

BOUND VOLUMES OF PAPERS : MONTHLY PAPERS. TERMS OF MEMBERSHIP : First Issue January, 1876. Sent free to Members. Other Subscribers, \$3 per annum. Back Nos. supplied in bound vols. Annual Membership\$3 00 OFFICE orical Sor A. No. 7 LIBRARY FLOOR, STATE CAPITOL. Gen. J. A. EARLY, President, Gen. D. H. MAURY, Chairm'n Ex-Richmand, Va., Dec. 1. 1880 ecutive Committee, Rev. J. WM. JONES, D. D., Sec'y. M.B. Rogers Jear Sir:-2 May I h une on 8 20 pleasau ven a urte, acqua n e un 81 a U nr ask 0 U n 1 in r D tion app, as A O Seal ody Fund J not hreau to ask. d this fa rth out e w 5 0 te S ino ria s for all n you know, and who renda_ J venture to hope y Uo all be mi lling To 0 bitte high S R 5,5 truly -8

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MONTELY PATERS First Issue January, 1876. Sent free to Members, Other Subscribers, 53 per annum, Back Nos, supplied in baund vols.

Jean and the

United States Internal Revenue.

Collector's Office,

Boston, Dec. Ht, 18 Pd.

Aquill for Choray.

William B. Agen, Esp. Mass. Seist. of Technology

The Commissioner of Sutemal Rusnus desires

me to call your attention to the fact that the time con ditioned in your boud for the production of proof as to the use of alcohol with drawn from Bouded where. house, for scientific purposes, has expired gut that such proof has not been received at this office.

You will please furnish the necessary proof with. outdelay, in order that the boud referred to may

be cancelled

spectfully,

•Officers of Internal Revenue must fill out the endorsement and brief on the back of each letter to the Department. No. No. of Enclosures Collector of Internal Revenue, District, Mass. Dec C.C. -1880 X .

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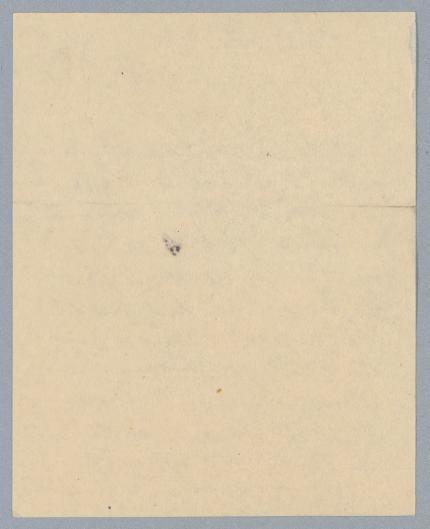
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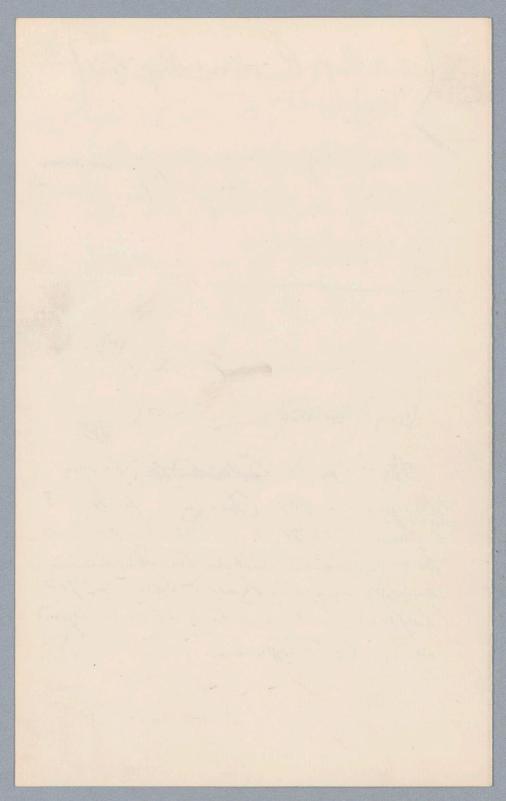
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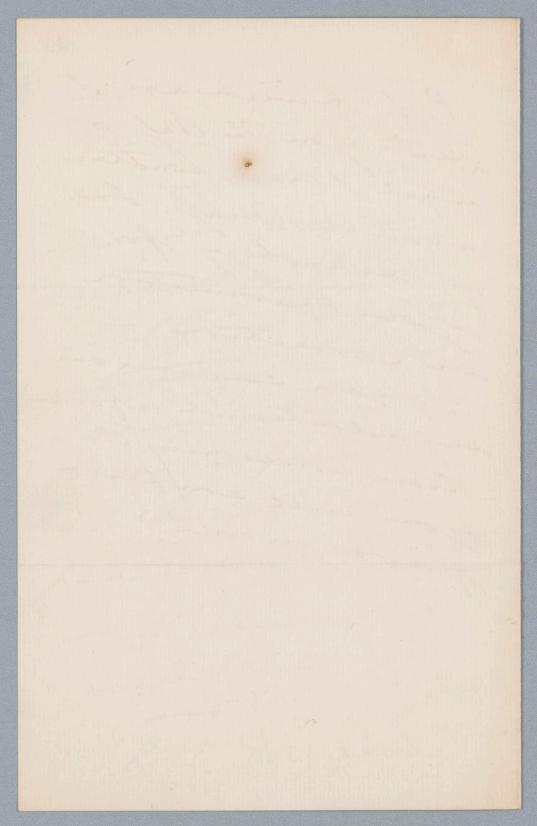
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25-2 Dec. 9/80 Prof. Com. B. Rogers My dear on A few days age I reced The " memor of the Hon. Jumes Savage by Geo 1. Hilland "probably sent to me by your Mundaip ~ 1 roas glad to get it not only for the informa Thom it gave about our Primary Schools and The interes Michaoage

Took in foundary Mon, but partien -farly because The Memoir was written by an old frien - Ifont to many interesting - Mr Swage whom every body respected could not have had a better biographer ~ Seture m respectfully b.11. Diraesay

P.J. Aweek ago I Sent you The My. of what I had wonther about the maps. Ino. of Jechnology. for Mour examination an correction -If you can give one any additional informa - Thom concerning I you will confor a Aavor on an



YALE COLLEGE MUSEUM,

NEW HAVEN, CONN.

Dec 17-1880

Dear Prifepa Roger.

