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Thwaites, F. T. (Fredrik Turville), 1883-1961

[s.l.]: [s.n.], 1930-1960

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WESTERN UNION

SIGNS

- DL = Day Letter
- NM = Night Message
- NL = Night Letter
- LCO = Deferred Cable
- NLT = Cable Night Letter
- WLT = Week-End Letter

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Received at 21 West Main Street, Madison, Wis. Telephone Badger 4321 Always Open 1931 FEB 20 PM 9 08

C417 42 NL=CHICAGO ILL 20

F T THWAITES= *Science Hall*

ROUTE PHONE MADISON WIS=

DOCTOR PETTIJOHN BELIEVES THROUGH ME THAT YOU HAVE LITERATURE ON PETROLOGIC VARVE CORRELATION STOP IS ELLSWORTH THESIS ONLY WORK AVAILABLE WILL BE IN MADISON WEEKEND AND PETTIJOHN WOULD LIKE TO SEE THE MATERIAL AT YOUR CONVENIENCE PERHAPS I COULD BRING IT BACK=

RANDALL WRIGHT..

71940 R
Mrs F Thwaites
740-21
to be

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON

17

JAN 23 1931

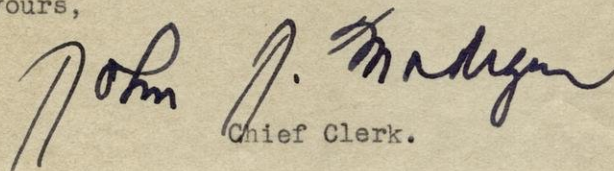
Mr. F. T. Thwaites,
Science Hall,
Madison, Wis.

My dear Mr. Thwaites:

In response to your letter of January 14:

Note has been of your change of address for the monthly announcements of new publications. The lists of publications specially desired, except 274, of which there are no copies, are inclosed with this letter.

Very truly yours,


Chief Clerk.

Inclosure 2359

Jan. 14, 1931

Director, U. S. Geological Survey,
Washington, D. C.

Dear Sir:

Please change my address for mailing lists of publications to:

F. T. Thwaites,

Science Hall,

Madison, Wisconsin

I am no longer Curator of the museum and do not want mail to go to the new incumbent of that office.

I am missing the following lists of publications which I would like to have if still available:

245 to 252, (inclusive), 254-256, 262-265, 267-268, 272

Very truly yours,

F. T. Thwaites, Lecturer in Geology, U. of Wisconsin

Sept. 16, 1930

Dr. E. O. Ulrich,
U. S. National Museum,
Washington, D. C.

Dear Dr. Ulrich:

I wish to thank you for the copy of your paper on the Cambrian of the
Upper Mississippi Valley published by the Milwaukee Museum.

Very truly yours,

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON

November 9, 1932.

Dr. F. T. Thwaites,
Department of Geology,
The University of Wisconsin,
Madison, Wis.

My dear Doctor Thwaites:

I have received your letter of November 7 to Doctor Mansfield, who is out of the city on a brief western field trip.

Colonel Martin has not done any recent work on the material for the report on the Sparta and Tomah quadrangles, Wis. He requested that it be sent you as you would be able to work on it before he could.

The lettering of the drawings should be done in pencil rather than with Wrico lettering guides, as they are probably in good enough form not to require redrawing by a draftsman in this office to prepare them for publication. If it were necessary to have the illustrations redrawn here, it would not matter how the lettering is done provided it is legible.

If you will explain what sections of the report you may wish to publish elsewhere, I shall be better able to tell you whether such publication is desirable from the standpoint of the Geological Survey.

Very truly yours,

T. A. Stanton
Chief Geologist.

Nov. 6, 1933

Mr. John Voss,
High School,
Peoria, Illinois

Dear Sir:

If you have available any more reprints of your recent paper on "Pleistocene forest of central Illinois" I would be most pleased to have one. I have made a special study of the Pleistocene for some years and have visited the Farm Creek exposures east of Peoria several times.

Very truly yours,

F. T. Thwaites, Lecturer in Geology

Nov. 28, 1933

Mr. John Voss,
200 Dixon Ave.,
Peoria, Illinois

Dear Mr. Voss:

I wish to thank You for the copy of your paper on the Pleistocene flora in your vicinity which came several days ago. I have read the same with much interest as I have seen several of the localities and collected samples from some of them. This has certainly been a neglected field and it is a good thing that some people are now going into it.

Very truly yours,

F. T. Thwaites, Lecturer in Geology

THE UNITED LIGHT AND POWER COMPANY

SUITE 2200 BANKERS BUILDING

105 WEST ADAMS STREET

CHICAGO, ILLINOIS

OFFICE OF
L. H. HEINKE
VICE PRESIDENT AND TREASURER

April 29, 1933

CABLE ADDRESS
TULAPCO - CHICAGO

Mr. and Mrs. F. T. Thwaites
R. F. D. 4
Madison, Wisconsin.

Dear Sir: and Madam:

We thank you for the copy of your
excellent letter of April 27 addressed to Senator Duffy.

We appreciate your help.

Very truly yours

A handwritten signature in cursive script, reading "L. H. Heinke". The signature is written in dark ink and is positioned above the typed name of the Vice President and Treasurer.

LHH:k

Vice President and Treasurer.

June 22, 1934

Dr. W. A. VerWiebe,
University of Wichita,
Wichita, Kansas

Dear Dr. VerWiebe:

Yours of the 18th is at hand. Reply was delayed because I was out studying the route for the 1935 Kansas Geological Society conference.

I would be glad to make the exchange you mention but as I have only the two desk copies of my Outline which have note in them for future editions I do not see just how I can send one. Possibly you could arrange the matter through Edwards Brothers. All the rest of the books are still in their hands.

Monday I leave for the field to work with a Penrose grant. I hope to finish up the area I worked on from 1926 to 1928 and get a report ready for publication during the winter.

With best regards,

Sincerely,

F. T. Thwaites

THE MUNICIPAL
UNIVERSITY OF WICHITA
WICHITA, KANSAS June 16, 1934.

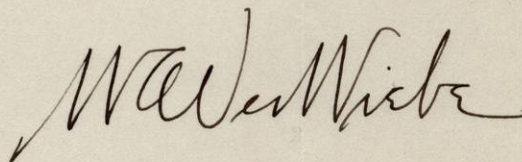
Dear Friend Thwaites:-

I have just received a letter from Edwards Brothers in regard to your book on OUTLINE OF GLACIAL GEOLOGY.

I am very anxious to see a copy of this book and am looking forward to using it in my classes next fall. Inasmuch as Edwards Brothers have also published my book on HISTORICAL GEOLOGY it has occurred to me that you might be willing to exchange. If you do not have a copy of my book as yet I shall be glad to send you one from here in return for one of yours,

Hoping that you in good health and looking forward to spending an enjoyable vacation, I remain

Very cordially yours,

A handwritten signature in cursive script, reading "Walter Wiebe". The signature is written in dark ink and is positioned below the typed closing of the letter.

December 6, 1933

Dr. W. C. Mendenhall, Director,
U. S. Geological Survey,
Washington, D. C.

Dear Dr. Mendenhall:

I wish to thank you for sending the samples from Wisconsin wells as requested by Mr. Bean in letter of November 28. Doubtless these were overlooked in 1912 when the rest of your collection was presented to the University to form the start of what is now a very large collection on which I have worked ever since. Two of the sets sent now fill important gaps in our information.

Very truly yours,

F. T. Thurmites, In charge of well records,
Wisconsin Geological Survey

Spauldine well W 1703. 10 SW 5E at Washburne



Dr. Frederick I. Thwaites
Professor of Geology at
University of Wisconsin

MADISON

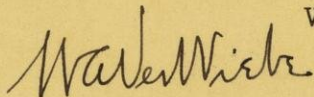
Wisconsin

Wichita, Kansas Mar. 30, 1934

Dear Friend Thwaites:

The reprint of your paper has been received. I wish to assure you that your courtesy is very much appreciated. A very interesting and important contribution to our knowledge of subsurface data on Northern Michigan

Very respectfully yours,



W. A. Ver Wiebe.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON

MAY 14 1935

Prof. F. T. Thwaites
The University of Wisconsin
Department of Geology
Madison, Wis.

Dear Professor Thwaites:

Your letter of May 8, recommending Mr. Horace Winchell for employment by the Survey, has just been received. It will be filed with Mr. Winchell's application and given consideration should there be any opportunity to offer him temporary employment in a Survey field party.

Very truly yours,


Chief Clerk.

May 8, 1935

Mr. R. W. Shelsø, Chief Clerk, U. S. Geological Survey,
Washington, D. C.

Dear Sir:

Mr. Horace Winchell attended the week field trip in topographic mapping for geologists at Devils Lake this spring. Training was given in use of the planetable both with telescopic and opensight alidades, also compass, aneroid barometer, handlevel, etc. Mr. Winchell's work was very satisfactory throughout. I am sure he would make a very good field assistant.

Very truly yours,

F. T. Thwaites, Lecturer in Geology

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON

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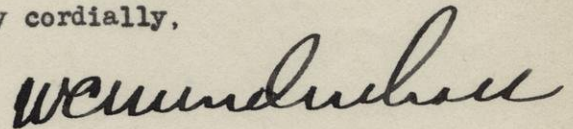
NOV 29 1935

Mr. F. T. Thwaites,
Science Hall,
University of Wisconsin,
Madison, Wisconsin.

My dear Mr. Thwaites:

At the suggestion of Dr. C. K. Leith, the Geological Survey is sending you under separate cover, in appreciation of your cooperation in its preparation, a copy of Professional Paper 184, Pre-cambrian rocks of the Lake Superior Region, with revised geologic map.

Yours very cordially,



Director.

March 9, 1936

C. W. Varner
2054 Marshall St.
Dubuque, Iowa

In connection with the new well at Sturgeon Bay, Wisconsin, the question has been asked as to the Natural artesian flow of the two largest wells in Wisconsin drilled prior to this one which supplies about 1000 g. p. m. So far as our records go, the largest well in sandstone which I recall was at Prairie du Chien-604 g. p. m. when finished. The Rockfield well described in Bulletin 35 seems to hold the record 1300 g. p. m. for the Niagara. Any additions or corrections will be greatly appreciated.

Very truly yours

WISCONSIN GEOLOGICAL SURVEY

By

F. T. Thwaites, Geologist in charge
of Well Records

FTT MA

GENERAL OFFICES
120 BROADWAY NEW YORK



AMERADA PETROLEUM CORPORATION
PETROLEUM BUILDING
TULSA, OKLA.

March 2, 1936

Mr. F. T. Thwaites
University of Wisconsin
Madison, Wisconsin

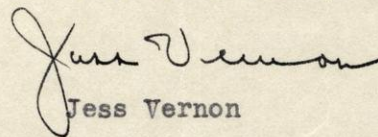
Dear Mr. Thwaites:

I received the bulletin on the Cambrian Strata of Wisconsin, with your compliments, and wish to thank you for your kind remembrance.

The American Association of Petroleum Geologists meets here in March. Shall we see you then or by any chance will some of your staff attend? I would be glad to renew our acquaintance.

Thanking you again for the bulletin, I am

Very truly yours,



Jess Vernon

JV:bb

GENERAL OFFICES
120 BROADWAY NEW YORK



AMERADA PETROLEUM CORPORATION

PETROLEUM BUILDING

TULSA, OKLA.

September 25, 1935

Dr. F. T. Thwaites
R.F.D. #4
Madison, Wisconsin

Dear Dr. Thwaites:

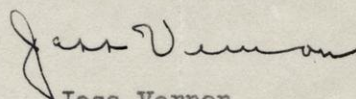
I received yours of September 16th, with the two pictures enclosed. Thank you very much for the pictures. I sent one of them on to Mr. Denison at Fort Worth.

The men that took the Kansas geological trip returned with the highest of praise for your men that were responsible. Many of them report it the best of all.

I am glad to hear them say good things about you, because I know you worked hard to get everything arranged.

When you come to Oklahoma, we will be glad to see you and will try to return some of that hospitality.

Sincerely,



Jess Vernon

JV:bb

THE MUNICIPAL
UNIVERSITY OF WICHITA

WICHITA, KANSAS Nov. 15, 1935

Dear friend Thwaites:-

Your letter of the 19th reached me. I regret that it has been impossible to answer it before now. We have all been over busy since we returned because we all gave too much time to the guidebook during the Summer months.. Now it is necessary to make up for lost time.

Mr. Folger has also had the additional worry of finding funds to pay for our interesting experiment. Few people realize that it took \$8000 and over to finance this last year's field conference and that less than half of this amount has been taken in to cover it. Needless to say the Society is not an oil company and money to them is real money. So you can see why Folger has been somewhat negligent about sending the maps ~~back~~.

Personally I have been busy revising my book on HISTORICAL GEOLOGY. I am anxious to have it appear in print before the second semester begins. It has been a real task, but thank goodness is almost finished. In addition to this I have been working on a radio address which our local station has agreed to broadcast. It is one of a number from various departments of the University. Since it is specified that it must be entertaining as well as scientific, I have found it a real problem.

How have the members of the Univ. of Wisconsin recovered from the demands made upon it last year and during the Summer in connection with the Conference?

Please give my regards to Raasch, Beys ~~and~~ Twenhofel and Leith.

Very cordially yours,

W. Van Winkle

January 23, 1935

Mr. C.W. Varner
2054 Marshall St.
Dubuque, Iowa

Dear Sir:

Enclosed you will find one blue-print log of the
City Well #4 at Brodhead, Wisconsin.

Yours very truly,

WISCONSIN GEOLOGICAL SURVEY

In Charge of Well Records

FTT:JH

COLLEGE OF ARTS AND SCIENCES
CORNELL UNIVERSITY
ITHACA, NEW YORK

DEPARTMENT OF GEOLOGY

July 22, 1938

Professor F. T. Thwaites
Science Hall
Madison, Wisconsin

Dear Professor Thwaites:

We have effected, recently, a change in our program here, and now have a basic course, Geology A, which runs through the year. In connection with the laboratory work for this course we need a number of copies of a structural geology map of Appalachian folding and faulting. The Monterey Va., W.Va. economic geology sheet from the folio of the same name seems best to serve this purpose. But the U.S.G.S. no longer has this sheet in stock and we are advised that there is no prospect that it will be reprinted - or any of the similar sheets.

However, the Survey has the plates for contours, culture and formation boundaries, and hydrography. From these a three color printing job (done privately, Survey lending the plates) can be done at a not prohibitive cost. But an edition of 1000 would need to be ordered.

Accordingly, I am inquiring whether you could use a number of these sheets at the cost of 50¢ each. A student or a girl could be hired to color the formations with crayons and such a hand job, if done with care, could rival the printed color work. Of course you understand that the folio map, of which it is presumed you have a copy, will serve as a model.

If you are interested in our Manual (mimeographed, about 150 sheets) we think we will have enough of a supply in the fall that we could send a copy postpaid for \$1.25.

I am sending out these mimeographed inquiries to a number of people who might be interested. A reply, even if only a post card saying simply "not interested" will be much appreciated.

Very truly,

O. D. von Engel

O. D. von Engel

*We are not interested in the
reprints of the Monterey sheet mentioned
in yours of July 22.*

*I may discuss your recent paper on
glacial recession soon and would
appreciate a reprint.*

August 1, 1938

Mr. O. D. von Engel
Department of Geology
Cornell University
Ithaca, New York

Dear Mr. von Engel:

We are not interested in the reprints of the Monterey sheet mentioned in yours of July 23d.

I may discuss your recent paper on glacial recession soon and would appreciate a reprint.

Very truly yours,

F. T. Emmons



Dr. F. T. Thwaites
Geology Department
Univ. of Wisconsin

MADISON

WISCONSIN

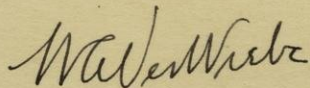
Wichita, Kansas

Dear friend Thwaites:-

The reprint of your paper has been received. I wish to assure you that your courtesy is very much appreciated.

CAMBRIAN STRATA OF WISCONSIN

Very respectfully yours,



W. A. Ver Wiebe.

THE MUNICIPAL
UNIVERSITY OF WICHITA
WICHITA, KANSAS

March 23, 1937

Mr. W. T. Thwaites
University of Wisconsin
Madison, Wisc.

Dear friend Thwaites:

It appears probable that we shall be able to add another member to the staff of geology teachers next year. If you know of someone ^{student} ~~one~~ in your department whom you could recommend highly, please tell him to get in touch with me immediately.

Hoping that you are enjoying your usual good health and that I may have the pleasure of seeing you at the next meeting of the Geological Society, I remain

Very cordially yours

W. A. Ver Wiebe

W. A. Ver Wiebe

WVW:E

allan Ostrander Wash U. St Louis

March 25, 1937

Professor W. A. Ver Wiebe
University of Wichita
Wichita, Kansas

Dear Dr. Ver Wiebe:

Yours of the 23d is at hand. I have gone over the matter with Dr. Winchell and I do not know of any student at present in the department who would be interested in your position. However, Mr. Allan Ostrander, who took his Master's degree here some years ago, is now at the Department of Geology, Washington University, St. Louis, Missouri. It is very likely he would be interested in the position.

He worked with me on the subsurface geology at Waukesha, which resulted in finding a new water horizon, and I also supervised his thesis on the Hamilton Mounds - the newly discovered quartzite area in central Wisconsin - although Professor Twenhofel signed the thesis. I do not know much about his work since he left here. I understand he has nearly completed his doctor's thesis.

Best wishes.

Very truly yours,

FTT:N

F. T. Thwaites

May 2, 1938

Prof. W. A. VerWilke,
University of Wichita,
Wichita, Kansas

Dear Prof. VerWilke:

Reply to yours of April 22 was delayed by the abundance of field trips. I talked over the matter with Dr. Winchell and we concluded that the only one of our graduates who would be interested is

Drindak. He has done considerable work for the State Survey on both road materials and lime and has been very highly recommended by Mr. Bean. His work with me has always been of the best quality. I have no hesitation in saying that he is a good man for the place. I think that he is married.

Of graduates no longer here but not placed to my knowledge there is Allan Ostrander who I mentioned last year. I think he is still at St. Louis but am not sure, nor do I know much about his work after leaving here some years ago.

With best regards to you and to the others I know in Wichita,

Sincerely,

GEOLOGY DEPARTMENT

W. A. VER WIEBE, PETROLEUM GEOLOGY

BYRON N. COOPER, PALEONTOLOGY AND STRATIGRAPHY
ROBERT M. RIGG, PETROGRAPHY AND STRUCTURAL GEOLOGY

THE MUNICIPAL
UNIVERSITY OF WICHITA

WICHITA, KANSAS April 22, 1938

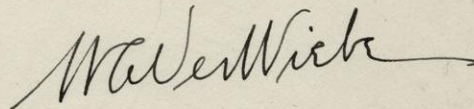
Dear friend Thwaites:-

I am writing to ask your confidential advice about some of the men who finish their geological training at Wisconsin this Spring. We need an Instructor for next year. He will replace Mr. Rigg whose name you see above and will handle Mineralogy and general geology. The salary will be 1600 the first year.

Thanking you in advance for your trouble and information

I remain

Very cordially yours,



Dundak or Ostermer
Ocherman

HERBERT C. W. VON EIFF

Houston Texas
March 4, 1938

Mr. Fredrik T. Thwaites
Science Hall
University of Wis.
Madison, Wisconsin

Dear Mr. Thwaites:

I am very sorry that I was unable to see you directly as I left, as I did so rather at short notice. I instructed Bemis to take care of the blue print work of which I am informed that he has. I seemed to be feeling worse every day that I stayed in the north and coming south here has helped me a great deal and I hope to be able to stay for a while. I have it in mind that I should like to do some sort of light outdoor exercise, and as something geological would be best suited for me, I will be in Houston for a time to see if I cannot get some sort of employment in West Texas. Hiring is usually done out of the main office here. This is certainly about the dampest spot that it has ever been my lot to be in.

I hope I will not be here long. I should like to have your permission to use your name as one who has been acquainted with me - if I should be so asked. It would be desirable if you would neglect to say anything about my health as I am sure it will improve. As for being physically strong, I am of course ok. But whether anyone will write to you concerning me is of course a matter of speculation.

I hope you have successfully eluded the problem of having girls on the mapping trip and get a good place to stay there for the field season.

I guess that's an annual problem.

I have met Floke, who appears to be getting along all right with the Houston Oil Co. Benish has a good situation at Aransas Pass in charge of some field operations. He is coming up to visit me tonight. Atwater, Burkhead and Fields seem to be all well fixed. - and that is about the limit of my acquaintances here.

I trust that you are enjoying the best of health.

My best regards,

General Del. Houston, T.

Herbert C. Von Eick

March 8, 1938

Mr. Herbert G. W. Von Eiff,
General Delivery,
Houston, Texas

Dear Mr. Von Eiff:

I was much pleased to get yours of the fourth. Certainly you may use my name as a reference. But you will have to pass a medical examination to get a job with a major company. I trust your trouble is not such as would lead them to disqualify you. Also I was thinking that the medical advice here was rest first, wasn't it. Climate alone is not always sufficient unless work is very light. I should think that you could do sample grabbing or watching of drilling wells without danger, however. Anyhow, I hope you can get something along this line and will not say anything about the health angle myself.

There is only one girl in mapping this year, and she is Chamberlin's sister. I have not yet decided to take her on the Devils Lake trip. The class numbers 15 with her and they all seem to be workers. Glacial numbers 13 and physiography 21. It is enough to keep me busy, I can assure

Was glad to learn that Dake and Benish again have jobs. The current "Recession" seems to be affecting the oil business as well as other things but I should think that with the number of Wisconsin men in Houston you ought to land something soon.

COLLEGE OF ARTS AND SCIENCES
CORNELL UNIVERSITY
ITHACA, NEW YORK

DEPARTMENT OF GEOLOGY

August 8, 1938

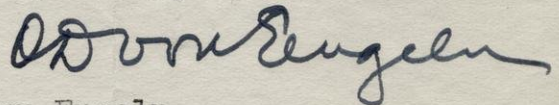
Professor F. T. Thwaites
Department of Geology
Science Hall
University of Wisconsin
Madison, Wisconsin

Dear Professor Thwaites:

I am somewhat at a loss in regard to your request for a reprint of a paper by me "on glacial recession" as I can't see where I am guilty on this count.

However, I am sending you some recent things, mine and my students, that may have some interest for you. These go forward under separate cover.

Yours very truly,



O. D. von Engeln

ODvonE:mb

Nov. 18, 1936

Mrs. Nels Vedvik,
R. F. D. 2,
Oregon, Wisconsin

Dear Molla:

When Mr. Thwaites was down after eggs last Sunday
he made a mistake and paid you a dollar too little.
Probably the "Indians" running across the road disturbed him.
The enclosed bill will make it right.

