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Correspondence - N. 1929-1958

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

[s.l.]: [s.n.], 1929-1958

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Norwalk

Nov. 20, 1935

Mr. Joe A. Ebert,
Norwalk, Wisconsin

Dear Sir:

Reply to yours of Nov. 1 to the Experiment Station was delayed while the letter was being sent to me.

I made as careful an analysis of the sample which you sent as my apparatus will permit. So far as I could determine the rock consists of about 25 percent calcium carbonate. The chip seems to be fairly pure calcium carbonate or limestone. The fine material seems to be fine quartz silt.

Having no information on the location of the well I can only surmise that it is on one of the ridges and that the rock is from the so-called "micaceous shale" although I could find no mica.

I would like to know more about the well and just what you want to know about the material and with that end an enclosing a stamped and addressed envelope. If you can give me more information please tell me the location so I can look it up on the map.

Very truly yours,

F. E. Tinsaites, in charge of well records,
Wisconsin Geological Survey

Niellsville

The
JERRY DONOHUE ENGINEERING CO.
CONSULTING & SUPERVISING
ENGINEERS
SHEBOYGAN WISCONSIN

606-608-610
N.EIGHTH ST.



September 13, 1935

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

re: Niellsville Water Supply

Dear Mr. Thwaites:

Your letter of September 10th at hand.
Thank you for the information as it is just what I wanted
to know.

If, after our preliminary investigation,
we believe it desirable to go into the ground water supply,
we will take the matter up with Mr. Bean as you suggest.

Very truly yours,

JERRY DONOHUE ENGINEERING CO.

By: *Jerry Donohue*
President

JD:GD

Northwestern Savings Building & Loan Association

ESTABLISHED 1889

AUTHORIZED CAPITAL, \$5,000,000

GROUND FLOOR, WASHINGTON BUILDING

PHONE: BADGER 5241

MADISON, WISCONSIN

Save

OFFICERS:

ALBERT G. MICHELSON
PRESIDENT

J. EDWARD USHER
VICE-PRESIDENT

MATTHEW J. ESSER
TREASURER

ALBERT G. MICHELSON
ATTORNEY

JOHN W. HALEY
SECRETARY

HARRY B. HALEY
ASSISTANT SECRETARY

ACCOUNTS ARE NOW INSURED UP TO \$5,000.00 PER PERSON IN THE
FEDERAL SAVINGS & LOAN INSURANCE CORPORATION

June 28, 1935

DIRECTORS

REGINA E. GROVES

LEO T. CROWLEY

VOLNEY G. BARNES

MATTHEW J. ESSER

L. E. A. KELSO

J. EDWARD USHER

ALBERT G. MICHELSON

DR. JAMES P. DEAN

HARRY B. HALEY

Dear Shareholder:

This is to advise you that the Northwestern has declared a dividend on monthly savings, as of June 30, 1935, at the annual rate of 5%. This is the 90th consecutive semi-annual dividend declared, and is the second increase in the last two years. We also wish to remind you that your account up \$5,000.00 is insured in the Federal Savings & Loan Insurance Corporation, Washington, D. C.

Investors' funds are invested only in first mortgages on Madison homes, in accordance with the strict laws of the State Banking Department. Speculative securities have no place in our investments. The Northwestern has never been allowed to invest in stocks of any kind. Your certificate, therefore, represents the best and safest investment one can make.

All deposits made in the Northwestern Savings Building & Loan Association are legal investment for Trust funds in the State of Wisconsin.

Your officers and directors feel that the return to normalcy is well on the way, our total footings showing more than a ten per cent increase in the last four months.

Will you mail or bring in your book so that we can credit your account with the proper dividends?

Sincerely yours,

NORTHWESTERN SAVINGS BUILDING & LOAN ASSOC.

Oct. 7, 1933

Mr. F. H. Rosebush,
Nekoosa-Edwards Paper Co.,
Fort Edwards, Wisconsin

Dear Sir:

I expect to bring my geology class to visit the rock exposures at the south end of your Nekoosa dam on Saturday, Oct. 14 and would greatly appreciate renewal of your kind permission of last year to make this visit. It is understood that all of the party enter your property at their own risk.

Very truly yours,

F. A. Thwaites, Lecturer in Geology

Nekoosa-Edwards Paper Company.

MAKERS OF
PAPER, PULP and TIMBER PRODUCTS.

PORT EDWARDS, WISCONSIN,

October 17, 1932

Mr. F. T. Thwaites, Lecturer in Geology
University of Wisconsin
Madison, Wisconsin

Dear Sir:

We have your letter of October 14th asking permission to inspect the rock exposures at the south end of the dam opposite the plant.

We should be perfectly willing to give you the privilege under the circumstances expressed in your letter.

Yours very truly,

NEKOOSA EDWARDS PAPER COMPANY

F. H. Rosebush
F. H. Rosebush

Department of Industrial Relations

FHR:MW.

