E. L. CORTHELL, CIVIL ENGINEER,
205 LA SALLE STREET, CHICAGO, ILLS.
71 BROADWAY, NEW YORK.

Chicago, October 15th. 1890.

Prof. W.R. Harper,

Yale College, New Haven, Conn.

My Dear-Sir:-

I have yours of October 8th. in reference to the American Institute of Sacred Literature. I would be very glad to assist in such a worthy object but I cannot do so to any great extent just now. I send you enclosed my check for \$100 which I hope will be of some little service.

We had our first meeting to-day of the Committee on Buildings & Grounds of the University and after making a permanent organization with Mr. Hinckley as Chairman and Dr. Goodspeed as Secretary we adjourned to the call of the Chairman.it being understood, however, that we could do nothing further until the plan for the University is brought out, which it is expected you will give us within a few days. I think it is quite important that there should be as little delay as possible in bringing your plan before the Board of Trustees :

I leave here next Tuesday for Mexico to be gone three weeks and fear that I will be away when you come, which I greatly regret.

Yours truly.

Chicago, October 15th. 1890.

Prof. W.R. Harper,

tale Unilege, New Haven, Comm.

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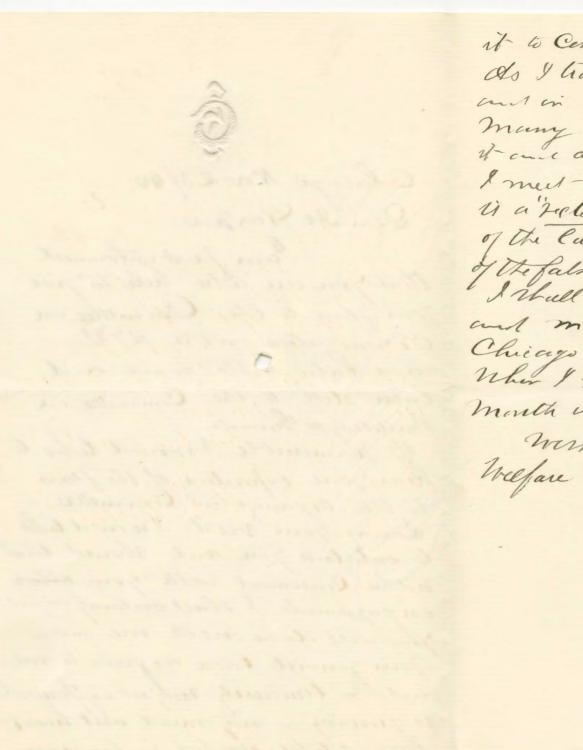
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6 Chicago Nov 23/90 Dear De Harper. that you are to be tule to give your Han to The Committee on Organization on The 27 20 for later a The Board and Cutic still to the Committee on Buildings Founds. If permisible I would like to to the organization formittee -During your visit I would like to entistain you and showed that hot he Consonant with you other en gugements I shall certainly espect Ja- mil dine milte me once-Jour ginnal i dea as givin ti me and the University nebisct in feneral I growing in my mind able theart-I want to be useful in bringing



it to Complete realization as I have in this Country and in mixice even I meet many Jeffe who have heard of it and can cuterented in it - hit 1 meet - many who think if -U a Fetarian" Schove - the minds of the latter & al-once disabure of the false impression -I thall remain in the Country and mat of the time in Chicago un tel Jany 15th When I thall be gove another mouth in Muxico. wishing heartily your Welfare Sam Jours by Les

E. L. CORTHELL,

CIVIL ENGINEER.

205 LA SALLE STREET, CHICAGO, ILLS. 7I BROADWAY, NEW YORK.

Dictated by

Varthalle

May 20, 1891.

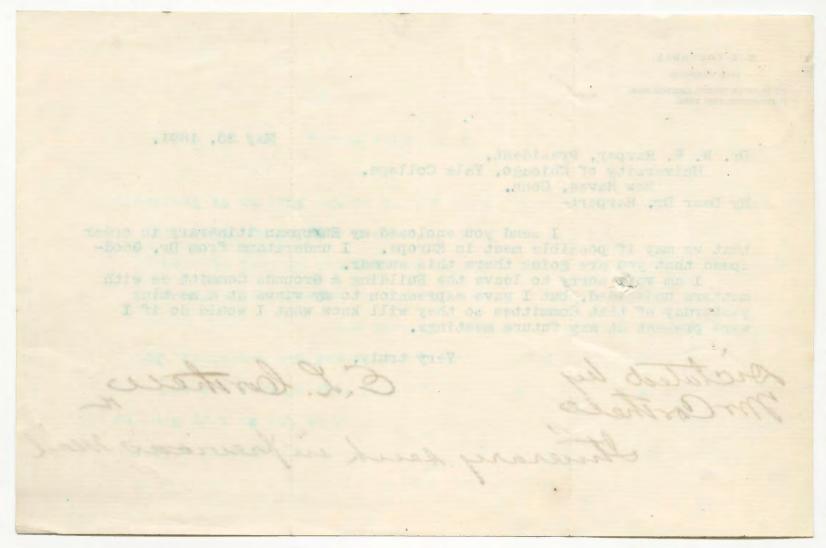
Dr. W. R. Harper, President, University of Chicago, Yale College, New Haven, Conn. My Dear Dr. Harper:-

I send you enclosed my European itinerary in order that we may if possible meet in Europe. I understand from Dr. Goodspeed that you are going there this summer.

I am very sorry to leave the Building & Grounds Committ ee with matters undecided, but, I gave expression to my views at a meeting yesterday of that Committee so they will know what I would do if I were present at any future meetings.

Very truly, L. Conthece

Strierary seuch in previans mail



E. L. CORTHELL, CIVIL ENGINEER,
205 LA SALLE STREET, CHICAGO, ILLS.
71 BROADWAY, NEW YORK.

May 13, 1891.

C. Cos Full

Dr. W. R. Harper, President, University of Chicago, Yale College, New Haven, Conn.

Dear Sir:-

I was so gratified to see by the newspapers received in Mexico that arrangements had been perfected for 4 blocks of land for the University, that I telegraphed Dr. Goodspeed heartily approving the action, also the giving of our plans to some architects to furnish sketches.

We will be able on Saturday, at the meeting of the Building & Grounds Committee, to determine something definite in regard to the work.

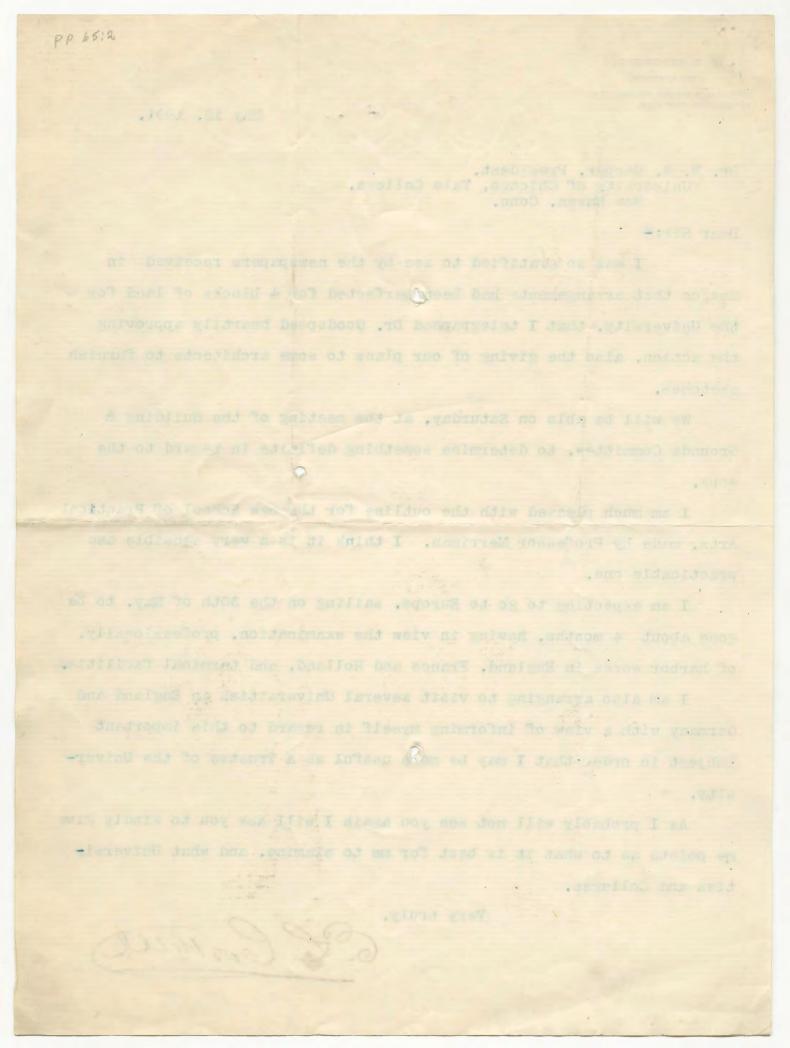
I am much pleased with the outline for the new School of Practical Arts, made by Professor Merriman. I think it is a very sensible and practicable one.

I am expecting to go to Europe, sailing on the 30th of May, to be gone about 4 months, having in view the examination, professionally, of harbor works in England, France and Holland, and terminal facilities.

I am also arranging to visit several Universities in England and Germany with a view of informing myself in regard to this important subject in order that I may be more useful as a Trustee of the University.

As I probably will not see you again I will ask you to kindly give me points as to what it is best for me to examine, and what Universities and Colleges.

Very truly,



E. L. CORTHELL, CIVIL ENGINEER, 205 LA SALLE STREET, CHICAGO, ILLA

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71 BROADWAY, NEW YORK.

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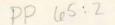
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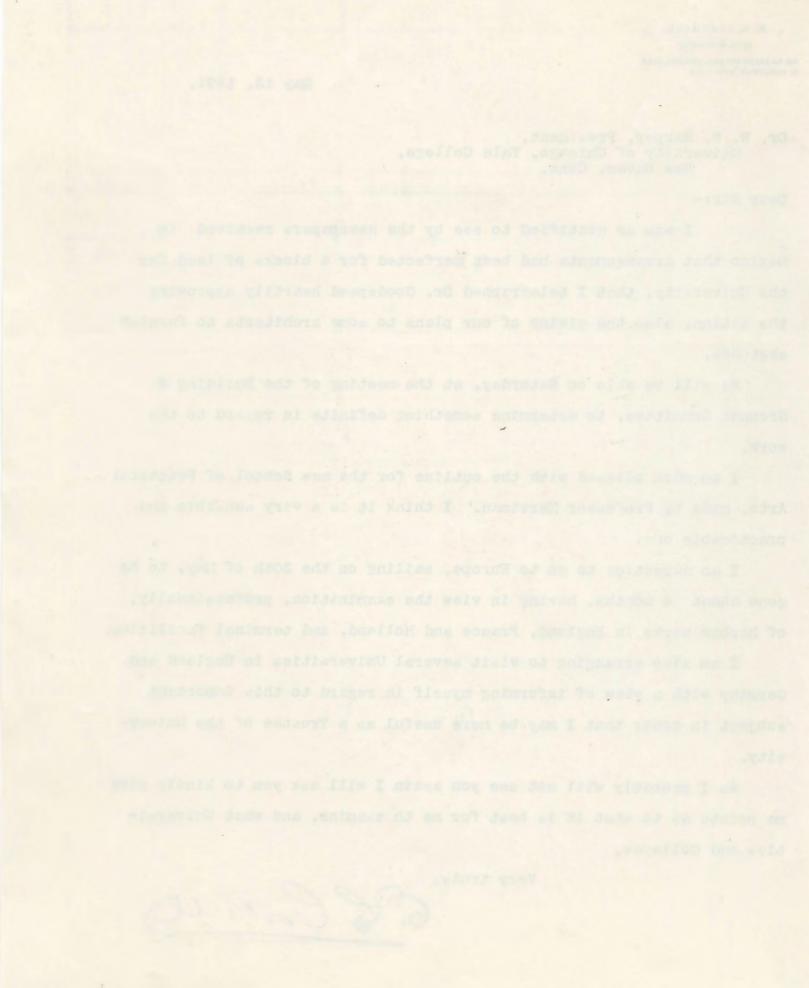
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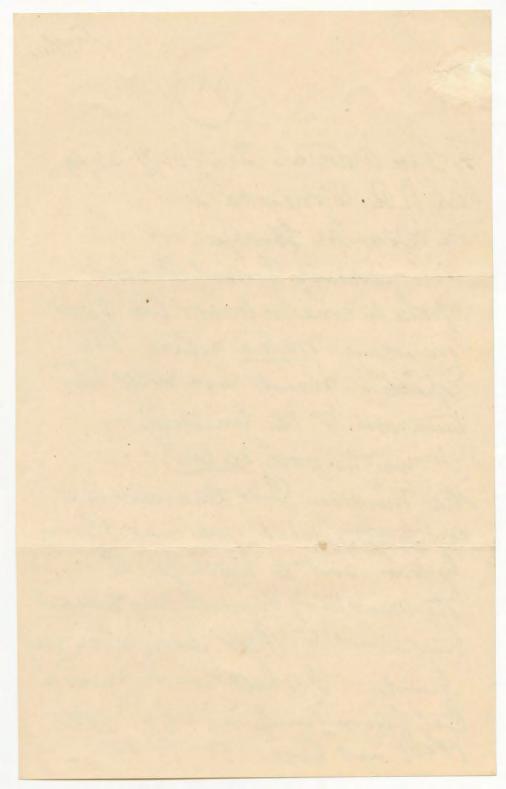
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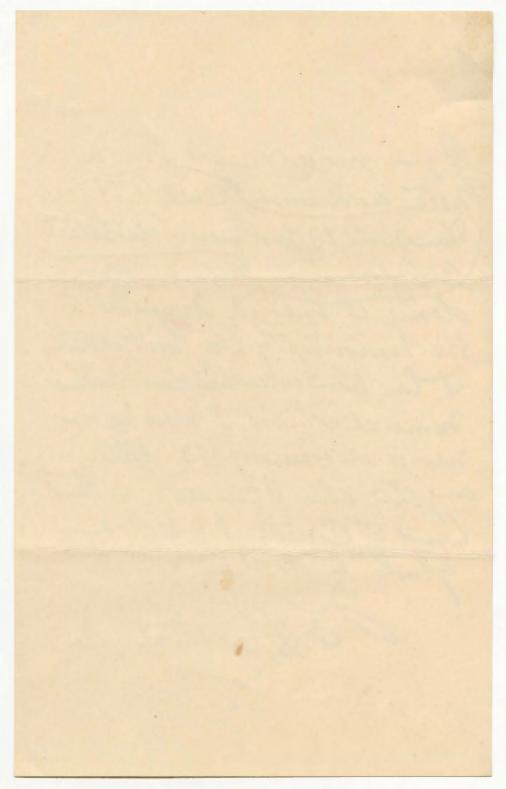
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Emain in The Water and mostly in Challes for second months. Out the end stant healters our frem lemmini of] / and and