Sincerely,

Amey M. Thwaites

To promote a fair and uniform understanding between employers and students who work for room and board in homes, the following standards and schedule of hours are advocated with the suggestion that they be freely discussed before a final agreement is made.

HOURS For room and meals, 25 hours of work a week. In addition, the student is expected to stay in 3 evenings a week with children asleep, where the time is free for uninterrupted study. The student should have either Friday or Saturday evening off and be free on Sunday after the noon meal work. If the student does not come home at noon, an allowance to buy lunch is furnished. (See attached sheet for schedule of work for room and part meals, and for day work or odd jobs.)

It is understood that the student has a separate room, and transportation to and from school if the home is beyond walking distance. Bedding and towels are furnished, but the student should bring shoes and clothing suitable for housework.

A DEFINITE SCHEDULE OF WORK AND OF WORKING HOURS SHOULD BE PLANNED AND POSTED ON THE KITCHEN WALL WHERE IT CAN BE EASILY SEEN. THE SCHEDULE, ONCE HAVING BEEN AGREED UPON, SHOULD NOT BE CHANGED EXCEPT BY MUTUAL CONSENT. The student should not be expected to get up before 6:30 A.M., unless it be to tend to the furnace. For a student who lives in the employer's home, the work should be completed by 8 P.M. Responsibility for staying in with children asleep should not keep the student up after 11 P.M. The householder should realize that the student is not a full-time trained maid.

KIND OF WORK The usual duties for girls are among the following - dusting, sweeping, light cleaning, ironing, preparation of meals, serving, dishwashing, care of children, mending. A girl should never be required to do heavy lifting, heavy washing, or heavy cleaning.

Boys do heavy cleaning, tend furnace, shovel walks, outdoor labor, help with meals, serve, wash dishes, care for children, and various repair jobs.

WORKING TIME Any time that a student gives to the employer so that he or she cannot study or play is work time. For instance, time assigned to play with children where the student is responsible for their welfare, or time assigned to put a child to bed, is work.

Students are expected to be at work punctually and to work with reasonable speed and efficiency, due to previous training or interest in home making. A student who is slow and unfamiliar with housework may need to make some adjustment as to work hours and school schedule. During work hours, the student should remember that the time belongs to the employer and should not use the telephone for personal calls or try to read or study.

EXTRA TIME Extra time asked by the employer should be compensated by the same amount of time off the usual schedule, or with pay at 50 cents an afternoon or evening for care of children, and 25 to 35 cents an hour for heavier work. For a definite regular amount of over time, a weekly rate is usually made. If the student asks for time off, the equivalent time should later be given to the employer. It is suggested that extra time should seldom be asked by either student or employer.

VACATIONS AND HOLIDAYS A definite agreement as to holidays and vacations should be made when the student is employed. A student is expected to remain for a semester and the employer is expected to keep the student for a semester unless unusual conditions arise.

PERSONAL RELATIONS The student and employer should decide such matters as whether or not the student will eat at the table with the family, whether the personal laundry will be done by the student or with the family laundry, whether week end trips may be made to the student's home.

UNIVERSITY OF WISCONSIN

Additional Schedules for service in a home, and rates for odd jobs -

For room and 2 meals daily 18 to 21 hours of work a week
For room and 1 meal daily 10 to 14 " " " " "
(Variation in number of hours to allow for difference in value of room or
meal - the principal meal is worth more than a light breakfast)
For room only, 7 to 10 hours of work a week. (Variation to allow for value
of room and nature of work)

For day help where lodging is not furnished -

For meals - 1 hour of work per meal.

For occasional odd jobs by the hour, -

50 cents an afternoon or evening for care of children. 25 cents an
hour after midnight.
25 to 35 cents an hour for light housework, cooking, and serving
35 to 40 cents an hour for general labor, heavy cleaning, and janitor
work.
40 cents an hour and up for technical work - electrical repair, radio,
carpentry, painting, etc., for experienced workers.

Rates vary to allow for difference in the speed and ability of the student
and in the nature of the work.

For regular day help, a weekly rate is usually made.

These standards and schedules are advocated for the average home. Since house-
holds differ widely in their needs, exceptions to the above suggestions may be
necessary. PLEASE FEEL FREE TO CALL THIS OFFICE WHENEVER ANY QUESTIONS ARISE.

Undergraduate university women who live in private homes are subject to univer-
sity Women's Self Government Association regulations.

The Wisconsin Industrial Commission lays down the following regulations for
adult women and minors in domestic service -

"WEEKLY BASIS The wage of domestic servants working 50 or more hours per week
shall be computed on a weekly basis as follows:

- a. If board only is furnished - \$6.00 per week.
- b. If board and room are furnished - \$4.25 per week."

The above regulations furnish a basis for computing the value of part-time
student service.

m 8
 J 12 1/2
 W 8
 J 12 1/2
 7 8
 5 6
 5 4

 59

The above regulations apply to all persons employed in the service of the Government.

It is hereby ordered that all persons employed in the service of the Government shall be required to observe the following regulations:

1. All persons employed in the service of the Government shall be required to observe the following regulations:

2. All persons employed in the service of the Government shall be required to observe the following regulations:

3. All persons employed in the service of the Government shall be required to observe the following regulations:

4. All persons employed in the service of the Government shall be required to observe the following regulations:

5. All persons employed in the service of the Government shall be required to observe the following regulations:

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8. All persons employed in the service of the Government shall be required to observe the following regulations:

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12. All persons employed in the service of the Government shall be required to observe the following regulations:

13. All persons employed in the service of the Government shall be required to observe the following regulations:

14. All persons employed in the service of the Government shall be required to observe the following regulations:

15. All persons employed in the service of the Government shall be required to observe the following regulations:

16. All persons employed in the service of the Government shall be required to observe the following regulations:

17. All persons employed in the service of the Government shall be required to observe the following regulations:

RECEIVED
 DEPARTMENT OF THE ARMY
 WASHINGTON, D. C.
 JAN 12 1918

THE UNIVERSITY OF WISCONSIN
MADISON

OFFICE OF THE REGISTRAR

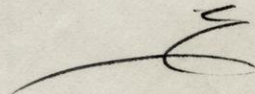
May 2, 1941

Professor F. T. Thwaites:

Mr. G. W. Vaughan changed from 4 to 3 credits of Geology 11 on May 2, 1941; the fee for Geology 11 4 credits is \$4.00 and for 3 credits \$3.00. We are enclosing a refund card so that you may indicate the amount of the refund, if there is to be any.

Will you kindly return the signed half to this office.

OFFICE OF THE REGISTRAR

A handwritten signature in black ink, consisting of a long horizontal stroke followed by a loop and a vertical stroke.

Sept. 29, 1941

Mr. A. J. Vessel,
Box 48,
Rice Lake, Wisconsin

Dear Mr. Vessel:

Thank you for your card of the 18th giving the reference on the slotted template method. Hole got it from the library and we have read it. I may try it with the Mapping Class if I can get proper apparatus.

I am sending you under separate cover a complimentary copy of my book on glacial geology which I thought might interest you.

We tried to get out to the exposures we saw just west of Rice Lake Sunday morning but rain prevented. Both Hole and I greatly enjoyed our visit with you and learned much that will be of value to us.

Best regards,

Sincerely,

July 11, 1941

Mr. A. J. Vessel, Chief of Party,
Soil Survey,
Box 48, Rice Lake, Wisconsin

Dear Mr. Vessel:

Yours of the 10th is at hand.

The situation of Mathiesen's thesis is unusual. After completing it and turning in a version for publication by the Wisconsin Academy of Science he suddenly abandoned his career in geology and turned to Art. For this reason although the paper should be out almost any day no reprints were asked for by him. I also let the matter slide as I did not know that he had lost all interest in the problem. I never had a copy of the typewritten thesis or even of his maps except for the township diagrams.

Mathiesen's home address is Chetek, Wisconsin not far from Rice Lake. A letter sent there would probably reach him. His problem has been taken over by F. D. Hole of Earlham College, Richmond, Indiana. I expect to go on a field conference with him some time next month and am sure both of us would be glad to meet you then. Meantime, I have no authority to give permission for quotations although I would not expect any objection from Mathiesen. The matter of the thesis is one handled by the University Library. Possibly there is an extra copy at Chetek.

Very truly yours,

UNITED STATES DEPARTMENT OF AGRICULTURE

BUREAU OF PLANT INDUSTRY

~~WASHINGTON~~ Box 48
Rice Lake, Wisconsin
July 10, 1941

DIVISION OF
SOIL SURVEY

Professor F. T. Thwaites
Geology Department
University of Wisconsin
Madison, Wisconsin

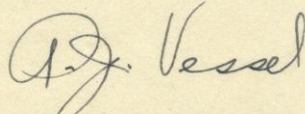
Dear Professor Thwaites:

I have had an opportunity to briefly look over the thesis of John Thomas Mathieson on the Pleistocene of Part of Northwestern Wisconsin. It is an excellent piece of work, and I am much interested in it inasmuch as it has an important bearing on the soil survey of this county. I am wondering if any extra copies of this thesis are available either from you or Mr. Mathieson. I would like to retain a copy for reference during the period of field work and report writing.

I would appreciate permission to reproduce or quote certain sections of this thesis in our soil survey report giving full credit to the author. At present I do not know just what sections because the report will not be written for some time.

If there is any way we can cooperate with you in any further work in this area, we shall be glad to try and arrange it. At present we are mapping in Vance Creek and Turtle Lake townships. I would also appreciate spending some time in the field with you or your staff members whenever you are up this way.

Very truly yours,



A. J. Vessel
Chief of Field Party

Residence address: 11 Stout Street

THIS SIDE OF CARD IS FOR ADDRESS



Professor F. T. Thwaites
Dept. of Geology
U. of Wisconsin
Madison, Wis.

Box 48, Rice Lake, Wis.
Sept. 18, 1941

Dear Professor Thwaites:

Last Saturday I forgot to show you the bulletin on the slotted templet method. This method is described in miscellaneous publication No. 404 of the U. S. Dept. of Agriculture. The title is "The Slotted Templet Method for Controlling Maps Made from Aerial Photographs. The author is Harry T. Kelsh, Division of Cartography, Soil Conservation Service.

With kindest personal regards, I am

Very truly yours,

A. J. Vessel

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

~~WASHINGTON~~

Box 48

Rice Lake, Wis.

October 5, 1941

DIVISION OF
SOIL SURVEY

Professor F. T. Thwaites
41 Roby Road
Madison, Wisconsin

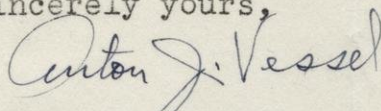
Dear Professor Thwaites:

Thank you for your book on glacial geology. It will be useful to me. Dr. Nelson had a copy of it last year when he was here, and I had a chance to glance through it. I am really pleased to possess a copy.

I shall always be glad to see you whenever you come up this way.

you come up

Sincerely yours,



Anton J. Vessel

Box 152 Stat.A.
Columbus, Ohio
May 17, 1943

Prof. F.T.Thwaites
Dept of Geology
University of Wisconsin
Madison, Wisconsin

Dear Mr. Thwaites:

I am making application for a graduate assistanship in the Department of Geography at The Ohio State University where I will start in on my graduate study this summer. Will you please send a letter of reference to Dr. Guy-Harold Smith, Department of Geography, concerning my character and my work under you at the University of Wisconsin during the year of 1940-41?

Please remember me to the other professors at the University under whom I had work and to any of the student that I knew that still might be present.

Thanking you for this favor.

Sincerely,

James L. Vance

May 26, 1943

To whom it may concern:

Mr. James L. Vance was in my classes in physiography and mapping during the academic year 1940-41. He made the grade of B in all work. Our personal relations were always satisfactory.

F. T. Thwaites,

Assistant Professor of Geology

The Regents of the University of Wisconsin
Madison

M. E. McCAFFREY
SECRETARY

October 12, 1943

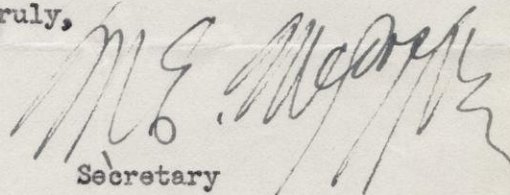
Prof. Fredrik T. Thwaites
Science Hall

Dear Prof. Thwaites:

The Regents of the University of Wisconsin have reappointed you Assistant Professor of Geology for three years at a salary of \$2,900 for the academic year 1943-44.

You will also receive \$300 from the Department of State Geologist for the same period, making your total salary for the academic year 1943-44 \$3,200.

Yours very truly,


Secretary

REPORT OF THE UNIVERSITY COMMITTEE

ON

FACULTY SALARIES AT THE UNIVERSITY OF WISCONSIN

The impact on the University of the rise in living costs incident to the war led the University Committee early in 1944 to undertake a study of faculty salaries. On beginning the study it became at once apparent that in addition to the cost of living, two other significant factors required consideration; the salary position of Wisconsin relative to that of other leading state universities and the continuation of certain salary waivers. The Committee's report, therefore, consists of the following parts:

- a. The salary reductions remaining in effect until recently from the waivers applied during the depression of the thirties;
- b. The rise in living costs incident to the war;
- c. The University's competitive salary position relative to that of other leading state universities;
- d. Salary trends at Wisconsin since 1931;
- e. Conclusion and recommendations;
- f. Appendix-tables and charts.

Restoration of Waivers

To the Committee it seemed clear that no satisfactory readjustment of the salary scale of the University could be made so long as there still remained unrestored remnants of the salary waiver put into effect something more than a decade ago. The action by which the waivers were put into effect was accepted by the faculty willingly, though doubtless regretfully, as its share in a common catastrophe, but the faculty did not understand that the waivers constituted a permanent reduction in salary. To let them lapse into such a reduction would, the Committee felt, have an obstructive effect in any reappraisal of the salary problem. Such an effect has now been obviated by the wise and just action of the Regents in approving the recommendation of the President that a complete restoration of remaining salary waivers be made.

The step thus taken by the President and the Regents receives the hearty endorsement of this Committee. Subsequent parts of this report, however, make it clear that this step was but a necessary preliminary to a re-evaluation of University salaries in the light of current living costs and the present competitive position of the University.

Rise in the Cost of Living

It is a well-known fact attested by daily experience that there has been a substantial advance in the cost of living in recent years. The most widely used index to express the changes that have taken place is the "cost of living" index of the United States Bureau of Labor Statistics. This index number expresses changes in the cost of living in terms of what the cost of living was during the base years, 1935-39. Costs on the average during a five-year period are considered a fairer and more conservative base by the Government than costs for a single year. This cost of living index number (1935-39 = 100) shows the following changes:

1939	99.4
1940	100.2
1941	105.2
1942	116.5
1943	123.6

On the average throughout the United States the cost of living in 1943 had advanced nearly 25 per cent over what it was five years earlier.

By December 1943 the combined index stood at 124.4. Changes in the various groups of commodities upon which this combined index number is based are shown by the following figures:

December 1943
(1935-1939 = 100)

Combined index	124.4
Food	137.1
Clothing	134.6
Fuel, electricity & ice	109.4
House furnishings	127.9
Rent	108.1
Miscellaneous	118.1

Lack of man-power for the task, even if funds for financing it could have been provided, precluded any special investigation by the University Committee of the cost of living in Madison. The Committee has reason to think, however, as a result of similar investigations in other years, that a Madison index of the cost of living would not be lower than the index for the country as a whole.

This substantial advance in the cost of living has not been offset by any general readjustment of University salary scales, such as has been made in many private enterprises and by a good many departments of government in the United States. Members of the faculty as a whole are in the uncomfortable position of having less money to spend, of getting less for what money they do have, and of being asked to meet heavier demands upon their resources than ever before.

The effects of the impact of rising costs of living upon either fixed incomes or lessened incomes require no extended commentary. Members of the

faculty are finding it increasingly difficult to provide for their ordinary living expenses, to meet the demands for intellectual growth and leadership in scholarship and research which their positions involve and to accumulate any reserves to aid in their protection after retirement. The persistence of such economic conditions cannot fail adversely to affect University instruction and research. And should the situation get even worse, as it would if the defenses against inflation gave way further, members of the teaching profession, upon whom both the transmission and advancement of knowledge largely depend, would be among the first casualties.

Faculty Salaries at Wisconsin and Other Leading
State Universities

A special Committee on Quality of Instruction and Scholarship in a report (Document 615) to the faculty in April 1941, summarized its study of salaries at the University of Wisconsin from a competitive point of view as follows:

"Even before the decreases in salaries (waivers of 1932 and 1933) were made the University was not in a position to compete financially with many private institutions. It was on the whole in a not unfavorable position in respect to other state universities. This is still true if one thinks of the whole group of state universities, but not true if one considers the other institutions with which the University of Wisconsin is usually classed."

The Committee supported this conclusion with statistics showing salaries by rank at Wisconsin and four other competitive state universities, three of them in the middle-west.

We have analyzed the salary data for 1942-43 and 1943-44 for the University of Wisconsin and the same four competitive universities studied by the Committee on Quality of Instruction and Scholarship to determine the extent of any change in Wisconsin's competitive position since the report quoted from above was made. The results of this analysis are shown in the tables and graphs attached to this report and are summarized as follows:

1. The data in table 1 and figure 1 for 1943-44 and in table 2 and figure 2 for 1942-43 show that, as the Committee on Quality of Instruction earlier reported, Wisconsin is still at a substantial salary disadvantage in its upper rank as compared with these four other leading state universities. In 1943-44 (table 1, figure 1) the median salary for full professors at Wisconsin was from \$200 to \$750 lower than that at the other institutions. The differences (except for instructors, in university B) are in the same direction for the other ranks but, in general, are lesser in amount. A comparison of average rather than median salaries reveals the same relations.
2. The most pronounced differences between salaries at Wisconsin and the institutions with which it is compared are at the higher levels. This is shown in figure 1 based on table 1. In 1943-44, for example, the

9th decile (the point at and above which 10 per cent of the salaries lie) for full professors at Wisconsin was \$6,000, a value which is from \$1,000 to \$1,750 lower than those for the other four state universities.

The greater disparity at the higher salary levels is also revealed by the more detailed analysis on which figure 2 is based. For instance in the L. & S. Group, the salaries of 20 per cent of the full professors at Wisconsin lie above \$5,500. The upper 20 per cent of professors' salaries in universities A, B and C, on the other hand, all lie above \$6,000. At university D the 20 per cent point is approximately \$6,500. The other groups included in this chart show similar relations.

It will be noted from table 1 that the 9th decile salary is 25 per cent higher than the median salary for full professors at Wisconsin. The 9th decile salaries of full professors at universities A, B, C and D, on the other hand, are approximately 40 per cent above the corresponding median values.

It is clear, therefore, that not only are the average salaries of full professors higher at these other institutions but also that salaries in this rank at the latter universities extend up to appreciably higher levels.

3. It is further shown in figure 2 that the lower relative salaries of full professors at Wisconsin characterize all the main administrative divisions in the University. The disparity is especially conspicuous in Law and Medicine. Due to variations in the terms of staff appointments in the different medical schools, not accounted for in this study, the data for the Medical group, however, may not be comparable.
4. Directly related to salary level for the different ranks is the distribution of staff between ranks. Within a given salary budget, a higher proportion of staff members in the upper ranks results in a lower average salary in those ranks. The percentage distributions for 1943-44 for full-time staff at Wisconsin and universities A, B, C, and D are given in table 3. The percentage of full professors in universities A and B is lower than at Wisconsin, the proportion at university C is the same, and that at university D is appreciably higher. Wisconsin is somewhat above the average of this group of institutions in the proportion of staff members of the highest rank. Wisconsin stands second highest in this group in proportion of full-time staff members holding the rank of associate professor, and is second highest also in full professors and associate professors combined. The rate of promotion at Wisconsin to the rank at which tenure is ordinarily attained, therefore, compares favorably with that at the other institutions. It should be noted in this connection, however, that the proportion of full professors to associate professors at Wisconsin has declined markedly in recent years (table 4). From 1929 to 1936 the ratio of full professors to associate professors exceeded 2.25 in all years but two. During each of the past four years the ratio has been below 1.50. The actual number of faculty members in each of these two ranks has increased in the last 15 years as the general trend of enrollment has been upward. The amount of the increase

(base, 1929-32) for associate professors, however, has been about 97 per cent as against 30 per cent for full professors.

5. The data brought together in table 5 provide a basis for comparison of salaries for 1943-44 when the figures for full professors and associate professors are combined. The values used in these computations might be termed "salaries as paid" since no distinction is made between staff members on the 12-month and academic year basis. When the salaries of full professors and associate professors are lumped together, as shown in column 2, there is little difference between the averages for Wisconsin and universities B and D. The values for universities A and C, however, are higher than the value for Wisconsin. The second-last column in table 5 shows the percentages of the total faculty salary budget at the five universities which are allocated to full and associate professors taken together. Wisconsin stands third in this comparison. Wisconsin ranks fourth in the percentage of the total faculty salary budget allocated to professors as shown in column 6 of table 5, and is fourth also in average salary paid to all full professors.
6. The adjustments made in faculty compensation at Wisconsin since 1932 have resulted in a narrowing of the salary scale. The difference between the average salaries of full professors and instructors for 1944-45 is approximately \$500 less than it was in 1929-32 (figure 3). Two-fifths of this amount represents the gain which has been made in average salary of instructors. The remainder is attributable to the decrease in average salary of full professors. This decrease has contributed to an impairment of our competitive position at the upper rank.
7. Although this report is primarily concerned with the need for salary adjustments within the University, that need is but a part of the larger problem of so conducting the affairs of the University as to enable it properly to discharge the functions intrusted to it. Viewing our current competitive condition with respect to staff from this point of view it seems fitting to call attention to the fact that men are induced to join a university faculty not merely by the salary they are offered but also by the opportunity to do effective work within their chosen field. This opportunity depends to a large extent upon the existence of adequate physical facilities. This is true in most if not all fields of education but it is particularly true in the field of the natural sciences. During the last two decades the development of the physical facilities of the University has approached a state of stagnation. In many of the institutions with which Wisconsin must compete, a normal building program has been carried on. In some the development of physical plant has been impressive. The result is that in many fields the University of Wisconsin is not able to offer working conditions as satisfactory as those which may be offered by a competing institution which is unable or is unwilling to offer a higher salary. It is probably more unfortunate to lose to another institution a man we need because we cannot furnish him equally satisfactory working facilities than it is to lose him because the competing institution offers a higher salary than we can

pay. Certainly it is unfortunate to lose men because our physical equipment is inadequate. Both because our development has been much delayed and because of the future demand we face, there is at the present time an urgent need for the development of our physical facilities. The Committee commends the steps recently taken by the President and the Board of Regents in this direction. It trusts that the Legislature will recognize the urgency of the need they point out.

