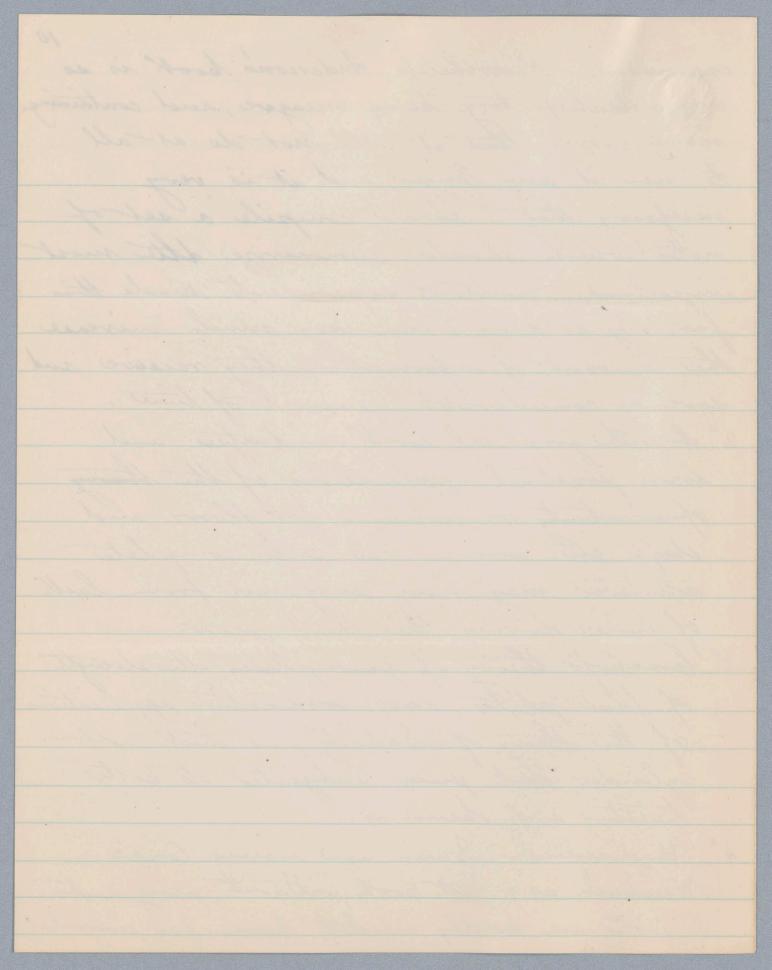
the geostatic arch; and to make plain the 7 points wherein they are all incomplete and indefinite. I also explain the afsumptions that underlie each one, and how much, or rather how little experimental proof we have of these afsumptions, and to indicate the information that we need to obtain from experiment. In this connection, a large mucher of pages of notes are given and the principal part of the instruction on this subject is breated in this way, 3° Continuous girders . A little instruction is given, partly in notes, and partly in Manhine and then, for lack of time to do beller a series of problems suitable to develop the different cases are given, to be solved by the students. 4° The arched vib; In this connection I have this year given the clafs (a) Prankine's . discupsion, (b) Weymuch's Part of Weyrauch's Theorie der Elostigen Bogenträger " (Meyrauch's in Portugal, This is the best Tian do under the circumstances that what is needed is that I should write a set of

notes on the subject, and prepare a set of problems systematically arranged to be worked out by the shidents and to illustrate all the different cases littley to arise in practice, The difficulties with the present method are (a) Pranthine's descufsion is ung macurate, and uneceparily so, as the introduction of the macuracies employed complicate instead of simplifying the equations, besides this, it does not apply to the braced arches which are the very ones that are most generally used, (b) I am now lenging the class two copies of Neyvanch which I hoppen to have ; and they have to pass it around among them, The discufsion there, is in Zerman, wited shortening the deductions of the equations, (c) The Douve bridge ought not to be the only total and discufsed, but a complete series should be culculated as stated shove. 5" The prepure of carth against retaining walls