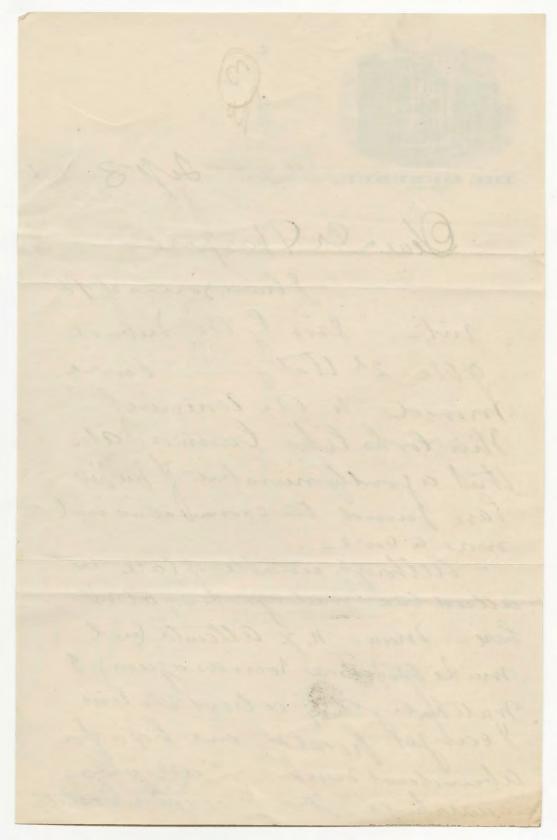
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97 - would mile mea note address Care J. N. Hampon. 13 Fan Juan de Selian City mexico, Mating Jour desire to two it presented to The University the Surtafic I has been or crhibetin in This minual Shibit I may be ofunice in recuring it - Althere's anythis else Cando I in That land of Curios I weeke glad to do it - A



B. THE GENESEE, Buffalo, Jup 3 18.92 Char Ir Warper Shave your of 1t virt- love for Libane of the 2d that I have moved to the Univint-This looks like busmin also that a good frum beo I pupils Vare Jourid the examination and more to come_ although unable flate to attend the meetings being abouthere - man - n. 7. altenta (al made Tesame louras again) I multhing this about the lini -I canget poed of and hope for abundant success m'all ver undertakings - 7 m Jo. L. Cortheet



TAMPICO ROUTE. Cortheg Compañia del Ferrocarril de Monterey al Golfo Mexicano.

W. H.H. Lingard, Auditor Departamento del Contador.

Monterey México.

Dr. m. D. Harper Dresident University of Chrisago Chicago Mes

My Dear Di _

In adams of michigan Universit has av Muro Lando lo get up a Cours of between mixice - its Cumilition - Cartoms. resources 2000-De has ansented to do this and there regerted to him last might, that they would be admirably adapted to on university yelens a lectures this minter at one of the large Chicago Centers_ no man is better able to do this. In heltertens been in his frient poiton 15 years through Varions administrations - he speaks Manish puffelt, as well as swad other language he is a good will and an eary talker. Se won called is washingting Im Plaine to anost in the Dan american Congress_ His defortment is the whole Mothun ral of He will write zon Inding an outline of his lecture. Ale will write zon Inding an outline of his lecture. a copy of a letter from M Mattias Romano. The Jormany

TAMPICO ROUTE. Junia del Forwearril de Monterey al Solfe Maricano. Departamento del Contador Compand . Monterey Hieror gr. m. a. Hanper depending Chings my Dear Sti _ Mr alluns of mithingun lanousel have for some time attempted) for opening our Cound formal but muro bando to jut up a Course & Colorison musice . 16 Curreter Ed Cause Couloud Mound Mound He for announted to de this and Share repeated to term last night that they now beadmines adopted to on annue glun botuno this minter at oug the large Chicago Cented _ no man is better at & to do this . In hettertin been in this present providing 15 grand through Varian to served other tanginger he is a good serve in an carry table. Se non called a marking to His defortenent is the matte mathem rail ly the Reputtie he is a Ol as May wand Heckent He will would you making an outlast of this ladards a Copy of a latter from me matting Romain the formant

TAMPICO ROUTE. rania del Ferrocarril de Monterey al Golfo Mexicano. Departamento del Contador. lingard, Auditor Honterey Minic. Jeans able merce an minister as Washington me now Jucy J Freamy. also Copy of madam letter -Shoppen can accure him for our Hold Harry ha nure bands to " get up a Course & lectures In some the Counterest laws - Counterest terror He man is better all to do this ; In helle 1_ the wife to will you dreading an outfind of his fact of

TAMPICO ROUTE. Comparis del Deriocarrit de Manterey al Galfa Maricano. Departamento del Contador. Monterey Miria Jours at le mane an minister as washington in now day I deamy. also all of m allem letter . that you can accure this for our Human Course 6 Allasm les stat and

E. L. CORTHELL, civil engineer,

"THE TEMPLE," CHICAGO, ILLS. 71 BROADWAY, NEW YORK.

Contrele

Mexico, Oct. 4th, 1892.

Wm. R. Harper, D. D.,

President of the University of Chicago,

Chicago, 111 inois.

My Dear Sir:-

I have your letter and had already taken steps to ascertain if the Government would be willing to send the Meteorite to Chicago for Exhibition, and later presentation to the University. I am sorry to say that there are, what now appear to be insuperable obstacles. There is a law passed by Congress, prohibiting sending out of the country anything of this kind; and, second, it is the purpose of some parties, that now have it in charge, to bring it to the City of Mexico for exhibition, and arrangements are now being made to haul it here.

I would advise to let the matter rest for the present. Something favorable may occur later. 1 am ready to lend my assistance in every way possible, either now or in the future. Yours very truly,

C. Contatt

AND DESCRIPTION OF THE OWNER, MANAGEMENT, MANAGEMENT,

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CIVIL ENGINEER,

"THE TEMPLE," CHICAGO, ILLS. 71 BROADWAY, NEW YORK.

now acheep

Chicago, Ill. Nov. 29th, 1892.

Dr. Wm. R. Harper,

President, Chicago University,

City.

My Dear Sir:-

I spoke to you last Saturday about the selection of three Professors of the University to become members of the Committee on the Aerial Navigation Conference to be held in the first of August next year at the same time that the International Engineering Congress is to be 1d.

Mr. O. Chanute, whom you know as one of the most prominent and well known Engineers in this country and who has given a great deal of attention to the subject, will be the chairman of the Committee. Two other Engineers, one of whom is myself, will be on the Committee, also Professor Zahm of Notre DameUniversity, South Bend, Indiana. The subject is really of more importance than would at first sight appear. The programme for this Congress has been very carefully drawn up and we propose to make it a scientific and useful discussion of a coming subject, and I can assure you that any of your Professors will be glad of being on this Committee. They will be in good company and not in a company of "Cranks". Obleage, III. Nev. 29th, 1892.

Dr. Wn. R. Burylar,

President, Chicago Universit

ty Dean Sin: +

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(W. R. H., 2,)

Professor Zahm will be in this city on Thursday and we hope to have the first meeting of the Committee at that time and I will be glad to have you at once select and obtain the consent of three of your professors. Please let me know at once which you can do by telephone. My number is "Main 1445" and I probably will be able then to state at what hour the meeting of the Committee will be held. I would like to know from you at what hour the three professors could make it convenient to attend.

Yours truly,

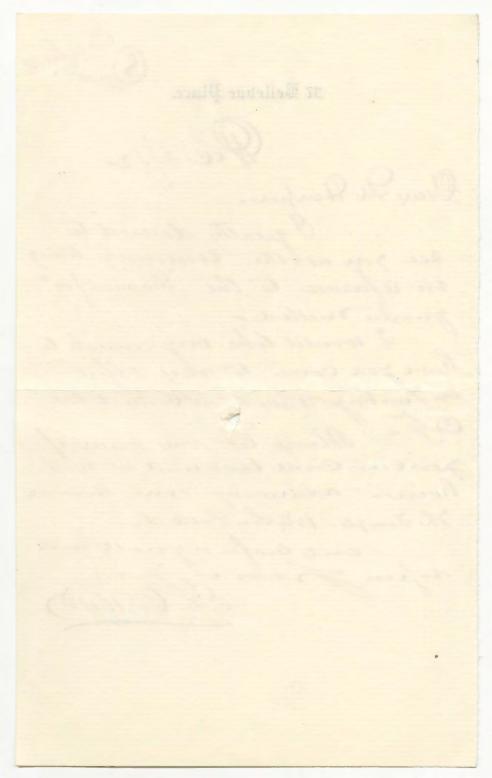
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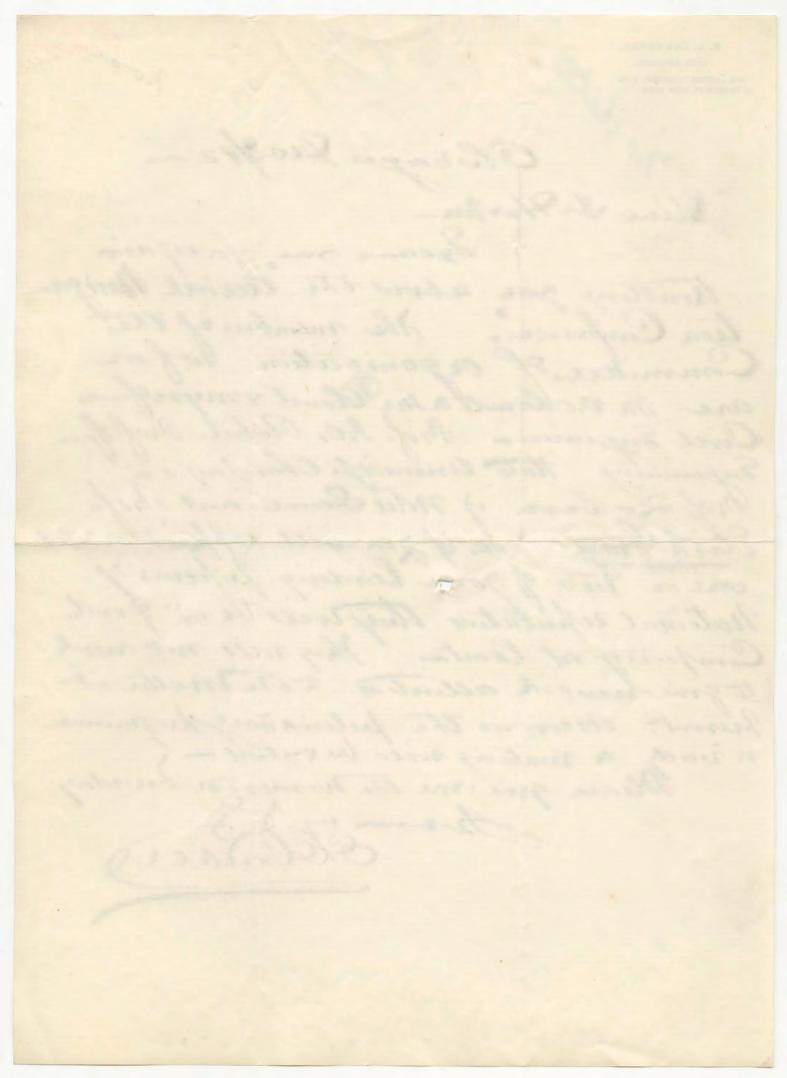
(W. R. R. . 8.)

37 Bellevne Place.

Aec 3/12 Dear Dr Harper -Dee you at the university liday in refunce to the Giamond foe" quarter milled -I would like very much to have you come to my office on Fur day when you come to the City - Please let - me know if Jan can come there and as what hour - addressing me Roomgoz The Jemple - 184 La Palle st_ upon the Confor a que of ann C.L. Costheld



wohrthue E. L. CORTHELL, CIVIL ENGINEER. "THE TEMPLE," CHICAGO, ILLS. 71 BROADWAY, NEW YORK. Nº Chienge Geogram Recar Si Hurten_ Execus may for regain troubling you about the arrivel Marign. Committee of organization to far are In O, chamte & mr Cloud & myrelf-Civil Engeniens - Moof. J.O. Baker Drof of Ingenilding Hate University Champargin mof Ranne of Holy Came - and Thof. High gran to. if zon will apport a selet cours on two of your leading professors of notemal reputation they well be in food Comparing at least They will not med to give much allenten to the maller at hunt as some the factionairan for pranne The water a multing will be sullie - Lunday handlebaci



E. L. CORTHELL,

CIVIL ENGINEER,

"THE TEMPLE," CHICAGO, ILLS. 71 BROADWAY, NEW YORK.