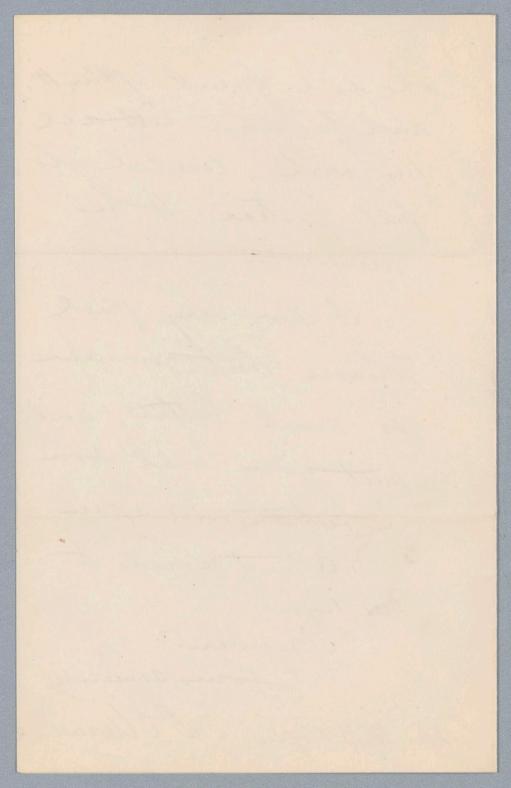
Profeper Whitney positively declines to pufar the holece of Mr. H. on the same fromes (I may day confidentially) Wat Trumball fane.

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regard Mu H. a. a

plulologist. Projepu M. suffect. Sesley of Muladelflica,

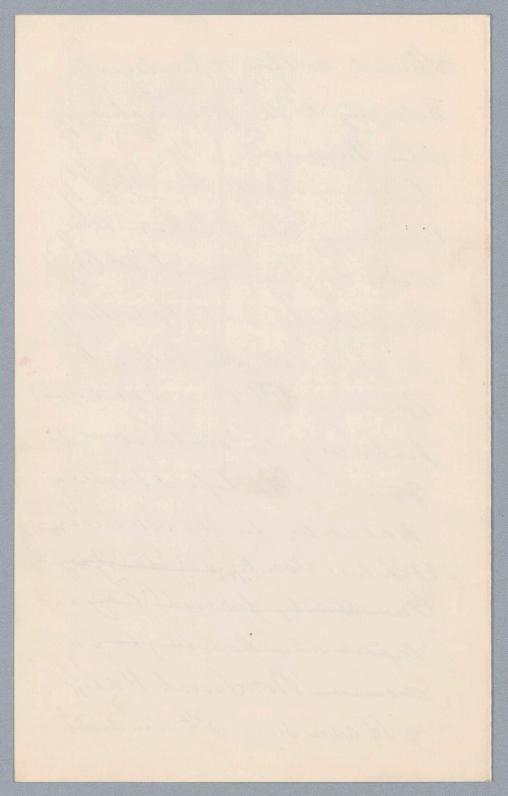
who, as a friend Mun. H. and familier with all hy work, could do full puttice to he memory. I am very flack Tolean that you are to much better, and mit you will door be perfectly well again. Inthe third regards to Mus Roques, Greman-Ondepa W.B. Popus: I. Macel.



117 Marlborough son Doten Ded. 13. 1880 My dear Prof. Dr. Leconte, m'a letter to Org. Cofferi, has very positual declered to prepare the memori g Vory Haldeman, and usges that " for twenty three or twenty four year part his (at s/ scientific look, the most nefertant of his lefe, has been quite Outside of Buloped Science " This gente legrees & gages with They Imprepeir, and Russing Phis der ten for this tory time to Phitology & american anchaeology, I at once looked to one of the learned

Con

Students in these departments, academy for the belowing to the preparation of The memori. Do you thank that Por Whitney, who I believe was bele a quanter with Pay A al detras, would be Willing to undertathe the task. De Bronten of Phil - is I hunderstand preparing an elaborate momon of the life & lonks of Waldoman for the American Philos: Society, & Wind am I'me fladly furneshe long Infort the bet bught he dosing Mularah Haly of Id arresburg Of the dister



Boston Aniversity,

PRESIDENT'S OFFICE, 20 BEACON STREET,

BOSTON, Dec. 18. TT 188 U

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My dear Sin: · I am Myorad at the nines from Washington. Now for a ground rally of mfluince to carry The but this the Bonse befor the political bush whacking + interbegin. Can the Institute not send

sendon its frisident or an influential Insta to work for the bronging forward of the measure at The salut possile monunt? Thou anotin to yournor Claftin mging mmorate action & before he want I spoke to him of the importance of the meann. Thom. also writtin Twice

to Amhust mer ystuday & whative Cooperation & combined mphime The agricuttul Colleges can bring to bear will smily not til lacking. henry hust With bus within the two Apris truly Mm. F. Wann P.J. I think the only ·puil is in loss of Time! The but should be got in

as find busines after the

nons & if it can la it win pus.

Prisident W. B. Rogers.

fer with you, in relation to a benerolest Count project Mrs. Clizabeth Thempson of New york has one her heart at present and has placed in my honds, or entructed to my case to tring before The publice -9 She is desirous hencefitte te assert 3 There who are doing semething to w benefit The world with ideas - or m--renturs, or to assist These who are Park trying to helf Themselves on The united te mue intellectual a material realth. I am ancious to desirous te have her fortune, or a large part Unu of it ultimately dented to such in prevents and mertigations as the Sacrety of Arts and The Institute of Q Technology" propore - Any time That Z well suit your envencence. I will endeaver to see you if a greeoble They yours John Newell

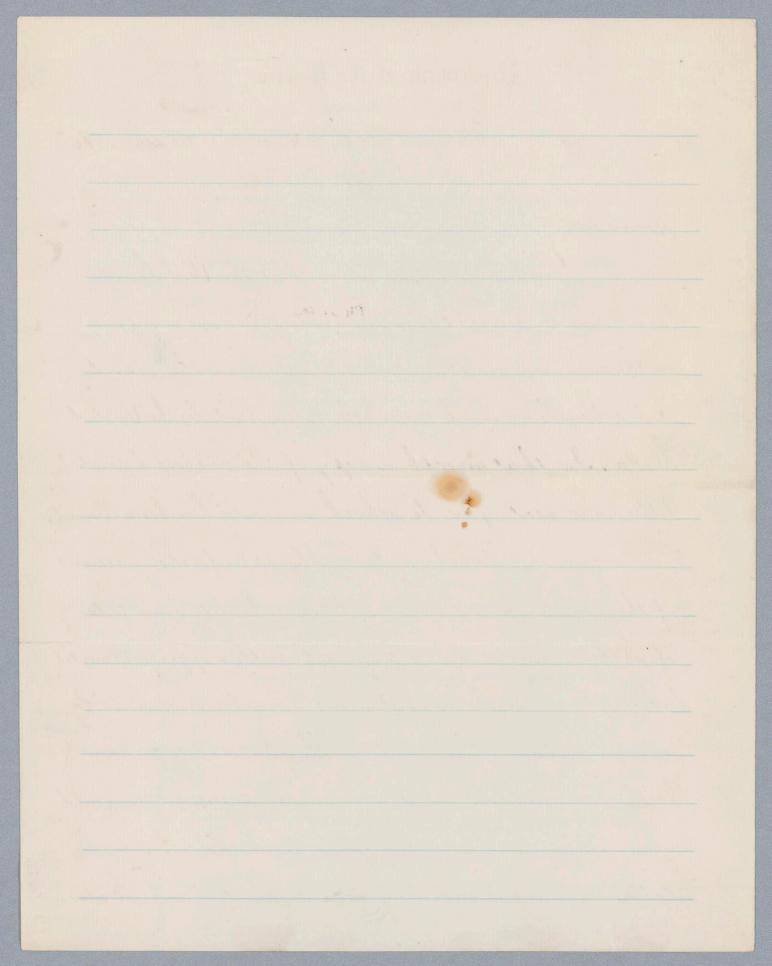
1 Dec 15, 1880 . and

Pepartment of the Unterior,

BUREAU OF EDUCATION,

Washington, D. C., December 21 st , 18'80.