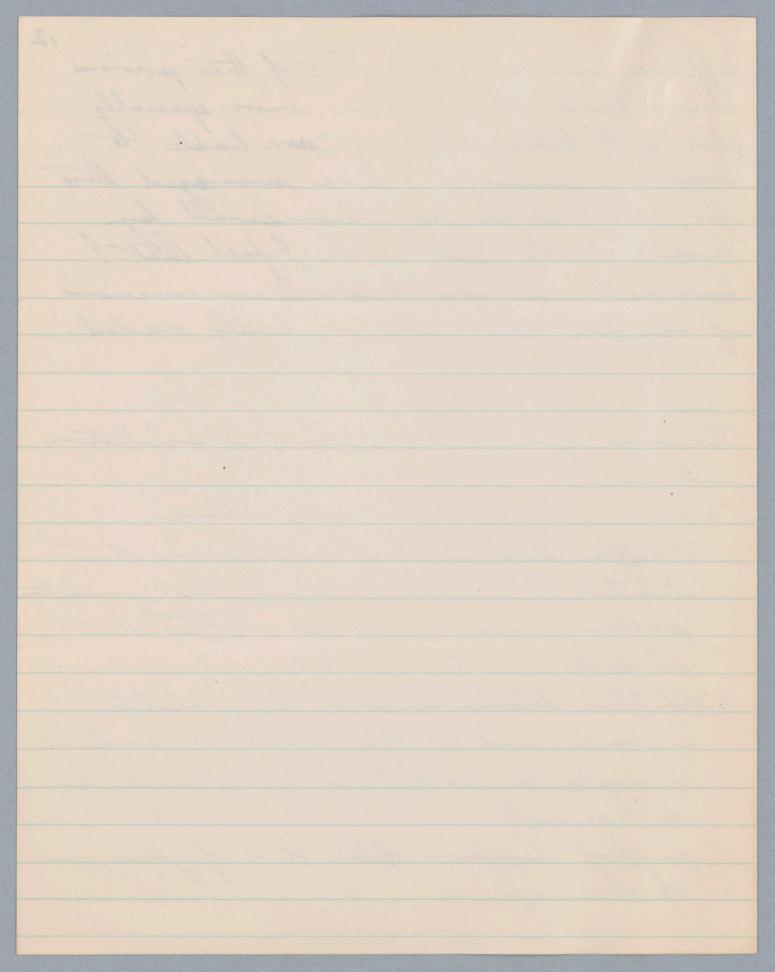
[End. 3/14/1881] is next discufsed, and the resistance of the I retaining walls, and in addition to Rauthine's theoned on the subject as set forth in his book on Civil Engineering, I have given the paster the older theoring viz: that of Ponetet-Morely and also d'chefflers criticisms on it. 6 grashofs discufsion of the strength of flat plates and thirthe hollow cylinders is next-latter (given in notes cutively) To the remainder of the course is used up manily in giving some of the chief principles of governors, flywheels to, and the laws of printion, and a a little hydraulies treated votter rapidly. The course given to the students of Mechanical Engineering embraces 1° A study of the results of the experiments that have been made on the strength of wood, iron, and other materials used in construction. I have thus far, used as a text book the first half of Anderson's Strength of Materials, and I have supplemented this by reading to theme some extracts from kirkaldy's

experiments. Neverthelefs, Anderson's book is so very unsatisfactory being meagure, and containing many errors, that it will not do at all to use it any longer, and it is very necessary that I should compile a set of notes which should summarize atto most important results of experiments made this for. By so doing I can very much mirease the amount of information they receive and save a considerable amount of time, 2 A little graphical work on draftes and some practical applications of the theory of clasticity computations for floors and structs etc. arranged so as to complete whatever may have suffered from lack of time during the third year. 3 grashofs theory of flat plates the strength of flat plates, and some other applications of the theory of elasticity, as thirthe hollow yunders and pieres subjected to both twisting and bending. 4° Hydraulies - I am now using Coxes Weisbach as a text book without any notes, Notis are budly needed here for several