Salary Trends at Wisconsin

Figure 3 is appended to show the history of salary changes at the University of Wisconsin during the last 15 years. The chart illustrates the effect of the waivers applied in 1932 and 1933 on salary levels and the recovery which has been made since 1937. Only among instructors has the average salary regained and risen above the 1929-32 average. The average salary of instructors for 1944-45 is about \$200 higher than the 1929-32 figure. For assistant professors the average salary for 1944-45 is about \$70 below the 1929-32 level and that for associate professors is about \$200 below. Full professors' salaries for 1944-45 are about \$300 below the pre-waiver figure.

It may be noted also from figure 3 that from 1939 to 1944, the war period, the average compensation of instructors has risen about \$300, that of assistant professors and associate professors has changed only slightly, and the average salary of full professors has increased about \$220.

Conclusions and Recommendations

The Committee believes that plans should now be made looking forward to an adjustment of University salaries in the light of present and reasonably to be anticipated future economic and competitive conditions.

The comparative economic status of the faculty has declined sharply during the past four years. Faculty salaries in general have risen only slightly in contrast with an estimated 25 per cent or more increase in cost of living. How permanent the increase in the cost of living which has taken place will be cannot of course be foretold but it is quite certain to last throughout the period of the war and there is much reason to believe that it will continue for at least a considerable period of time after the war is ended. The persistence of an unfavorable economic position can lower professional standards by reducing the individual faculty member's opportunity for the continued intellectual growth in scholarship and research by which the effectiveness of his work is enhanced. The Committee believes, therefore, that the time has come when some reasonable adjustment of University salaries from the lowest to the highest should be made upon the basis of increased living costs.

That part of the report of the Committee dealing with the competitive condition of the University shows that Wisconsin compares unfavorably with the other four institutions with which comparison was made in the rank of full professor

and that this is true even when the restoration of waivers is taken into account. This obviously puts Wisconsin at a disadvantage in respect to either retaining or securing the services of mature scholars.

Competition with other educational institutions is likely to become rapidly keener with the return of students from the armed forces. Colleges and universities will have students in unprecedented numbers. New institutions for special kinds of education and training constitute a potential source of competition for trained personnel of which existing institutions must take account.

The University must also face the prospect of competition from both government and industry for trained personnel. This is particularly true of the sort of personnel which would ordinarily be recruited from among graduate students, whose numbers have been sharply reduced during the war years.

Moreover, many of the faculty who have been on leave have formed associations which enable them to command salaries quite disproportionate to those which they have been receiving from the University. Reasonable adjustments of their salaries in the light of this fact are to be anticipated. Such adjustments will certainly call for some corresponding adjustment of the salaries of those staff members who have remained in the service of the University.

The Committee believes that a general salary revision should be undertaken as soon as possible because if salary adjustments are delayed or are made only in response to acute post-war competition, there is danger that they will benefit chiefly those in fields in which the demand for personnel currently is the most brisk and in age classes most favorable to change of location.

The Committee further believes that the amount devoted to this salary revision should be substantial. The Committee does not feel prepared to suggest a specific amount, but has confidence that the Administration, in view of the situation which we have pictured and the data we have herein gathered, will wisely decide what that amount should be and how to make these needs known to the people of Wisconsin.

THE UNIVERSITY COMMITTEE

Agard, W. R.

Brink, R. A. (Chmn)

Kiekhofer, W. H.

Rundell, O. S.

Sevringhaus, E. L.

Woodburn, J. G. (Sec'y)

Note: copies of this report were filed with President Dykstra, October 24, 1944 for his use and with the request that the Administrative Committee of the University place it on the calendar for the meeting of the University Faculty, November 6, 1944.

Table 1 — COMPARISON OF SALARIES BY RANK FOR WISCONSIN AND FOUR COMPETITIVE STATE UNIVERSITIES FOR 1943-44 (Academic year basis)

	Wisconsin	University A	University B	University C	University D
Professor					
(1) Median	4800	5050	5074	5550	5000
(2) Average	4960	5413	5108	5689	5451
(3) 9th decile	6000	7250	7000	7750	7200
Ratio (3):(1)	1.25	1.43	1.38	1.40	1.44
Assoc. Professor					
Median	3500	*	3560	4050	3900
Average	3602	*	3545	3896	3745
9th decile	4000	*	4000	4850	4200
Asst. Professor					
Median	2800	*	2938	3400	3000
Average	2931	*	2882	3304	2976
9th decile	3500	*	3250	4250	3300
Instructor					
Median	2250	*	2113	2300	2600
Average	2200	*	2084	2170	2448
9th decile	2600	*	2400	3000	2800

* Comparable data not available.

Table 2 — FACULTY SALARIES AT WISCONSIN AND FOUR COMPETITIVE STATE UNIVERSITIES
BY COLLEGE AND RANK FOR 1942-43

(Academic year except Medical Group which is on 12-months' basis)

	Wisconsin	University A	University B	University C	University D
	Av. Sal.	Av. Sal.	Av. Sal.	Av. Sal.	Av. Sal.
P R O F E S S O R S					
L & S Group	\$4857	\$5561	\$5023	\$5259	\$5588
Engineering	4793	5258	4935	4872	5733
Agriculture	4788	4936	5007	—	5207
Law	5372	7200	6500	7565	6533
Average	4854	5384	5066	5503	5520
Medical Group	5709	6218	5857	6931	6318
A S S O C I A T E P R O F E S S O R S					
L & S Group	\$3641		\$3392	\$3844	\$3626
Engineering	3711		3425	3269	3692
Agriculture	3664	(1)	3522	—	3917
Law	3633		3333	4900	5000
Average	3657		3412	3709	3773
Medical Group	4004		3767	4636	3767
A S S I S T A N T P R O F E S S O R S					
L & S Group	\$2845		\$2753	\$3006	\$2863
Engineering	2882		2746	2872	2864
Agriculture	2849	(1)	2569	—	3099
Average	2849		2735	2970	2971
Medical Group	3020		2732	3639	2917
I N S T R U C T O R S					
L & S Group	\$2045		\$1971	\$2081	\$2303
Engineering	2139		2028	2311	2453
Agriculture	2256	(1)	2044	—	2563
Average	2113		1999	2127	2458
Medical Group	1869		2121	1822	2373

(1) Comparable data not available.

Table 3 — PERCENTAGE DISTRIBUTION OF FULL-TIME STAFF BY RANKS AT WISCONSIN AND FOUR OTHER LEADING STATE UNIVERSITIES IN 1943-44

University	Professors	Assoc. Profs.	Asst. Profs.	Instructors
Wisconsin	29.0	19.9	24.3	26.7
A	23.8	*	*	*
B	26.1	14.8	25.6	33.5
C	29.0	18.2	23.4	29.4
D	34.8	28.4	25.3	11.4

*Data not comparable.

Table 4 — THE CHANGE IN PROPORTION OF STAFF MEMBERS AT THE TWO UPPER RANKS AT WISCONSIN DURING THE LAST 15 YEARS

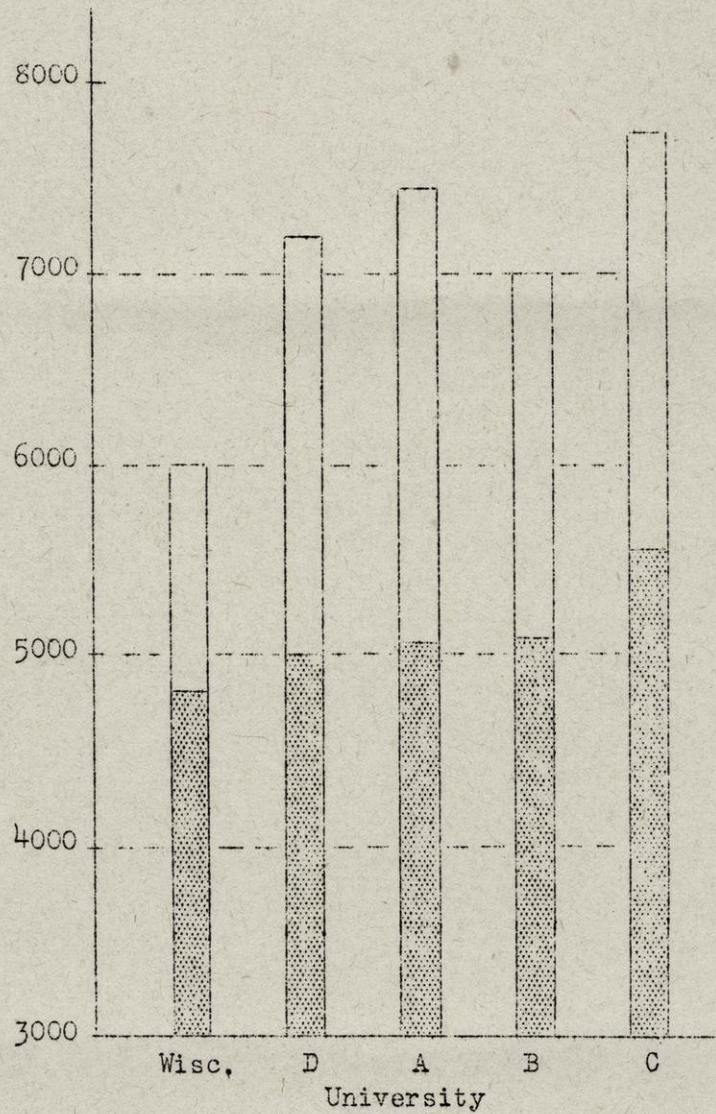
Academic Year	Number		Ratio a/b
	Full Professors (a)	Assoc. Professors (b)	
1929-30	173	76	2.28
1930-31	179	85	2.10
1931-32	183	82	2.23
1932-33	186	74	2.51
1933-34	183	75	2.44
1934-35	188	72	2.61
1935-36	186	80	2.32
1936-37	194	85	2.28
1937-38	203	104	1.95
1938-39	209	107	1.95
1939-40	209	114	1.83
1940-41	211	142	1.48
1941-42	225	154	1.46
1942-43	234	164	1.43
1943-44	236	162	1.46

Table 5 — OVER-ALL COMPARISON OF AVERAGE SALARIES AT THE TWO UPPER FACULTY RANKS: AND PROPORTION OF TOTAL FACULTY SALARY BUDGET ALLOCATED TO THESE RANKS. DATA ARE FOR 1943-44

University	Average Salary (acad. year and 12 mos.)			Per cent faculty salary budget allocated to	
	Prof. and Assoc. Prof.	Prof.	Assoc. Prof.	Prof. and Assoc. Prof.	Professors
Wisconsin	4679	5236	3869	62.5	41.5
A	(4941)*	5413	(3949)	(56.3)	41.8
B	4654	5224	3649	56.1	40.2
C	5024	5689	3896	64.3	45.8
D	4648	5451	3745	74.1	47.5
Rank of Wis.	4	4	3	3	4

*Salary data for ranks below full professor at university A are not fairly comparable with those from the other institutions, hence the brackets.

Figure 1 -- MEDIAN (STIPPLED) AND 9TH DECILE (ENTIRE BAR) SALARIES OF FULL PROFESSORS AT WISCONSIN AND FOUR COMPETITIVE STATE UNIVERSITIES IN 1943-44.

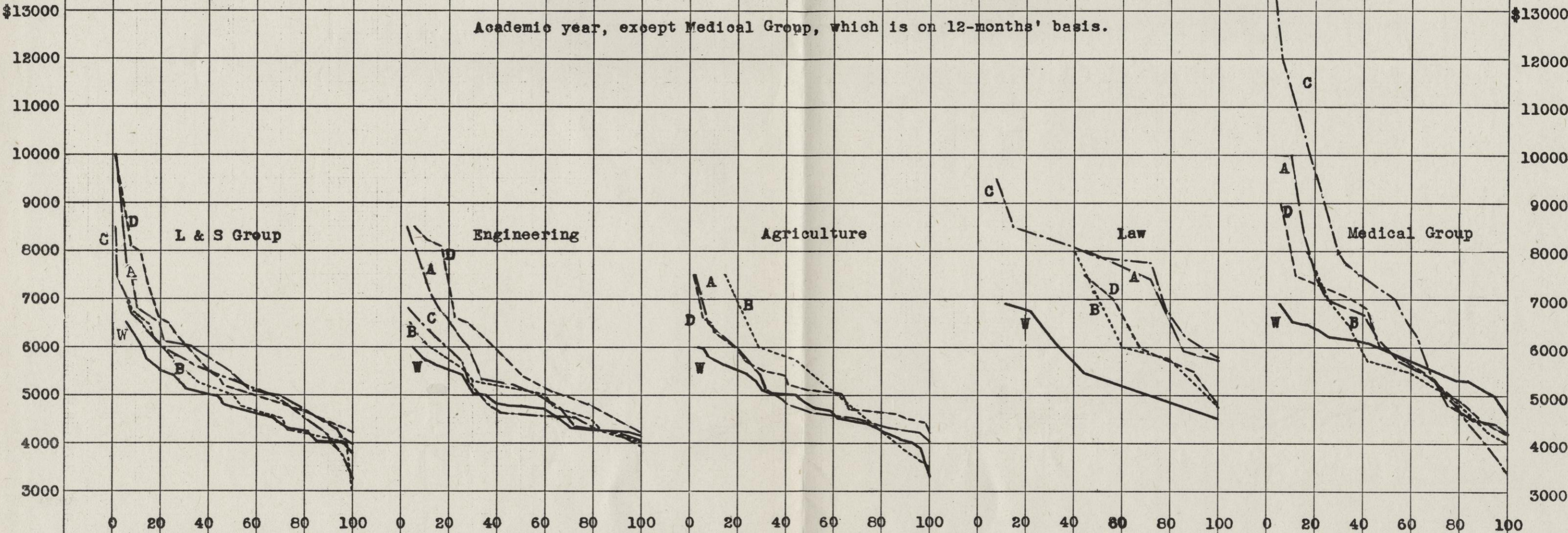


COMPARISON OF PROFESSORS' SALARIES AT UNIVERSITY OF WISCONSIN

AND FOUR COMPETITIVE STATE UNIVERSITIES

1942 - 1943

Academic year, except Medical Group, which is on 12-months' basis.



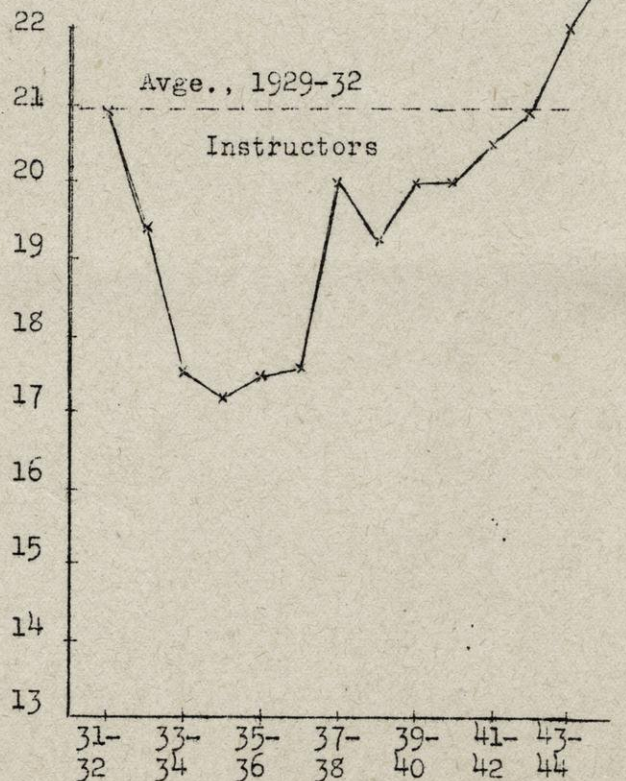
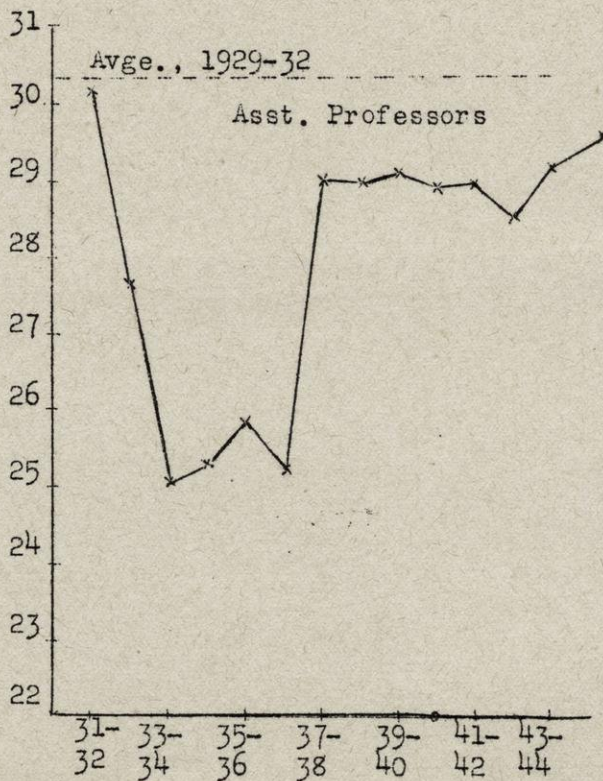
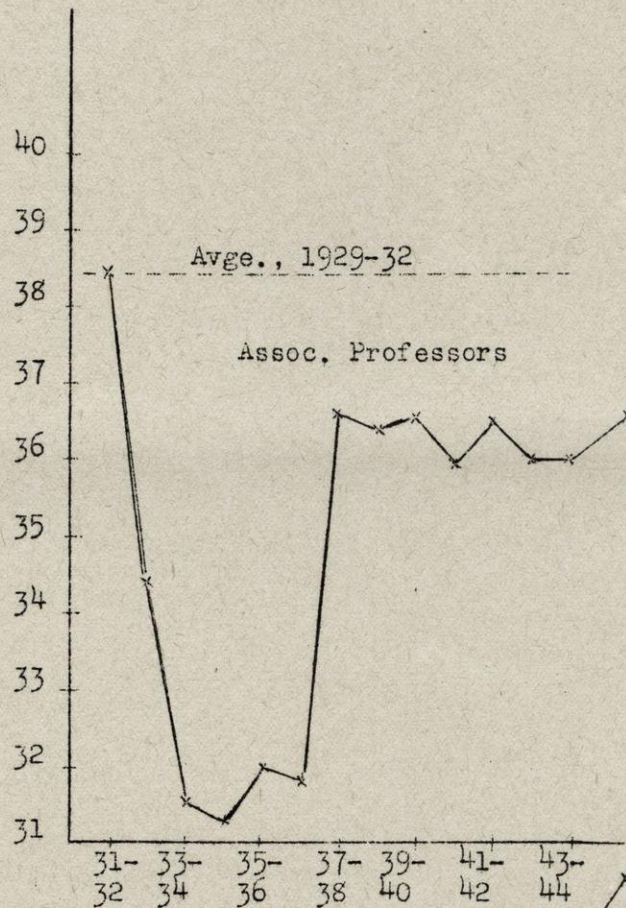
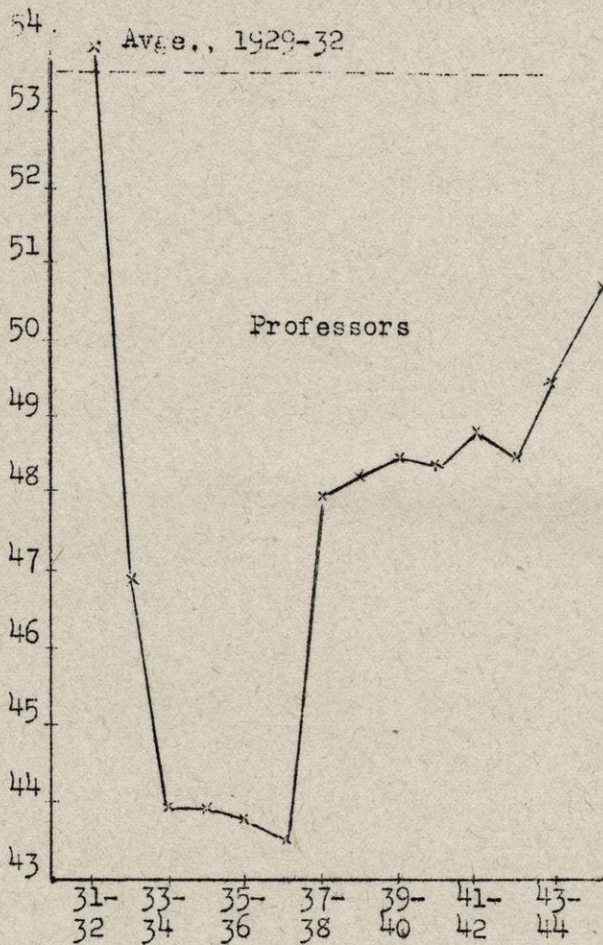
Percentage of professors in colleges named receiving salaries equal to or greater than amount shown in margin.

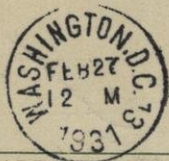
Key:
 Wisconsin W —————
 University A —————
 " B - - - - -
 " C —————
 " D - - - - -

University Committee, Sept. 1944

Fig. 2

Figure 3 -- WISCONSIN SALARY AVERAGES, 1931-1944
FULL-TIME STAFF 10 MONTHS BASIS (OO OMITTED)





ADDRESS
YOUR MAIL
TO
STREET AND
NUMBER



THIS SIDE OF CARD IS FOR ADDRESS

Dr. F. T. Thwaites

Science Hall

Madison, Wisconsin

United States National Museum

WASHINGTON, D. C.

February 26, 1931

I acknowledge, with thanks, the receipt of your paper entitled:

The Glover Bluff Structure, a Disturbed Area in the

Paleozoics of Wisconsin

Very truly yours,

E. O. ULRICH.

THE REGENTS OF THE UNIVERSITY OF WISCONSIN

Madison 6

August 19, 1946

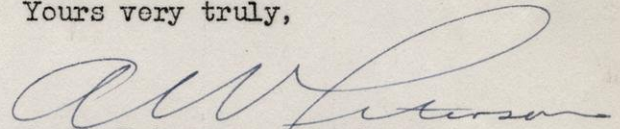
Prof. Frederik T. Thwaites
Science Hall

Dear Prof. Thwaites:

The Regents of the University of Wisconsin have reappointed you assistant professor of **geology** for the academic year 1946-47, at a salary of \$3,600 for the period. (This includes \$300 from the Department of State Geologist.)