Dear Sir: You are doubtless aware that the U.S. Senate last March directed this office to prepare a report on the condition of technical education in the schools and colleges endowed in whole or in part by the United States. In that month a copy of the enclosed printed letter was sent you, to which no seply has been received. While a tolerably satisfactory account of the condition and work of the Mass achusetto Institute of Jechnology may be prepared in this office. it muld be better that such a statement should be made by some one fully acquainted with the institution. Will you therefore . Kindly furnish a report, a would you prefer to have the work done here? If the latter, please send any recent printed information



bearing upon the soints noticed in the enclosed

circular.

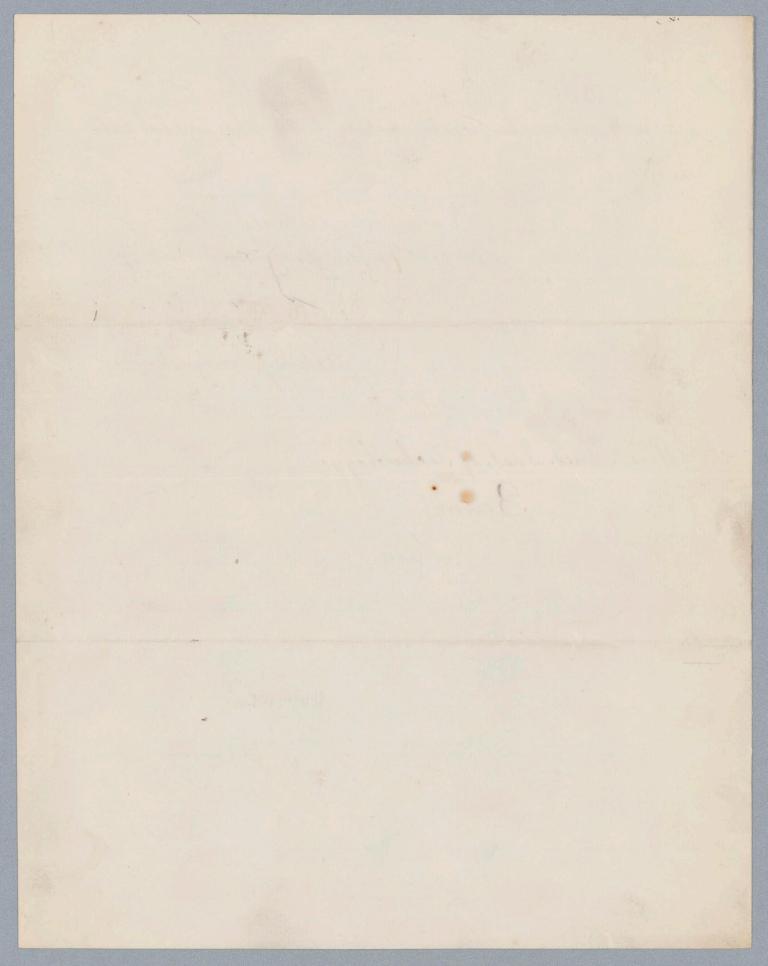
I am, very respectfully, Your obedient servant. Challanen

acting Commissioner.

William B. Rogers, LL. D. Pres. Mass. Inst. of Jechnology.

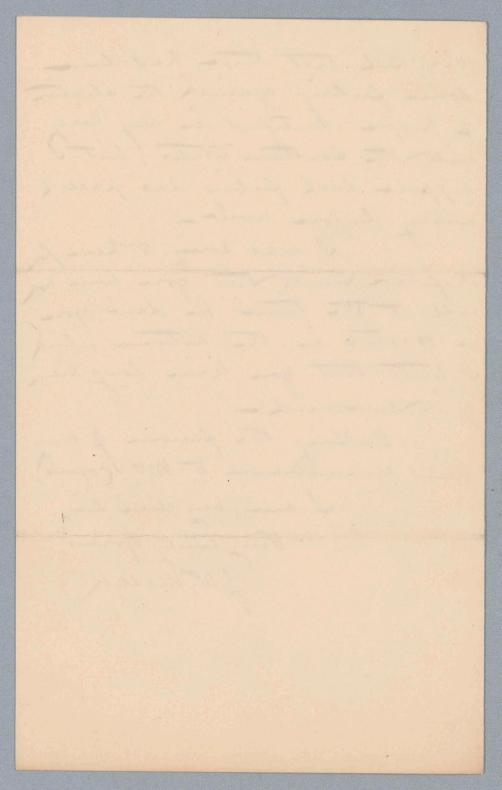
Boston.

Maso.



630 Elin of Virginia Dec: 22. 1880 Professor W. R. Rogus hostore -My chan he May I ask you und what are constances additions and made to the muchush of the Notional academy of Summer? I am aware that it is a body of limited muchus, but white restricted by rule to a particular reput, and much limited by mulus after the manue of social clubs, & do not know. Several years ago Properson Henry huntround the leading to me of convertation in Washington - he introchang The subject - and he.

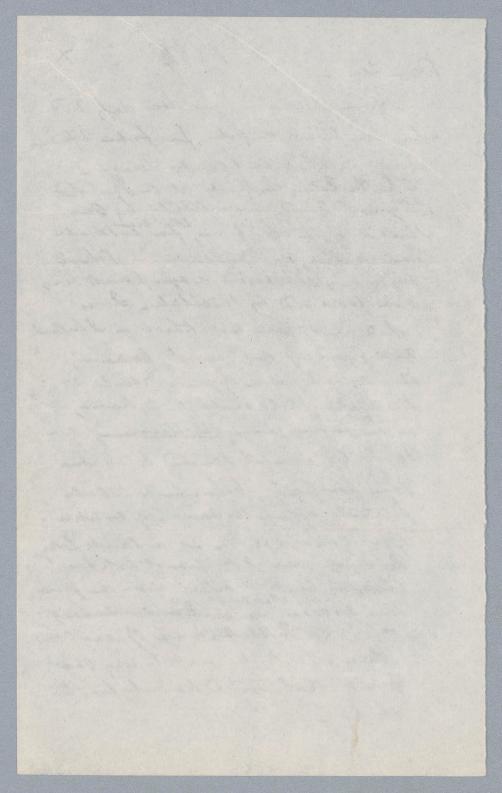
markach that there had have Some fuling against the election of people countrified as any way with the Conthins States, but I suppose such fulny has passed among he for how -I was song to hear for Professor Such. That you have hope well at the time he save you we Boston in the autimme, ling I trust that you have long king gut acounch asking the favour of any Kind unambrance 5 Mr. Rogus! I amo, my chas Lis, Very truly yours, J. W. Malan