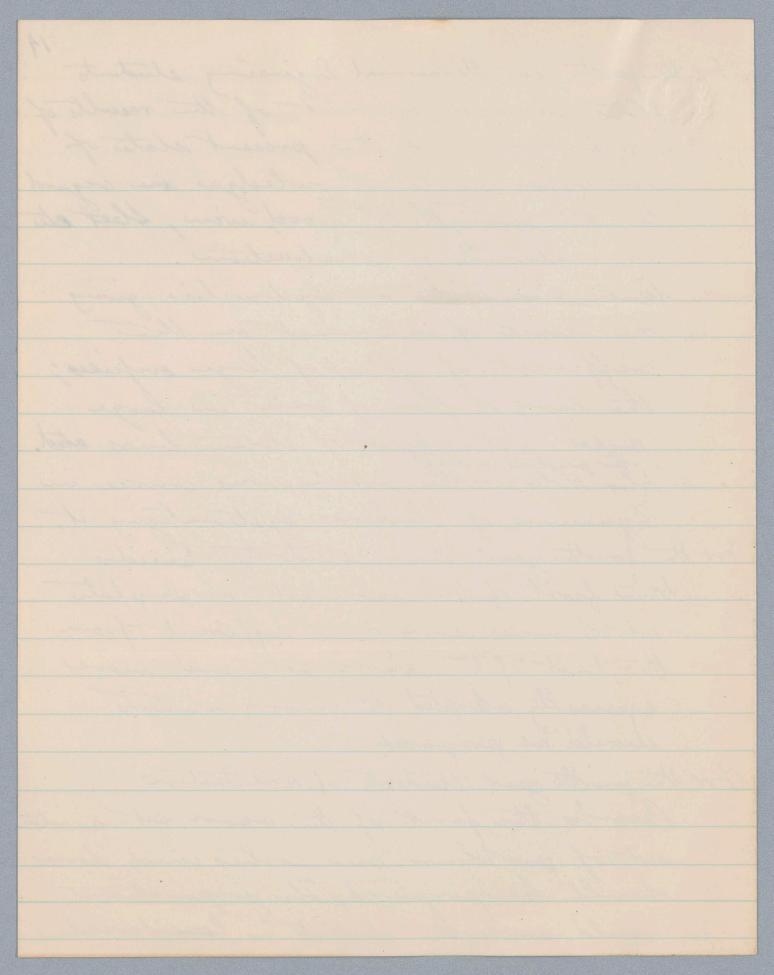
reasons. org. The coefficients of efflux and the " other constants which are determined by appendents alfor to experie are dedded from experiments on small ovifices and small heads of water. The students ought to have vesult for larger orifies also. Then again the subject of stream lines ought to be treated. Also the results of smore recent experiments on the flow of water in large pipes; as well as other more verent and prostical 5° Then follows a vather miscellaneous course giving the laws of frition and the main principles of the Flywheel Governor etc. As text books I have used party Weisbach and partly Rankine, and also given practicut problems, with verbal huits to their solution. A systematic set of notes conten out would and probably save so much time as to enable this clop to obstand some study of arches. The students of Mining Engineering have the following course. I' and 2° The same as Nos I'and 2° above 3° I then give a valler promismous course

differing somewhat from No 5 of the previous course, and intended to be more specially adapted to those cases that are like to avise in mining - I have managed this for, as the cluster have been small key lending books, but while I feel that I have done the best I can I am conscious of the fact that notes are budly needed. The course given to the students of Architecture includes includes 1 and 2 Some as Nos. 1° and 2° above 3° Scheffler's deler mode of delerming the statility of an arch; and in this connection practical cases are worked out by the Students 4 Veheffler's determination of the statility of a Dome, and in this connection practical examples are worked out graphically by 5° A short discufsion of the flow of yases, and of chunieys,