In establishing the salaries for 1946-47 the Regents added 20% to the first \$2000 of the 1945-46 salary rate. This is an emergency increase. It is understood, of course, that salaries are established annually inasmuch as the Regents are not legally empowered to make commitments beyond the period for which the Legislature has appropriated funds to the University.

Yours very truly,



A. W. Peterson, Secretary
The Regents of the University
of Wisconsin



The Commonwealth of Massachusetts
Massachusetts State College

Amherst

DEPARTMENT OF GEOLOGY AND MINERALOGY

Dec. 5, 1946

Prof. F.T.Thwaites
Dept. of Geology
University of Wisconsin
Madison, Wis.

Dear Professor Thwaites:

Thank you for your card of November 15th. I am wondering if you will be attending the G.S.A. meetings. I would enjoy visiting with you again and I would like to ask what you know about the buried soils near Regina, Canada. Dr. Kirk Bryan has suggested that I work them next summer on an Academy of Arts and Science grant.

What you write about your proposed text on Geomorphology interests me a great deal. There is need for a text that is a combination of Fenneman, Loebeck, and Von Engeln. Atwood's Phys. North Amer. would be all right if there were more geology in it and no geography. I hope you plan to cut "cross-lots" in your text and I will be looking forward to its publication.

This part of the country is rich in nearly all phases of geology and geologists. I find it not only very congenial but very inspiring, too, to be in New England. The twelve years spent up and down the Rocky Mts. certainly stands in good stead here. The oil company work of last summer was a terrific grind but the results were good. I think we have proved beyond a doubt that fossil plant spores are as good or better than forams in stratigraphy. That work still goes on in a reduced form until June, then I will go back on a full time until September. After that I plan to make a hurried trip to Western Canada.

I hope you will be at the G.S.A. meetings this Christmas.

Sincerely,

A handwritten signature in cursive script that reads "L.R. Wilson".

L.R. Wilson
Chairman of Department

LW:bs

Dec. 9, 1946

Dr. L. R. Wilson,
Massachusetts State College,
Amherst, Massachusetts

Dear Wilson:

Yours of the 5th is at hand. I am hoping to be in Chicago for one day only, December 27th. That is I will try to be there if trains are not too crowded to get on. I did not attempt to get a room because I did not want to keep one away from those who live farther away.

I am afraid that I know nothing about the buried soils in Canada. I have read of them but have not been up there since 1913 except for a brief trip in 1940.

The geomorphology has kept me busy all fall. I have the text mimeographed but no illustrations done. How soon I can get it ready for publication is a problem. The line of approach is quite different from that of any of the others being based on physical principles instead of generalities. If it ever comes out those who do not laugh it aside will probably ignore it, that is the old-timers. Younger geologists may take to the idea but older ones never, I fear. However, I may be mistaken.

Hoping to see you at Chicago,

Sincerely,

file
Wisconsin State Journal

41 Roby Road,
Madison 5, Wisconsin.
November 9, 1946.

Mr. Howard McCaffery,
Circulation Department,
Wisconsin State Journal,
Madison 3, Wisconsin.

Dear Mr. McCaffery:

On September 18, 1946 Tom wrote Major Byron M. Bozarth, Special Service Section, Camp McCoy, Wisconsin as follows and inclosed a stamped envelope for a reply:

"Inasmuch as no one was ever at home during the day, I did not collect at your house every week. When I called the night of September 13, I found the house vacant and stopped delivering the Wisconsin State Journal the next day. I delivered the paper for six full weeks, namely August 3, 10, 17, 24, and 31, and September 7, at twenty-five cents (\$0.25) per week and through Friday, September 13. As I do not know just wh at day you left town, I am asking you to pay for the number of days you were here.

"Any amount that you can pay me on this account will be much appreciated by my partner and me."

Tom just informed me that you would tend to this matter for him. Thanking you for whatever you can do, I am

Yours very truly,

Mrs. F. T. Thwaites

File
Wisconsin State Journal

41 Roby Road,
Madison 5, Wisconsin,
September 18, 1946.

Major Byron M. Bonarth,
Special Service Section,
Camp McCoy, Wisconsin.

Dear Sir:

Inasmuch as ^{no one was} ~~you were~~ never at home during the day,
I did not collect at your house every week. When I called the
night of September 13, I found the house vacant and stopped de-
livering the Wisconsin State Journal the next day. I delivered
the paper for six full weeks, namely August 3, 10, 17, 24, and 31,
and September 7, at twenty-five cents (\$0.25) per week and through
Friday, September 13. As I do not know just what day you left
town, I am asking you to pay for the number of days you were
here.

A y amount that you can pay me on this account will
be much appreciated by my partner and me.

Yours very truly,

Thomas Thwaites

THIS SIDE OF CARD IS FOR ADDRESS

F. T. Thwaites,

41 Roby Road,

Madison 5, Wisconsin



Bayfield, Wis. Oct. 9, 1946.

Dear Mr. Thwaites:

Have no record of your letter of the 9th. Was out of town at that time, but that should make no difference. As requested have just ordered from the Canning Co. two cases of green and one case of wax beans to be shipped to you by Express at once. These will be the uncut number two or three as requested. Incidentally am not Express Agent now as retired three years ago. Am still going strong, however. With very best regards to yourselves and Mr. Mueller.

Sincerely,
H. D. Winbigler

Oct. 8, 1946

Mr. Hugh D. Winbigler, Agent,
Railway Express Co.,
Bayfield, Wisconsin

Dear Mr. Winbigler:

On Sept. 9 last I wrote you as follows but have had no reply.

Could you please express me some cases of beans from the local cannery?

If possible we would like two cases of green beans and one of wax all preferably uncut. However, we will be glad to take whatever you can get for us. Size should be either 2 or 3 as before.

We are still enjoying the strawberries and raspberries you sent last summer to Mr. Oscar Mueller, my father-in-law.

Best regards,

Sincerely,

Sept. 9, 1946

Mr. Hugh D. Winbigler,
Railway Express Agent,
Bayfield, Wisconsin

Dear Mr. Winbigler:

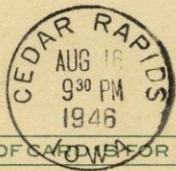
Could you please express me some cases
of beans from the local country?

If possible we would like two (2) cases
of green beans and one of wax all preferably uncut.
However, we will be glad to take whatever you can get
for us. Size should be either 2 or 3 as before.

We are still enjoying the strawberries
and raspberries you sent last summer to Mr. Oscar Mueller,
my father-in-law.

Best regards,

Sincerely,



THIS SIDE OF CARD IS FOR ADDRESS

Prof. F. T. Thwaites
University of Wisconsin
Madison, Wisconsin

Dept. of Geology

August 7, 1946

Dear Prof. Thwaites:

Will you kindly note the change in my mailing address effective September 1, 1946. I am leaving Coe College to become Chairman of the Geology Department at Massachusetts State College, Amherst, Mass.

Yours very truly,

L. R. Wilson

L. R. Wilson

October 27, 1947

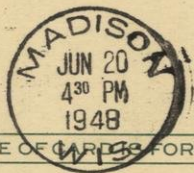
Mr. Howard McCaffery,
Circulation Department,
Wisconsin State Journal,
Madison 5, Wisconsin.

Dear Sir:

In checking over his route Bill found he was delivering papers to the G.A. Dunn Company and there was no card in the route book. He accordingly made one out. Last Saturday Bill went to collect and learned that they were paid up through October 25.

There was no car^d for this party at the time your office checked over the route book.

Yours very truly,



THIS SIDE OF CARD IS FOR ADDRESS

Mrs. F. T. Thwaites
41 No. Roby Road
Madison, Wisconsin

Dear Mrs. Thwaites

We are happy to inform you that Robert has been accepted in the Reading Clinic at The University of Wisconsin for the 1948 summer session. The Clinic will open at 9 o'clock Tuesday, July 6. It is located on the second floor of the Washington School. Use the Bedford Street entrance.

If you have not already done so, send us the fee of \$7.50 payable to The University of Wisconsin. Mail it to Professor T. L. Torgerson, Education-Engineering Building. If you cannot do this, it may be paid on the opening day of the Clinic.

Very truly yours,

T. L. Torgerson

T. L. Torgerson, Chairman
University Reading Clinic

*check no 79.
Bank of Madison*

UNIVERSITY OF WISCONSIN

Department of Geology
Science Hall
Madison 6

July 8, 1948

Departmental News Letter

Greetings from the labyrinths of Science Hall. It is a long time since some of you have been in to see us and it may be a long time till some of you will. There have been some changes in which all of you as well as we are interested so we thought we'd tell you about them. The post-war period has been hectic and departmental reconstruction has not eased the pressure. But now that things are taking shape we have a breathing spell and we hope to drop you folks a note like this rather regularly from now on. It has been on the books to do so before this.

Everyone knows that C. K. Leith, W. H. Twenhofel and A. N. Winchell retired a few years ago. Dr. Leith still spends his summers here in Madison but the others have moved out. We miss them. Recruiting a new staff is not like hiring an office boy and has taken a great deal of our time and effort -- endless correspondence, interviews, questions to interested friends and running down suggestions. Young men have been sought and still younger men are being sought. We are gambling but cautiously.

One of our objectives has been to expand the so-called "soft rock" end of the department to try to bring it into balance with the hard rock end, without, however, robbing the hard rock end of any of its past emphasis. For a great many years more than half of our student placement has been in petroleum geology and related fields but that section of our staff has not been correspondingly large. We have, we believe, succeeded in establishing a new development in paleontology, stratigraphy and petroleum geology without weakening the department's traditional coverage. This is not intended to compare new young men with the departmental pillars - but just as the departmental pillars themselves started out as new young men so we hope our new selections will be even equivalent pillars in a few years.

Let's introduce the newer members, whom some of you know and some of you don't. And suppose we also review the new course assignments to some of the old timers.

Stan Tyler is certainly not a new member. He is teaching structural geology and metamorphic geology and has the enthusiastic endorsement of the grads. He also covers pre-Cambrian geology and sedimentation. This year three of our five Ph.D. candidates did their theses with Stan. Stan expects to give up Engineering Geology after next year.

Fred Thwaites, still in charge of geomorphology and glacial geology, has expanded the course in mapping to give more than fifty students at a time a good foundation for future field work. Fred is preparing a text on geomorphology.

Lewis Cline is still "new" though he has been here for three years. He came to us from Iowa indirectly and from Standard Oil directly. He concentrates on stratigraphy and petroleum geology and is interested in research primarily in paleo-ecology.

Luke Thompson devotes himself to paleontology and micropaleontology. He occupies the quarters formerly occupied by sedimentation. Fusulinids and similar micro fossils are his profession and hobby. He turns out a prodigious amount of work which has earned him an international reputation.

Gene Cameron came here from the U. S. G. S., chiefly to give us coverage in non-metallic mineral deposits to which he gave his main attention during the war. Gene is also teaching micrography (polished sections if you prefer). He is undertaking a large scale investigation of the lead and zinc ores of southwestern Wisconsin and adjacent territory.

Three new men are joining our staff in September. They are:-

Lowell Laudon, from Kansas, who will take over geology 1 as his main teaching load but will also teach stratigraphic paleontology. His research students, some of whom have come with him are working in the joint fields of stratigraphy and paleontology. Lowell, together with Lewis and Luke give us a petroleum unit of which we are justly proud. We think they will do for that branch of our department what others have done for other branches.

George Woollard, now of Princeton and Woods Hole, is coming here to teach geophysics. George has a fine background of completed research. He is primarily a geologist and he talks our language. In a discussion which he gave our geology club, he stirred up real enthusiasm among our grad group. We are looking forward to George's contribution.

Sheldon Judson who took his Ph.D. at Harvard this spring under Kirk Bryan will take over Fred Thwaites work when Fred retires. Sheldon's chief interest is glacial geology which he will continue to unravel for Wisconsin's benefit.

We anticipate adding one more man in economic geology and we think we know who he is. He is interested in Wisconsin too. It would not be fair to him to name him in public till his mind is made up. We want him for metallic mineral deposits and allied subjects.

Also, we hope to have an x-ray crystallographer in our group before too long. So far he is not named and we are open to suggestion - provided he is young, energetic and gives promise of being the best there is. We are listening!

I myself am covering mineralogy and petrology with the help of Bob Gates and some other grad students. When I have completed my stretch at my present clerical job and have turned it over to the next, I'll find more time for lab work than I find now.

Mrs. Nilsson who knows and serves the departments interests as well as any of us is still with us. What would Science Hall be without its roof, its front steps or without Mrs. Nilsson!

Mrs. Evelyn MacDonald shares her work now but on a temporary basis while her GI husband goes to school. She has already entrenched herself with the entire group.

Fred Wilhelm is here too but a dejected Fred without the museum. The main museum across the street is after him but so far he has not taken their bait.

Jerry Toal has moved to the Art School - behind those frosted windows.

This year the University found itself greatly crowded for space and decided we had one wing too many in Science Hall. They gave it to geography! We are therefore using every corner of the basement for teaching purposes and expect to continue being crowded until the anatomy department moves out of the building. Our student credits are now 248% of what they were in 1940 and our space is 86% of what it was in 1940. To ease the situation we are converting half of the museum into class rooms and offices, and we feel lucky to have had that cushion. Further development of the department will be most difficult until and unless the space is eased.

The U. S. Geological Survey, Lake Superior branch is now housed with us. We were unable to give them much space but are overjoyed to have them with us. Carl Dutton is in charge.

In early May we were forced to close our enrollment of graduate students for next year for lack of space - they number 55. They carry the teaching burden in elementary laboratories and their limitation therefore closes our potential enrollment in elementary courses. It's a spiral that can't be beaten without space.

Next time I'll give you more on the research that is being done. We'd like also to have some notes of and from you to include - please don't be modest, we'll rewrite it without quotes - we really want to know, as you do, what you are doing, and the only effective way to get it is from you.

Best regards from us to you.

R. C. Emmons

R. C. Emmons
For the staff.

A Tentative Constitution for the FRIENDS OF THE UNIVERSITY
OF WISCONSIN LIBRARY

- Article I. The object of this organization shall be to stimulate interest in the growth and enrichment of the University of Wisconsin Libraries.
- Article II. The affairs of the FRIENDS OF THE UNIVERSITY OF WISCONSIN LIBRARY shall be managed by an Executive Committee which shall have power to authorize expenditures from the Friends' Fund.
- Article III. The Executive Committee shall consist of the President, the Secretary-Treasurer and three members at large who shall be elected for three year terms, the term of one expiring each year.
- Article IV. Membership in the FRIENDS OF THE UNIVERSITY OF WISCONSIN LIBRARY shall be open to anyone who contributes annually one dollar (or more) to the Friends' Fund, or in the opinion of the Executive Committee has otherwise contributed to the enrichment of the University Library. The names of all FRIENDS shall be entered in an appropriate register. Each member of the FRIENDS shall receive, gratis, a copy of each issue of The Library Messenger as it is published.
- Article V. All moneys contributed by members shall be credited to the Friends' Fund, as set up by the Board of Regents of the University of Wisconsin, unless the donor has indicated some other disposition. This Fund shall be used for the purchase of books, manuscripts or documents for the University Libraries upon the authorization of the Executive Committee.
- Article VI. This constitution may be amended by the majority of those present at any annual meeting of the FRIENDS provided notice of the proposed amendment has been given in the call of the meeting.

By-Laws of THE FRIENDS OF THE UNIVERSITY OF WISCONSIN LIBRARY

- Article I. The officers of the FRIENDS shall be a President and a Secretary-Treasurer. The President shall be elected at the annual meeting. The Director of the University Libraries shall be ex-officio Secretary-Treasurer; he may delegate one of his associates to act in his place.
- Article II. The President and the Secretary-Treasurer shall have the usual powers and duties of those offices.
- Article III. There shall be at least one meeting of the FRIENDS each year, designated as the annual meeting, which shall be held as near University Commencement time as feasible. Other meetings for discussion and refreshment may be held at the discretion of the Executive Committee. Such meetings may be open to the general public.
- Article IV. The Secretary-Treasurer shall make an annual report to the FRIENDS listing all members, gifts of books and manuscripts and other library material, and indicating the total amount of contributions, bequests and gifts, as well as expenditures from the Friends' Fund.
- Article V. These by-laws may be amended at any annual meeting by a majority vote of the members present.

April 6, 1949

Dr. K. Virkkala,
Rautavarti 29,
Helsinki, Finland

Dear Dr. Virkkala:

Thank you for the copies of "Late-
Glacial development of shorelines in southern Kainu and
northern Karelia" and "The general geological map of
Finland" which arrived recently. I am sorry that I
have no recent papers that I could send in exchange
but will keep this in mind when I do have.

Sincerely yours,

COLLEGE OF ARTS AND SCIENCES
CORNELL UNIVERSITY
ITHACA, NEW YORK

DEPARTMENT OF GEOLOGY

February 8, 1949

Professor Frederik T. Thwaites
Science Hall
University of Wisconsin
Madison 6, Wisconsin

Dear Dr. Thwaites:

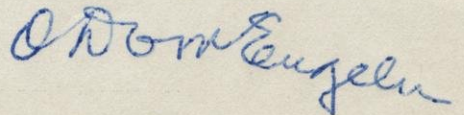
Under separate cover, I am sending you a contribution for your collections (if you regard the specimen deserving--otherwise throw it out!) from the department and the collector, Dr. Victor Schmidt, a rounded pebble of conglomerates which (correlated with other specimens of the same kind) I regard as quite objective proof of multiple glacial advances in Central New York, far inside the ice-border deposits of this region.

Such pebbles or boulders (and Dr. Schmidt now has collected 100 or more) are found in glacial deposits, i.e.: outwash gravels, kames, and kame terraces. They are far more firmly cemented than any post glacial conglomerate material in these parts. And note the pebble itself is stream rounded.

The pebble makes a very nice piece to use as an examination test item with classes studying glacial geology beyond the elementary stage. The students are told that the specimen was found in a mass of unconsolidated glacial gravels. Also, that such pebbles are found widely distributed. (See paper accompanying the specimen). They go on from there to account for its existence and characteristics.

I am wishful that you find the specimen as interesting and convincing as I do.

Very truly yours,



O. D. von Engeln



The State of Wisconsin

STATE TEACHERS COLLEGE

MILWAUKEE 11, WISCONSIN

April 19, 50

Mr. Frederick J. Thwaites
University of Wisconsin

My dear Mr. Thwaites: —

May I ask you a kind favor. What is Holy Hill, a name or just a portion of the glacial moraine debris of the kettle moraine. I have always thought it was a large name because there are so many other names and eskers in the same location.

Do you remember some of the good old times we had back in 1914, 1915 and 1916. Your Hudson was then a wonderful car on field trips. I also have a Hudson and my latest study of the Rocky Mountains was done with it.

Very sincerely
Harvey A. Weber

April 24, 1950

Prof. Harvey A. Uber
State Teachers College
Milwaukee 11, Wis.

Dear Uber:

In reply to yours of the 19th, Holy Hill appears to be the filling of a hole which melted through the ice during the formation of the Kettle Moraine. It is classed as a moulin kame. The filling of such holes is mainly gravel. Many such conical hills occur north of that place, particularly in Sheboygan County.

I well remember our field trips with Martin. Things are much different today and I have trouble locating many of the places we visited after the modern changes. Thompson has taken over field geology so I get out only on Glacial Geology and Mapping trips. My oldest boy is a freshman this year. The old Hudson was sold out West in 1933.

Very truly yours,

F. T. Thwaites

FTH:ac

Dec. 28, 1949

Varner Well Drilling Co.,
Tulsa, Iowa

Dear Mr. Varner:

Thank you for the fine box of cranberries
and the 1950 record book. The berries were much
appreciated at our Christmas dinner.

With best regards and the best wishes of
the season, I am,

sincerely yours,



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

Code No. 45021

NOV 5 1951

Dr. Edwin B. Fred
President, University of Wisconsin
Madison, Wisconsin

Dear Dr. Fred:

This is to express my sincere appreciation of the reception accorded to our Ground Water Short Course personnel on the occasion of the schooling held at the University of Wisconsin, September 3-15. I wish especially to commend Mr. S. Lee Burns, Director, Division of Residence Halls, who was directly responsible for arranging housing accommodations in Conover Hall and meals in the Kronshage Hall cafeteria; and Mr. Alden White, Secretary of the Faculty, who arranged for classroom and laboratory space in Science Hall. Numerous others of your faculty and staff gave abundantly and willingly of their time and energy to aid us, especially Dr. F. T. Thwaites, of the Geology Department, whose assistance in directing a geologic field trip on Sunday, September 8, to the Baraboo Range and Devils Lake was extremely helpful and will long be remembered by the participants.

The very cordial and sincere spirit of cooperation with which we were received, both by your organization and by the State Geological Survey, under Mr. E. F. Bean, makes us glad indeed that our first attempt in advanced, formal education of professional Ground Water personnel was held at the University of Wisconsin. We feel that it was highly successful and that, in large measure, such success as was achieved is owing the University.

Very truly yours,

Thomas B. Nolan

Acting Director

Copies to: Messrs. Bean, Thwaites,
Burns, White, and Drescher

21 Feb. 1955

Senator Wiley,
Senate Office Bldg.
Washington 25, D. C.

Dear Senator Wiley:

I am writing you to express opposition to the proposal for a storage reservoir in Dinosaur National Monument, Colorado-Utah. Aside from the actual damage to what was promised as an area perpetually preserved for the use of the public I feel that yielding in this case would set a very dangerous precedent for the use of other National park areas for purposes not intended when set aside. It would be the breaking of a promise. I also urge that such reservoirs will not be permanent on account of the heavy silt load of so many western rivers and that they will have to be abandoned in a comparatively short time leaving the area irreparably damaged.

irreparably

Sincerely yours,

Senator Clinton P. Anderson, Senate Office Building, Washington 25, D.C.

Hon. Glenn Davis, Home Office Bldg

Sen. H.M. Jackson

Sen. J.C. O'Malley

Sen. A.V. Watkins

WALTER F. GEORGE, GA., CHAIRMAN
THEODORE FRANCIS GREEN, R. I. ALEXANDER WILEY, WIS.
J. W. FULBRIGHT, ARK. H. ALEXANDER SMITH, N. J.
JOHN SPARKMAN, ALA. BOURKE B. HICKENLOOPER, IOWA
HUBERT H. HUMPHREY, MINN. WILLIAM LANGER, N. DAK.
MIKE MANSFIELD, MONT. WILLIAM F. KNOWLAND, CALIF.
ALBEN W. BARKLEY, KY. GEORGE D. AIKEN, VT.
HOMER E. CAPEHART, IND.

WAYNE MORSE, OREG.