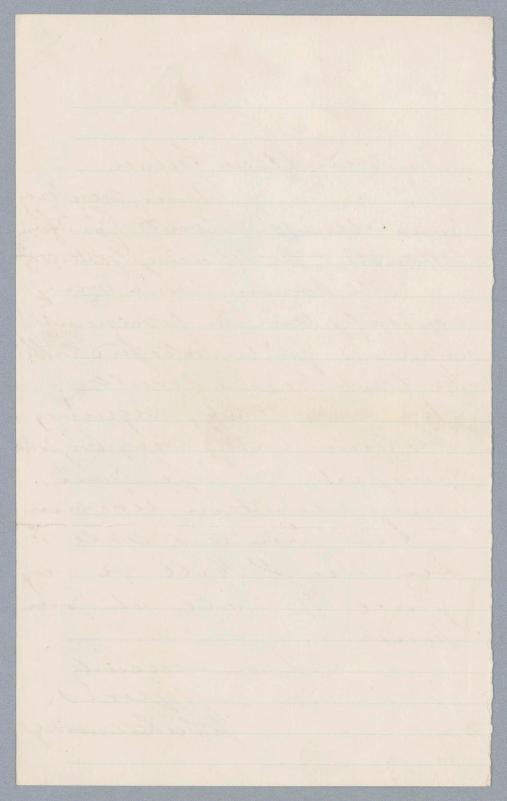
Second Geological Survey of Plennsylvania. J. PETER LESLEY, State Geologist. 1008 CLINTON STREET, PHILADELPHIA. Philadelphia The 24 1880 Prof. Nm. B. Rogers, No 117 Marlborough St. Boston. Thear Sir; I take pleasure in accepting the duty which you appoint me, to perform, in preparing a bugraphical memor of my dear old friend and companion in science, Prof. S. S. Haldeman, and will endeavour to have it ready to read at the meeting of the National Academy in the Spring. Very sincerely yours, M. Lesley. 1.

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1880 ? × Dan Lei you letter , in the day the I have been places on pilo for forthe life Phone 1's Quite & carde aren' The military worthing at the Instantion Sender of the Af "gran, For to Small Comportation, in addition School Infenses, the firm's & symports being hopes that the act shere is I hild and perding well ongraf, the Mr. no, of Degulian Officers Delinter 2-Sta States, with onche in to having as in former grows, the charge and the W. J. Officer delanded to by five the perfor . Thour han shall probabily often the sources of an alund 2 9 Aprend an a 1878. 9 - at a Small Selay. The encer to delet sema the former Mary is no male count to long the for a destand to him I alwhen the Chirly -



autumo 1880. My very alecu Facince Your illness provento you for attending the mating gesterday All howen touch very Amothily and the government appind quite Joster for doith The last years arult. los an lunky begung This year with very bright prospects. I hope your May very toon recommend John your cere detele to her me I thall be very glace to Call at your house Aun senearly John Cours.

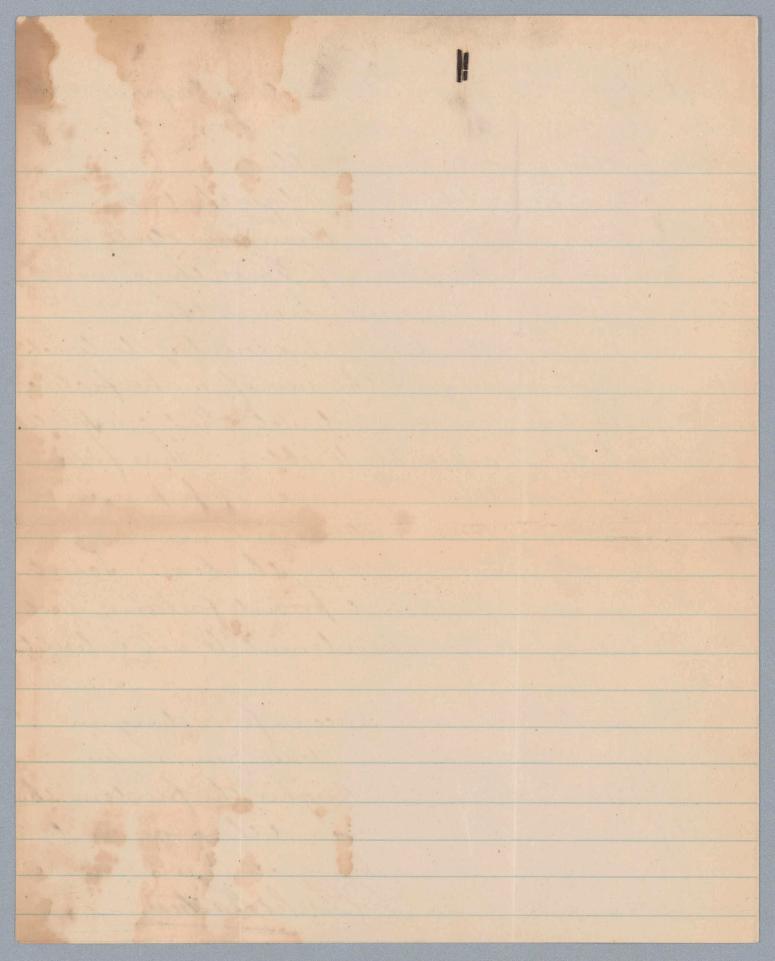


To the Committee of the School of Sechnology ask your attention to the importance of training pupils to observe and work from natural objects and from actual forms in distinction from other drawings or patterns. Many disigners are employed in this country for the decoration of printed fabrics, and the successful ones are usually Fruchmen or those who have worked in French work. ahops, when the student is subjected to a seven course of study in drawing directly from natural flowers and artificial forms, if the natural flowers can not be obtained. The practice in this country for attaining a facility in drawing, is to work too much from copies, which, in a viry limited degree, exercises the qualities required to produce original disigne It seems almost unniccessary to rimind on that to have to draw a flower, the student

must observe the flower itself, both as to form and color. This is so well undiretood in France that no other method would be pirmitted. The world acknowledges that I much taste is preminent and if Amirican designers and to compete with those of Paris, the course of atudy must be as thorough here as there. So far, the attempte in this country to teach the art of disigning for the use of manufactur ere, has had some success, but not that complete ancers, which it is possible to obtain. There failures Sattribute to the total equorance of pupils in re gard to drawing from nature. The attempts made befor the Lowell School of Design was established proved failures, and resulted only in disappointment to all interest. Impat it, the only auccess for a disigner, -an original disigner- is to draw from nature. Natur will give the disigner the pudom, the brantiful curves, the eligance, and the originality to make disigne_ the work which I wish to ac. complish. Charles Masthee