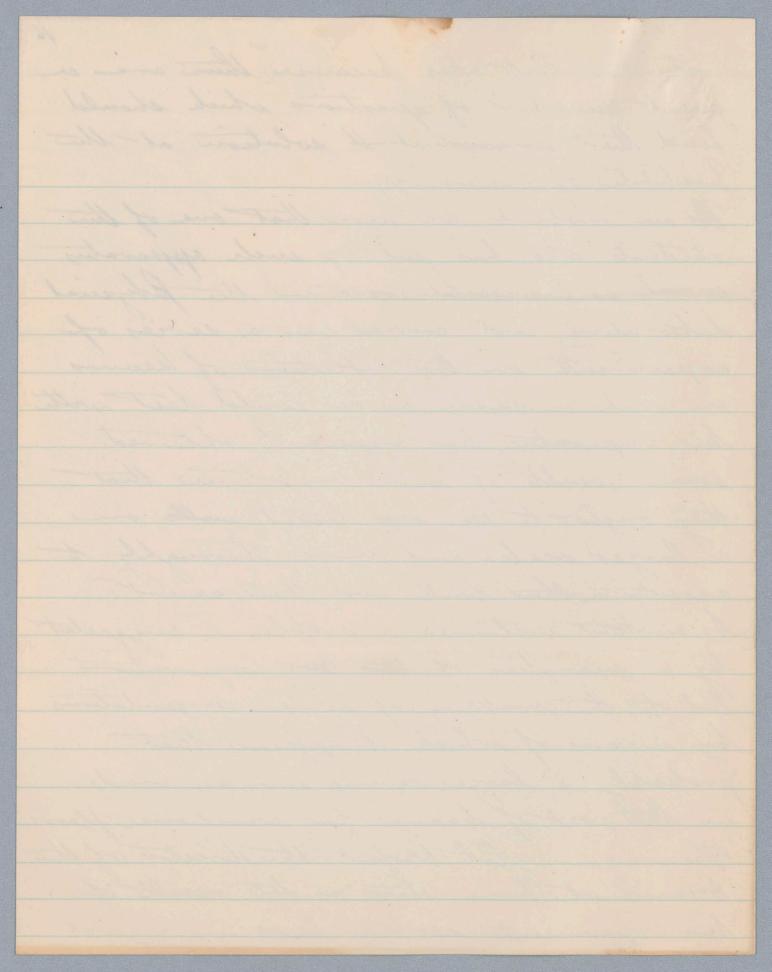
[Encl. 3/14/1881] 13 The fourth year students in Physics, when there are any, usually Reep with the students of Mechanical Engineering with they have partly finished hydraulies, and there they read Maxwells theory of heat with me. To sum up, the notes that I ought to prepare in order to give the course properly are as follows, viz; as follows , viz ; For the thirst year. The notes which I am now writing on theory of Elasticity, and also the notes on Proof & Bridge Trufses should be rewritten and arranged and extended, as they are at present rather scattering. For the fourth year and Engineering students Wotes on the arched will should be written; and a munker of problems prepared and solved to illustrate the different cases. This would moolie a very large amount of computation and graphical construction, much more than I can possibly do. Also, a ketter set of notes should be given an Onopension kridges.

For the fourth year Mechanical Engineering students Notes giving an account of the results of experiments, and the present state of our experimental knowledge in vegard to the strength, of wood, iron, sleet etc as materials of construction. These also Notis on Hydroulis, gwy the vesults of experiment on the coefficient of effling of large orfules; the laws of flow of water in large Poter practices matters promis cuous and in Dynamics of machines systematizing it. For the fourth year Mining students, besides this first of the above set a complete set of notes somewhat def event from the last of the above set and more specially adapted to mining students should be prepared nor the fauth year abudents of Architecture Besides the first of the above set a metal set of problems on arches and dowes should be prepared , This preparation would save the students a considerable