FRANCIS O. WILCOX, CHIEF OF STAFF

United States Senate

COMMITTEE ON FOREIGN RELATIONS

February 23, 1955

Mr. F. T. Thwaites, Geologist
41 North Roby Road
Madison 5, Wisconsin

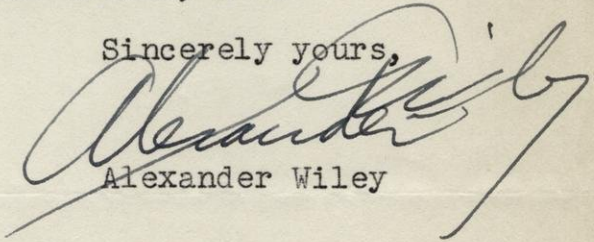
Dear Mr. Thwaites:

I was delighted to receive your splendid letter of February 21st setting forth your views in opposition to the proposed Echo Park Dam Project in the Dinosaur National Monument.

You and I very definitely agree on this matter, as is evidenced by the fact that I have communicated to my colleagues who serve on the Senate Interior Committee my own vigorous objections to this project.

With sincere appreciation for your interest in this matter, and with kindest wishes, I am

Sincerely yours,


Alexander Wiley

AW:dc

GUY CORDON, OREG., CHAIRMAN

EUGENE D. MILLIKIN, COLO.
GEORGE W. MALONE, NEV.
ARTHUR V. WATKINS, UTAH
HENRY C. DWORSHAK, IDAHO
THOMAS H. KUCHEL, CALIF.
FRANK A. BARRETT, WYO.
EDWARD D. CRIPPA, WYO.

JAMES E. MURRAY, MONT.
CLINTON P. ANDERSON, N. MEX.
RUSSELL B. LONG, LA.
HENRY M. JACKSON, WASH.
PRICE DANIEL, TEX.
ALTON LENNON, N. C.
THOMAS A. BURKE, OHIO

KIRKLEY S. COULTER, CHIEF CLERK

United States Senate

COMMITTEE ON
INTERIOR AND INSULAR AFFAIRS

February 28, 1955

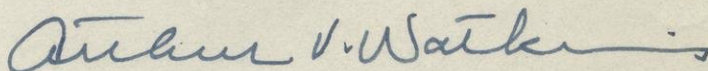
Mr. F. T. Thwaites
41 North Roby Road
Madison 5, Wis.

Dear Mr. Thwaites:

I have taken the liberty of forwarding your letter to Mr. G. E. Untermann of Vernal, Utah, a fellow geologist who, together with his wife, surveyed the area which is now Dinosaur National Monument. I have taken this liberty with your correspondence because I sincerely believe an objective interchange of ideas between you on a professional basis may prove to be enlightening and encouraging to you both, because my observation of your comments indicate that some of the misinformation presently being circulated about this project has reached your attention.

Before closing, I wish to express my sincere appreciation for your taking the time to advise me of your views.

Sincerely yours,



Arthur V. Watkins

THE UNIVERSITY OF WISCONSIN
Madison 6

October 18, 1955

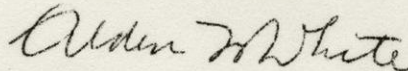
Mr. Fredrik T. Thwaites
41 North Roby Road
Madison, Wisconsin

Dear Mr. Thwaites:

I have been asked by the Administrative Committee to inform you of the following Regent action of September 10, 1955.

That the fee for parking on the campus be waived for emeritus members of the faculty who receive no compensation from the University, when approved by the dean or director.

Sincerely yours,



ALDEN W. WHITE
Secretary of the Faculty

AWW:ew

THE UNIVERSITY OF WISCONSIN

OFFICES OF BUSINESS ADMINISTRATION

Madison 6

July 29, 1954

Vice President
Business and Finance

Trust Officer

Professor Frederik T. Thwaites
211 Science Hall

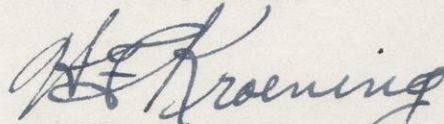
Dear Professor Thwaites:

Enclosed is a fully executed copy of a special contract for special services between you and The Regents of The University of Wisconsin.

The contract provides that you shall be employed in the College of Letters and Science on a part-time basis during the 1954-55 academic year at a salary of \$3850.

This special contract was approved by the Regents at their meeting on June 17, 1954.

Yours very truly,



H. F. Kroening, Assistant
to the Vice President

HFK/mst

Enc.

cc: President E. B. Fred
Dean R. B. Doremus
Mr. G. F. Hanson
Mr. Clarke Smith
Miss Jean Dorman

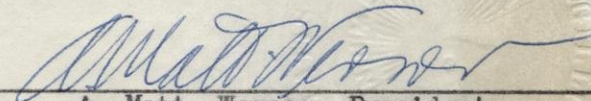
SPECIAL CONTRACT FOR SPECIAL SERVICES

IT IS HEREBY AGREED by and between The Regents of The University of Wisconsin, of the City of Madison, County of Dane, in the State of Wisconsin, hereinafter called the Regents, and Assistant Professor Emeritus Frederik T. Thwaites, of the City of Madison, County of Dane, State of Wisconsin, hereinafter called Assistant Professor Thwaites, that Assistant Professor Thwaites shall be employed by the Regents on a part-time basis for the period July 1, 1954 to June 30, 1955, as Assistant to the State Geologist and for the 1954-55 academic year to perform instructional services in Geology. Total salary \$3850; chargeable as follows: \$1500 Wisconsin Geological Survey, \$1000 Underground Water Resources, and \$1350 College of Letters and Science.

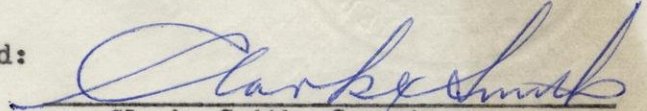
This contract is made pursuant to rules adopted by the Regents in June 1937, providing for employment of retired members of the faculty for special services on special contract at the discretion of the Regents, but not as members of the regular staff.

Signed: THE REGENTS OF THE UNIVERSITY OF WISCONSIN

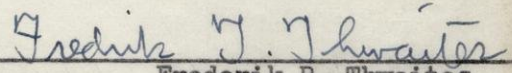
By:


A. Matt. Werner, President

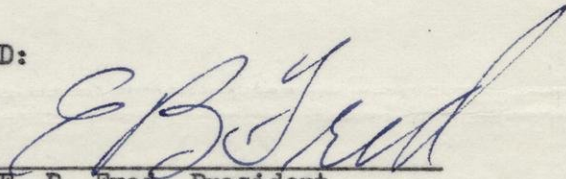
Countersigned:

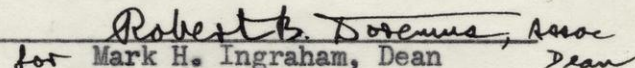

Clarke Smith, Secretary

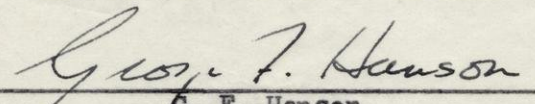
Signed:


Frederik T. Thwaites

APPROVED:


E. B. Fred, President
University of Wisconsin


for Mark H. Ingraham, Dean
College of Letters and Science


G. F. Hanson
State Geologist

Bibliography of Pleistocene in Wisconsin

- Bean, E. F., and Thompson, J. W., Jr (1944) Topography and geology of the Brule Basin, Wis. Acad. Sci., Trans., vol. 36, p. 7-17
- Bretz, J. H., (1950) Glacial Lake Merrimac, Ill. Acad. Sci., Trans., vol. 43, p 132-136.
- Ellsworth, E. W., and Wilgus, W. L., (1930) The varved clay deposit at Waupaca, Wis., Wis. Acad. Sci., Trans., vol. 25, p. 99-111.
- Ellsworth, E. W., (1932) Varved clays of Wisconsin, Wis. Acad. Sci., Trans., vol. 27, p. 47-58.
- Fries, Carl Jr., (1938) Geology and ground water of the Trout Lake region, Vilas County, Wisconsin, Wis. Acad. Sci., Trans., vol. 31, p. 305-332
- Harder, A. E., and Drescher, W. J., (1954) Ground-water conditions in southwestern Langlade County, Wisconsin, U. S. Geol. Survey Water -Supply Paper 1294
- Hole, F. D., (1943) Correlation of the glacial border drift of north central Wisconsin, Am. Jour. Sci., vol. 241, p. 498-516
- Huff, L. C., (1941) The sedimentology and physiography of Wisconsin glacial outwash along the Chippewa River, Ill. Acad. Sci., Trans., vol. 34, p. 167
- Mathiesen, J. T., (1940) The Pleistocene of part of northwestern Wisconsin, Wis. Acad. Sci., Trans., vol. 32, p. 251-272
- Murray, R. C., (1935) The petrology of the Cary and Valdres tills of northeastern Wisconsin, ~~Wis. Acad. Sci., Trans., vol. 28, p. 140-155~~ Am. Jour. Sci., vol. 251, p. 140-155
- Stratton G. G., (1948) The older drift of Wisconsin, Sci., Monthly, vol. 56, p. 45-49
- Thwaites, F. T., (1929) Glacial geology of part of Vilas County, Wisconsin, Wis. Acad. Sci., Trans., vol. 24, p. 109-125
- Thwaites, F. T., (1943) Pleistocene of part of northeastern Wisconsin, Geol. Soc. Am., Bull., vol 54, p. 87-144
- Thwaites, F. T., (1949) Geomorphology of the basin of Lake Michigan, Mich. Acad. Sci., papers, vol. 33, p. 243-251
- Thwaites, F. T., and Bertrand, Kenneth (1957) Pleistocene geology of the Door Peninsula, Wisconsin, Geol. Soc. Am., Bull., vol. 68, p. 831-880
- Those which might be left out starred
- Leave out from list in Special Paper 60: Aldrich (obscure publication now covered by Thwaites in 1943; Hole (abstract, final paper listed above); Whitson (1916) (not geologic)
- Correction: Martin(1916) should be Bull. 36 republished in 1932
- All theses because not easily seen.

10 Jan., 1938

Dr. H. B. Willman,
State Geological Survey,
Natural Resources Bldg.,
Urbana, Illinois

Dear Dr. Willman:

I am sorry yours of 9 December was buried so long but we had ~~all~~ the family back for the holidays and it was neglected. Please note change of address above.

The attached bibliography is nothing more than what can be derived from the Bibliography of North American Geology. I suggest that some papers be left out for they are covered in other publications or were published in obscure places and are not common. In the published list I suggest leaving out Aldrich (obscure publication) and Hole (abstract only). See the theses at bottom. Weidman's Bull 16 was omitted intentionally for he made many errors of interpretation since corrected. At present, it seems doubtful that there is much if any really pre-Wisconsin drift in the entire state! Also Whitson 1916 as non-geologic

In the list attached I have starred some papers which I think could be omitted. Most are probably just a rehash of published material.

Sincerely yours.

Matheson J. T. (1940)

Title Plate of part of northwestern Wisconsin;
Wis Acad Sci Trans 32: 251-272

Thomson, F. T. (1943)

Plate of part of northwestern Wisconsin GSA B
54: 87-144

(1949) Geomorphology of the basin of Lake Michigan

Mich Acad Sci Papers; 33: 243-251

Burns E. F. & Thomson J. W. J. (1944) Topography and geology
of the Snake River Basin; Wis Acad Sci 36:
7-17

Smith H. T. U. (1949) Ringed features in the driftless
area of northern Wisconsin; J. G. 57: 196-215

Huff L. C. (1941) The sedimentation and physiography of
Wisconsin glacial outwash along the Applegate River; Ill
Thermeyer L. R. II) Acad Sci Trans 34: 167

Holt F. D. (1943) Correlation of the glacial border drift
with the central Wisconsin; A. J. S. 24: 498-516

Shallen C. G. (1943) The older drift of Wisconsin; Sci Mo 56:
45-49

Shantz R. R. (1940) Geology of Waubesa Island and
its neighbor, Deer Camp, Wisconsin; Wis Acad Sci Trans
32: 199-227

Bretz J. H. (1950) Glacial Lake Merrimac; Ill
Acad Sci Trans 43: 132-136

Murray R C (1953)

Trace petrology of the Canyon Valdes
with of numerous Wmms: *ATS*. 25: 1?
140-155

Ellsworth E W and Wilgus W L (1930) The sand clay deposit at
Wauquian, Wis: *Wis Acad Sci* 25: 99-111
~~Ellsworth~~
(1932) ~~Ellsworth~~ Varied clay of Wmms: *Wis Acad Sci Trans*
~~Ellsworth~~ 27: 42-58

~~Ellsworth~~

~~Ellsworth~~

Thwaiter FT (1929) General geology of part
of Vilas County, Wis: *Wis Acad Sci Trans* 24: 109-125
W.A.F. 4

W.A.F. 39

Frederick C (1938)
The geology and gravel masses of the
Trout Lake region, Vilas County, Wis: *Wis Acad Sci*
Trans 31: 305-322

Thwaiter FT and Bertrand, Kemmer (1957)
geology of the Door Peninsula, Wisconsin
GSAB 68: 831-880

Later bibliography of Wisconsin Pleistocene ~~not arranged in order~~

Note: error in old bibliography: Martin should be Bull. 36 and this was republished in 1932

- 9 Mathiesen, J. T., (1940) The Pleistocene of part of northwestern Wisconsin, Wis. Acad. Sci. Trans., v. ol. 32, p. 251-272
- 13 Thwaites, F. T., (1943) Pleistocene of part of northeastern Wisconsin, Geol. Soc. Am., Bull., vol. 54, pl 87-144.
- 14 Thwaites, F. T., (1949) Geomorphology of the basin of Lake Michigan, Mich. Acad. Sci., Papers, vol. 33, P. 243-251.
- 15 Bean, E. F., and Thompson, J. W., Jr., Topography and geology of the Brule River basin, Wis. Acad. Sci., Trans., vol. 36, p. 7-17. (glacial part brief)
- 8 Huff, L. C., (1941) The sedimentology and physiography of Wisconsin glacial outwash in the Chippewa River, Ill. Acad. Sci., Trans., vol. 34, p. 167. (Apparently very brief)
- 11 Stratton, C. G., (1943) The older drift of Wisconsin, Sci. Monthly., vol. 58, p. 45-49.
- 76 Hole, F. D., (1943) Correlation of the glacial border drift of north central Wisconsin, A m. Jour. Sci., vol. 241, p. 498-516.
- 12 Bretz, J. H., (1950) Glacial Lake Merrimac, Ill. Acad. Sci., Trans., vol. 43, p. 132-136.
- 10 Murray, R. C., (1953) The petrology of the Cary and Valdres tills of northeastern Wisconsin, Am. Jour. Sci., vol. 251, p. 140-155. (1930)
- 34 Ellsworth, E. W., and Wilgus, W. L., the varved clay deposit at Waupaca, Wis., Wis. Acad. Sci., Trans., vol. 27, p. 99-111. (1932)
- 4A Ellsworth, E. W., Varved clays of Wisconsin, Wis. Acad. Sci., Trans., vol. 27, p. 47-58.
- 12 Thwaites, F. T., (1929) Glacial Geology of part of Vilas County, Wisconsin, Wis. Acad. Sci., Trans., vol. 24, p. 109-125
- 57 Fries, Carl Jr., (1938) Geology and ground water of the Trout Lake region, Vilas County, Wisconsin, Wis. Acad. Sci., Trans., vol. 31, p. 305-322.
- 15 Thwaites, F. T., and Bertrand, Kenneth, (1957) Pleistocene geology of the Door Peninsula, Wisconsin, Geol. Soc. A m., Bull., vol. 68, p. 831-880. (1954)
- 6 Harder, A. H., and Drescher, W. J., Ground-water conditions in southwestern Langlade County, Wisconsin, U. S. Geol. Survey Water-Supply Paper 1294

A B C D E F G H I J K L M N O P Q R S T U V W

STATE OF ILLINOIS
WILLIAM G. STRATTON, GOVERNOR
DEPARTMENT OF
REGISTRATION AND EDUCATION
VERA M. BINKS, DIRECTOR
SPRINGFIELD
BOARD OF NATURAL RESOURCES
AND CONSERVATION
VERA M. BINKS, CHAIRMAN
GEOLOGY - WALTER H. NEWHOUSE
CHEMISTRY - ROGER ADAMS
ENGINEERING - ROBERT H. ANDERSON
BIOLOGY - ALFRED E. EMERSON
FORESTRY - LEWIS H. TIFFANY
UNIVERSITY OF ILLINOIS
DEAN WILLIAM L. EVERITT
SOUTHERN ILLINOIS UNIVERSITY
PRESIDENT DELYTE W. MORRIS



STATE GEOLOGICAL SURVEY DIVISION

LOCATED ON THE CAMPUS OF THE UNIVERSITY OF ILLINOIS

JOHN C. FRYE, CHIEF
NATURAL RESOURCES BUILDING
URBANA

December 9, 1957

Mr. F. T. Thwaites
Department of Geology
Science Hall
University of Wisconsin
Madison, Wisconsin

Dear Mr. Thwaites:

The pamphlet to accompany the glacial map will contain a selective bibliography with emphasis on recent contributors, similar to that in G.S.A. Special Paper 60, which accompanied the Glacial Map of North America.

Will you please revise for us the bibliography for Wisconsin given on page 26 of Special Paper 60, Part 2? The references are to be set up in the present G.S.A. style.

We shall also need a list of sources of information, essentially as on the Glacial Map of North America.

If possible we would like to have this information before January 15.

Sincerely yours,

H. B. Willman
Geologist and Head
Section of Stratigraphy
and Areal Geology

11 Jan., 1958

Dr. E. B. Willman,
State Geological Survey
Natural Resources Bldg.,
Urbana, Illinois

Dear Dr. Willman:

When I wrote you yesterday I later discovered that I had left out two things.

First I forgot to transform the new references to the present ^C S. A. topography. However they will have to be put into the old list and the changes are not great.

Second, I neglected to give my sources of data. If you will look at my Fig. 1 of the Door Peninsula paper you will find an index map giving the names of authors of that area. Of course I made changes even in my 1943 map to meet the data in the 1957 map. Most of the areas mapped by Alden and by me I used my report on Vilas Co., Lovvett's report on the Lake Superior region, Mathieson on Barron County, various soil maps of doubtful interpretation maps in the files of the State Survey and well, a lot of guessing. I did NOT use any of Medinan's work. I ought to have used the air photos at the Highway Commission but time and oversight forbade. These would have helped guess for the sandy soils were almost all burned over whereas the till soils are or were still what the lumberjacks call "green timber." Prof. Black is to have a student work up there I hear.

Sincerely yours,

41 North Roby Road
Madison 5, Wisconsin
January 7, 1958

Dear Ella In:

Flora called yesterday and said that you had just returned home after a four week siege in the hospital.

If you have had time to open your cards, I think you ave found a picture of Becky. They arrived here at supper time on December 23. Barbara had had Becky to the doctor in the morning and the latter had told her that if Becky's diarrhea continued over 24 hours she was to see a doctor here. The 24th Barbara was busy with the baby in the bathroom and I was in the laundry. Accordingly we phoned Dr. Weston on Christmas Eve and he phoned a prescription to the neighborhood pharmacy. The baby improved but was not cured. Tom, therefore, had to take them both to the outpatient clinic at the Wisconsin General on Thursday morning. Another round of medicine and she was all right. I thought she would never get filled up. I do not know how many meals she ate a day. Tom and Barbara said her legs must have been hollow. Then Barbara developed an awful sinus infection and she had to take a taxi to see Dr. Taborsky. He gave her a penicillin shot and she was to return on Monday. She was much improved over the week end but not entirely well. She had to go back on Monday for another shot. The latter seemed to do the trick.

Carol and Bill came on Christmas Day in a snow storm and were driven by her parents from Milwaukee. Mr. and Mrs. Thomas also arrived by car from Waukesha. We had eleven adults for Christmas dinner. Fortunately I was able to get my cleaning woman to do the dishes for me. I certainly appreciated her accommodation. Carol left for Milwaukee on Saturday and Bill on Sunday. On Tuesday Bill phoned that they had to go to Chicago by rail because the North Central was not operating on account of the snow storm. Yesterday we received a card from Bill saying that the new year came in just as they were leaving the airline parking lot in San Francisco and that the phone was ringing when they entered their house in San Jose. It was Carol's folks.

Bill is now taking electric~~al~~ engineering at San Jose where Carol is the girl scout executive. He was with an engineering unit the last three months in Korea and it was then that he knew he definitely wanted to go into engineering.

Tom is in Rochester and working on his thesis. He hopes to finish in either June or next January depending on how his research project turns out.

I hope you continue to improve and will soon be out again. Wish I could come and call on you. The Best Wishes for the New Year. Fred also sends his.

Sincerely,

WISCONSIN GEOLOGICAL ALUMNI CLUB
1712 SOUTH TROOST
TULSA, OKLAHOMA

December 10, 1957

Mr. F. T. Thwaites
41 North Roby Road
Madison 5, Wisconsin

Dear Mr. Thwaites:

This committee advised the alumni by a letter dated July 2, 1957 of the results of a meeting held in Madison on May 31, 1957. It was our unanimous conclusion that all of the initial efforts of the committee should be directed towards assisting Dr. Cameron and the Geological Department in obtaining additional space for its operations. In order to accomplish this objective it was decided to submit a report summarizing the accomplishments of those trained in the Geological Department and call attention to the importance of this training to the state of Wisconsin and to the nation. The report was prepared and submitted in October to President Fred, each member of the Board of Regents, and the Governor of Wisconsin. A copy is attached for your information.

The committee was advised through various channels that this report created considerable interest on the campus and created sympathy in the plight of the Geological Department. In the meantime, developments indicated that because of the demands of other departments and priorities established by the building committee there is no possibility of a new building for the earth sciences in the near future. This information was particularly discouraging because the legislature had recently passed an act permitting the University to finance new buildings with outside capital by pledging a portion of the tuition fees. Nevertheless, the committee decided to continue its efforts in view of the favorable impression of its report.

A second meeting of members of the committee was held in Madison on November 8. Dr. Cameron advised that there is a good possibility of obtaining additional space for research through the Wisconsin Alumni Research Foundation. Members of the committee and Dr. Cameron met in President Fred's office and discussed the space situation with him and other officials of the University including Vice-President Ira L. Baldwin, Professor Fred H. Harrington, Dean Conrad D. Elvehjem of the Graduate School, and Dean Kurt F. Wentd of the School of Engineering. These men are very influential in the allocation of space and new construction. The committee noted a favorable sentiment which is expected to result in additional space for research facilities apart from the space in Science Hall. This will probably be made available in buildings recently purchased or which will soon be purchased by the University in its expansion program. There is a distinct possibility that the W.R.A.F. will construct a temporary building for research facilities in the event other facilities are not made available.