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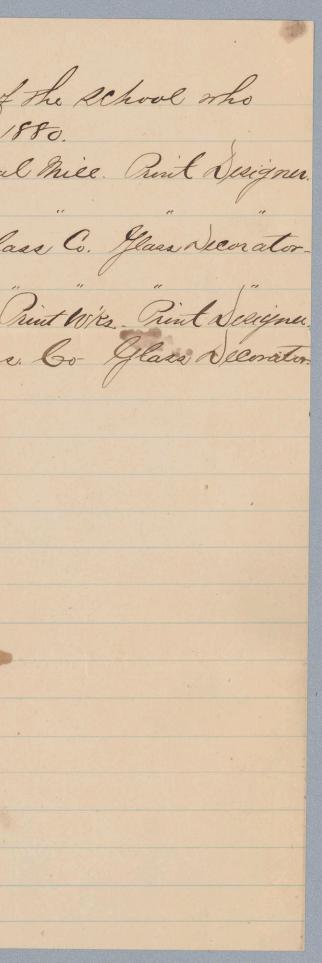
[1880?] Lowell School of Practical Design Report for the years 1878-1879 and 1879-1880. Mr. President: Reviewing the mork of the Jeans 1878-79 and 1879- Fo I can but be pleased to note the advance made by The pupils in the several tranches of design. ing. I had to contend with many difficulties, as the materials for study are very limited and a new supply is very much needed. Notwithstanding These facts, I mas in the last year, able to suppy six designers to fill the demande of manufactures, and in the present year the same number of pupils have obtained situations in various branches I industrial art. The demand for disigners is much great-in than I can at present supply, and

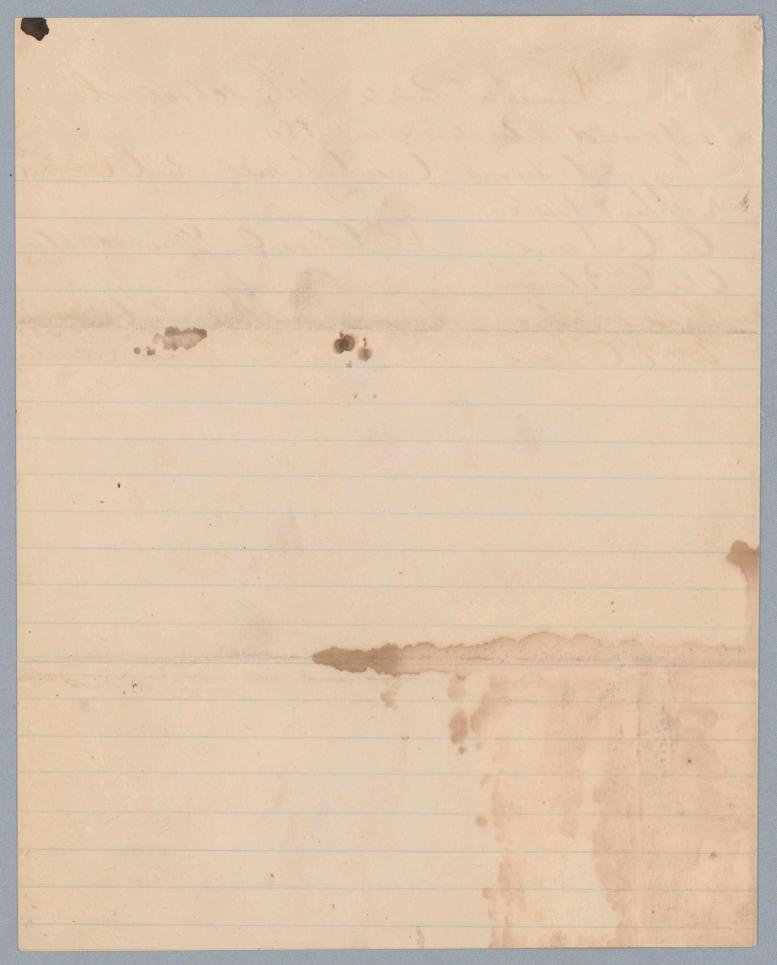
manufacturers in all branches of indus -Mudge, while Mesure Robt-Blackie Hoo of Hyde Park presented the school with trial art, as well as manufacturers of & prints and woolen goods are calking a full supply of morsted mark and upon me for a supply of young demost filling !. Next year the Jacquard loom mile be running, and I look for signers. Thave already furnished de-Rigners for China decoration, lithography, even better, work than has yet been turned out; at the same time the pupile glass decoration and manfacturess of Printing and wraving. If the school mill have afforded Them a mider field me better supplied with materiel, betfor the study of designs for molen Goode, and I intend to instruct in The ter satisfaction Could be given, and the subscription for samples of blande piece designing of brocaded damask satterns is greatly to be desired. Weaving Department. for cotton as well as silk goods and rebbond. The assistant in the maring In the gear 1879- so I have been able. room, who was first instancied in this to work the looms, and the progress school two years ago, and has had a so far has been very encomaging. We situation in The Washington Mill since have noven some cotton and mool goods These under the designer for maring, has had good practice, and having ained mich knowledge of the art, has enabled me and all-mool goods for suitings and The result has been good considering The short time that The looms have been to give a favorable start to The instruct. morked. The supply of mark and molin tion of designing for woolen fabrie's. × Mr. Wm Fisher. filling has been very Knidly given by M. James L. Little and Mr. G. R.

The pupils are very anxious to learn but are to poorly grounded in the first demente of drawing that it dreath retands their progress. For this cause designers for lace Curtains and male papers are liss numerous in the school because Those designers require more knowledge of drawing flowers from hature and ornamental perolle than do The designers in other departments of industrial de-Rign. The School is under obligations to leveral dealers in Carpeta - prints te for Their Courtery in presenting numer ous Ramples of Their Goods, and they have been of quat service to me on instructing the pupils of the School. I hope next year to bring the School to even a higher standard of kerfect. ion Than has yet been accomplished, for greater interest is daily felt in

its melfare, and mith the encouragement its sphere of usefullness I have the honor Mr. President to submit the above report - and remain . Jour abat prot Director and Instructor of Towner School of Cractical Design. Names of Pupils of the School who Mainice Rituations in 1879. Liqui & Bean Thenton M.J. China dicerator-Nom Pierce Myslie Mide Carpet designer Trank loorder " Gro. Albro Oriental Mice Print " Ino. M. Mann house Carpet Co. Carpet ...