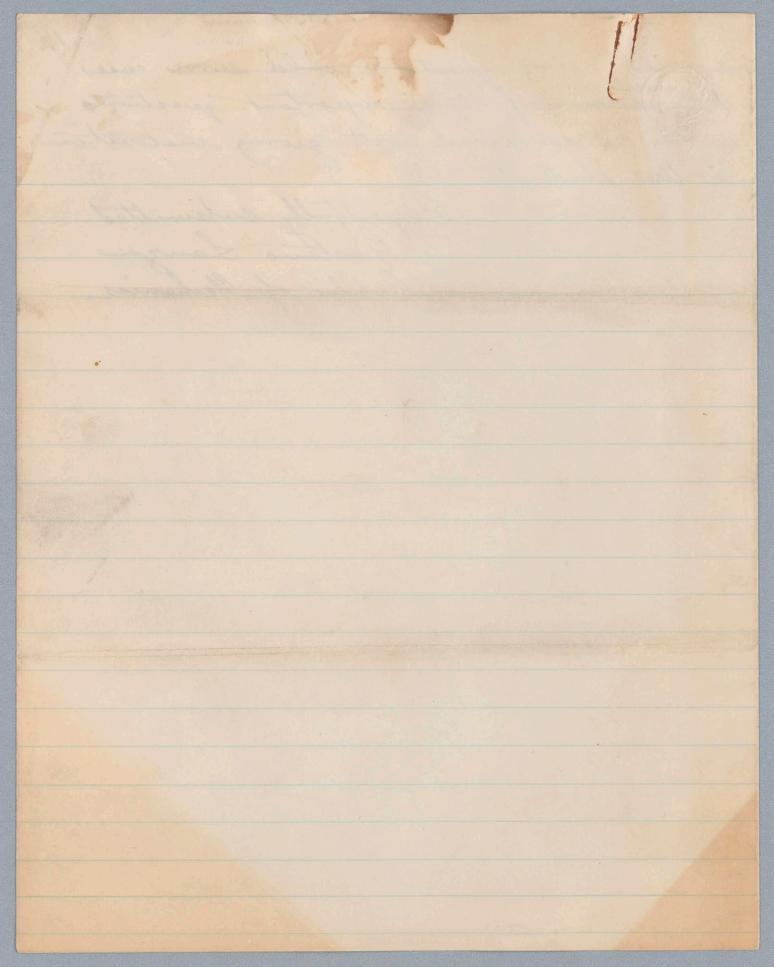
[Encl. 3/14/1881] around of time now spent in determining what are the data and other questions whose solution does not give them any instruction. Notes should also be prepared on the flow Another all important matter tof which I ought to speak is the following . It is very important that the students shall Engineering courses should, before leaving the school have some instruction in testing the strength of materials, to that they may have a setter understanding, not only of the mode in which the lesting to be performed, and the cantions necessary to observe, but also of the properties of the malerials themselves as shown by the testing machine, Indeed almost every bak the Vientifu Justitutions of the country down at least one, and the obsence of such a machine at the Institute is putting us at quite a deadouter not only by our being this make to give the students this part of their

instruction but also because there are a great number of questions which should find their answer at It solution at the Testitute of Technology. As an instance, we have that one of the students who has put up such apparations merely as he could event in the physical Suboratory, and carried on a series of experiments on the deflection of beaus on such a scale as he could lest with his apparatus, has apparent obtained some results of such importance that they ought to be says lestert with on a larger scale and more thoroughly to ascertain their truth and their extent. As another instance a problem suggester ky a member of the bour Corporation led to the making of some computations by means of which it appears that probably a large saving can be made in the cost of beaus for wavehouse floors. Then again al hofset the director of the Arrenal of Turin states as the result of his experiments certain laws in regard



to the stretch of wow vods under 17 disproved by other experiments. These are very questions that come to my mind at the present moment, but the mulaer of said questions that we aught to try to solve is unneuse, and indeed the solution of any ove is likely to suggest a mucher of others. With so many notes which I ought to write, and which I cannot on account of the my time being wholly taken up by imy lectures which some her during a part of the year eighteen ; and 2 her a large amount of detail work which might as well be done by an apristant as they me and which I now find it wip ofsible to do as it should be done, it would The impossible for me even if we had a machine, to find the time to do any thing with it. But if I can the relieved from this detait work, I shall certainly endeavour to undertable with the students whatever work I can in this deviction. Indeed I believe that

18 a s mark in great many questions could serve cases the investigation of these supportant questions could be combined with giving instruction to the students. Respectfully subsuited Gaetano Lanza Professor of Mechanics.



Theating of Commin School - Mand 15-11881 1. mentin addition to h: Startents En S Phillent Roger. raising the letter list to 35-6? 2 Ma musiger Letter of Usiger . ask to alow him to Usign gar requesto, higher Morawal to take Effect April 1: 3. authorisi the exployment of Mr. C.L. Adams in april' in Drapveng for the umainder of the lerm growie pro 1 a 7 heath after April - at conferration of \$ 2 5- pa weet - Shew steemen of in Skill, april 1 4. An Mar Barrisin, Balan & restersibility When the the Same as he preister here here - ask that he allowed for that lengt Compensation at the take of goo orts harted of sor after tee - By the heavent the experse I the dep' for thes wearing the Lepin with he a hafter lefs The stand have been with the And unan is who at 25the at 25 the and the stand of the stand of the Stander & My lasfelder, See lette hipocket gracest-6. Speak of application of Sienf Brant & Lient Honor for post military & stander Our Can learn for Sogn which is a military of you a on requested due of the mark 7. Mention Subject of E Boundet che Letter, & read my 1 response. I am to pane an interview with EB. & Letter from Conservore The chanic artig astening that the pay of Jur of the Jeacher be hereford (Ordibary letter) Board Pay 75 for hunde \$3 for find for 25 tonker or . Conto tour starts it it to 3.25 or 3.50 . Referend to the Sert connotteer Grants of E. S. Phillorich & no Cartons . april to the SH. & too for anthe I