The committee has scheduled another meeting in Madison during the month of May 1958. At that time, it will review the progress made in solving the department's space problem and it will also formulate plans for assisting the Geology Department in other ways. The committee gratefully acknowledges the receipt of contributions for mailing expense from many alumni. We are pleased to report that approximately 200 alumni have written, all expressing moral support for our objectives.

Mail addressed to the following list of alumni has been returned. If you happen to know the address of any person on this list, please advise us.

Very truly yours,
J. M. Wanenmacher, Chairman
C. G. Strachan, Secretary

Address Unknown

Bailey, Henry H.
Bakker, Daniel
Barrett, James, B.S. 1951
Barton, Louis A., B.A. Mich.
Grad. Work Wis. 1911
Baumgardner, Luther R., B.S. 1951
Bradt, Harlan H.
Chadwick, Russell H. W., B.S. 1941
Chickering, Wallace W., Ph.B. 1940
Crump, Mrs. Robert (Ruth Dudley) B.A. 1938
M.A. 1939
Deal, Clyde, M.S. 1947
DeWys, Mrs. E. Christian
Douglas, Benjamin T., Ph.B. 1941
Emerson, Mark, B.S. 1952
Erdmann, Betty Ann, B.S. 1949
Esch, Oscar, B.S. 1948
Ferrell, Mary Lee S., B.S. 1950
Filaseta, Leonard, Ph.B. 1935
Findlay, Richard K., B.S. 1949
Ford, Donald C., B.S. 1948
Franklin, Louis, B.A. 1921
Furse, George D., B.S. Queens Univ. 1924;
M.A. Columbia 1928; Grad Student Wis.
1930-33
Gericke, Wesley O., B.S. 1922
Harding, Norman C., B.S. 1948
Hayward, Charles W., B.S. 1951, Grad.
Work 1951-53
Heimstead, Robert C., B.S. 1950
Hendrickson, Gerth, Ph.B. 1940
Holbrooke, George L., M.S. 1928
Howes, M. H., B.A. 1923
Imhoff, Wallace G., A.B. 1912
Inderberg, James G., B.S. 1949
Jefferds, Peter, B.A. 1951
Kettner, Keith B., M.A. 1952
Kindschi, Kenneth H. B.A. 1940
Klinger, F. L., M.A. 1952
Koplin, Roy, B.A. 1928
Kundert, Harold J., B.A. 1935
Kurtenacker, Karl S., B.A. 1931
Laing, William E., B.S. 1951
Larson, Duane S., B.S. 1950
Larson, Lloyd, B.S. 1952
Liesch, Bruce A., B.S. 1950
Longyear, Clyde, 1914-15
Lorenzen, Robert M., B.S. 1951; M.S. 1952
Lyon, Robin L., B.S. 1952
Maby, Robert L., B.S. 1947, Grad. Work 1947-48
Manke, Donald W., B.S. 1949
Marrall, Gerald E., B.S. 1950, M.S. 1951
Maruchek, Joseph L., B.A. 1940
Mayer, Edward A., B.A. 1933, M.A. 1934
Meek, W.B., B.A. 1934; M.A. 1935;
Ph.D. 1947
Morris, T.Q., ex. 1946
Murphy, Paul R., ex. 1923
Olson, David, B.A. Mich. 1902;
M.S. Wis. 1910
O'Neil, Robert L., B.A. 1946
O'Rourke, Joseph E., B.S. 1951
Pentland, Arthur G., B.S. 1926, Univ.
of Manitoba; M.A. Toronto, 1928;
Ph.D. Wis. 1930
Peterson, Richard J., B.S. 1951
Quick, John V., B.S. 1951
d'Quintego, Julia D., (Ledeboer)
Randall, J.R., Ph.D. 1934
Rasche, Herbert H., B.A. 1929; M.A.
1934, Wis. Ext. Div. 1936-38
Reade, Harold O., B.A. 1928
Riley, Daniel B., B.A. 1931
Roberts, Warren C., M.S. 1951
Rudolph, Joseph, M.S. 1928
Salton, George H., B.S. 1923, Queens'
U.; M.S. 1929 U. of Wis.
Scott, James W., M.S. 1952 Grad Work
Smith, Arthur F., B.S. 1901
Steierman, Bernard L., B.A. 1939
Sterr, Arnold L., B.S. 1951
Taylor, H. Gordon, M.S. 1922
Tennant, Robert H., Ph.D. '40; Ph.M. '42
Tiddens, Adolph P., B.S. 1950
Ting, O. Chu, M.S. 1922
Ulrich, Ronald, B.S. 1952
Valiullah, Mohammad, M.S. 1949
Vance, J.L. Grad. Work 1940-41
Vierheilig, James, B.S. 1952
Volkman, William, B.S. 1951
Wakefield, H. Dorr, B.A. 1915
Welsh, Harold L., B.S. 1910
Wertepny, Eugene R., B.S. 1951
Wheelwright, James B., B.A. 1933
Wilkerson, Albert S., A.B. 1921; A.M.
1922; Ph.D. Mich. 1938
Williams, Frank E., B.A. 1910; M.A.
1912; Ph. D. 1928
Willoughby, Richard, B.S. 1951



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY-18
WASHINGTON 25, D. C.

Prof. F.T. Thwaites,
University of Wisconsin,
Madison, Wisconsin.

JUN 19 1957

Dear Prof. Thwaites:

The Library of the U.S. Geological Survey is anxious to secure copies of all of the Field Conference Guidebooks of the different organizations which have issued such guidebooks and we have been told that you were the leader of the 1950 and the 1953 conferences of the Midwestern Friends of the Pleistocene.

If guidebooks were prepared for these meetings and if they are still available, I would appreciate it very much if you could let us have copies of them. If you can, please send them to the following address:

Librarian,
U.S. Geological Survey,
Room 1033, General Services Administration Building,
Washington 25, D.C.

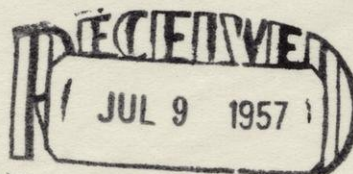
We appreciate your kind consideration.

Yours very truly,

William H. Heers
Librarian

Ref. F.T.T.

If any guidebooks were prepared we do not even have one.



Wisconsin Geological Survey
Madison, Wisconsin

G.H.

22 Jan., 1958

Mr. William H. Heers, Librarian,
U. S. Geological Survey,
Washington 25, D. C.

Dear Sir:

When your letter of 19 June came I was just packing up to leave the Geological Survey at Science Hall and so turned the letter over to Mr. George Hanson, State Geologist. When I returned from my vacation it was given back to me and I did not realize that he had not answered it. Your letter of 14 October was left unanswered until I could look over the material on my porch. It is now too cold there to look more but I failed to find any of the guidebooks you ask for. I was a leader in the sense that I talked at stops in the field and furnished data for the guidebooks. But Prof. Sheldon Judson who is now at Princeton was the actual head of both projects and keep the extra guidebooks. I have no extras myself. The material I furnished in 1953 is contained in my recent paper on "Pleistocene of the Door Peninsula, Wisconsin" which appeared in the last volume of the G. S. A. Bulletin. I am now no longer connected with either the State Survey or the University of Wisconsin having retired as of 1 July 1957. Please pardon my long delay in answering.

Sincerely yours,



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

18

OCT 14 1957

Prof. F. T. Thwaites
University of Wisconsin
Madison, Wisconsin

Dear Professor Thwaites:

On June 19th, I wrote to you as follows:

"The Library of the U.S. Geological Survey is anxious to secure copies of all of the Field Conference Guidebooks of the different organizations which have issued such guidebooks and we have been told that you were the leader of the 1950 and the 1953 conferences of the Midwestern Friends of the Pleistocene.

"If guidebooks were prepared for these meetings and if they are still available, I would appreciate it very much if you could let us have copies of them. If you can, please send them to the following address:

"Librarian, U.S. Geological Survey
Room 1033, General Services Administration Building
Washington 25, D. C.

"We appreciate your kind consideration."

I have had no reply to my letter and I am sure it was lost in transit and did not reach you. I shall appreciate it if you will let me have a reply to this letter as soon as possible.

Yours very truly,

William H. Heers
Librarian

WISCONSIN GEOLOGICAL ALUMNI CLUB
1712 South Troost
Tulsa 12, Oklahoma

April 21, 1958

Mr. F. T. Thwaites
41 North Roby Road
Madison 5, Wisconsin

During the Wisconsin luncheon at the recent AAPG convention in Los Angeles, Dr. Lewis Cline informed us that the Geological Department was recently allocated considerable additional space. A small amount of additional space was made available in Science Hall and the University has rented two connected buildings with parking space near the old Forest Products laboratory. These two buildings are to be made into a departmental research center. The geophysical branch has moved into one building and in the other research facilities for the other two branches of the department are being set up. Between 12 and 20 advanced graduate students and staff can be accommodated.

The long range building program now includes provision for construction of a new building for the Geological Department. The immediate objective of this organization has been accomplished and the committee has decided to suspend its visits to the campus until the Geological Department again needs its assistance.

Dr. Cline advised us that the department has frequent need of modest sums of money to provide certain items of equipment not included in the budget granted by the University. For example, it was necessary to purchase a drafting table for the new research center and funds were not available through regular channels. We are taking this opportunity to solicit contributions to establish a fund to be used by the department in instances such as this. Please give what you can afford. If sufficient funds are raised through this appeal, an alumni supported scholarship can be established. The suggested amount is from \$5.00 to \$100.00.

Please send your contribution to the above address. Since our funds for correspondence are exhausted with this mailing we will retain a small amount for future expenditures of this nature and forward the remainder to the department.

In conclusion, the committee takes this opportunity to express its thanks and appreciation for your excellent moral support. A surprisingly large number of replies have been received in answer to our circular letters. This expression of your interest in the problems which confront the Geological Department of Wisconsin University is particularly gratifying.

Sincerely,

WISCONSIN GEOLOGICAL ALUMNI CLUB

J. M. Wanenmacher, Chairman

STATE OF ILLINOIS
WILLIAM G. STRATTON, GOVERNOR
DEPARTMENT OF
REGISTRATION AND EDUCATION
VERA M. BINKS, DIRECTOR
SPRINGFIELD
BOARD OF NATURAL RESOURCES
AND CONSERVATION
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FORESTRY - - LEWIS H. TIFFANY
UNIVERSITY OF ILLINOIS
DEAN WILLIAM L. EVERITT
SOUTHERN ILLINOIS UNIVERSITY
PRESIDENT DELYTE W. MORRIS



STATE GEOLOGICAL SURVEY DIVISION

LOCATED ON THE CAMPUS OF THE UNIVERSITY OF ILLINOIS

JOHN C. FRYE, CHIEF
NATURAL RESOURCES BUILDING
URBANA

March 6, 1958

Mr. F. T. Thwaites
41 North Roby Road
Madison 5, Wisconsin

Dear Mr. Thwaites:

Under separate cover I am sending for your criticism the original copy for the Wisconsin glacial map and the revised copy which I have just completed.

Several changes were required by the new legend, a copy of which was sent you. The combination of eskers, pitted outwash, and other ice-contact deposits under one pattern, eliminates mapping eskers in areas of pitted outwash.

Showing as many as four drumlins in some townships (to indicate maximum abundance) has permitted the addition of several from Alden's map and your Door Peninsula map. You may wish to add a few in other areas, This puts the map in better agreement with other states.

The decision to show surface deposits only and no overprints for lake deposits has resulted in dropping the dotted pattern along Lake Superior and Green Bay. It would be possible to omit the lake deposits and map the moraines if you prefer.

OK
The lake largely in Lafayette and Green counties seemed to me to come under the category of lakes known to be present from physiographic or other features, but not known to be represented by widespread lacustrine deposits. Consequently, I have shown its margin by the dotted line pattern. This will be used for many temporary lakes along the ice front. It can be changed if you prefer.

I have not colored in the areas of drift outside the Wisconsin. They are to have different colors from the Wisconsin. Will you please write in pencil in these areas the age assignment you now give them.

probably OK
The problem of blending your mapping with that of upper Michigan has been the most difficult. The Michigan map is essentially a copy of the mapping in Leverett's Prof. Paper 154. As the Michigan mapping does not differentiate types of outwash and the moraines do not match, I can see no possible formula for blending the maps. It seems to me that the only compromise feasible at this time is to map a narrow band of outwash along the Brule and Menominee Rivers and let the mapping stand on both sides. I have likewise done this along part of the Minnesota boundary to differentiate outwash from pitted outwash. The matching with Minnesota is less difficult because Wright shows some large areas of pitted outwash. Do you have any alternatives to suggest?

STATE OF ILLINOIS

WILLIAM G. STRATTON, GOVERNOR
DEPARTMENT OF
REGISTRATION AND EDUCATION
VERA M. BINKS, DIRECTOR
SPRINGFIELD
BOARD OF NATURAL RESOURCES
AND CONSERVATION
VERA M. BINKS, CHAIRMAN
GEOLOGY - WALTER H. NEWHOUSE
CHEMISTRY - ROGER ADAMS
ENGINEERING - ROBERT H. ANDERSON
BIOLOGY - ALFRED E. EMERSON
FORESTRY - LEWIS H. TIFFANY
UNIVERSITY OF ILLINOIS
DEAN WILLIAM L. EVERITT
SOUTHERN ILLINOIS UNIVERSITY
PRESIDENT DELYTE W. MORRIS



STATE GEOLOGICAL SURVEY DIVISION

LOCATED ON THE CAMPUS OF THE UNIVERSITY OF ILLINOIS

JOHN C. FRYE, CHIEF
NATURAL RESOURCES BUILDING
URBANA

May 8, 1958

Mr. F. T. Thwaites
41 North Roby Road
Madison 5, Wisconsin

Dear Mr. Thwaites:

We still do not have an entirely satisfactory solution to the problem of the differences between the Wisconsin and Michigan maps, but you and Miss Martin are in agreement that showing a continuous band of outwash along the Brule is not the answer.

This will have to be considered by the committee at its meeting here in Urbana June 3-5. I shall also bring up the matter of mapping eskers separately, on which we agree.

The matter that needs further consideration concerns the pre-Wisconsin drift. We did not ask you to differentiate ages on the first draft which you prepared.

We are not attempting to map separately the substages of the Wisconsin, but the drift of different stages will be shown in different colors. I am enclosing a rough copy showing the fronts you mapped. In preparing the final copy, we used the Wisconsin colors -- brown for end moraine and green for ground moraine -- on all the area outlined in green on this copy. The areas numbered 1 to 4 were left colorless because I was not certain of their age.

From the Glacial Map of North America and your Outline of Glacial Geology, it appears that you now consider areas 2, 3, and 4 to be Wisconsin in age. The subdivisions of area 1 shown in red are copied from the Glacial Map of North America. The boundary for the front of the Illinoian is about on the line with a boundary in Minnesota -- The new Trier Moraine -- which Wright calls Illinoian (?). Wright shows no Nebraskan in Southeastern Minnesota but calls Kansan all the area outside the Illinoian and Wisconsin to the Mississippi. Iowa still shows the Kansan-Nebraskan differentiation used on the Glacial map of North America. We will have to make

White sand

*2 distinct
m.g.*

Just like any the Kansan

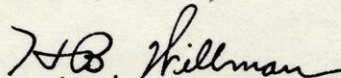
Mr. F. T. Thwaites
May 8, 1958

Page 2.

the best identification that we can, so please let me know what you prefer to show in areas 1 to 4. If we retain the red lines in area 1, please correct them if necessary and return. ^{point} ^{WV}

Thank you very much for all your help. I hope we will have this job out of the way in a few weeks.

Sincerely yours,



H. B. Willman
Geologist and Head
Stratigraphy and Areal
Geology Section

Encl.
Map

22 May, 1959

Dr. H. B. Willman, Geologist
State Geological Survey,
Natural Resources Bldg.,
Urbana, Illinois

Dear Dr. Willman:

I am afraid I delayed quite a bit on answering yours of the 8th. I am doing so and enclosing for you to keep a copy of Dr. Hole's report on the drifts of north-central Wisconsin. I cannot send you a copy of Mathiesen's report on some of the area west of that for no separates were printed due to his making no written request for them.

I think you ought to be able to just end Leverett's moraines north of the Michigan-Wisconsin line. The strip of terrace along the river is not glacial outwash but is postglacial. ~~I~~ mapped some of it that way in 1943.

As to pre-Wisconsin drift in Wisconsin recent studies have cut into it so much that it is now a question whether or not there is any. I just talked with Prof. Black this morning about this. He is working in Pierce County and has found no real age difference from the Cary moraine east to Chippewa River. The tentative boundary once given in the Outline should be abandoned. The day of Lawrence Martins philosophy that there has been no erosion and no weathering since the Wisconsin glaciation are gone forever. We must recognize the difference in preglacial topography and bedrock. My feeling is that area 4 is definitely Wisconsin, possibly Iowa but pre-Cary anyway. Area 3 is declared by Hole as probably Wisconsin on the basis of the soil profile. This leaves areas 1 and 2. I have extended in pencil a tentative boundary between 1 and 4. I think now that area 2 is simply the rough area of Precambrian rock along the Wisconsin valley. Here much of the granite is deeply disintegrated and postglacial erosion has been great. As Weidman found it is very hard to decide just which crystalline boulders are real erratics. I thought that there are some in southeastern Marathon County as far west as I worked. See my 1943 map. Now for area 1. I have done little work there. The bed rock is sandstone. There is so little drift that you just can't get reliable soil profiles. There has been much erosion since it was glaciated. It could be either pre-Wisconsin or an early Wisconsin drift. I am sure I would now scrap the idea of Nebraskan drift along the Chippewa valley. And probably this would go for Kansas too. Some parts of the narrow strip along Mississippi valley were examined by me in 1920. Here are large cobbles but no boulders. No igneous rocks were found. Could postglacial weathering have destroyed them? Near Luverne I found fairly fresh granite boulders on the uplands. Black visited some of the Minnesota localities and thought that the differentiation of some of the tills was an error. Some supposed tills may be plowed up lake clays. I felt the same about Wright's Valdres in Minnesota. Apparently they did not use mechanical analyses to distinguish tills from assorted deposits. I spent a day with Gould in the Dakota County area in 1941 and felt the same way about Leverett's "old red drift". I have a set of black and white photos from that trip. We then crossed over to Rice Lake, Wisconsin and decided that most of the surface drift is not very old. Hole was with me then.

I am afraid this is all I can do for you. Younger men must follow the trail. But if there is anything else I can do I will try my best.

Sincerely yours,

F. T. Thwaites

23 May, 1958

Dr. H. B. Willman,
State Geological Survey,
Natural Resources Bldg.,
Urbana, Illinois

Dear Dr. Willman:

On checking over my letter of yesterday

I found that for the second time I had forgotten to mention the White Rock moraine of northern Illinois. I had noted on the first map you sent that Alden who covered the area foot long ago failed to discover any such moraine. I also failed to notice it on several crossings. The first I knew of it was when it appeared on the map in the guidebook for the International Congress trip. Some of my crossings were in Illinois! But I recall that one day in 1929 Holmes, Apfel and I drove right across Yankee Ridge at Urbana and never saw it! Such weak moraines are tricky. If you want to show it in Wisconsin go ahead as far as I am concerned. On the other hand, some geologists were in school that every drift has an endmoraine at the edge. Could someone have applied this now outworn idea? I would like to look again with greater experience but it is not likely that I ever will.

Sincerely yours,

Mr. F. T. Thwaites
March 6, 1958
Page 2

but you can do
OK
As a result of your field work, the matching with Illinois has required only minor compromises along that line. However, your new mapping did not blend well with the old along the north line (the second tier of townships), and I have had to join areas in what seemed the most reasonable fashion. Also, I have extended a moraine from Sharon north to the Darien moraine because it is well developed on the Illinois side (Harvard quadrangle) and is traceable on your Delavan quadrangle. It can be cut off close to the state line if you prefer. *we did not remap*

You show only one outstanding geologic section - Two Creeks. Did you wish to add others? The descriptions on the Glacial map of North America (footnotes) are out of date. The revised copy might be "(1) Valdres till overlying sand and silts containing the Two Creeks forest bed. Type section of the Two Creeks interstadial (Thwaites and Bertrand, 1957)". Please modify this as you wish.

The committee is to have a final meeting to turn in the maps in the next few weeks and I will greatly appreciate it if you can return the two maps soon.

Sincerely yours,

H. B. Willman

H. B. Willman
Geologist and Head
Section of Stratigraphy
and Areal Geology

41 N. Roby Road, Urbana, Ill.
14 March, 1953

Dr. H. B. Willman,
State Geological Survey,
Natural Resources Bldg.,
Urbana, Illinois

Dear Dr. Willman:

Today I was able to find both Messers Hanson and Black in their respective offices and go down to see them. Now I can reply to yours of the 6th.

The maps arrived safely and I am having the Survey return both to you. They must have the new legend for I cannot find a copy here. All object strongly to including eskers with pitted outwash. They indicate ice direction and occur in ground moraine not in outwash. The esker-like ridges which have fooled many in outwash are crevasse fillings and their origin is different although also due to streams between ice walls. ~~WE OBJECT.~~

My eyes bothered me so much when I got to drumlins that I am afraid I skipped on number. Anything you do will be all right.

In areas I have mapped I do not think of any moraines below the level of glacial lakes. Your mapping looked all right to us.

We also agree to the wisdom of not trying to correlate the drifts outside the Gray moraine. Some can be determined but others must take the famous "trained eye" approach made famous by Weidman but used earlier by McGee. I think the general tendency is to think that many of these are not really pre-Wisconsin drifts. The effect of bed rock on erosion is marked. Some are probably not older than Tazewell. I made no commitments whatever. Weidman deserved the nickname of Samuel Weidman when he numbered his inferred drifts instead of correlating them!

I agree that Lovett's mapping of northern Michigan will not check with mine. Lovett was a foot geologist and refused to walk through brush because he made such slow progress. He got information from timber cruisers.

But I DO NOT AGREE about the non-pitted outwash along Keweenaw River. There is a terrace in part mapped by me in 1943 and shown on the new topo maps. We have no air photos here. Someone in Michigan could check it with the photos but the new maps (topographic) were made from such photos. This terrace is not normal outwash but is largely postglacial. Ice meltwater drainage could not go down the river because the course was extended southeast as the glacier melted back into Green Bay. Normal ice drainage was southwest. ~~WE OBJECT.~~

There is a terrace of non-pitted material along the St. Croix River. See the new topo maps. This river carried the flow from Lake Duluth.