Names of Pukile of the School who obtained situations in 1880. Liggi I. Burns. Oriental Mice. Pint Serigna. Suphina Westow. C. L. Lewis N. C. Glass Co. Glass Necorator. Otic C. Putnam. Tred R. Town American hint Witz. Print Schigner, Um V. O'Law. N. G. Glace. Co Glace Decorator. A the second sec Um V. O Leave and the second





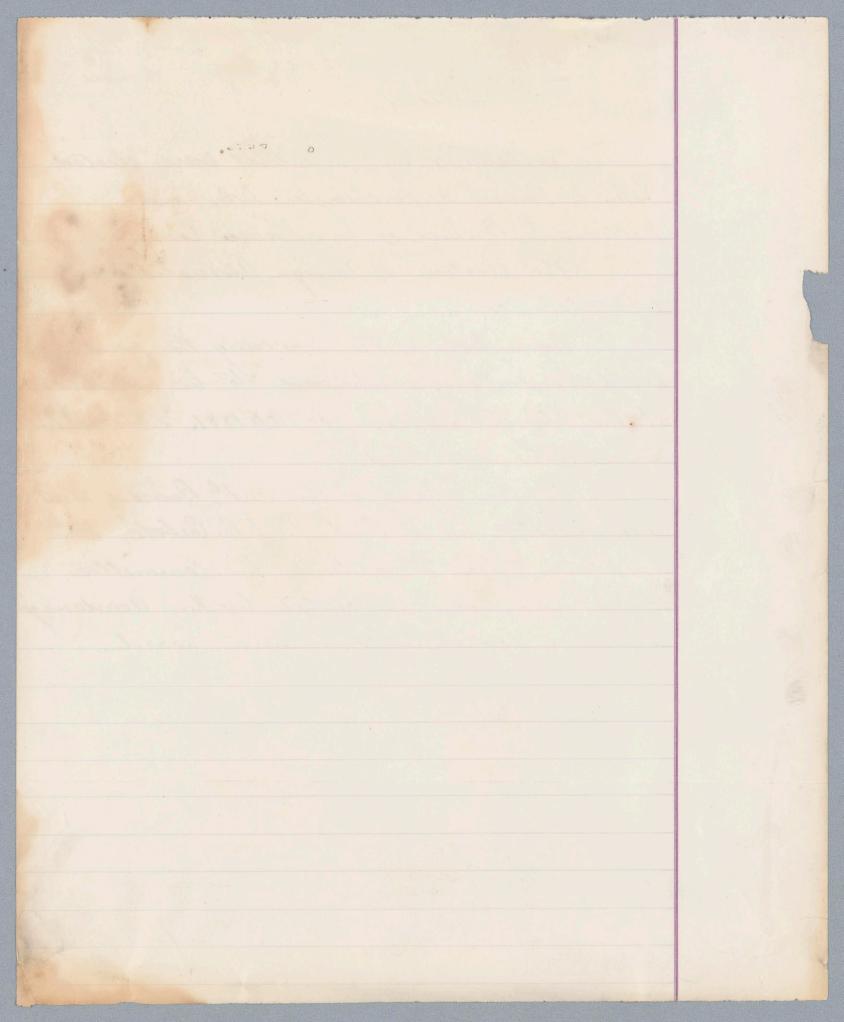
18807] D'Billings letter me that the Report has be for the Math B. of Kealth have expended a large hart of the Money appropriate to them we last year - the this tweshipshones_ Unong them the anguin the not meanly 15 2 Phymein glahff " to the poor neter of yellow form in When aninal, by transfurride Which los lordere of pulse & due muchgatis libety to this Medearia -The remaining find to thenkends have he enhand he build up to equipting the Sazantto's -black and to establish -What the Board most of all desus is a appendig official to enere that carry on the Realfer envertigation allow ge What ong, alter den hope to Becan frech Phone lige on to frecure prevention or and . Corgress had he apprenting yet

The section Port, Kerphen quits 4 varcany + 15 Bfro , Tourly y 12 Lyran for for Amer: Scullip Shines - for the line of the files great mpt, the dats of for g tight ac go to file Luch pena When the occurs (It-places) Jun. 12. 1880 -In confilie tothatt the requirements of march 1878, a het! Board of health Which devents the lecader, to Co operate hat deis Board a to report to Competente the heart Sefer I han In the to the fleater gold to g Rep. a copy the Report of 12 Conn. glt lic and appoint for permit by them mi jour meeting with the h. B. g keelts and also dan constanting of the Same to the President og 12-20. states.

1880 : X On Consulty with Porp wand Mathuch al no Onst- who about her familie hot you down work the the Lohne I feel anthonis to they to success the day that of he hali the is to pap a largety deliferenty shart indefte - the Mate. of the 3 - year, a antite ashtto he the for Pryne Alt Jun Bachiteling & av as 15. Son aponen of tasking attents Ricchful bout the mille as have a ME Shuting the freshing and I I shall enfect to be all to this help you the the part of the

Im ale I lam, his guite It bet hart ghis Static + loge halp he is tent or pursoing it with to be waver johle glaces Orop Larz - his prefered in Chyropophe my fall with g 12 3-2 adressi yemen a La Projet on It dubyet - as carly as popular as 12 Park thinks of making a want & Unef- Mosty -W.B.R. John C. M. Alden

[1880?] 3. Elections. The following new members were elected John W Powell of mashington D. C. and Mellian H. Brewer of hew Haven Coursi The Election of Toreign Ussociales was deferred. By a vote of the headenry the pending hominations were continued to be acted on af The april session of the 1881. a two additioned nominations were made. Ut the request of the hat " Board of Health commutated by its Pres - D. J. C. Cabele the Academy noted to continue the committee which had been appointed by the ladency to and & cooperate with hand hoard,



Teientific Sellion held in how York Cely nov: 16 to 19 ind. Luca Come The second deffion of the Lear was convened at Communice College new Jork City nous 16, and 1880 as directed by the Council at The april belliow. The meetings were devoted to Scientific papers & disculsions only, detere The dellion was attended by the following members: Marsh (O.C.) Vice-President, and Meter again, Build, Buller, Barnard (F. A.P.) Chandler, Coffin, Cope, Drahen (H.) Drober (D.W.) Sibbs, Gould, Hace 2) Hilgard (D.E.) Hunt, Sampley, Mayer, Morse, Morton, Newberry, Newlow, H.A., Polers, Pickering, Rood, Rutherfurd, Scudder, Sillinan, Tronting (W. A), France, and young. mable to attend an account of Muess the tice Brest occupied the chairs. Twenty Eight paper Spead & disculled at this session utreas follows

O.C. un Prove to and had a factory Band Current 1 P. Conster, angen and - the story and Sills formed me) Hill, und [El Hunt, Sampley March in leater haven hadre the Plan 1. Riving 14 A Patter for the Studies Station Trank E. Fall

6 ANNUAL REPORT OF THE NATIONAL ACADEMY C

The members of the National Board of Health were to be resent and to take part in the scientific proceedings. After a short address by the president of the academy the following papers were read and discussed :

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President tosep,

Brok Sunow hewcombe was lead be

TITLES OF PAPERS READ.