9. Application of Sev. K then to have der Da W. K. tacks -(a lique that of 3-give hi has sond standy) alwand Hengit og a Sobolarikke og iche C. In Apar. He her aludy hand A 12 5-? Agned to allow the abatterent for Lead her gother Lefter & 10. Shale ang they her done more more the regar to contraction of materies fin the School to either on both of the mposition of thick, birts & Manufacture, to his her hent august " M. Cold / chaining 15 Com. on Museum . Think we show to had to be and Maiste Pollow will higher to Law Jernin, the space believe the Gypochastien & 12 Shops building, Referred the Conni on the grounds. Phillingh, Pop, Flint & Altenson

117 marlborry L It. Bosten March 19. 1881

Dear M Mudge

The Cours: of Maturated.

of the Institute, at a meeting held

on the life on ", boted that your

Lesegn ation, to take effect on the Just of April heart, be agreed to and accepted.

In Comproducatoring this (him again of the Conthe & louth to philes (him again of the first and the genter of the faithfulsels with Which for Many

Jean you have discharged some Carrent-lost that your here Career May brong you the fullest Mi Henry N Mudge William B Rogers.

to Kenty & Musepe March - 1886

TENTH CENSUS of the INITED STATES.

[7-463.] **Department of the Anterion,** CENSUS OFFICE Brookline, Mass., March 19, 1881.

DEAR SIR: It has been necessary for the investigation into the Forest Wealth of the United States, undertaken in connection with the Tenth Census, to make large collections of the wood of all indigenous North American Trees. I have had such portions of these collections as have not been used up, in the experiments made with the view of determining the comparative value of our woods, worked into museum sets, which I am instructed by the Superintendent of Census to distribute among the Agricultural Colleges and Technical Schools of the United States established by the acts of 1863–764, and among other institutions of learning in this country and Europe. These sets are generally quite full, and contain a large number of rare and littleknown species. The specimens have been carefully prepared ; they are six inches long, but vary somewhat in size ; generally, but not always, they show the bark, sap, and heart-wood of the tree, and are admirably adapted to illustrate the characters of North American woods.

Recipients of these sets will be expected to pay the cost of packing-cases and transportation from Brookline.

Should you desire to receive one of these sets for the establishment over which you preside, you are requested to inform me of the fact at your early convenience, and instruct me in what manner you desire to have them sent to you.

The sets will be ready for distribution during the month of April.

Yours, very truly,

C. S. SARGENT,

Special Agent Tenth Census

for then. Ja Clark. Theodor * My Speciart. Alles Beenergh. (anny i

1901 S Prastinglin D.G. March 22. 1881 Rof. Mr. 93. Rogen . My clear Por Gurcalans for R afone meeting for the academy of Sciences will be issued for morrows an contourand accident Poma. What delayear them. I am conforming with theme. Barroe, Hilgarde, Factorante & Poschward with regard To arrangements for the meeting, Shawn wentimed to adox the last names a account of this connection with ale Sculs Church, when to Ohale probaby meet. The shall churche the work

of arranging between us. Mr Helgarde will have Dome statement to present respecting Prof. Pratsons bequest To the Cecademy, Her, Acurcando Tanyoulf than ghes it best To decline acting as byecutors, as the forsporty is in two States A do a destance from us. But this wife not interfer who are acting as onstees when any of the forstoarts comes to the lecademy. It is understand that this Watson claums her third i lien of the pomale pettance left her. Ken truly yours 1.86.6.68pm

1901 I Atreet Washington D.C. France 23, 1881 Prof. Pr. B. Rogen my dear for yours of The 19th to Boy Baurce An has for. warded to me, My health is much better than I was a year ago: Still I have beri-Odical actments from 91/2 to 11 A.M. which an foartly appectic, but do not change have by change of breakfash have, I may therefore loc partly malance. My out. door movements an much impedace by whermatic weather of muscles. I hope to allende the

meetings of the academy. Yours of the 11 to derected to king Bhade Island lev. was delayed two or three days. Shave never tereder a that levenue, but my home for the last eight years has been 1901 I Streel ? Gerculans for afonic meeting have been issued of Suppon will mach you be for this. Very truly yours 1. 46. 6. 6 offici

48:14

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NATIONAL ACADEMY OF SCIENCES.