When "Operation State Line reached about 6 miles north of that boundary last May Dr. Black remarked "We havnt time to remap all of Aldens work" and turned homeward. Maybe we might get down there again this summer. He talked of it today.

Two Crocks is the only sure-enough old soil horizon known to any of us. Weidman had one near Woodville in northwestern Wisconsin from which the wood is now in Flints hands but as for asking anything out of his field notes neither Black nor I could do it so I left it out.

Sincerely yours,

HAROLD F. WILLIAMS
P. O. BOX 1190
MADISON 1, WISCONSIN

18 May 1957

Prof. F. T. Thwaites
41 North Roby Road
Madison 5, Wis.

Dear Prof. Thwaites:

I have received the colored enlargement of the glacial map slide and am glad to have it. Enclosed with thanks is my check for \$3.08.

The glacial history of Wisconsin is indeed a most fascinating subject.

Yours very truly,

Harold F. Williams



Dear Army:

Thank you for your nice note and the latest news about the grandchild.

Yes, I had myself a pretty rugged time, but I'm on the mend now.

Apparently I was so stupid that I did not realize that I was running around since July or August with an ever increasing congested lung. The price

for such dumbness was pneumonia with heart complications and four weeks in the hospital. Rah, Rah.

I'm in my apartment now under the care of the R. N. who was with us about 8 years taking care of mother and who was with me in the hospital. She is wonderful.

My best to you all.

Love

Ellen

Jan 17/57
Houston

W

Wisconsin Academy of Sciences, Arts, and Letters
Madison, Wisconsin

2/14/1958

Professor F.T.Thwaites,
Madison, Wisconsin.

Dear Professor Thwaites:

The Council of the WISCONSIN ACADEMY

OF SCIENCES, ARTS AND LETTERS requests me to inform you that
you are now an honorary LIFE MEMBER of the Academy, in recognition
of more than 40 years in the ACADEMY, and your long and faithful
service to it and to society. I am of course personally happy
to inform you of this action of the Council.

Sincerely,

Francis D. Hole
Francis D. Hole,

Secy-Treas.

31 August, 1957

Mr. L. F. Warrick,
Public Health Service,
Washington 25, D. C.

Dear Mr. Warrick:

Yours of the 21st was delayed in reaching me because I was laid off as of July 1 and now seldom visit Science Hall. I am busy finishing up papers which I never had time for before.

The paper you mention on ground-water quality has not been officially published. It was photostereographed by the Engineering Experiment Station in their report No. 8. Since then I made some alterations and when I left Mr. Hanson was having it typed. If this was finished I do not know. The report is purely on ground water and purely on chemical quality. The state was divided into districts somewhat like those of Weidman but based on geology. I divided drift waters into two areas, one with abundant dolomite, one with little. The rock waters were divided into Niagara dolomite, soft waters of sandstone border, mixed waters, high sulphate waters and saline waters. They had a few copies at the Survey for I returned one when I quit leaving only my personal copy. I will try to call them to send you one if they have it. It was sent only to those who attended the conference in April, 56.

Bill is married and is now on the Pacific Coast. Tom visited us recently with our granddaughter. Bob is at Platteville.

Sincerely yours,



DEPARTMENT OF
HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE
WASHINGTON 25, D. C.

IN REPLYING, ADDRESS THE
PUBLIC HEALTH SERVICE

REFER TO:

August 21, 1957

Dr. F. T. Thwaites
Geology Department
University of Wisconsin
Madison, Wisconsin

Dear Fred,

It has come to our attention that you have published a report entitled, "Occurrence and Chemical Quality of Ground Water in Wisconsin". This report would be of considerable interest to this department in our current study of water quality in this country. While we have been giving primary attention to surface waters, we are also quite interested in the ground water resources. Accordingly it would be appreciated if you could send us a copy of your report, or provide me with the reference in order that we can obtain this information.

Considerable time has elapsed since last had the pleasure of talking with you in Madison. It is understood there have been a number of changes in the staff. When again in that area, I will certainly try to contact you at the University.

Best regards to you and your family.

Sincerely yours,

Louis F. Warrick
Technical Services Consultant
Water Supply and Water Pollution
Control Program

Sent by Adeline



4-22-58

Aerial view of Lakes, groves and towns visible from the top of the CITRUS TOWER, Clermont Florida.

We took elevator up to top of tower. Saw this view thousands of citrus trees and beautiful lakes - highest spot in Florida, 60 miles from Gulf 60 miles from ocean. Beautiful country in Winter Park + Orlando. 1400 lakes in Florida. 20 guide in tower told us. Motels are super. Having a grand time - Best wishes
Lena



Color Card by R. Lasater, Aerial Photographers, Inc.

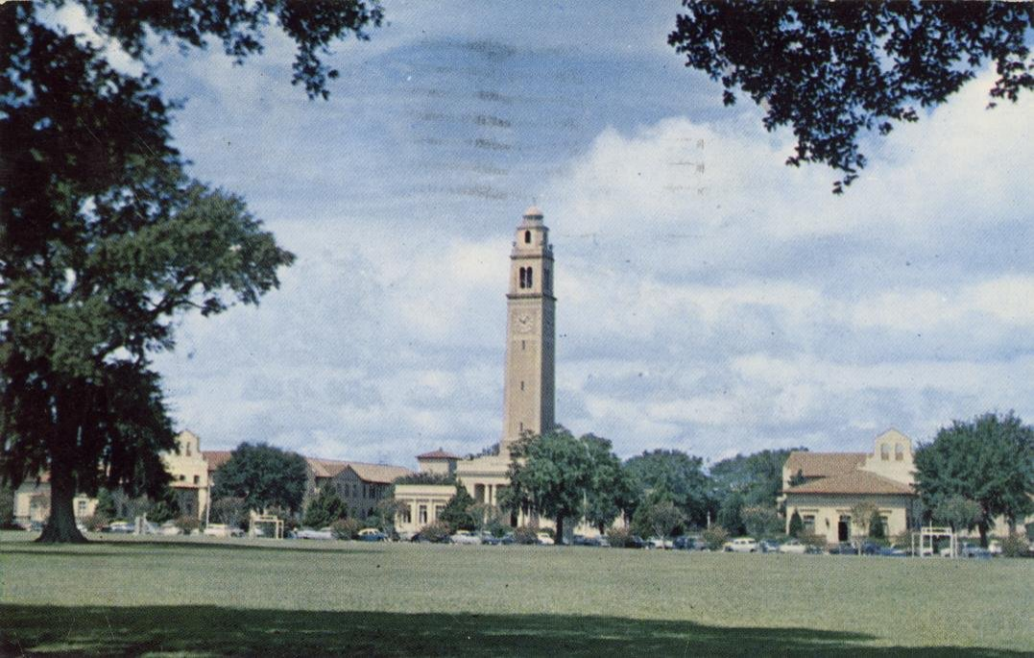


POST CARD

Address

Mrs. F. Thwaites
22 Roby Road
Madison 5
Wisconsin

32337



L. S. U. CAMPUS SCENE

A familiar sight to L. S. U. students and visitors is the 175-foot Campanille which dominates the campus.



POST CARD

Mrs. F. T. Phewater
41 Rody Road
Madison 5
Wisconsin

by COLOURPICTURE PUBLISHERS, INC., Boston 15, Mass., U.S.A.

Photo Composition by J. B. Guillaume, Jr.

Ektachrome by Bernie Holmes

Published by Bernard F. Holmes, Baton Rouge, La.

Save! Had a great time in New Orleans. The Campanille is a beautiful sight. We had a great lunch in the beautiful Capital building. The view from the Campanille is beautiful. We had a great time in New Orleans. The Campanille is a beautiful sight. We had a great lunch in the beautiful Capital building. The view from the Campanille is beautiful. We had a great time in New Orleans. The Campanille is a beautiful sight. We had a great lunch in the beautiful Capital building. The view from the Campanille is beautiful.

2 nd Feb., 1960

Mr. Raymond T. Zillmer,
1412 First Wisconsin National Bank Bldg
Milwaukee 2, Wisconsin

Dear Mr. Zillmer:

Your letter of the 31st. is at hand and I am sending all I can see my way to giving during the present "Tax Time" of year.

I was in hopes that for Ice Age features you might include
(1) the Forest Bed on the Lake Michigan shore just at north edge of
of Manitowoc County

(2) The wonderful drumlins near Goose Lake on State 30 west of
Lake Mills

(3) The rock exposure with two sets of glacial scratches at right
angles to one another at the Valders quarry southwest of Manitowoc

These are not terminal moraines but are of very great
interest. I would say that they are all superior to the
localities you mention farther north. Otherwise I agree
with you present plan of development.

Sincerely yours,

2

Ice Age Park and Trail Foundation of Wisconsin, Inc.

1412 FIRST WISCONSIN NATIONAL BANK BLDG., MILWAUKEE 2, WISCONSIN



A NON-PROFIT FOUNDATION DEVOTED TO PARKS AND TRAILS ACROSS WISCONSIN

RAYMOND T. ZILLMER, *President*
FREDERICK G. SCHMIDT, *Vice-President*
JAMES C. MALLIEN, *Secretary*

February 4, 1960

Mr. F. T. Thwaites
41 N. Roby Road
Madison 5, Wisconsin

(over)

Dear Mr. Thwaites:

I appreciate your becoming a member of the Ice Age Park and Trail Foundation. Kindly read the purposes set forth in the membership certificate herewith enclosed.

The United States Park Service is making a thorough survey of the Wisconsin moraines to determine what it will recommend.

I am enclosing a pamphlet describing the proposed park and trail and an enclosure describing the Foundation and its membership requirements together with an application for membership.

We welcome your assistance in securing members and shall send you, at your request, further reprints and Foundation data and applications.

We would like to give the Foundation the strength of broad support, for nothing is more convincing to public officials than to know that most of the people want this park and trail.

We hope to secure large contributions from those who can well afford them.

Very truly yours,

Raymond T. Zillmer

RTZ/met

We spend a lot to go faster . . . Let us spend a little to go slower

Dear Mr. Thwaites,

The areas you suggest should be included. We were more or less compelled to restrict the area because of the spectrum of the US Park Service to scattering the "junk areas". It would seem tho that the areas you mention should be preserved, especially the Forest Bed in Lake Michigan.

I shall keep your letter for further "work". I appreciate your membership for I realize that a "junk" should hardly be expected to contribute. The parallel moraines on the west side of the Green Bay Lake, which your booklet described so well are to me one of the most fascinating parts of the working of the glacier - for they illustrate so clearly the results of the retreat.

They too should be in the Park.

Fred West, Professor emeritus Harvard, formerly of Wisconsin, is on the Wisconsin Citizens committee.

Thank you again for your

suggestions

Sincerely yours
C. M. Thwaites

ICE AGE PARK AND TRAIL FOUNDATION
OF WISCONSIN, INCORPORATED

Bill



Nowhere in the United States are there available for public use glacial remains of the Ice Age equal in variety and beauty to those in Wisconsin. (The story in pamphlet form describing the Ice Age in Wisconsin will be mailed to you for ten cents.)

Purpose of the Ice Age Park and Trail Foundation of Wisconsin:

1. The Foundation will assist the federal, state and local governments in establishing and preserving a public park for future generations in the glacial formations of Wisconsin, 500 miles across the entire state.

2. It will assist in establishing in this park, a parkway drive following a curved line and the natural contours wherever possible, together with picnic spot waysides on the parkway for public use.

3. It will assist in establishing a trail for hikers and skiers with shelters in the nature of the Appalachian and John Muir Trails.

4. It will foster the education of the people, especially the young people, in the beauties and wonders of nature and its spiritual and health-giving values so that they will make greater use of such areas, as well as other outdoor areas, with a view to developing men and women who are strong and healthy, physically, mentally and spiritually.

The last is the most important purpose and is a long range object of 1, 2, and 3, as a constructive solution of juvenile problems.

Contributions to the Foundation (including amounts paid for membership) are deductible for federal and state income tax purposes. The Foundation invites everyone to participate and assist the above program by becoming a member on any of the following terms:

Basic Membership - \$1.00.

Annual Membership - \$5.00. Small memorial gifts are included in this category.

Life Membership - \$100.00.

Sustaining Membership - \$100.00 or more given annually.

Memorial or Recognition Membership - \$1,000.00 or more. Gifts may be made in memory of someone or in recognition of work done in Conservation or other public service.

Use of Proceeds:

1. To promote the above purposes of the Foundation by giving land or money to the governmental unit establishing the park.

2. To develop a particular area designated by a donor, or group of donors. However, before any money is allocated for a particular area, conferences will be held to make certain that any such specific area allocation will fit into the general plan.

3. To set aside substantial amounts for specific units or purposes - in separate, special or in trust accounts if desired.

Direct gifts to the governmental units involved may be made, but these should not be made until after conferences to ascertain suitability in the general plan, and then only through the Foundation which will supervise the gift to assure that the donor's wishes are carried out.

Ice Age Park and Trail Foundation of
Wisconsin, Inc.

1412 First Wisconsin National Bank Bldg.
Milwaukee 2, Wisconsin

We spend a lot to go faster - let us spend a little to go slower.

Citizens Committee to date

Walter Bender
Albert M. Fuller
August Derleth
Pearl L. Pohl
Warren M. Bach
Leo Tiefenthaler
Stanley Polacheck
Arthur Molstad
A. D. Sutherland
John Fraser, Jr.
Harold W. Story
Leo Klein
Ralph H. Petersen
Dr. M. G. Peterman
Thomas M. Kelly
Albert C. Fiedler
John A. Puelicher
Irving A. Puchner
John Visser
Frederick G. Schmidt
Henry W. Marx
Earl W. May
Frederick L. Ott
Owen J. Gromme
Charles P. Fox
Wesley Clendenning
Harvey A. Uber
J. F. Friedrich
F. Ryan Duffy
Alfred Lunt
Lynne Fontanne
W. D. Hoard
Robert D. Steele
Douglas Knight
J. Martin Klotsche
Fred O. Pinkham
F. T. Thwaites
Edward H. Heth
Louis Quarles
Clarence Sprecher
Thomas Tuttle
W. C. Fischer
Leslie DeBlaey
Harold Emch
Leon Peck
Les Werpel
Mrs. J. H. Hall
O. J. Falge
Syl. F. Adrian
Alfred O. Holz
Mrs. Alfred J. Kiekhaefer
Leonard F. DeBaker
Eugene Reigel
Robert Bliss
Sverre Roang
Clifford Zanton
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J. Edward Erickson
Hans Horne
Leslie Woodruff
Marshall Wiley
John Harmon
Harold Walters
Everett Duval
John Johnson
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E. A. Seymour
Oliver Hitch
Jim Quinn
Elsie Horning
James Frisch
C. Stanley Perry
Edward C. Watruba, Sr.
Eugene Wengert
J. C. Petersen
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Elmer Nelson
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Mr. and Mrs. Robert W. Baird
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with parkways, waysides, trails and shelters
across Wisconsin



RAYMOND T. ZILLMER, Chairman
1412 FIRST WIS. NATL. BK. BLDG.
MILWAUKEE 2, WISCONSIN

January 31, 1960

To the Members of the Citizens Committee:

A great deal has been accomplished since your appointment.

This letter covers the present status of the movement to establish an Ice Age National Park across the state, following for 500 miles the terminal moraines of the Wisconsin Glacier.

In the summer of 1958 we reconnoitered the entire 500 mile strip. In September, we took the U. S. Park Service experts over this area in what was necessarily a superficial survey. In October, the Park Service reported that Wisconsin had sufficient moraines to qualify for a park and recommended a further survey. In August, 1959, they conducted this survey and determined that there are major exhibits of the Ice Age in Wisconsin and that it will make further studies to determine which of these would make a suitable park. The principal concern of the Park Service is the administration involved in the wide dispersal of the moraines together with the present ownership of the land.

The program seems to be developing in the following directions: The state for the present will continue to develop the Devils Lake and Kettle Moraine areas and the federal government, the Chequamegon Forest. The United States may develop several areas, such as the areas (1) north of Janesville, (2) north of Chippewa Falls, (3) around Antigo, (4) some other area or areas--all areas being in terminal moraines. The state, counties, local governments, and the Ice Age Park & Trail Foundation will develop the intervening areas so that in the end there will be a continuous 500 mile trail and parkway which will be combined so as to complete the Ice Age National Park. A large part of this land is owned in county forests.

National Parks have usually been carved out of land already owned

We spend a lot to go faster . . . Let us spend a little to go slower.

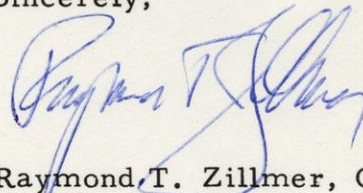
by the Federal Government. Today, however, we must buy the land to establish national parks, especially if they are to be located in the eastern half of the United States. The Park Service expects assistance in the form of gifts of land to supplement money raised by federal appropriations.

To help in this, we have organized the Ice Age Park & Trail Foundation of Wisconsin, Inc. Gifts to it are deductible in determining income taxes. We enclose a memo describing the Foundation and the type of memberships available. We hope that you will read it carefully and consider becoming a member.

A big membership will be of inestimable value, not only because of the money provided but to demonstrate to the government that the people really want this park even to the extent of helping financially. The Foundation to date has been responsible for the gift to the State of two shelters for hikers, costing several thousand dollars.

Will you consider this matter as early as possible. Those of you who already are members of the Foundation could help us by getting additional members.

Sincerely,



Raymond T. Zillmer, Chairman,
Citizens Committee.

RTZ mrr

UNIVERSITY OF MICHIGAN
ANN ARBOR
DEPARTMENT OF GEOLOGY

March 13, 1959

2

Fredrik T. Thwaites
Department of Geology
University of Wisconsin
Madison 6, Wisconsin

Dear Mr. Thwaites:

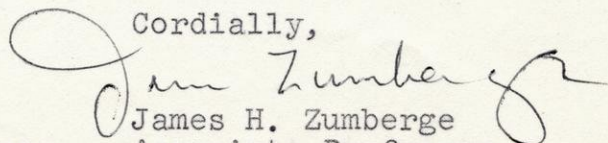
The Great Lakes Research Institute is holding its third annual conference in Ann Arbor May 6-7, 1959. This meeting is devoted to the present status and future needs in research on the Great Lakes. I have been asked to report briefly on the current geological research being done either in the modern water bodies themselves or in their drainage basins. This would include such areas as lake bottom sedimentation, beach deposits, geologic history of the Great Lakes, Pleistocene geology or geomorphology within the drainage area, geophysical studies of the lake basins or drainage basins, or any other geological or geophysical research directly or indirectly related to the Great Lakes and their watershed.

I am writing this letter to several people in the Great Lakes region who have been actively engaged in some phase of geological or geophysical research in the Lakes or their drainage basins and requesting the following information:

1. Current research underway by you or your graduate students. Please include a brief statement of each project, when it began, probable completion date, and source of financial support (not the amount unless you desire to give it).
2. A list of unpublished reports by you or your graduate students since 1950, and information as to the availability of such reports (i.e. unpublished theses in libraries, microfilms, private reports for companies, municipalities, State Surveys, etc.).
3. A list of publications by you or your graduate students pertaining to the Great Lakes or their watersheds since 1950.

If you will supply this information, I shall be extremely grateful and will send you the final compilation from all sources. In order to gather all of these data together I will need a reply from you by April 25, 1959. Will you please return the enclosed post card which will give me some indication of the number of people who will cooperate. I am also enclosing a list of the people to whom this letter is being sent. If there are any glaring omissions would you kindly inform me on the same card. Thank you for your cooperation.

Cordially,



James H. Zumberge
Associate Professor

Enclosures: return post card
list of possible sources
of information

JHZ/sg

Citizens Committee to date

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THE ICE AGE NATIONAL PARK

with parkways, waysides, trails and shelters
across Wisconsin



RAYMOND T. ZILLMER, Chairman
1412 FIRST WIS. NATL. BK. BLDG.
MILWAUKEE 2, WISCONSIN
June 5, 1960

Members of the Citizens Committee:

We are enclosing the first of a series of pamphlets which the Ice Age Park & Trail Foundation will release from time to time. We hope that you will assist in distributing as many as possible.

Large portions of the eastern Kettle Moraine region are not being used by hikers and picnic parties because they do not know exactly what is state owned land and because they hesitate to go into unknown and unmarked wild areas of woods and marsh.

With a view to opening the wilder regions to greater use, the Foundation has cut out trails and clearly marked them in areas where state ownership is substantial and contiguous. Areas that are not contiguous can hardly be used at all.

The Foundation also hopes to establish a series of shelters for hikers and skiers in the Kettle Moraine so that trips may be taken from the Northern end near Plymouth to the Southern end near Janesville, including the intervening area which was unanimously recommended for purchase by the State Park Survey in 1936.

The Foundation has been instrumental in building the first two shelters, which cost about \$1,000.00 each. The Appalachian Trail has 165 such shelters.

The Foundation was organized by several members of the Citizens Committee to assist financially and otherwise (see purposes) in establishing a park, a parkway and a trail along the terminal moraine hills formed by the six glacial lobes that reached Wisconsin in the Ice Age.

Many of the Citizens Committee are members of the Foundation. If you are not a member, we welcome your assistance through membership in helping preserve beautiful Wisconsin for future generations; and if you are a member, try to get another.

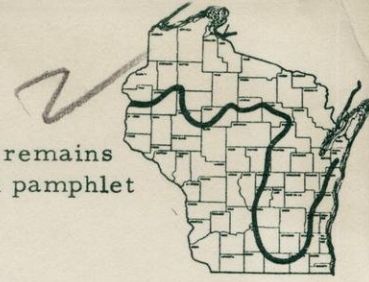
Sincerely yours,

Raymond T. Zillmer, Chairman

We spend a lot to go faster . . . Let us spend a little to go slower.

ICE AGE PARK AND TRAIL FOUNDATION
OF WISCONSIN, INCORPORATED

Nowhere in the United States are there available for public use glacial remains of the Ice Age equal in variety and beauty to those in Wisconsin. (The story in pamphlet form describing the Ice Age in Wisconsin will be mailed to you for ten cents.)



Purpose of the Ice Age Park and Trail Foundation of Wisconsin:

1. The Foundation will assist the federal, state and local governments in establishing and preserving a public park for future generations in the glacial formations of Wisconsin, 500 miles across the entire state.
 2. It will assist in establishing in this park, a parkway drive following a curved line and the natural contours wherever possible, together with picnic spot waysides on the parkway for public use.
 3. It will assist in establishing a trail for hikers and skiers with shelters in the nature of the Appalachian and John Muir Trails.
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Contributions to the Foundation (including amounts paid for membership) are deductible for federal and state income tax purposes. The Foundation invites everyone to participate and assist the above program by becoming a member on any of the following terms:

- Basic Membership - \$1.00.
- ACTIVE* ~~Annual~~ Annual Membership - \$5.00. Small memorial gifts are included in this category.
- Life Membership - \$100.00.
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Ice Age Park and Trail Foundation of
Wisconsin, Inc.
1412 First Wisconsin National Bank Bldg.
Milwaukee 2, Wisconsin

We spend a lot to go faster - let us spend a little to go slower.