Corthele

Chicago, Ill. Dec. 6th, 1892.

Dr. Wm. R. Harper, D. D.,

President, University of Chicago,

City.

My Dear Sir: -

I wish to unge upon your attention once more the importance of establishing at an early day in connection with the University, a great school, or schools, of practical Engineering, that will combine the various branches of this profession, namely, Civil, Machanical, Mining with Metallurgical, and Electrical Engineering.

A quarter of a century of active engineering work on railroads, harbors, levees, bridges and many related constructions, in which time there have been under my change works that have cost nearly \$100,000,000, enables me to speak from an intimate knowledge not only of the work of the Engineering profession, but of the growth of Engineering from a trade to a profession during this quarter of a century.

In this time I have, as you must know, had intimate nelations and close contact with many Engineers of all classes, grades and kinds. I can speak therefore with definiteness and decision when I give the opinion that we need in this part of the Whiteago, 111, Dec. 6th, 1892.

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Letter to urget throw your approximation oned mare the importance of controlitions at an addit day in addression with the thrive mist, a proved school, or contolic, of pression fingineering, the still complete the various principles of side profession, advisit, oudil, imported, thinks with metallargidi, and Wiestrich. Buginefrict.

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In this time I have, so you saist know, has inclinate relations and close contact with many paginessis of all also have some and blocks, if can weak instrated as with definitions in the some for the second that we avoid to this same of a

(Wm. R. H., 2,)

United States a school of Engineering, established on a broad basis and fully equipped with everything that modern ideas of such schools require.

When Engineering a quarter of a century ago was simply a trade both in this country and in England, a young man supplied meagrely with an education, was apprenticed as a mechaniq or a blacksmith would be, but not only in this country but abroad, the idea now prevails that an Engineer should be educated and with more onlture. In other words, he who builds and makes should be better fitted than before for his work, with better mental training. I am satisfied that the prevailing ideas and the schools of the day are not broad enough for the future or for the next quarter of a century. We need in this profession men of better and broader education, and of a higher culture than the schools of the day generally send to us.

There is no part of this country where a great Engineering schools embracing all branches of Engineering, is needed so much as in, or near, Ohleago, and I know of no University which in breadth and thoroughness of Education is better fitted to take charge of such a school. We might call it an Engineering School of higher Education, and where more than the rudiments of an education shall be taught before a young man takes up the practical studies of his profession.

(10 . H. H. . 2.)

United States a seluci of Regimering, established on a broad basis and Inlis equipted fith everything that modern ideas of each sciencia pagaira.

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(Wm. R. H, 3,)

We should combine the breadth and depth, and I may say, the phoroughnass of a German Technical education with that of a practical education now taught in our best Engineering and Tachnological schools.

The same reasons that now make a demand for young men educated in our best Englicering schools and lead us to reject applieations for position from young men not thus educated, lead us to encourage and to urge the adoption of a plan that would give to young men who are preparing for the Engineering profession a still broader and better preliminary education, before they undertake the practical part of their work.

Just at present there is a special reason for arranging for such a school of Engineering and formulating the plans for it. We will certainly have in this city next year thousands of Civil, Mechanical, Mining and Electrical Engineers not only from the various parts of our own country, but from all foreign countries as well. We are arranging with every prospect of abundant success a very important International Engineering Congress during the Exposition. We are also effering the hospitalities of our recomes not only in the city but at the Exposition to all of these visiting Engineers. Many learned men of the Engineering profession and men of large experience and great ability will be with us at that time. If we could have upon our walls the plans of our buildings and upon our tables the programmes of our Engineering

(WM. R. R. S. J.

We show any in the breadth and dopth, end in y ay, the biormegine is of a betwee Teanitedi education with that of a prestoric canencian any taught in pur boot Rectoesting and Teanbolegiest schoolet.

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dent at proved there is a special second for memory ing for such a school of Haginsering and Dermithetig als plant in the We will containly have in this clay now yoar timutules of divit, Aleokosteri, Maring and Aleoteteri, Antinéter act only was the various fatte of our our searcing, and from all from all foreign and rise various fatte of our our searcing, and from all freedmann the range. We has erreiging with every prospect of anomal bebeens a very important interactions for investing trougod of abundant the Respection. We are also off-stag the markin-tenerse and statistic for many in the star of a the freedmarker to all of the visiting for many in the star of a the freedmarker to all of the statistics for many. In the outplies of the markitalities of the statistic for many in the outplies of the freedomarker to all of the statistics for many. In the outplies also off-stag the freedomarker to all of the the outplies and the star of the Regeoting protected of the the outplies and the form and great ability will be allow of the the outplies and the outplies and great ability will be allow to all the the outplies and the the outplies and the star of the outplies and outplies and the outplies and great ability will be allow to be the the outplies and the outplies and great ability will be allow to allow the the outplies and the outplies and great ability will be allow to be the outplies and the outplies and great ability will be allow to be allowed and the start of the start of the plane of an

(Wm. R. H., 2,)

schools. There never would be a better opportunity to bring this important subject to the attation of the Engineering profession.

Hoping this matter in all its beendth and imprtance may be brought to the attention of the very liberal patrons of this University at an early day in order that something practical and commensurate with the coonditions may result, I am,

Yours very traly,

6. Costallo

(Wm. R. H., S.)

bahoolo. Hoors never would be a better explorantly to bring this inportons sampest to the absarbon of the Englementing profession Mapting this matter in AM if a breakles and inputanes are be proved to the situmitien of the way's impartic and inputanes are materially at all terministic of the order and the filles practical and expressive with the sounditions may result, i an.

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E. L. CORTHELL, CIVIL ENGINEER, "THE TEMPLE," CHICAGO, ILLS. 71 EROADWAY, NEW YORK.

Chicago, Ill. Dec. 7th, 1892.

Dr. T. W. Goodspeed,

Sec., University of Chicago,

Room 1212, Chamber of Commerce Bldg.,

City.

Dear Sir:-

Knowing that the progress of the work on our buildings depends largely upon the delivery of stone, I made an examination this morning of the stone yard. I have the following to report:

There are on the Snell Building 41 stone cutters: on Kelly and Beecher, 41: on Kent, 18: on Walker, 27, and there are 9 splitters, making a total of 136 stone cutters that were working on our Buildings this morning by actual count.

In addition there are 16 handlers and 3 hand rubbers: there is one rubbing bed works which works night and day for our Buildings, on which there are 3 men.

There are 3 gangs of stone saws, working nights, days and Sundays, with 3 men on the day shift and 2 men on the night shift. These gangs of saws run about 35 cuts at a time in all.

The planer is working on our work night and day and Sunday, with 3 men on the day shift and 2 men on the night shift.

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distange, 111. Dec. 76h, 1998;

Designation W. T. . W.

Sec., University of Chicago,

Room 1313, Chamber of Commerce Bidg.,

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T. W. G., 2,)

There are 7 teams hauling stone regularly to the University Buildings.

On Monday next there will be shifted from the Snell Building to the Kelly and Beecher, 15 stone cutters, as Snell is nearly completed.

There are in the yard about 10 men closing up the work on the Auditorium Hotel Annex, 4 of whom will on Monday next be put on the University work.

I do not see how Mr. Heldmier could do much more than he is doing.

I am,

Yours truly. There

L. W. D. . W. T

There are also someged exclusively on our work, i draughtdean, & foreman and 2 shipping elever, and ing a botal of 175 and. This is not taken from the books, but by sound in the part. There are framt analing stone regularly to the Universi-

ty Buildings.

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Did ongo, 111, Dec. Ven, 1890

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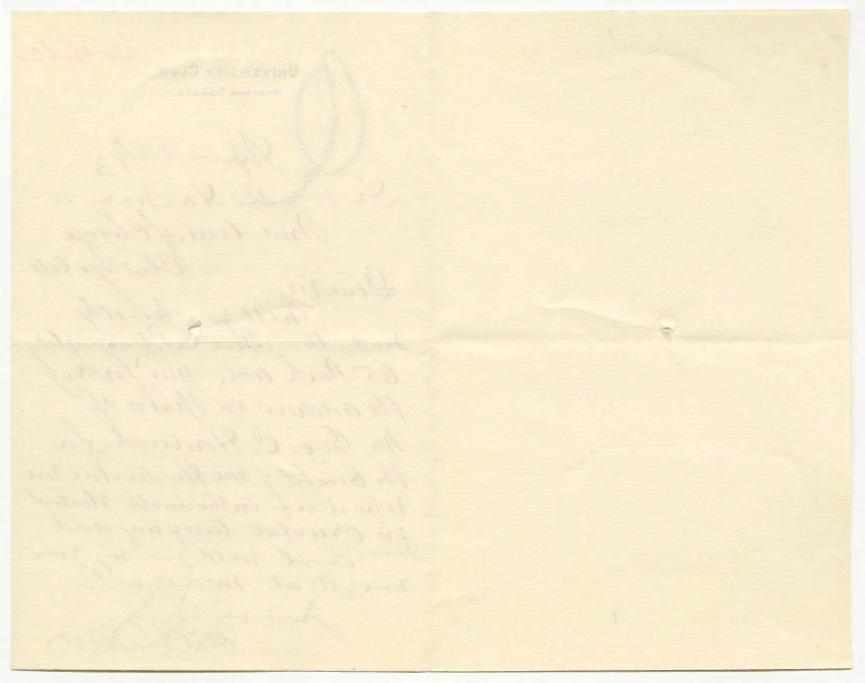
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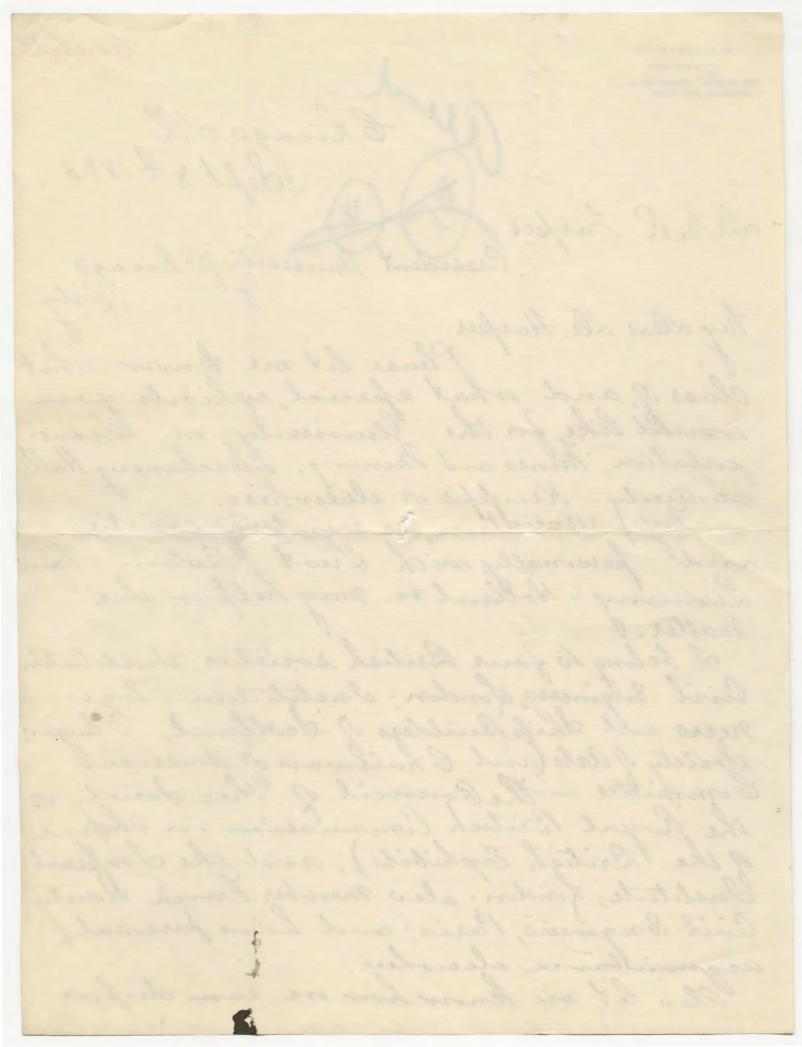
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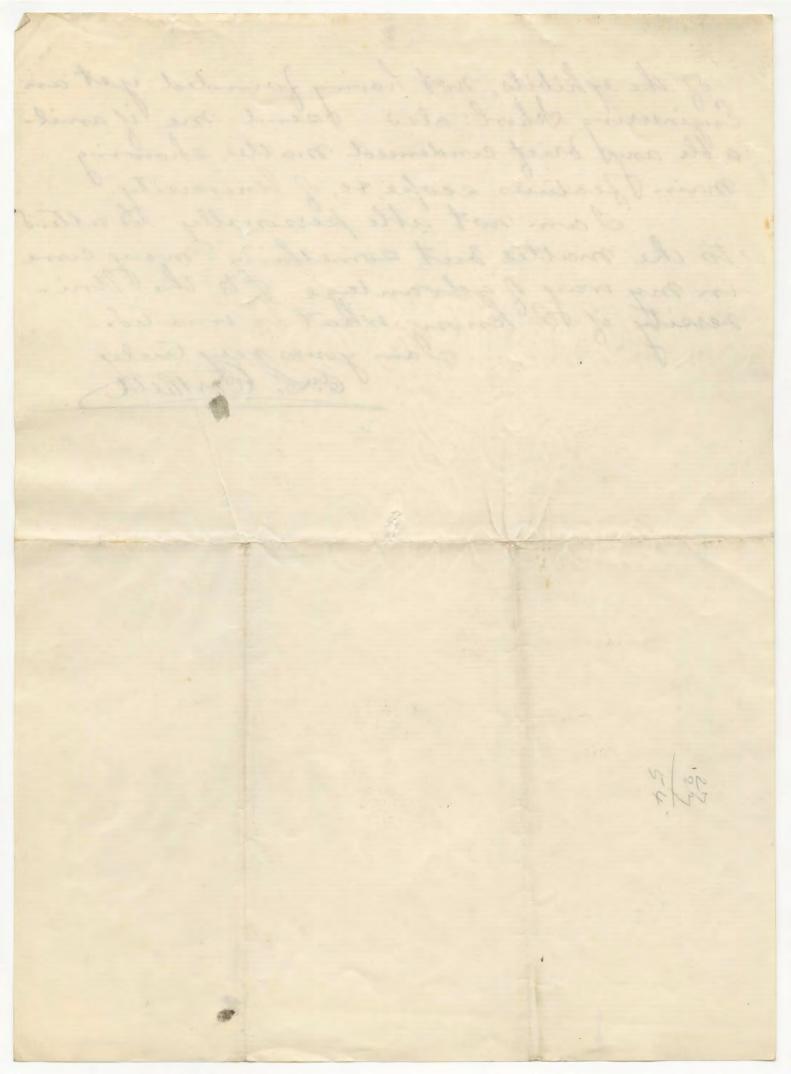
Cortheles UNIVERSITY CLUB. MADISON SQUARE. Ship 23/43 Ir m. R. Harper That lini, of Chicago Chiedge fels Will for kindly Find to mis C. P. Huntington 65 Dark ave, nur forkeit the address in Spain of In Geo. C. Howland, In The benefit of m Huntingtons Jon Who is an enthusiante Meden in Grundat languages and Shawtond will - say Jon much at my equit