NOMINATIONS

Made at the April Session, 1880, to be voted on at the April Session, 1881.

CONFIDENTIAL.

Absent members may inscribe on a ballot the names of nominees, not exceeding five in number, and send it to the Home Secretary, 1901 I street, Washington, D. C., before April 18.

* ALVORD, BENJAMIN, U. S. A., Washington, D. C. Proposed by—Barnard, J. G. Coffin, J. H. C. Barnard, F. A. P. Hilgard, J. E. Trowbridge, W. P.

BILLINGS, J. S., U. S. A., Washington, D. C. Proposed by—Baird, S. F. Newberry, J. S. Gill, Theo. Newcomb, S.

Woodward, J. J.

BROOKS, WILLIAM K., Baltimore, Md. Proposed by—Baird, S. F. Gill, Theo. Coues, E. Haldeman, S. S. Newberry, J. S.

* CLARKE, THOMAS CURTIS, Philadelphia, Pa.

Proposed by-Hilgard, J. E. Rogers, Fairman Meigs, M. C. Sellers, William Trowbridge, W. P.

COOK, GEORGE H., New Brunswick, N. J. Proposed by—Hall, James Hunt, J. Sterry Haldeman, S. S. King, Clarence Marsh, O. C.

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* DANA, EDWARD S., New Haven, Conn.

Proposed by-Barker, G. F. Brush, G. J. Baird, S. F. Newton, H. A. Pumpelly, R.

EASTON, D. C., Yale College, New Haven, Conn. Proposed by—Agassiz, Alex'r Newberry, J. S. Brush, G. J. Scudder, S. H. Trowbridge, W. P.

* Eggleston, Thomas, Columbia College, New York, N. Y. Proposed by—Barnard, F. A. P. Hayden, F. V. Gill, Theo. Newberry, J. S. Trowbridge, W. P.

MITCHELL, HENRY, U. S. Coast Survey. Proposed by—Gibbs, W. Lovering, J. Hilgard, J. E. Peirce, C. S. Rogers, W. B.

REMSEN, IRA, Johns Hopkins University, Baltimore, Md. Proposed by—Barker, G. F. Chandler, C. F. Brush, G. J. Draper, Henry Mayer, A. M.

* RowLAND, H. A., Johns Hopkins University, Baltimore, Md. Proposed by—Barker, G. F. Mayer, A. M. Draper, Henry Newcomb, S.

Pickering, E. C.

STORER, FRANK H., Harvard College.

Proposed by—Brush, Geo. J. Cooke, Josiah P. Dana, James D. Gibbs, Wolcott

Hunt, J. Sterry Johnson, S. W. Lyman, Theodore Verrill, A. E.

* SMITH, SIDNEY J., New Haven, Conn.

Proposed by—Barker, G. F.	Marsh, O. C.	C
Baird, S. F.	Walker, F. A.	
Brush, G. J.	Scudder, S. H.	

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* WHITE, CHARLES A., Washington, D. C. Proposed by—Baird, S. F. Haldeman, S. S. Cope, E. D. Hayden, F. V. Coues, E. Newberry, J. S. Gill, Theo. Woodward, J. J.

* WRIGHT, ARTHUR W., New Haven, Conn.

Proposed by—Barker, G. F. Mayer, A. M. Brush, G. J. Newcomb, S. Draper, Henry Newton, H. A. Hall, A. Pickering, E. C.

Note.—The lists of published works of nominees marked with a * are in the hands of the Home Secretary. These, however, in some cases, extend only to early in 1879.

Nominations not acted on favorably are dropped unless renewed.

Absent members may also vote aye or no on the proposed amendments to the Constitution, contained in the Circular announcing the time of the Annual Session, 1881.

> J. H. C. COFFIN, Home Secretary.

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1901 I STREET, WASHINGTON, D. C., March, 1881.