Draper, H.-On Photographing Spectra of the Stars.

Young, C. A.—Spectroscopic Notes. Woodward, J. J.—Original Researches Reported in the Second Medical Volume of the Medical and Surgical History of the War of the Rebellion.

Dalton, J. C .-- Some Observations on the Structure of the Human Brain. t, A .- Some Remarks on a New Map of the Catskill Mountains and on the Topographical relations of that mountain group to the adjacent r ions of the Appalachian System.

Aler of ler, S .- Brief Comments on the Nebular Hypothesis of La Place. Hall, J.-On some new and remarkable forms of Crinoid e from the lower Hell berg Formation.

Hall, : -Notes on the Lycopæditis Veneuxemi and allied for

Leomis E.-Mean Pressure of the Atmosphere over the United different Seasons of the Year. (Read by the home secretary.)

He.], A.—The Satellites of Mars in 1879. (Read by the home APV.) Alexander, S .- Questions as to a very Direct and Simple Method of Ascertaining the Ellipticity of the Terrestrial Spheroid.

Sessions of The national Academy. Two bestions of the Academy were held during The fear 1880, of which the earlier or regular Unual meeting weed convened m Mathugo To to 23 2 the becoud denoted entirely april Secentific fulgeets was held at Columbia Cole; he new forte november 16 to melusue Us the proceeding of the acadency at the seations have former of These alread heard her same detail in descretied Muy Repor 1880, it well be unnessary bruleel May 1 full particulars of them the the que bresent report. 39 members were present at This meeting, 26 papers were presented of which fine there contributed by persous heachers of The acendency uco greep

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Dr Ellott Cours

Devering + April 1881.

AMENDMENTS TO CONSTITUTION AND RULES.

The pending amendment to section 5, article IV, of t¹ rstitution was adopted.

A substitute for amendments offered by Messrs. Hilg: siz, and Alexander, to section 5, article IV, was recommended oy the council, considered, amended, and adopted in committee of the whole, to

be voted on at the next stated session. the council being age The pending amendment to section 2, article V, of the constitution all was adopted.

Rules XI and XIII were amended so as to read:

The printing of the academy shall be under the charge of a Committee of Publica-tion, to consist of the home secretary and four oth r members to be named by the presi-dent with the advice and consent of the council. All papers presented to the academy and intended for publication shall be referred, at the meeting at which they are read, to a committee of members competent to judge whether the paper is worthy of publication. Such committee shall report to the com-mittee on publication as early as practicable, and not later than the next stated session.

The following new rule was adopted:

Ballots for election of members may be sent by sealing them up in a blank envelope, and inclosing this in another, across the back of which is written the name of the sender, and which is addressed to the home secretary; such envelopes will be opened only by the tellers.

The home secretary was instructed by the council to call attention to the new rule for voting on candidates for membership, to prepare such

Jection 5, article IV, exclassite in the amended form, adopted the committee of the whole april 1880 the Cloudency reader of the whole april 1880 the Cloudency reader of the to be to her on by

SECTION 5, ARTICLE IV.

The words of the original draft struck out by the Council are enclosed in brackets; those inserted are in italics.

Elections for membership shall be held in the following manner: Each member may inscribe on a ballot not more than five [the] names of nominees selected from the list [not exceeding five in number.] Absent members may send such ballots to the Home Secretary. From the seven names receiving the highest number of votes in this [the] preference-ballot the members present may proceed to elect new members in the following manner: At each ballot each member present may vote for not exceeding three persons, and the person [name] receiving the highest number of votes shall be declared elected : Provided, That he receive two-thirds of the votes cast and that his [the] name appear on not less than twenty ballots: And provided further, That the number of members of the Academy be not already one hundred or over, in which case to be declared elected he must receive four fifths of the votes cast, [to be declared elected,] and his name must appear on at least twenty-five ballots.

Should several candidates have the same minimum number of votes [a selection from them] on the preference list the re-quisite number for completing the list shall be selected from them by a two-thirds vote of [of seven may be made by ballot by] the members present.

Elections of members shall be held only at the regular stated

session of each year held in Washington, and not more than five members shall be elected at *that* [any one] session. Before and during elections a discussion of the merits of

nominees will be in order.

The election of members may be suspended at any time by a majority vote of the members present.

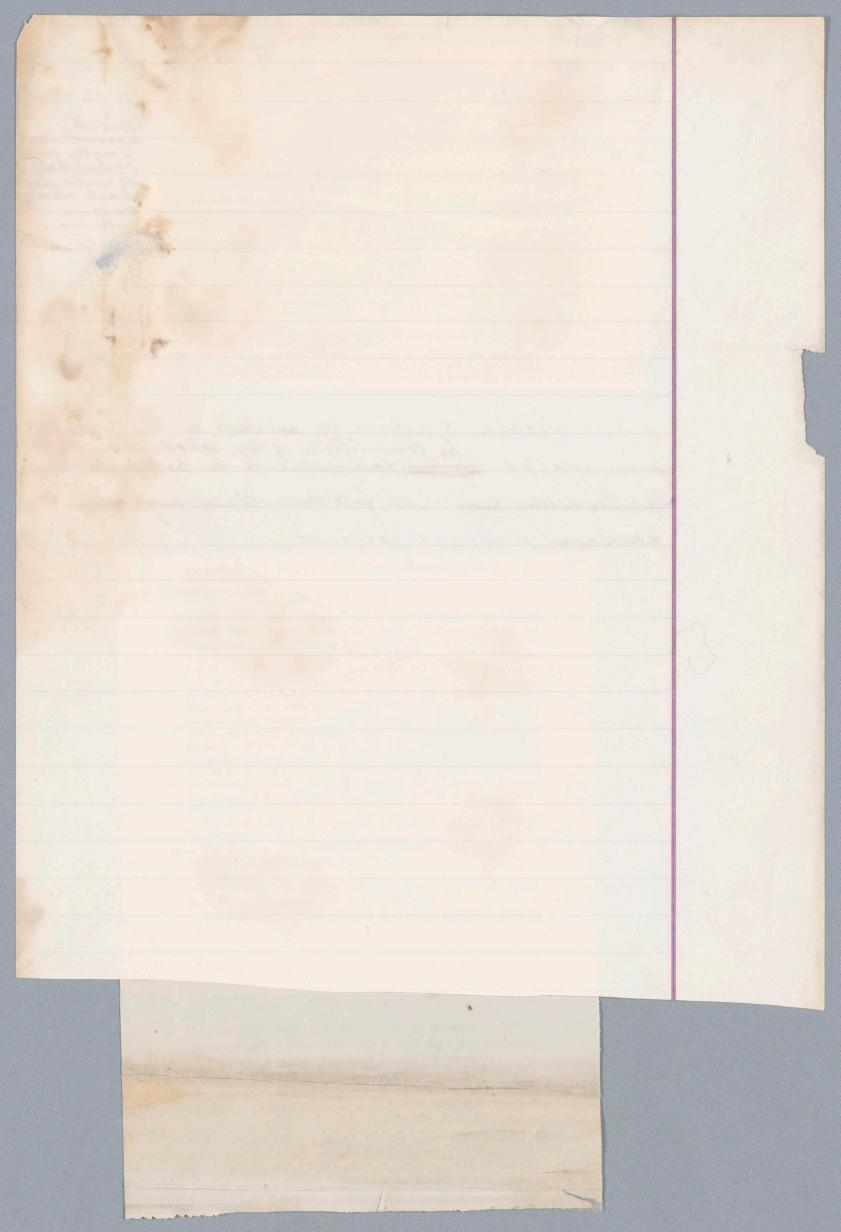
This proposed amendment restricts the election to the seven names receiving the highest number of votes in the preferenceballot; requires not less than twenty ballots to elect if the number of the Academy shall not thereby be increased above one hundred, and not less than twenty-five ballots if the number shall be increased above one hundred. Five only can be elected at each annual session.