Contrile E. L. CORTHELL, F. L. CORTHELL, CIVIL ENGINEER, "THE FROMEWORK." "THE FROMEWORK CIVIL ENGINEER would like for the University - in Wransportation, Mines and Mining, Machinery Hall, Slectricity - Krupp's in elsewhere. and personally with Great Britain - France Lermany - Holland te. may help in the matter. matter. I I belong to four British societies, Institution Civil Engineers, London: Institution of Engineers and Ship Builders of Scotland, Plasgon, Society of arts and Chairman of American 6 miguttee - the Council of this dociety is the Royal British Commission in Charge of the British Exphibilis); and the Imperial Institute, Jondon: also member French Society Civil Engineers, Paris; and have personal f acquaintance elsewhere. also let me know how we can dispose



of the exhibits, not having founded yet an Engineering School: also I send me if arailable any brief condensed matter showing main Geatures, scope te, of University. I am not able personally the attend to the matter but something many come in my way of advantage to the Uni. ressity of to know what is wanted. Dam yours very truly 6. Costhett



E. L. CORTHELL, CIVIL ENGINEER,

"THE TEMPLE," CHICAGO, ILLS. 71 BROADWAY, NEW YORK.

Cartille

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Chicago, Sept. 28, 1893.

Dr. Wm. R. Harper,

President Chicago University,

City.

My dear Sir: --

I had an opportunity for the first time yesterday to examine the models of German engineering in the Transportation Building. Prof. Martmann is absent, but I saw the gentleman in charge of these models and maps. He informs me that the German Societies of Engineers are to hold a National Convention next year in Berlin, where they intend to have this exhibit in its entirety on exhibition during the Convention, for the reason that it was prepared in different cities and by different parties and has never been seen as a whole in Germany. After this Convention it is possible that it may be donated or sold to institutions in this country. He further informed me that the Stevens Institute of Technology and the Columbian Museum had made application for them. I think the chances of our getting it are not good, particularly for the reason that we have not as yet established a School of Engineering, and these models and maps must be distributed through our other buildings for the time being. However, if you think we want them I will make an effort to obtain them, and I believe that my relations with the German Societies and with the leadGileago, Sept. 28, 18 3.

Dr. Wm. R. Harper,

President Chicago University.

C 1 t y.

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ing officials of these three societies are such, - with some little obligations which they feel under to me. - that I can obtain them if anyone can, and I believe they will give them to me in preference to other institutions -- but I may be mistaken. My plan would be to write as so on as I hear from you to the societies in Germany, and the sooner the better. If in my examinations I come across any models, maps, or relief maps of engineering work of any kind in any of the buildings. I will go straight to headquarters and ask for them. I think I can have some influence with the French Commissioner as I am a member of the French Society, and, as I told you. I am also a member of four societies in Great Britain which might entitle me to some consideration. I would like to ask if among models you include the models of steam ships and dredge boats which are on the main floor of the Transportation Bldy, floor; if so I may secure some of these, as several of them were sent to this country on my personal request by ship-builders on the Clyde, and I am in correspondence, in connection with my harbor works in Mexico and elsewhere, with the manufacturers of dredg-Then crallin ing plants, American models and of completed ones at the Exposition.

Yours very truly,

The Contrel

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ing officials of these three societies are such .- with some little oblighten one which they feel under to me, - that I can obtain them if anyone can, and I believe they will give them to me in proferands to other institutions -- but I may be mistaken. My plan would be to serve as so on as I near from you to the societies in dermany, and the sconer the better. If is my examinations I come across any models, maps, or relief maps of engineering work of any kind in any of the buildings, I will go straight to headquarcors and ask for than. I think I can have some infl us nee with the Franch Connessioner as I am a member of the French Society, and, as I build you, I an ulus a member of four societies in Great Hritain which might entitle me to some consideration. I would like bon agida meets To alebon sdf ebufent not alebon grome 'i dan of drate boats which are on the main floor of the Transportation (M.S. stow ment to Lavoves as , esents to ence eques yan I os ti ; roof? such to this country on my personal request by ship-builders in Olyde, and I am in correspondence, in connection with my harbor works in Mexico and elsewhere, with the manufacturers of dredgeing plants, Amori onn models and of completed ones at the Exposi-. 10:3

Yours very truly,

(8)

Murray Hill Hotel.

New York, Oct. | 18th. | 1895. |

Const. 10)

Le Marquis Chasselouo-Leubet,

C/C. French Commissioner World's Fair,

Chicago, Ill.,

My Dear Marquis ::-

Enowing that you were to return to Chicago I expected to see you there in reference to a matter in which I am greatly interested.

I have the honor to be one of the Frustees of the Dniversity of Chicago, whose buildings and grounds you have seen from the Ferris Wheel no doubt, as it is immediately north of the Plaisance. This University is rickly endowed for a new one with about \$5.000.000. Most of its Departments are now well organized, and we have erected a beautiful Chemical Laboratory and Physical Laboratory, donations of two wealthy gentlemen of Chicago, and it is a proposition, largely of my own suggestion, to found, as soon as possible a great School of Engineering and Architecture. We desire very much to obtain from the Exposition some of the Engineering Exhibits in the way of samples, clans and models.

My ill health has prevented me from seeing the french exhibits of this kind but I an informed that there are many such ! I wish Murray Hill Hotel.

New York, Oct.: 1864.: 1893.:

is Marquis Chasseloun-Leubat,

C/C. French Consissioner World's Fair.

Chicago, III.

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-ze denen end heles mon en beinevent ass diles (frank the trans an-

to enlist your kind offices in arrangin for the presentation, if possiple, of these exhibits to the University. I need not go into details as you know exactly what we sent. Uptil we errot an Engineering building these exhibits will be used in our laboratory and perhaps placed in the Museum which has just been completed.

If you have the opportunity I would greatly like to have you call at the University on President Harper or Prof. Chamberlain or Secretary Boolspeed, who will be delighted to show you the buildings.

I am detained here on important matters which took me very reluctently from my home; I am getting better out am not strong yet; I hope to see you before the end of the month.

I am getting together a Souvenir of the excursion of the French Engineers from Chicago to New York. It will include some letters by the Engineers on route; also quite a number of newspaper clipings giving an account of their visit to different cities, and if I finish it before you leave I will ask you to take it with you to the Society.: I shall be at this hotel for a few days.

Very truly yours,

signil Stobachelle

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to enlist your kind offices in arrangia. for the presentation, if possible, of these exploits to the University.; I used not go into details as you snow erectly shet we mant.! Until we errot on taginouring auiding these exhibits will be used in our isocratory and perhaps classe in the Massum which here just been completed.!

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.atboy viuna yours.

agail Stollattees

Address, The Temple, Chicago, Ill.:

New York, Oct. 18th. 1893.1

W. J. Millar, Sect.,

Unstitution Engineers & Ship Builders,

Glasgow, Scotland.

My Dear Sir:-

Please find enclosed two letters which I will ask you to forward at once, with any note of your own which you may be willing to send. The letters, which please read, will explain themselves, and I send them to you in order that you may assist me.

I will say further that I would like also very much to have the large exhibits which was displayed before the International Engineering Congress by Mr. Dees, relating to the improvement of the Clyde. We would heng this up in our University as one of the important examples of river improvement, and it would, with the paper of Mr. Dees, he very instructive in that branch of engineering.

Will you kindly convey to Wr. Dees my desire to have this presented to the University of Chicago? You or he can address me as I am one of the Trustees.

Very truly yours,

2 your Sebortille

Address, The Temple, Chicago, 111.;

New York, Oct. 138th. 1893.1

ryin Stlonttell

W. J. Miller, Sect.y

Unstitution Engineers & Ship Builders.

Slasgow, Sootland.

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Very truly yours.

Address, The Temple, Chicago, Ill.,

New York, Oct. 13th. 1893.

Col. James H. Thomson.

Clyde Bank,

Dunpartonshire, Scotland.

My Dear Sir:-

While in Scotland two years ago I called on you with a latter of introduction to see your Norks, and was greatly delighted with the examination.' I think I spoke to you or some one at that time in regard to sending models of your work to the Exposition in Chicago. I am very glad to see that you sent cuite a number which have attracted a good deal of attention.'

I desire to ask if you would be milling to present these models, or some of them at least, to the University of Chicago, of which I am one of the Frustees. We are preparing to establish, with other departments, a great School of Engineering and Architecture, in which there is to be included a division of Marine Engineering and Neval érchitecture, which we note to make an important specialty. These beautiful todels of yours would be of great value as showing the past types of the day of steeners and neval vessels.

If you will favorably consider my request please communicate with me at once or with your Agent in Chicago, so that the models may not be sent away. Very truly yours, Chicago Chicago Address, The fample, Chicago, Ill. ,

New York, Oct.; 18th.; 1828.

Dunbartonshire, Scotland.

Col. : Jases S. Thomson,

Clyds Bank,

-: ni8 nact vk

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New York, Oct. 18th.; 1898.;

Messrs. Denny & Sons.

Ship Builders,

Glasgow, Scotland.:

My Dear Sirs:-

You will remember that in 1891 I called at your Works, to examine them, and had the pleasure of taking luncheon with you, and to talk with you in reference of an Engineering Exhipit at the Exposition in Chicago, in which I was greatly interested, and I asked you at the time to send some models of your vessels, which I think you did.

I write this letter to thank you for doing so and at the same time to ask if you are willing to donate than to the University of Chicago, of which I am one of the Trustees, as I am specially promoting the establishment of a great School of Engineering and Aronitecture; one of its divisions will be Marine Engineering and Naval Architecture. You may think this request unprecedented, out I am greatly interested in the subject and in promoting the University by having in it the best types of the Marine Architecture of the day. Please communicate with me at my Chicago address.

Very truly yours,

Jigned 6. L. Corthell

Address. The Tampia, Chioszo, 111.

New York. Oct. | 18th. | 1898. |

Mesare. Danay & Sona,

Ship Builders,

Glasgow, Sootland.