Ice Age Park and Trail Foundation of Wisconsin, Inc.
1412 First Wisconsin Natl. Bank Bldg., Milwaukee 2, Wisconsin

Please enroll me as a _____ (Basic Member -- One Dollar)
_____ (*ACTIVE* Annual Member) -- Five Dollars
_____ (Life Member) -- One Hundred Dollars
(check enclosed) _____ (Sustaining Member - One Hundred Dollars or more
given annually.)

Signature _____ Address _____
Tel. No. _____

2

24th Sept., 1960

Mr. Raymond T. Zillmer
1412 First Wisconsin National Bank Bldg.,
Milwaukee 2, Wisconsin

Dear Mr. Zillmer:

Yours of the 15th was awaiting me on our return from a two week trip to visit my son in California. We made the trip out in 7½ days in a Volkswagen microbus and the return by plane on which I caught cold.

With regard to the Brooklyn moraine I am enclosing a copy of an old paper of mine in which it is mentioned. It is the deposit of ice which came from a slightly more easterly direction than did that of the later moraine. There is no notable difference in weathering in fact no difference can be distinguished by anyone. Liberty Pale Hill is not a part of the moraine. Most of it, that is the moraine is very weak and low. I used to take it in on an afternoon trip. The complexity of the Wisconsin glacial stage was not recognized in "Idea's" day. Today some claim that all the drift west of Brooklyn is an earlier Wisconsin. I can't just now think of any other published material on the Brooklyn Moraine although it must be mentioned in the "Outline of Glacial Geology." I suggest that it is the same age as the Haverage Ridge Moraine on the south line of the state which also demonstrates a slight shift in ice movement.

I will be glad to look over your map but the Brooklyn Moraine is not very important to the whole picture.

Sincerely yours,

- Walter Bender
- Albert M. Fuller
- August Derleth
- Pearl L. Pohl
- Warren M. Bach
- Leo Tiefenthaler
- Stanley Polacheck
- Arthur Molstad
- A. D. Sutherland
- John Fraser, Jr.
- Harold W. Story
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- John A. Puelicher
- Irving A. Puchner
- John Visser
- Frederick G. Schmidt
- Henry W. Marx
- Earl W. May
- Frederick L. Ott
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- F. Ryan Duffy
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with parkways, waysides, trails and shelters
across Wisconsin



RAYMOND T. ZILLMER, Chairman
1412 FIRST WIS. NATL. BK. BLDG.
MILWAUKEE 2, WISCONSIN

September 15, 1960

Mr. F. T. Thwaites
41 North Roby Road
Madison 2, Wisconsin

Dear Mr. Thwaites:

We are working on the fixing of an Ice Age Parkway Drive on a route which will follow established highways nearest the terminal moraines. This will continue at the southern end of the existing Kettle Moraine Drive for which I enclose a map.

We shall also mark the location not only of the drive but also the moraines near it, and shall include also matters of unusual interest. All this will be published in a little booklet.

I am working on the Dane County segment and would like your knowledge in the matter of the Brooklyn Moraine and particularly the area southwest of Brooklyn where at Liberty Pole an altitude of 1102 feet is reached, higher than the Wisconsin Moraines northeast of it.

As I understand it from my last reading there is still some dispute as to when the Brooklyn Moraines were layed down and whether they were prior to the Wisconsin Period. Can you give me the most recent data on this subject.

I hope your wife and you are in good health.

Sincerely yours,

Raymond T. Zillmer

RTZ:gms

W

May 23, 1960

Honorable Horace W. Wilkie
State Capitol
Madison 2, Wisconsin

Dear Sir:

I am in favor of the bill to require all cars using our state parks to purchase stickers. I consider this a step in the right direction. There is no reason why a poor state like Wisconsin should be adverse to accepting help from visitors.

When we were in the State of Washington a few years ago, we paid quite a high sales tax. We were glad to do it because we felt we were helping to defray the expenses of the excellent facilities offered by the many small roadside parks.

I think a sales tax would be easier to collect than the sticker tax and would furnish greater revenue.

Yours very truly,

Mrs. E. T. Twaites

Mrs. Wyeth Allan President
Miss Alice M. Bartlett General Secretary



Mrs. Kurt Meyer Residence Chairman
Mrs. Emily K. Ward Residence Director

YOUNG WOMEN'S CHRISTIAN ASSOCIATION

RESIDENCE
626 NORTH JACKSON STREET
MILWAUKEE 2, WIS.

*Please keep
for address.*

May 16, 1959

Mrs. F. T. Thwaites
41 North Roby Road
Madison 5, Wisconsin

Dear Mrs. Thwaites:

We have reserved for you for May 20th, a single room with connecting bath, which you share with the next room, rate \$3.50.

We are in receipt of your deposit in the amount of \$3.00. You may pay the balance when you arrive. Thanks for your letter.

Yours truly,

Treva M. Brown
Mrs. Treva M. Brown
Residence Director

W
August 4, 1960

Prof. Stanley D. Beck, Editor,
100 King Hall,
Madison 6, Wis.

Dear Prof. Beck:

In reply to yours of July 30 I think the arrangement you suggest to publish the paper on erosion surfaces first will be satisfactory. I was told by Prof. Hole that this might happen when I first discussed submitting the two papers at once. Lets hope I will still be around when the second one gets out in 61.

Sincerely yours,

October 17, 1959

Dear Mrs. Schroeder,

W S

I typed a letter to each member of the Telephone Committee, asking her to telephone a certain page of names, this week, telling them about the two coming events.

Amy Thwaites is calling the page in the yearbook assigned to Julia Groth, as I thought it would be inconvenient for Julia and might cause her worry and pain.

I gave the corrections for each page, those members who had resigned, and the new members with their address and telephone numbers and ^{asked} ~~that~~ they be called in addition to the regular names on the page.

All members of the Telephone Committee should receive their letters on Monday morning. I enclose a copy of the notice of the coming events, which I attached to each letter for each member.

Hope this will be satisfactory to Mrs. Wilbur and Mrs. Sinaiko Card Party Chairman. This is for your information.

Sincerely,
Vera Vincent

The Commercial Union Group

COMMERCIAL UNION ASSURANCE CO. LTD.
AMERICAN CENTRAL INSURANCE COMPANY
THE PALATINE INSURANCE COMPANY LTD.
COLUMBIA CASUALTY COMPANY

THE OCEAN ACCIDENT AND GUARANTEE CORP. LTD.
THE CALIFORNIA INSURANCE COMPANY
UNION ASSURANCE SOCIETY LIMITED
THE BRITISH GENERAL INSURANCE COMPANY LTD.

THE COMMERCIAL UNION FIRE INSURANCE CO. OF NEW YORK

HEAD OFFICE: NEW YORK, N. Y.

unlabeled

Al 5-7627

Rummage Sale

Tuesday Nov. 3-1959

Y. W. & A 8:30 - 3:30

Womans Club

*wearing apparel
jewelry
household goods*

*bring anything to club
otherwise call office*

pick up

United States Senate

COMMITTEE ON THE JUDICIARY

ALEXANDER WILEY, WIS.

May 26, 1959

Mr. & Mrs. F. T. Thwaites
41 North Roby Road
Madison 5, Wisconsin

Dear Mr. and Mrs. Thwaites:

I was most interested to receive your recent message relating to S. 200, a bill to amend the Internal Revenue Code of 1954 so as to provide for nonrecognition of gain or loss upon certain distributions of stock pursuant to orders enforcing antitrust laws.

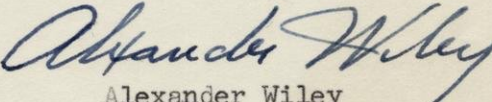
As you may know, the Senate Finance Committee is scheduled to hold hearings on this bill soon. As a matter of course, the Finance Committee has asked for a report on S. 200 from the Department of the Treasury. The Treasury has not yet made its report to the Committee.

Naturally, I appreciate your deep concern over the prospect of added taxes as a result of forced divestment of stocks.

Although I am not a member of the Senate Finance Committee, I will be following its proceedings closely. Moreover, I shall be glad to urge that this issue be considered as expeditiously as possible.

With all good wishes, I am

Sincerely yours,


Alexander Wiley

AW:krf

THIS IS TO CERTIFY THAT

✓

F. T. Thwaites

is a Basic

member

of the

ICE AGE PARK AND TRAIL FOUNDATION OF WISCONSIN, INC.

and

devoted to assist in carrying out the Purposes of the Foundation:

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Date: February 4, 1960

*"We spend a lot to go faster
... let us spend a little to go slower."*

Ice Age Park and Trail Foundation
of Wisconsin, Inc.

By: James L. Mallen
Secretary

1412 First Wisconsin National Bank Building
Milwaukee 2, Wisconsin

For Your Information

Wisconsin Academy of Sciences, Arts, and Letters
Madison, Wisconsin

January, 1960

Dear Academy Member:

With this new year of 1960 the Wisconsin Academy is 90 years old and looking forward to its Centennial celebration. We also are looking forward to increased activity and many new members with our annual meeting at The University of Wisconsin - Madison on May 7 of this year.

The Academy membership now has grown to over 1,300 including libraries and institutions, but we believe this can be doubled and tripled in future years and your assistance in recommending and inviting members is requested. An Application For Membership blank is enclosed for this purpose. Not only is the Academy expanding its encouragement of junior scientists and scholars, but the Council has requested additional funds from the Legislature for the publication of a better and expanded TRANSACTIONS. The Academy Review will continue as a quarterly medium of popular information on a new schedule of mailings in the months of February, May, August, and November. You are invited to submit news and article suggestions to the Editor, and your assistance especially is requested in informing him of retirements or deaths in our membership family. The Academy Librarian is in the process of distributing back issues of the TRANSACTIONS. A notice is enclosed giving full details on securing these volumes on a first come, first served basis.

Enclosed is a statement of account for annual dues. Because of our legislative appropriations which augment the dues, members still receive the equivalent of almost twice their dues in published materials. Because the Academy needs additional funds to better promote its junior program and generally extend its sphere of beneficial activity throughout the state, those who can afford it are urged to become sustaining members at a fee of \$10 and Life members are invited to contribute gifts toward specific programs. Please return the enclosed membership statement with your payment. If our records are not in agreement, we would appreciate your letting us know.

Thank you for your continued interest and support of the Wisconsin Academy which is looking forward to new opportunities for service and fulfillment of its significant purposes as expressed in the Charter of 1870.

Sincerely,

D. J. Behling

David J. Behling
Treasurer

Wisconsin Academy of Sciences, Arts & Letters

DJB:mb
Enclosures

W

Members' Check Sheet

on

TRANSACTIONS (Back Issues)
Wisconsin Academy of Sciences, Arts and Letters

NOTICE:

The Wisconsin Academy library possesses an excess quantity of 40 issues of the TRANSACTIONS dating from 1875 to 1957. Some of these number several hundred copies and others less than 25. The Council has voted to distribute these free to members in good standing on a "first come, first served," basis so long as they may last on the condition that the members receiving them pick up the package (or have someone else act for them) at the Memorial Library on Saturday, May 7, 1960, in connection with the Wisconsin Academy's 90th annual meeting. This restriction is applied because it would be too much of a burden to the Librarian if these volumes had to be prepared for mailing or other types of transportation.

If you wish to receive any of these back issues free of charge, please circle below the specific volumes you desire and return this check sheet immediately to Walter E. Scott, Librarian, W.A.S.A.L., 1721 Hickory Drive, Madison 5, Wisconsin. Requests will be filled chronologically in the order of date and time of postmark and all individuals to receive any will be notified by postcard prior to the annual meeting date. Members are urged to check every volume they do not have either to make their sets more complete or secure valuable papers in their fields as each TRANSACTIONS contained some significant articles. If you wish to be selective in your request, refer to the two volumes which contain a subject and author index of all issues up until 1944: Vol. 37 of 1945 and Vol. 27 of 1932.

It is presumed the return requests will be numerous and some few individuals will get all 40 volumes while some may receive few or none. However, even if you are late, it may pay to return this check sheet at any time before the 1960 annual meeting, but no later than April 1, 1960.

<u>Check Volumes Desired</u>									
3	7	11	15	19	24	28	33	39	43
4	8	12	16	21	25	30	34	40	44
5	9	13	17	22	26	31	36	41	45
6	10	14	18	23	27	32	37	42	46

Name _____

Address _____

I will pick these up (or have them picked up) at the U.W. Memorial Library during the 1960 annual meeting on Saturday, May 7, 1960.

Signed _____

Date _____

ATTENTION:

The Academy Council has decided that a 10 cent service charge will be made per volume to help pay for handling costs. You will be billed for volumes received at this rate.

W

CAN'T WE SAVE SOME OF WISCONSIN'S NATURAL LANDSCAPES?

An Invitation to All Members of the Wisconsin Academy of Sciences, Arts and
Letters, to Attend an Organizational Meeting and to Become Charter Members
of the Wisconsin Chapter of the Nature Conservancy

* * * * *

Conservationists, scientists, and Wisconsin citizens in all walks of life have been increasingly concerned about the rapidly proceeding loss of our natural landscapes.

The pressures exerted upon our open lands by highway builders, real estate developers, and agriculturalists, have resulted in the destruction of scenic and scientific values at an alarming rate. Natural areas considered essential for research in plant and animal ecology, soils, and forestry have been sacrificed to the needs of an expanding population, with too little consideration for the needs of science and teaching.

Other lands, of irreplaceable scenic grandeur, or of unique wilderness value, have been lost to the pressures of the tourist and resort business, the wood-using industries, and the summer-home builders.

Accounts of these land-use conflicts have appeared with increasing frequency in the press, conservation publications, and scientific journals. The logging program in the Menominee Indian Reservation, the Fairy Chasm controversy in Milwaukee County, and the gradual cutting of old-growth hardwood in Abraham's Woods near Albany are recent examples which have added to the concern felt by conservationists, scientists, and educators.

It is our feeling, shared with others, that the program of the Nature Conservancy offers a course of action which would enable us to slow the trend toward the loss of natural areas. This young organization, with chapters and project groups in several states, has been successful in its efforts to preserve many significant areas. With almost 100 Conservancy members in Wisconsin, we have a fine nucleus for a state chapter.

Many of you are familiar with the pioneering accomplishments of the State Board for the Preservation of Scientific Areas. Our objective is a state chapter which can assist and cooperate with the State Board in its efforts to preserve important natural areas in Wisconsin. Other public and private organizations, and individuals with similar interests, would be included in the program and activities of the proposed chapter.

If you are one of these individuals, you are cordially and urgently invited to attend the organizational meeting, to be held on Friday, May 6 at 9 p.m., in Room 224 of the Wisconsin Center.

If you are unable to attend, please write to either of the signers for additional information and a membership application.

Joseph J. Hickey
Department of Forestry and
Wildlife Management, University
of Wisconsin, Madison 6

Eugene M. Roark
513 N. Franklin Ave., Madison 5

W

WISCONSIN ACADEMY OF SCIENCES, ARTS AND LETTERS
20 Memorial Library
Madison 6, Wisconsin

April 12, 1960

Professor F. T. Thwaites
41 N. Roby Road
Madison 5, Wisconsin

Dear Professor Thwaites:

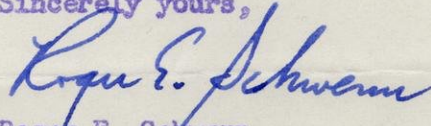
I have been asked by the Program Committee to advise you that your paper has been accepted for presentation at the 90th Annual Meeting on the afternoon of 7 May at the Wisconsin Center Building in Madison.

I am enclosing a copy of the tentative program and a reservation sheet which should be sent to Professor Robert Dicke, 200 King Hall, The University of Wisconsin, Madison 6, Wisconsin. A printed program will be sent to you later.

The time period set aside for your paper is *20* minutes. Because of the large number of papers offered for presentation this year, it is necessary that each individual on the program take care to stay within the time period allotted to him.

I look forward with much interest to the presentation of your paper in May.

Sincerely yours,



Roger E. Schwenn
Secretary

RES:vmr
Enclosure

3 luncheon @	1.50	4.50
3 dinner @	2.50	7.50
1 boat fare		1.00
1 bus fare		1.50
1 boy lunch		1.40
		<hr/>
		15.90

Bob

1.50
2.50
1.00
1.50
1.40
<hr/>
7.90

Wisconsin Academy of Sciences, Arts, and Letters
Madison, Wisconsin

ANNUAL MEETING
UNIVERSITY WISCONSIN, MADISON, WISCONSIN
May 6 and 7, 1960

FRIDAY, MAY 6

RECEPTION

Wisconsin Center, Lounge and Exhibit Gallery

P.M.

- 7:00-8:00 Reception and Registration
- 8:00 Musical:
Master of Ceremonies, Attorney W. E. Sieker
Soloist, Prof. Dale W. Gilbert, School of Music
- 9:00-10:00 Movies: Quetico and Fishing Fun in Wisconsin

SATURDAY, MAY 7

ANNUAL MEETING

A.M.

- 8:00-9:00 Registration - Exhibit Gallery, Wisconsin Center
- 9:00-9:15 Welcome and Announcements - Auditorium, Wisconsin Center
- 9:15-11:45 Symposium - Auditorium
Section 1 - Wisconsin Limnology
Section 2 - Lake Problems
Section 3 - History of Madison Lakes
- 8:00-12:00 General Papers, Wisconsin Junior Academy Science, Room 313,
Wisconsin Center.
- 12:00 Senior and Junior Academy Luncheon. Dining Room, Wisconsin Center.

P.M.

- 1:15-4:15 General papers, Senior Academy
Section 1 - Biological Sciences, Auditorium
Section 2 - Physical Sciences, Room 227
Section 3 - Humanities, Room 311
- 1:15-5:00 General Papers, Junior Academy, Room 313
- 4:30-5:30 Annual Business Meeting, Auditorium
- 6:30 Annual Banquet - GREAT HALL- Memorial Union

Wisconsin Academy of Sciences, Arts, and Letters
Madison, Wisconsin

SUNDAY, MAY 8
ANNUAL FIELD TRIP

A.M.

- 9:30 Assembly, Hydrobiology Laboratory, University Wisconsin
(North Park Street)
- 10:00 Tour of Hydrobiology Laboratory (Prof. A. D. Hasler and
associates R. M. Horrall and D. C. McNaught, Dept. Zoology,
University Wisconsin). Limnological techniques.
- 10:45 Boat trip on Lake Mendota (via Hoover Boat Lines). Limnological
aspects of lake between south shore, Maple Bluff shore and
Picnic Point.
- 11:45 Picnic Point. Box lunch; walk to Willows Drive.

P.M.

- 1:30 Assemble Willow Drive; board Greyhound Bus.
- 2:00 Tour of Edgewood College Mazzuchelli Biological Station.
(Sister Mary Nona, President, Edgewood College, and
Sister Mary Elaine, Chairman, Department Biology, Edgewood College).
- 2:30 Board Greyhound bus for University Arboretum.
- 2:45-4:45 Tour of University Wisconsin Arboretum.
- Tour of prairie - Prof. Grant Cottam, Dept. Botany
 - Inspection of bird study project - Prof. R. A. McCabe,
Dept. Forestry and Wildlife Management
 - Lilac tour (if in bloom) - Prof. G. W. Longenecker,
Dept. Horticulture
- 4:45 Assemble Research Center, board bus for return trip to
Wisconsin Union.

These plans, of course, are contingent upon good weather. In the event that ice break-up on Lake Mendota is late or the lake is rough, a bus trip around the lakes area is contemplated with lunch at a shelter house enroute.

University of Wisconsin
NEWS SERVICE
Madison 6, Wisconsin

April 12, 1960

OFFICE OF THE DIRECTOR

Dear Mr. Thwaites

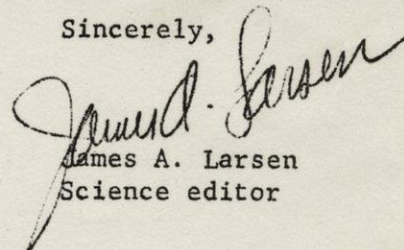
I am preparing advance news releases on a number of the papers to be presented at the annual meeting of the Wisconsin Academy of Sciences, Arts, and Letters. Although prepared in advance, they will not be released for use by interested newspapers until the paper has been presented, the same procedure we have employed in past years.

To prepare the release, however, I will need either the complete text of the paper, if one is to be available, or a fairly complete summary of perhaps two typewritten pages, emphasizing in non-scientific terms the aspects of the subject which would be of most interest to the average reader in Wisconsin.

To avoid the necessity of checking my story back with you to insure accuracy, I will use your phrasing in substantially its original form, so there is some necessity to phrase the material given to me in non-technical and interesting language. I will use direct quotations on occasion, and the fact that these may not correspond exactly with the phrasing used in the formal paper will not constitute a serious error.

We find that this is one of the most effective methods of reporting scientific events, and as we are all interested in promoting the Academy, we hope you will cooperate with us as much as possible. I would like to have the material at least a week before the meeting.

Sincerely,



James A. Larsen
Science editor

Wisconsin Academy of Sciences, Arts, and Letters
Madison, Wisconsin

All reservations must be made before May 2, 1960, in order to give your local committee sufficient time to complete their plans. Each reservation must be accompanied by full payment addressed to Dr. Robert J. Dicke, 200 King Hall, University of Wisconsin, Madison 6, Wis. Tickets will be picked up at the Registration Desk May 6 and 7.

Local Arrangements Committee: R. J. Dicke, Chm., J. T. Medler, W. E. Scott, R. E. Schwenn and W. E. Sieker.

W

Wisconsin Academy of Sciences, Arts, and Letters
Madison, Wisconsin
100 King Hall
University of Wisconsin

30 July 1960

Mr. F. T. Thwaites
41 Roby Road
Madison 5, Wisconsin

Dear Mr. Thwaites;

This is in regard to the two manuscripts you submitted for publication in the 1960 TRANSACTIONS. I am pleased to accept them for publication, but the volume is becoming very crowded. Unless you have specific objections to the plan, I would like to include "Evidences of dissected erosion surfaces in the driftless area" in the current TRANSACTIONS, and postpone publication of "The base of the Saint Peter sandstone in southwestern Wisconsin" until 1961.

Galley proofs should reach you early in November, as our publication date is December 15.

Very truly yours,

Stanley D Beck

Stanley D. Beck
Editor, Transactions