The adoption of the above requires a verbal change in Section 4, Article V, viz., to insert after the words "to be voted at the next stated session" the words "held in Washington," thus restricting election of members to the annual stated session. This change is also submitted by the Council to the votes of ronsod menuoliele to make such verhal changes as would more clearly express the sense intended .

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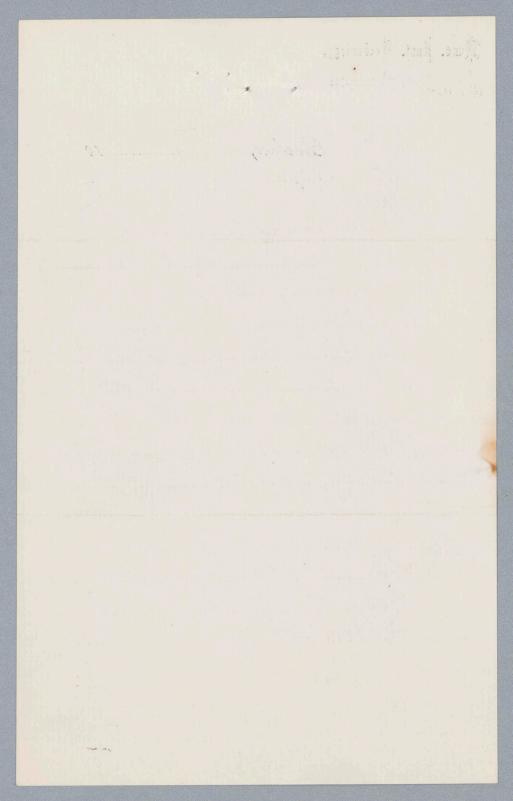
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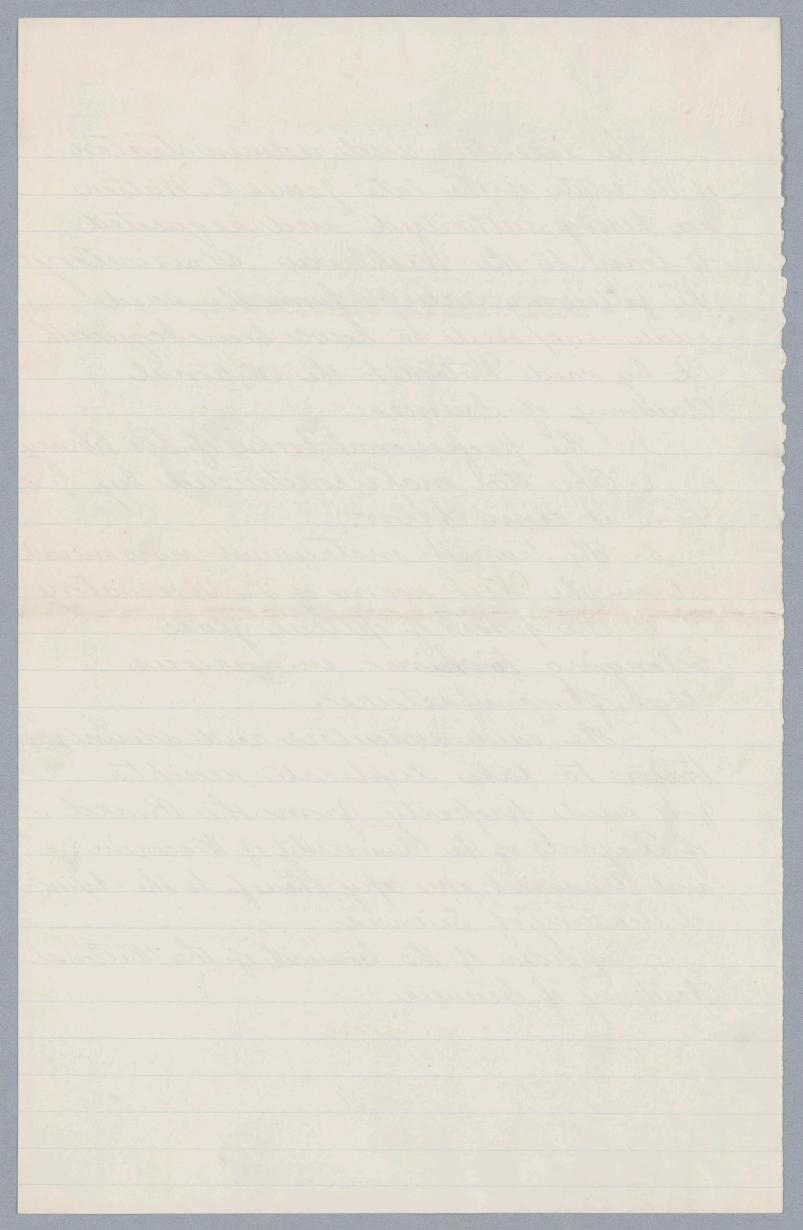
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The executors and administrators of the estate of the late James le. Watson are hereby authorized and requested to loan to the Washburn Observatory the following articles from the said estate supposed to have been bequeathed by said Watson to the National Academy of Sciences, 1. The professional books of his library. 2. She star maps constructed by him at Ann Arbor. 3. The transit instrument now mount ed in the West room of the Observatory 4. She pieces of optical glass belonging to kim in various stages of manufacture. The said executors and adminis trators to take duplicate receipts for said property from the Board of Regents of the University of Wieconsin and transmit one copy thereof to the National Academy of Sciences. By order of the bouncil of the National Academy of Sciences.



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