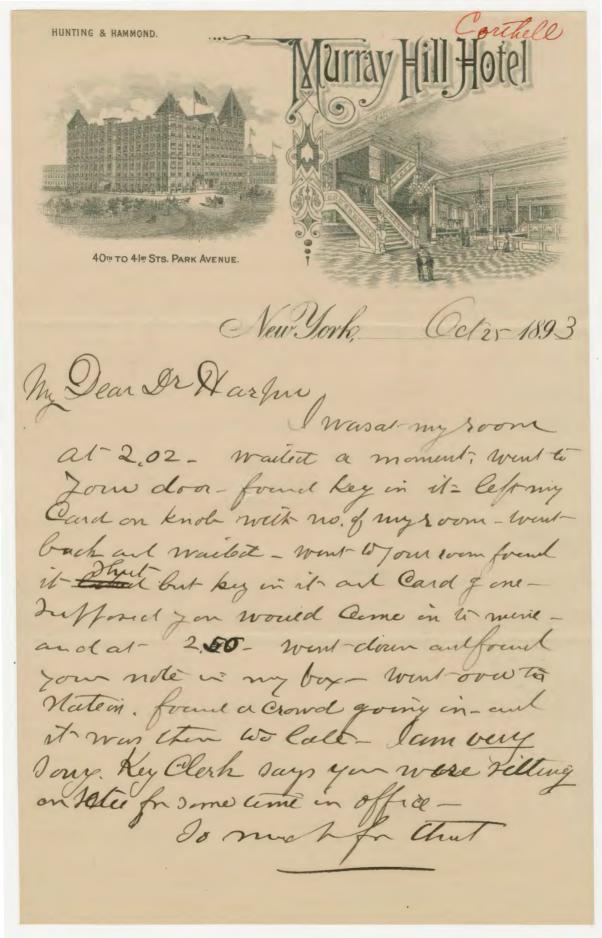
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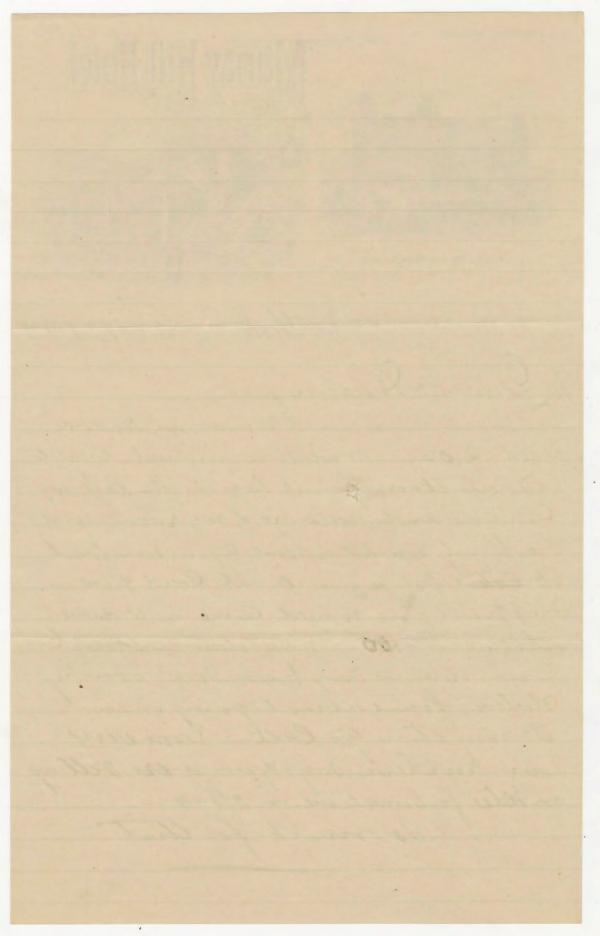
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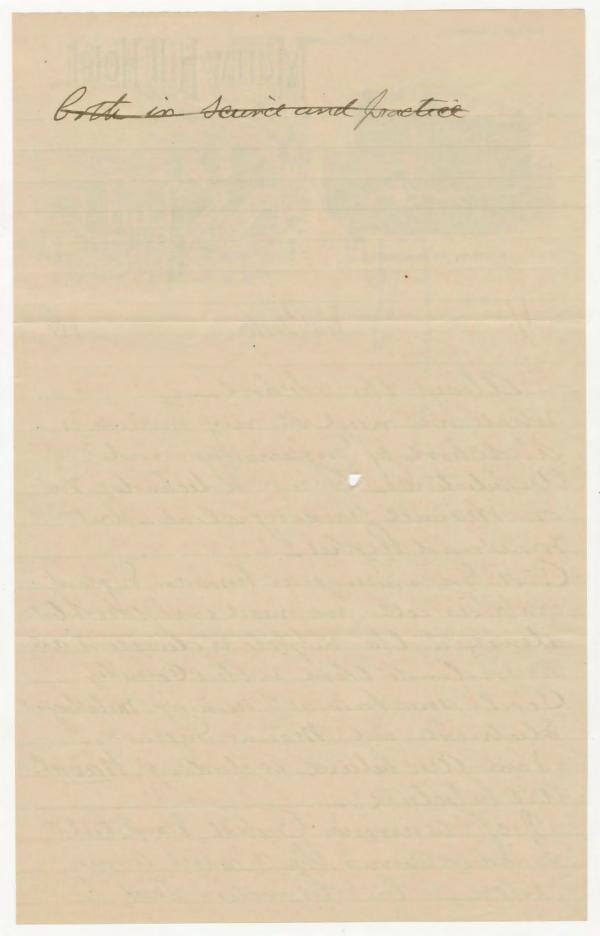
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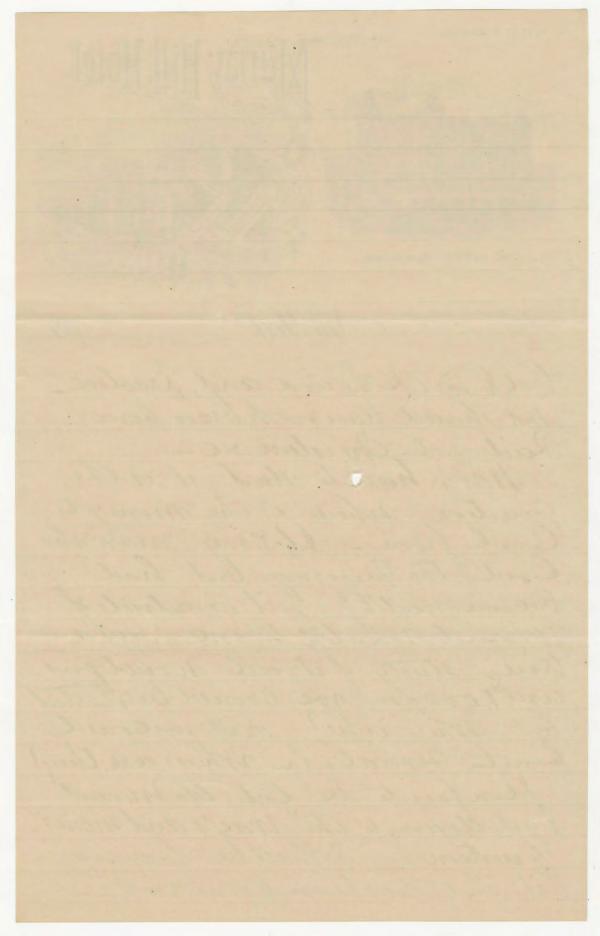




HUNTING & HAMMOND. Kurray Hill Hotel IL IIIIII 40 TO 41 STS. PARK AVENUE. Veur York,__ 1/. 189 about the Schore -What me need in my spinian is a' Schore of Engineering and architecture - not a lectrological or manuel training alone - butmore and higher-Civil meinering as known in moland embraces all we need except archilectur demised the religits a divisions are as we dende them in this Country _ Civil. mechanical - Mining. melalleuguel Electrical and Marine Engening. Then archelurce including Maval architeture -Prof union's Central Institute Sondon Comes the nearest to my idea - but bronde tell_



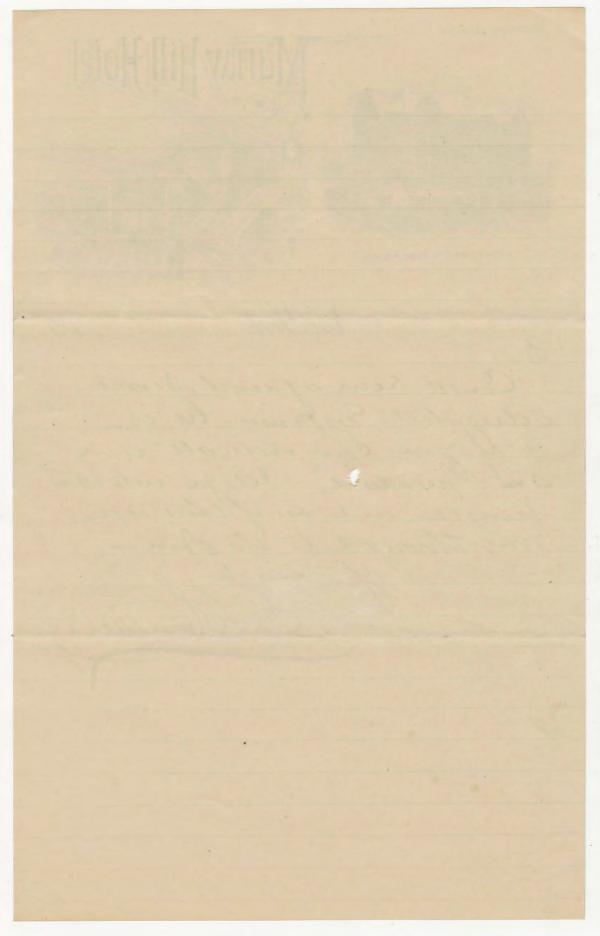
HUNTING & HAMMOND. Murray Hill Hotel ICA II 40TH TO 41 STS. PARK AVENUE. New York 2) 189 both in The Science and practice. he should have such branchisas Railroad Operation de now! have to start it is the question where is the moneyto Come from - Grome man who loved The perfersion but had become wealthy & it or outride of it and wanted to encouragea true study of it all would give usal. ood on we would be Marted but when is the? or if we could find several bus where are they? Confers to be lost - The moment I get down to the Ways and means" quition _ I shall be Hudging at al withing I warden or

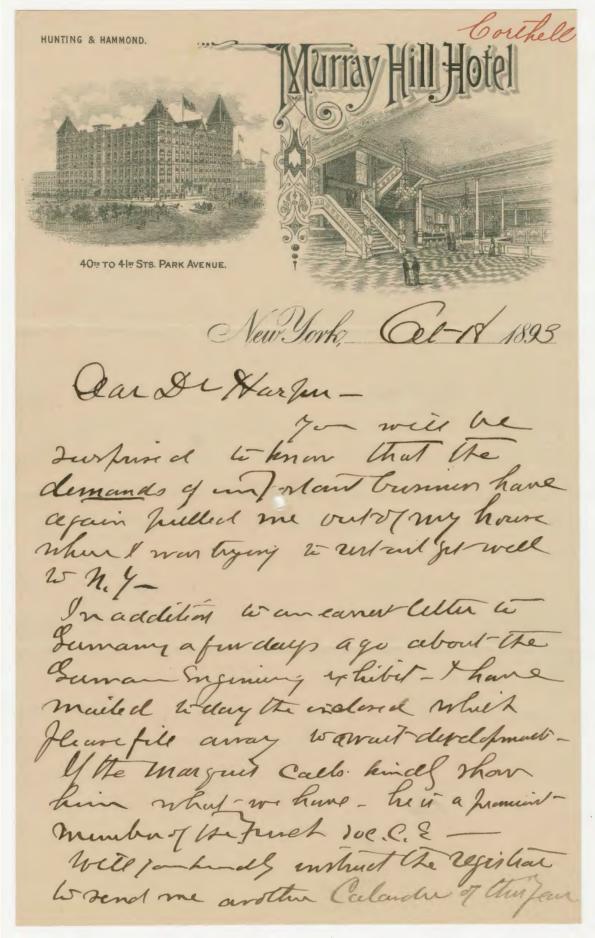


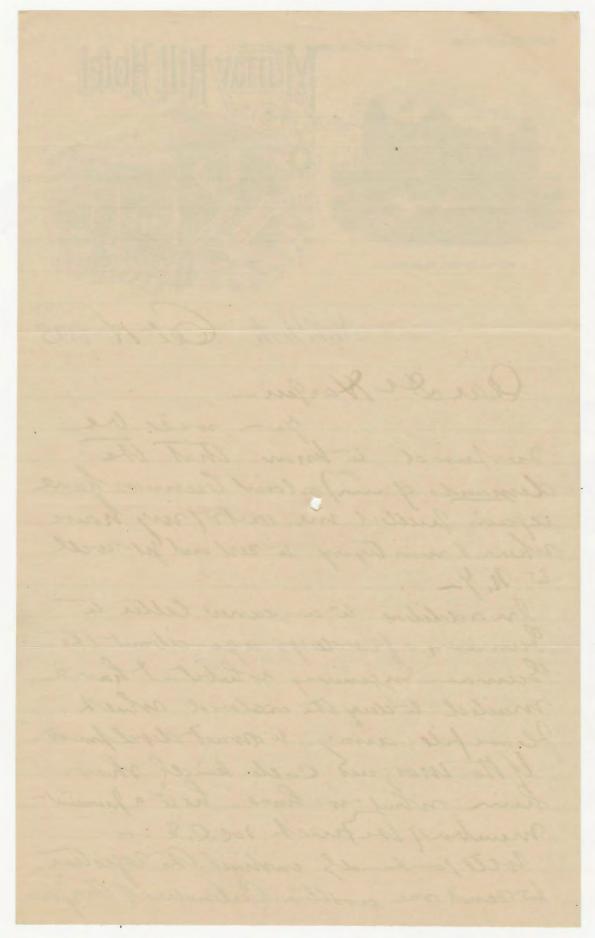


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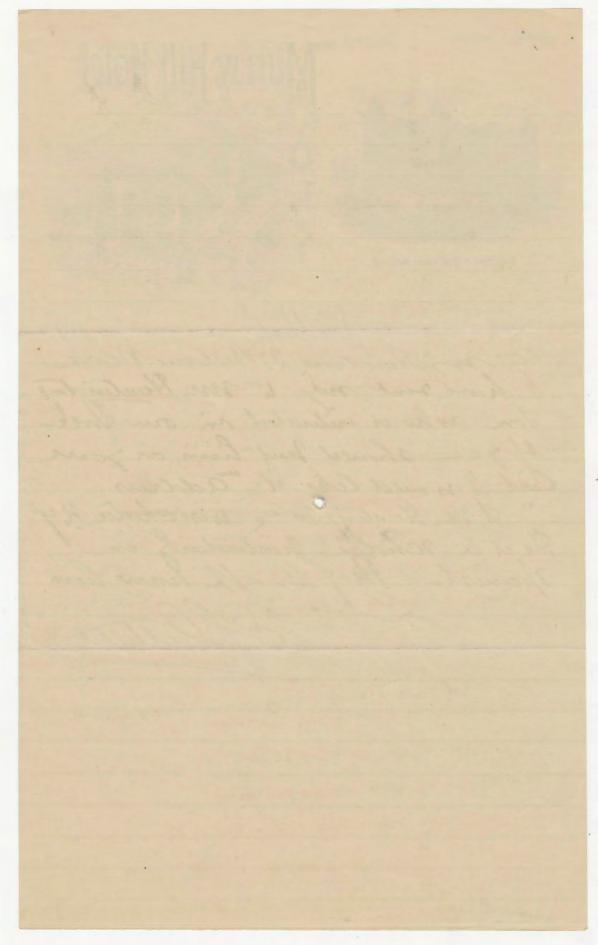








C Vew Jork to my Residence & Belleve Place I have sent my to M Huntingtons Ton who is interated in our week My - should hat him on your Cert I would leke it "addris " A. M. Huntington & wistchister M. y" He is a scholge - particulary in as Knapp knows term Manish -Horl



Contrell,

Murray Hill Hotel, N.Y. Nov.21st.1893.

Dear Mr.Smith:-

Will you or Lieut. Baker kindly inform me if thee was in your Dept. or in any other, possibly in Liberal Arts, a relief map of the Wady Raiyan Depression near the Nile, sent by Mr. Cope Whitehouse of London? I have a letter from him that he did so, but has heard nothing of it, and that if <u>Chicago</u> would like it he will present it to the City for its museum.

I have been interested in this important project for many years. I have believed and do believe that the construction of the Canal leading to this great reservoir and regulator of the Nile, performed by Joseph, Jacob's son, was the direct cause of the greatness of Egypt, and the abandonment by desuetude by later centuries was the cause of the downfall and decay of that country. Mr. Whitehouse has given years of his life to the project of the restoration of this reservoir, and it is just now being finally examined into and reported on by an International Commission of Engineers.

I urged Mr. Whitehouse when I was in London in '91 to have this model made and sent to the Exposition. Please inform me about it. If the <u>University</u> is to have any of the exhibits for its museum I shall write to Mr. Whitehouse that I would like to

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Dear Mr. 3mitin -

Murray Mill Hotel, N.Y.

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R.L.Cort ell.

Note copy of Will some anoids out . Habes winded, inform me 15 these was in your Rept. or in any other, possibly in biberal Arts, a relist map of the Wady Raiyan Depression near the Nile, ment by Mr. Cope Whitehouse of London? I have a letter from him that he did so, but has beard nothing of it, and that if <u>Ghicano</u> rould like it he will present it to the City for its massum.

I have been interested in this important project for many years. I have believed and do believe that the construction of the Ganal leading to this great reservoir and regulator of the Mile, performed by Jaseph, Jacob's son, was the direct cause of the greatness of Bgypt, and the abandonnent by demotude by later conturies was the cause of the downfall and decay of that country. Wr. Whitehouse has given years of his life to the project of the restoration of this reservoir, and it is just now being finally manufaed into and reported on by an International Downlesion of Engineers.

I urged Mr. Whitehouse when I was in London in '91 to have this model made and sent to the Exposition. Please inform me about it. If the <u>University</u> is to have any of the emhibits for its mesons I shall write to Mr. Whitehouse that I would like to W.A.S.-2-

have it donated to it.

Yours truly,

E.L.Corthell.

Note copy of Mr. Whitehouse' Letter enclosed, of course it is

not for publication. Address me Murray Hill Hotel.

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Yours truly.

E.L.Corthell.

Note copy of Mr. Whitehouse' Letter enclored, of course it is

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not for publication. Address no Marray Hill Hotel.

B.L.C.

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Corthell,

New York, November 25rd. 1893.

Dr. William R. Haiper.

Presdt. University of Chicago.

Chicago, Ill.,

My Dear Sir:+

I received a letter from Messrs. James and George

Thomson, which I send you; you will see from it that I am not succeed-

ing very well in obtaining exhibits for the University.

Aborher

New York, Sovember 28rd. 1898.

Dr. William R. Hafper.

Freadt. University of Chicago.

Chicago, Ill.,

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Carthell

New York, Nov. 8th. 1893.

Chicago, II1.;

Dr. Wn. R. Harper.

Presdt. University of Chicago,

Dear Sir:-

you will see from the enclosed, from Messrs.

Debny & Bros., Dunbarton, that we cannot obtain the beautiful mo-

dels which they had at the Exposition, as they are going to Antwerp.

Very truly yours,

allow They

New York, Nov. 8th. 1893.

Dr. Mn. R. Harper.

Presdt. University of Chicago,

Chicago, 111.;

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C

Very truly yours,

Conthele,

E. L. CORTHELL, CIVIL ENGINEER,

"THE TEMPLE," CHICAGO, ILLS. 71 BROADWAY, NEW YORK.

rout

New York, Jan. 24th, 1894

Dr. Wm. R. Harper, Esq.,

President University of Chicago,

Chicago, Ill.

Dear Sir:-

You will remember that I wrote to Mr. C.O.Gleim, Engineer in Hamburg, Germany, asking him to use his influence in obtaining for the University the German Engineering Exhibit. His letter received today in reply to mine goes into the matter so fully that it is necessary to give you a copy of so much of it as relates to this matter.

"In reply to your request of having the German engineering exhibit dedicated to your new University, I saw at once that in this shape a compliance with your wishes was out of the question. The exhibits got up for this occasion, most of them from Boards of Public Works of Governments or municipal administrations, were sure to be intended for gracing the walls of the offices of the Boards or city engineers until called for by some new Exposition elsewhere, and I remember seeing some of the Chicago exhibits at the respective public offices, having been originally prepared for New York, Jan. 24th, 1894

Dr. Wm. R. Harper, Esq.,

President University of Unleage.

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Dear Sirt-

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Contill

none previous Congress or Exposition in Germany. They are kept on hand for similar occessions, and in the make time are of veluable service to the respective similatentions: So I recognized at unde that an application for the original would be of no pression ter, I delied on Mr. Mersherg, the Chairman of the Joint Committee of German Engineers for the Joint Regineering Exhibit at Chicago, and found that he fully deread with my views. But he served that it would be providentie to request the exhibitors to not up photothese. I think this will be the best that and be dens. Mr. this Summer, at the time of the Mechanical Engineers Convention. and advise of what, dourse things are taking.

. . .

E. L. CORTHELL. CIVIL ENGINEER, 71 BROADWAY, NEW YORK.

Contrell

North Egremont, Mass. July 6th, 1895.

Dr. Wm.R.Harper.

President University of Chicago,

Chicago, Ill.

Dear Dr. Harper: -

I have from time to time since I have been away and since my return received the notices of meetings and other information from the University. I had hoped as I wrote yourself and Dr. Goodspeed to see you long before this, but it has not been wise for me to take the trip to Chicago as yet. I hope to do so in the Fall. In the meantime I am reading with great interest everything that I see in the papers and elswwhere in regard to the University also the productions of the University press.

Very soon after my return to the United States I carried out an idea which I had thought of a good deal while I was away and that was to make a strong appeal to Mr. Gates, who I supposed was still the Secretary of the Education Society. For your information I send you inclosed a copy of my letter to him and his reply to me and I will ask you to kindly return it to me, also to suggest if possible some way in which I can assist in bringing about the much desired result. Also inform me what are your views in regard Horth Egremont, Mane,

. cesh, 1895.

Dr. Wn.K. Hacpor,

President University of Chicago

Chicago, Ill.

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You have probably in the library now the Proceedings of Division E., Engineering Education, of the International Engineering Congress held at Chicago in 1893. In that book you will find some very strong arguments for such a high grade school as I am proposing and I call your attention particularly to the paper of Professor Burr of Columbia University.

With kind regards to yourself, Dr. Goodspeed and the Board of Trustees

I am

E.L. Corthett

to sateblishing at an early date a school of Engineering in connec-

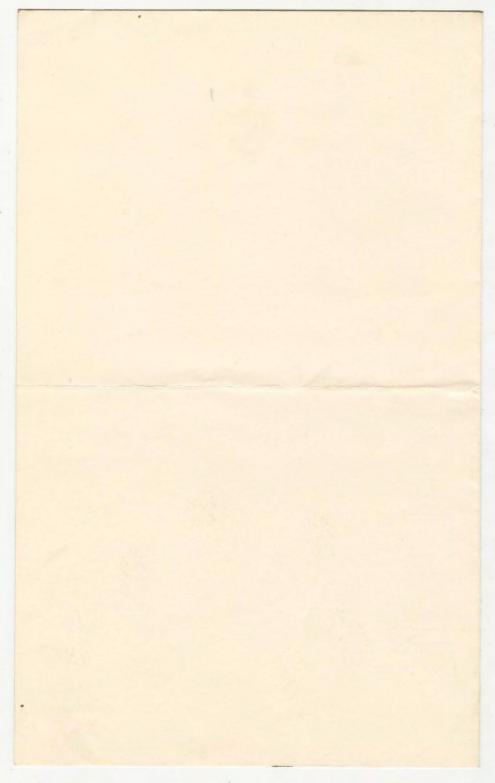
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E. S. Contruct

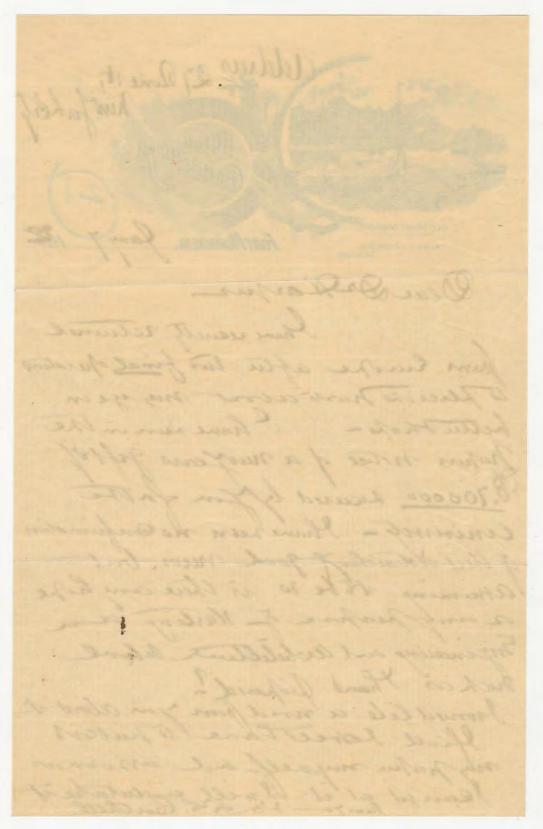
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With kind regards to yourself, Dr. Goodspeed and the Soard of Trustees

Corthell É north Equmont mars June 26/96 Deai Dr Harper _ I wrote Dr Boods feed only Two days ago about the Schore of ingenicing and architecture and now comes a clepping from a Chicago news haper armourcing the merging into the University of the Acanual Training School. Shad never decumed of This again -Sitem as a "Harter" for the feat-Schove and am of course greatly pleased -I creechingly regret - That important freshing work beeps me from Chicago during these Convocation days - I should greatly on joy tem, I wish for would find to mod mis Kapned 1915 Indiana ave all invitate and to the manyoccasions that it is from for them to acture -and great oblige O.S. Corthell



La r campell Runder Mander Man Dear Dr Harper have recently returned ham Europe after two final operations to place the hasto about my ye in better thate - I have seen in The Juhas notice of a nurgeons gift of 8.700000 secured by you fathe University - Thome seen no confirmation of this a kinisher good news. but assuming it be to is there are hope or any purpose of Warting an my invering and archelecture school Inchas thand befored? I would like a word from you about it-Ifind server tame to publish my palm myself- and associas Jean get at it I will endutate it



E. L. CORTHELL, CIVIL ENGINEER, 27 PINE ST., NEW YORK. AUDITORIUM BLDG., CHICAGO, ILL-

New York, February 1, 1899.

Cortul



Dr. William R. Harper, President, University of Chicago, Chicago, Ill.

Dear President Harper:-

I have been hpping for a long time to hear from you in regard to my report in Engineering Education. I take it for granted you have examined it and are now able to decide whether you would like to keep it for the benefit of the University. If so it would please me very much. If not, I would like it published, or a part of it at least in one of the engineering periodicals. Please let me know about it at your early est convenience. I am

6° S. Borthell

E. L. CORTHELL, erra, al cause, o sour et, sur beet, webpens, sure, carsan

New York, February 1, 1899.

Dr. William R. Harper, President, University of Chicago, Chicago, Ill.

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New York, February 9, 1899.

Coulde

Dr. William R. Harper, President,

University of Chicago,

Chicago, Illinois.

Dear Dr. Harper:

I have yours of the 6th inst. Of course if you have filed my report on Engineering Education, to use it for the purpose for which it was written, I am perfectly willing to have it remain in your hands for that purpose. I hope when I return from a trip to Mexico, within a few days, that I can make quite a little stay in Chicago and see you and your University.

I am,

Yours truly,

Sould

R. L. CONTRECL
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CABLE ADDRESS : {UNITED STATES : TABANQUE, NEWFORK. EUROPE : TABANQUE, LONDON.

E. L. CORTHELL. CIVIL ENGINEER. 27, PINE ST., NEW YORK. 64, AUDITORIUM BLDG., CHICAGO, ILL. Jet on contract New York, Sept, 26th, 1899.

Dr. Wm. R. Happer,

Pres., University of Chicago, Chicago, Ill. Dear Doctor Hopper: --

I have recently examined at my library in North Egremont, Mass., where my daughter wrote out for me the report upon Engineering Education, the first copy of that report.

I may be egotistic, but I feel that this report contains so much valuable information that it ought to be printed and distributed among those who have assisted me by furnishing information in various countries, and also among professional educators and Civil Engineers, who are interested in this very important subject. I think the distribution, among such people, of this article just as it is, addressed to you as the President of the University, will do good and certainly cannot do any harm. It will tend to create an interest in the subject itself, and in the purpose for which it was written, namely, to found with the University a great school of Engineering and Architecture.

I do not know as I have ever told you of the amount of labor and of expenses connected with this report. A calculation of my expenses would run them up over \$1000., largely in visiting various schools in Europe.

If you approve of the publication of this name beforeit gets too old -- you know it was written over a year ago -- I would like to suggest that it be published under the auspices of the University by the University of Chicago Press. You have the original. I see no corrections to make, except one or two minor ones which I will

New York, Soptiest, 1893.

Dr. Wa. H. Helpor, From., University of Unicago, Chicago, 111.

Egrement, Hase., where my danghter wrote out for me the report upon Egrement, Hase., where my danghter wrote out for me the report upon

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W.R.H. -2-

write you about if you decide to have it printed. I think I could take care of 300 or 400 copies myself, and put them where they would do good in this and other countries, not only in the general cause of Engineering Education, but in that of the University itself. My acquaintance, as you know, is world-wide, and an article of this kind Surf by me to my friends everywhere will carry some weight at least. At any rate, it will create an additional interest in the subject.

If,upon consideration, you cannot print this, but will allow me to print it at my own expense, perhaps I would be willing to undertake this additional cost, although I think the University ought to do it.

Kindly write me as soon as possible, for the reason that I expect, in a few weeks, to go to Europe, and will see many of the people there who are interested in this subject, and who assisted me in writing it up. I expect in the meantime that some business will take me to St. Louis and Chicago, and I will see you then, but this is doubtful.

Kindly reply at your early convenience and greatly oblige, Yours very truly,

6. C. Costhell

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Kindly reply at your early convenience and greatly oblige, Yours very truly, E. L. Corthell, Civil Engineer, 27 Pine St., New York.

Washington, D.C., February 7, 1900.

Br. William R. Harper,

President University of Chicago,

Chicago, Illinois.

Dear Doctor Harper :-

At the suggestion of one of my scientific friends here, Mr. Howard, I called on Doctor Harris, Commissioner of Education, and explained to him the character of my report on "Engineering Education in the World", and he is inclined to believe that it would be a suitable paper to publish in his monthly reports, and wishes me to send it to him for examination. The copy which I have is very much blurred and hardly legible, and I will be very glad if you will send him direct the original; pasting on the enclosed address, and registering the package. If you will kindly have the report put in a large envelope and not roll it up, it will facilit#te his reading of it.

If for any reason you are disinclined to send it, you can return to me the enclosed address.

I am,

S.L. Costhelt

L. Gerthell,
 Givil Engineer,
 Pine St., New York.

Washington, D.C., February 7, 1900.

Hr. William H. Harper, President University of Chicago, Chicago, Illinois.

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The University of Chicago Founded by John D. Rockefeller

Office of the President

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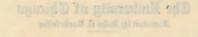
Pittsburg, January 4th, 1903

Dear Dr. Harper:-

Nothing that has come to me for a long time has given more genuine pleasure than the information through Mr. Kingsley that you are seriously considering the founding of a great and high grade school of engeneering in connection with the University.

Since I made my report three years age I have not been idle in the matter, so far as studying the question and conferring with those with whom I have been absociated and with those whom I have met in my travels and work in various countries. I have been confirmed in my views expressed in that report in respect to the great importance of establishing in the United States -- a great School of Engineering of the highest possible rank and order -- I am more than and ever convinced by my recent experience association that it is the high grade Collegeiate or Academic education as a basis for a professional education that is necessary to make that desirable and ideal combination -- A man and an Engineer-

More, or further, that these times and still more the near future times call for such merand also for professional men men in engineering who know more than one branch of engineering--- The Civil Engineer (Civil as distinguished from



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The University of Chicago Founded by John D. Rockefeller Office of the President

Chicago

military) of this century should be an all around Engineerand should have command of so called civil and also mechanical and particul arly electrical engineering---Argentine- a country not supposedly high in its idealsrequires this and it requires until 25 to 26 years of age to fit a young man for his life work and than he can undertake anything.

If there is any way I can help you further or suggest any plan do not fail to call on me. I wish I had the leisure to throw myself wholly into the work of organizing, founding and building up a school with \$5.000.000 funds-- I am so glad that you have taken this broad view of the requirements.

Such a school as we have in mind would be one of the most beneficent factors in the life of this nation-equipping as it would educated men to be engineers, who would take charge and carry on the great engineering work of this country.

> You can address me always at 1 Massau St., New York. I an sincerely yours,

> > 3. L. Corthell

The University of Chicago Breaks to Sone & Restorates Office of the Provident

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To wely bacto at it nodet ovar not take bain to in I -- abbut

January 12th, 1903.

Mr. E. L. Corthell,

1 Massau St., New York.

My dear Mr. Corthell:-

I is with great pleasure that we receive your letter of January 4th and note your continued interest in our proposed technological school. I hope that it is near. When you come to Chicago it will give me great pleasure to get your advice concerning it.

January 12th, 1903.

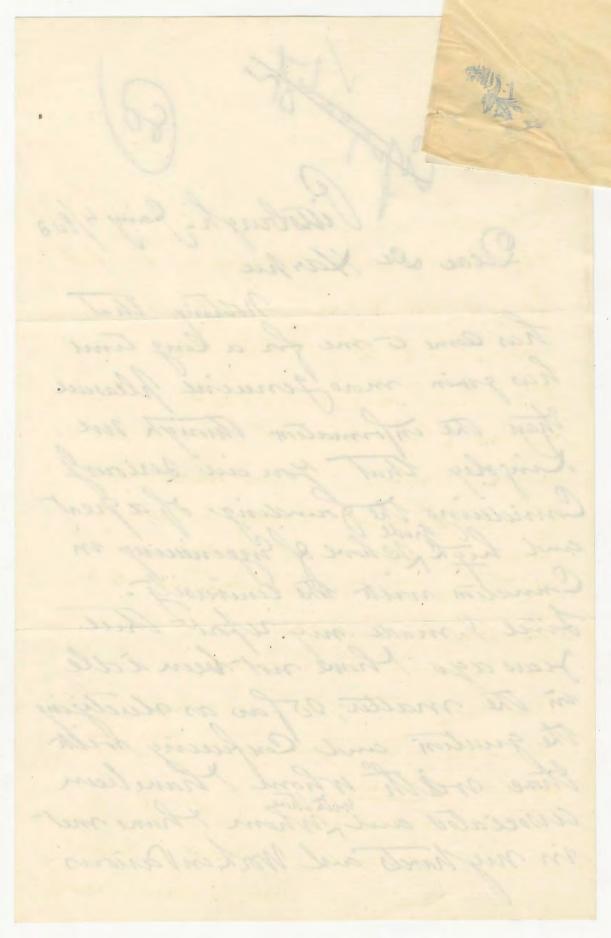
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BONNEVILLE M'G'R

Countries - Khave been Cirfind in my views txpressed in that report in respect to the great infortance of establishing in The U.S- a great Tchore of Sugin cering of the highest pomber weak and order _ Sam more Than lou Carbined & my recent to perimet and above atoms that it i to high grade Collegeiale or Acadimie, education an abasis Inapofessional educater that is neenang to make that desirable and Edeal Combination - a Main und an Sugeriel mar, or fustice. That These times and Hell more the near future times Call for such min and

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3 also for professional nun in Suginaing the know mal than one branch of meining -The Civil Sng inice Civil as distinguished from Military) of this Contrary Housed be an all around Ingenier- and Though have Command of so Called Civil and abo michaned and particularle electricate engineering -Augustini - a country not huffixedly high in its ideals - requin this and it requiris until 25 126 Jeans of age Ofita Joing man In his life work and this hecan If there is any way I can hulpon further of suggest any plan do not fail to call on me



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Take Charge and Cam on the Teal meining Work of UniCountry-

Jon Can addun me always al - Massan 1 - new fork -Jam smell yours E. C. Costhell

Republica Argentina Ministerio de Obras Publicas Ingeniero Consultor Chicago April 7/403 Dear De Harten Jought to tell you that frequest and invitation of loneor two members of your Committee on the peo posed Enginaing College I met the Committee al-Runchen to day at the University Club house and we had a discussion of the Julict-I was glad to get Their brins and to give mine and while we weeknot in full accord on all points thell is no reason Whey we should not be

after further entuchange of ideas. Il seamo tome you should look for the following qualifications in the Director of the Tchore -11 that the though he an Iducated man -2rd that he should be or Thould have been, a fractiat menin with a Varia experiere and an acquaintance with menens in this and Foreign Countrul 34_ That he should be a man of affairs-When I Can find Jucha man I will beglad to recomment him - Stable il for

granted that he moried have The Felecteri of the menaury preferrors Who would forme his Neff. In he should have con near to "Carteblarche" as ponible in organizing The Schore. my humanut address is Marsau at nurfach Jam Jours Sincerely

Auditorium Hotel march 17/403 Dear Or Harher whave Journy - I and to go to Champaign Lemmon morning En two days to deliver of Cecture in argentine -Friday or Sacurday Phope to get - down a the Time - to Dee it and 7 on - and also next week I want a dee as multof the time as is handle with other ingapuli-We have a Cear here for mich. Uni - ned - welt dal-250 to return from Buff ale where

Lecture at The uni- April 6_ as ananged -20 m Hatfield about it and will see him also-Ven with high Lyan yours in Bonult

Lecturolors

1 NASSAU STREET,

New York, April 18, 1903.

Dr. Wm. R. Harper, Pres. University of Chicago, Chicago, Ill.

Dear Doctor Harper:-

Referring to our conversation when I was at your house recently, in regard to some one qualified to take charge of the organization of the proposed Engineering school; I have not as yet been able to find such a man.

I made inquiries yesterday in regard to a prominent technical educator and president of one of the best technical schools, that at Troy, the Renessalaer Polytechnic Institute, Mr. Palmer C. Rickets. President Rickets'Engineering Institute is one of the best schools in this country. It is very severe in its requirements both for admission and for the course of study, and its graduates are always thoroughly educated Engineers. Among its Alumni are some of the leading Engineers of this country.

I would advise you to make some further inquiries in reference to him. I am not able to give the compensation which he now receives, but I think it is much less than what I understand you can offer, that is, about \$7500. and that might be an inducement for him to make a change. If I find out anything about any other suitable man I will write you.

1 WASSAU STREET,

New York, April 18, 1903.

Leber Long

Dr. Wm. R. Harper, Pres. University of Chicago, Chicago, 111.

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MAIL ADDRESS: 1 NASSAU STREET, NEW YORK.

TELEPHONE, 473 CORTLANDT.

E. L. CORTHELL, CIVIL ENGINEER. CABLE ADDRESS: TABANQUE, NEW YORK.

June 11, 1903. 190

Dr. Wm. R. Harper, Pres. University of Chicago, Chicago, Ill.

Dear Dr. Harper:-

Some weeks ago, when I had a talk with President Pritchett of the Massachusetts Institute of Technology, he offered to publish my report on Engineering Education for the general benefit. I told him that you were not ready to publish it as a University Paper, and gave him the reasons, but that I thought that you would have no objections to have it published by the Institute, since at one time, you had suggested to me that Dr. Harris, U.S. Commission of Navigation, might publish it, but who had declined on account of its being a private matter. I have had a half dozen clear typewritten copies made, one of which I am sending to Mr. Pritchett; I am also enclosing a one-page supplemental report which you can attach to the copy of the original report. I had intended to make a supplemental report of some length, but after writing it out, found that I had already covered the ground in the original report. I have, therefore, limited myself simply to a statement confirming, after a lapse of five years, the views expressed in the original report.

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June 11. 1900. 190

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Pr. Ma. B. Barpers

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1 Nassau Street,

New York, June 5, 1903

SUPPLEMENTAL.

Since the above was written, five years have elapsed-a semi-decade of important development-- educationally and otherwise, in this and other Countries.

During this time I have had exceptional opportunities in this country, in Europe and in South America to observe and study, and my opinion is confirmed by this experience, that the neccesity for such a College of Engineering as I have recommended is greater now than five years ago, and that it is the duty and the high privilege of the University of Chicago to establish this School.

In only one particular would I modify my views: I would double my estimate in order that the school may have all the facilities required and be unhampered in its development and usefulness; and while I would provide for the admission of students who cannot obtain a liberal education in the humanities, I would never lose sight of the main purpose of the College, which is, to give a University, or Professional, Education.

E.L. Conthett

1 Massau Street,

New York, June 5, 1908

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C.S. Contra

MAIL ADDRESS: 1 NASSAU STREET, NEW YORK.

TELEPHONE, 478 CORTLANDT.

E. L. CORTHELL, CIVIL ENGINEER. CABLE ADDRESS: TABANQUE, NEW YORK.

Bern, July 7	190 3
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	V. Shepardson

Dr. William R. Harper

President University of Chicago

Chicago,

Illinois.

Secretary to the President.

Dear Doctor Harper: -

The inclosed print of a letter of Lord Rosebery was in the London Post which I received as my steamer touched at Plymouth. You will see from reading this letter that the people in London are proposing to establish almost exactly the same kind of a school which I have proposed in my report for the University of Chicago. Thinking that that report might be of use to the promoters of this project I have placed it in the hands of Sir Ernest Cassel who is one of the leading projectors of the enterprise and one of

my friends I am yours very truly

CONTRELL

Samara and

President University of Chicago

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TECHNICAL TION **EDUCA**

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RESEARCH AND TEACHING.

CIFT TO THE LONDON COUNTY COUNCIL

Lord Monkswell, as chairman of the London County Council, has received the following letter from the Earl of Rosebery : the London

38, Berkeley-square, June 27.

DEAR LORD MONKSWELL, I am privileged to make an important proposal to the London County Council as the authority for

to the London County Council as the analysis technical education. The excellent provision now made for scientific and technological instruction in the polytechnics and other institutions, so admirably fostered and oglicected by the council, renders more pressing than a ever the crowning of the work of technical education by adequate opportunities for the most advanced teaching and for research. In the striking report presented to the council by its Technical Education Board last July, on the application of science to industry, it is clearly shown that several of our industries have suffered and are still suffering, from our failure to organise, not so un much technical education of the ordinary type as un the more advanced instruction in scientific and technology and facilities for original research. The are report points out that in other countries special attention has long been paid to the highest technical captains of industry, the swilled lieutenants and de confidential assistants in every branch of commerce 00 report points out that in other countries special attention has long been paid to the highest techni-cal training of those who will become, if not the captains of industry, the skilled lieutenants and di-confidential assistants in every branch of commerce-or manufacture. Perhaps the most perfect instance of such provision is the great Onlinge of Applica the Science at Charlottenburg, alongside of the University of Berlin, erected at an outlay exceeding H £500,000, and costing £55,000 a year. From its portals there issue every year some one thousand two hundred young men of twenty-two or twenty-three years of age, equipped with the most perfect train-ing that science can give, as experts in chemical we technology, electrical engineering, metallurgy, shipbuilding, &c. Of these the ablest are eagerly, sought after by the great industrial combinations of the German Empire, which owe their remarkable success in no small degree to the quite exceptional wealth of scientific knowledge and training which is thus placed at their disposal.

wealth of scientific knowledge and training which^w is thus placed at their disposal. It is clear that in spite of all that has been done^w in various directions, London is still very inade-quately provided with educational opportunities of this advanced kind. For lack of such opportunities our London young men often find the highest place filled by the better educated Germans; and scien-tific researches, even when carried out here, now often benefit our trade rivals.

the researches, even when carried one here, here, often benefit our trade rivals. It is little short of a scandal that our own able and ambitious young men, eager to equip them-selves with the most perfect technical training, should be compelled to resort to the universities of Germany or the United States. It is not right that picked students from Canada or Australia, South Africa or India, should be unable to find within the Empire the educational opportunities that they need. The time has come for making-London, at any rate so far as advanced work in scientific technology is concerned, the educational centre of the Empire. I gather from the council's resolution last July, by which it instructed the Technical Education Board to bring up further proposals on the subject, that your colleagues are impressed with the need for action in this matter. The initial difficulty, which has so far stood in the way, is doubtless the

that your colleagues are impressed with the need for action in this matter. The initial difficulty, which has so far stood in the way, is doubtless the heavy capital outlay needed for the spacious site and buildings, and the costly equipment, which a London "Charlottenburg" would involve. I have go a reason to hope that this difficulty may now be Varome.

An offer has been made by Messrs. Wernber, Beit, and Co. to place a large sum of money in the ands of trustees to be applied as a contribution owards the cost of tailding and equipment, and har offers of the same kind have been made by r public-spirited London citizens. The next question is that of a site. This I have a to the block that the Reval Commissioners Wernher,

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the 1851 Exhibition may be graciously willing, view of the national importance of this proposed binds to place at the disposal of the trustees, on ordition that funds sufficient for building and equip-ment have been subscribed, and that an adequate provision is made for maintenance. The form which the grant from the Royal Commissioners may not improbably assume is about four acres of the adjacent to the present university buildings at South Kensington, in close proximity to the Royal College of Science and the Central Technical College of Science and the Central Technical College of the City and Guilds of London Institute. On this site it is proposed to erect and equip the new institution. The cost of doing so is estimated at about £300,000. The institution when complete, together with the site, would represent a value of about £500,000. about £500,000.

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at about 2500,000. The institution when a value of together with the site, would represent a value of about 2500,000. In estimating at 2300,000 the cost of construction, I do not suggest that that sum will provide a completed home for our institution when it shall have reached its full development, but I use the figure for the purpose of this letter, because I believe that it fairly represents the cost of a building adequate for our immediate needs, and capable of extending pari pass with the growth and requirements of the institution. There remains the question of the necessary provision for the maintenance of the educational work of the proposed institution, which cannot be put at less than £20,000, an annual grant which need not, however, begin for a year or so. For this sum, necessary as it is to secure for London the valuable donations which I am privileged to announce, I venture to approach the London County Council. As with the cost of construction so with that of maintenance I do not doubt that the sum named will need to be largely increased when the scheme has established itself in public estimation, and has received such further pecuniary support as will enable it to extend its teaching to other branches of scientific study. But £20,000 per annum will, I am assured, provide for the entire maintenance of the institution from the first, and will secure it against all risk of failure from want of income in the objects we have so much at heart. The details of the organisation of the proposed institute have not yet been settled, and they will be considered in consultation with the Senate of the university and other bodies concerned. It is proposed that the institution, while working in close co-operation with the Royal College of Science, the

institute have not yet been settled, and they will be considered in consultation with the Senate of the university and other bodies concerned. It is pro-posed that the institution, while working in close co-operation with the Royal College of Science, the Central Technical College, and other branches of the university, should be organised as a distinct "school" of the university under the management of its own committee, a committee on which I hope the London County Council will consent to appoint representatives. "It would, of course, direct its attention, from the first, not to duplicating or overlapping any provi-sion now existing in London, but to supplementing that provision by taking up subjects as yet undealby with, or only inadequately dealt with. Such sub-jects would probably include chemical technology, mining and metallurgy, electro-chemistry, electric traction, optical technology, bacteriology, railway and marine engineering, hydraulics, and naval architecture. It is intended to admit only advanced students able to profit by the instruction and facilities for original research which will be pro-vided, but the institution will be made accessible by low fees and scholarships, by means of which I hope many of the ablest of those whom the London County Council is now training in the polytechnics and elsewhere may be enabled to raise themselves to the highest positions in the world of scientifio industry. To enable the arrangements to be completed it

to the highest positions of the industry. To enable the arrangements to be completed it is necessary that I should be in a position to assure those concerned of my confidence that the London County Council, acting as the technical education authority for Londom, will not refuse to the institution its annual support to the extent indicated. The council cannot, of course, bind its successors, but I feel sure that any general resolution to this effect would be accepted as sufficient by those whose munificent proposals I am authorised to 3

The council cannot, of course, bind its successors, but I feel sure that any general resolution to this effect would be accepted as sufficient by those whose munificent proposals I am authorised to communicate to you. At the request of the first donors I have agreed to act as chairman of a body of trustees to carry out the scheme to completion. Among these trustees will be the Duke of Devonshire, Mr. Arthur Balfour, Sir Francis Mowatt, Mr. Julius Wernher, Mr. R. B. Haldane, and the Vice-Chan-cellor and the Principal of the University of London, together with, if they will consent to act, representatives of the London County Council, as the technical education authority for London. Should this scheme be successfully carried through I am not without hope that it may be possible to follow it up by taking further steps towards developing the university in such a fashion as to make it worthy to be the university of the Metropolis of the Empire.—Yours sincerely, The Lord Monkswell, BOSEBERY. Chairman of the London County Council.

8

TRADE OF THE EMPIRE.

IMPORTS AND EXPORTS.

THE POSITION OF THE FOREIGNER.

In view of discussions respecting the fiscal policy of the country it may be useful to furnish in a concise form, from statistics compiled mainly by the Colonial Office, a statement of the aggregate trade of the Empire. The latest period of twelve months for which a record of this kind can be presented is 1901, and what is given below may be taken as substantially for that year. The survey is made under the following four heads : (1) The total trade (imports and exports) of British Colonies and possessions with the United Kingdom.

Colonies and possessions with the United Kingdom.
 (2) The total trade (imports and exports) of British Colonies and possessions with other British possessions.
 (3) The total trade (imports and exports) of British foreign

Colonies and possessions with foreign countries.

(4) The total t United rade (imports and exports) of the Kingdom itself with foreign the trade (imports and countries only.

IMPORTS BY COLONIES AND POSSESSIONS. brts of British Colo heads one, two, and three are imports Colonies DOSSO s follow:

From (1) the United Kingdom...£113,196,500 From (2) other British Possessions 31,214,000 88,061,000 From (3) Foreign Countries

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RATIO FROM THE FOREIGNEE 38 PER OEM These totals are exclusive of Inter-State lian trade, which in 1901 was valued RATIO FROM THE FOREIGNEE 38 PER CENT. These totals are exclusive of Inter-State Aus-tralian trade, which in 1901 was valued at £21,111,000. They also exclude bullion and specie, which during 1901 amounted to £23,013,500, made up as follows. From the United Kingdom, £10,208,500 ; from other British possessions, £11,137,000 ; and from foreign countries, £1,668,000. The subjoined tables show the extent o which the various Australian Colonies and other British possessions shared in the totals of the mports indicated under heads one, two, and three :

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			28,821,000	1.5
wfoundland	458,000	582,000	473,000	10
rmuda	386,000	53,000	305,000	1.1
itish Honduras	77,000		169,000	1.5
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maica	838,000	135,000	758,000	15
Lucia	204,000	40,500	130,000	II
Nincent	32,000	27,000	16.000	3
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enada	114,000	53,000	74,00000	192
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To (1) the United Kingdom £92,849,500

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Total£226,522,500 RATIO TO THE FOREIGNEE 43 PER CENT. e also exclusive of Inter-St as which in 1901 was valued at e totals are and ian trade, which in 1901 we 7,000. They likewise exclude bullion and which during 1901 amounted to £27,425,500, up as follows: To the United Kingdom, 3.500; to other British possessions, foreign countries, £4,553,500. These totals are ustralian 221, 307,000. becie, which during 1901 and hade up as follows: To the United Kinguon, 212,073,500 ; to other British possessions, 210,798,500 ; and to foreign countries, £4,553,500. The subjoined tables show the quotas of the various Australian colonies and other British pos-tessions towards the aggregates of exports just Ł t c'he elessions towards stated : British Colonies and Possessions. To British To the United 8 Foreign Countries. •4 Possessions.

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 *Aust Kingdom. £ 576,000 6,914,000 5,245,000 ¢ 2,284,000 940,000 5,481,000 19,000 955,000 834,000 2,547,000 806,000 10,174,000 18,798,000 5,481,000 purew Zealand 673,000 44,281,000 15,628,000 902.000 0,295,000 purlew Zealand "eriptical (by sea) "eriptical Settlements suf Selavitius Suf Subles "Suf Subles "Subles "Su 0,757,000 5,094,000 3,340,000 216,000 18,276,000 2,763,000 83,000 40,000 13.000 76,000 2,000 280,500 521,000 37,000 106,000 653,000 9,9\$5,000 Pf atal MOU ape of Good Hope L. Helena Douplod Coast. Souplod Coast. Solution Leone Jo Solution of Canada Operiewfoundland... Buonermuda n f 548,000 262,0(:0 160,000 236,000 229,000 85.000 14,000 e 18.000 55,000 27,000 2,00 ť 651,000 \$75,000 \$,000 676,000 iı 87,000 90,000 03,000 Pritish Honduras ahanas qoiqu'uris and Calcos Islands proorit. Lucia Olquyst. Vincent Suoji'rrenada. Aluo Trinidad and Tobago. Aluo Trinidad and Tobago. Aluo Trinidad and Tobago. Uluo Trinish Chinana Boun Crprus ouop ritish Honduras iı ġ n 349,000 01 83 4,000 81,010 58,000 27,000 is 199,000 to 000 239,000 8 m 97,450,500 p b PART FOREIGN TRADE OF THE UNITED KINGDOM. If u There remains to be stated the purely foreign in the trade (imports and experts) of the United Kingdom, 14) this category forming the last of the four sections 15) the which the trade of the Empire is divided at 15) the beginning of this article. The value of the 15) the beginning of this article. The value of the 15) the beginning of this article. The value of the 15) the beginning of this article. The value of the 15) the beginning of this article. The value of the 16) the beginning of this article. The value of the 16) the beginning of this article. The value of the 16) the beginning of this article. The value of the 16) the beginning of this article. The value of the 16) the beginning of the value of the 16) the beginning of the value of the value of the 16) the beginning of this article. The value of the 16) the value of the value of the 16) the value of the value of the 16) the value of the value of the value of the 16) the value of the value of the value of the 16) the value of the value of the value of the 16) the value of the value of the value of the 16) the value of the value of the value of the 16) the value of the value of the value of the value of the 16) the value of the value of the value of the value of the 16) the value of the 16) the value of t ec oí Ca ve th It Imports£416,416,492 Exports£75,233,975 mi uque It Exports ujyear. GENERAL REMARKS. The Constraints of the different tables are exclusive of Southe trade of Hong Kong, Gibraltar, and Malta. point regard to India, Jamaica, Trinidad and Tobago, qoopthe Leeward Islands, and British Guiana the tereoreturns are for the year ending the 31st of March, 1902, while the figures for British New fundGuinea, the Dominion of Canada, and Newfound-load and are for the twelve months closing on the 30th of June, 1901. The totals for the Bahamas are not sun for a year but for the fifteen months ending on the 31st of March, 1902. The exports to the United SurKingdom from Natal include coal, &c., for his "Agiesty's ships and transports, while the St. Lucia "aports exclude £110,000 for bunker coal. The ates at which various currencies have been con-top (erted into pounds sterling are as follows: Ceylon, GENERAL REMARKS. u cir tio in de Past re W (f co Ates at which various currencies have been con-inoverted into pounds sterling are as follows: Ceylon, Mutauritius, and Seychelles, 1s. 4d. the rupee; Straits Settlements, 1s. 11d., and Labuan, 4s. 2d. he dollar; and Canada, Newfoundland, and NIH^British Honduras, 4s. 1¹/₂d. the dollar. 2 po We in FOR RAGGED SCHOOL CHILDREN. ob III Mr. F. Warman, 161, Highbury New Park, hon. superinflo endent of the Rosemary Mission and Ragged Schools, makes in urgent appeal for funds in order to provide a day in the du pountry for the poor children connected with these useful im institutions, which carry on their operations in a poverty- im

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