April 17, 1933

Dear Miss Nunns:

I am writing you to use your influence to get a furnace put into my mothers house before she returns. We think it would be unsafe for her to try to live in a house which has not been dried out by furnace heat before she returns. The old furnace is entirely rusted out. There are big holes through which they were getting flue gas all the time. I have a very low price on a new furnace and Peake is waiting to install it at a very reasonable figure. We understand they intend to put in oil but if times pick up at all fuel oil will soon be out of the question. It is a true Depression Product and so much would be diverted to make gasoline that the price could very quickly become prohibitive. Knowing this, an oil burner at the present time is a risky thing to spend money on and the furnace must be large enough to heat the house with coal. Most important of all IT MUST BE GAS TIGHT for oil fumes are very bad to breathe.

They have also forbidden us to have the house cleaned.

We will greatly appreciate anything you can do to counteract these dangerous plans.

Hope you are having a pleasant trip home.

Sincerely,

JOHN M. NELSON
3D DIST. WISCONSIN

Congress of the United States
House of Representatives
Washington, D. C.

January 23, 1932

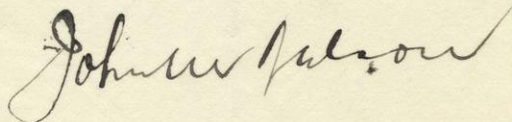
Mr. F. T. Thwaites
R. 4
Madison, Wis.

Dear Sir:

Permit me to acknowledge the receipt of your letter of recent date requesting two governmental publications.

Under separate cover, I take great pleasure in sending you one copy of Geological Survey - Water-Supply, also a copy of Public Health Service Hygienic Laboratory Bulletin, which you have requested.

Very truly yours,

A handwritten signature in cursive script, reading "John M. Nelson". The signature is written in dark ink and is positioned at the bottom right of the page, below the typed closing "Very truly yours,".

R. F. D. 4, Madison, Wis.,

Jan. 27, 1933

Hon. John M. Nelson,
Member of Congress,
House Office Bldg.,
Washington, D. C.

Dear Sir:

I wish to thank you for publications recently sent me.

However, there was an error in respect to the U. S. Geological
Survey Water Supply Paper 640. I am returning herewith Paper 644 which
was sent by mistake. Can you kindly make the exchange?

Very truly yours,

F. T. Thwaites

R. F. D. 4, Madison, Wis.,

Jan. 18, 1933

R. F. D. 4, Madison, Wis.,

Government John M. Nelson,
House Office Bldg.
Washington, D. C.
Jan. 18, 1933

Dear Sir:

Hon. John M. Nelson,
Member of Congress,
House Office Bldg.,
Washington, D. C.

U. S. Public Health Service Hygienic Laboratory Bulletin 147
Dear Sir:

Could you please obtain for me the following Government publications:

U. S. Geological Survey Water-Supply Paper 640

U. S. Public Health Service Hygienic Laboratory Bulletin 147 (1927)

Very truly yours,

F. T. Thwaites

R. F. D. 4, Madison, Wis.,

Jan. 18, 1933

R. F. D. 4, Madison, Wis.,
Congressman John M. Nelson,
House Office Building,
Washington, D. C.

Dear Sir:

I would like to obtain the following Government publications:
U. S. Geological Survey, Water-Supply Paper 640
U. S. Public Health Service Hygienic Laboratory Bulletin 147, 1927

Very truly yours,
Could you please obtain the following Government publications:

U. S. Geological Survey Water-Supply Paper 640
U. S. Public Health Service Hygienic Laboratory Bulletin 147 (1927)

Very truly yours,

F. T. Twiss

WM. H. LOUTIT
GRAND HAVEN, CHAIRMAN

HAROLD TITUS
TRAVERSE CITY

PHILIP SCHUMACHER
ANN ARBOR

HARRY H. WHITELEY
DOWAGIAC

W. H. NEWETT
ISHPEMING

M. J. FOX
IRON MOUNTAIN

PHILIP K. FLETCHER
ALPENA

RAY E. COTTON
SECRETARY

STATE OF MICHIGAN



DEPARTMENT OF CONSERVATION

LANSING

GEORGE R. HOGARTH, DIRECTOR

December 7, 1932

H. R. SAYRE
FIELD ADMINISTRATION
GENEVIEVE MCCANN
CHIEF CLERK
P. J. HOFFMASTER
PARKS
MARCUS SCHAAF
FORESTER
R. A. SMITH
GEOLOGICAL SURVEY
S. G. FONTANNA
LANDS
FRED A. WESTERMAN
FISH & FISHERIES
P. S. LOVEJOY
GAME
L. R. SCHOENMANN
LAND ECONOMIC SURVEY
EDWARD A. HYER
EDUCATION

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

Dear Mr. Thwaites:

Your letter of December 5th came yesterday and it was mighty kind of you to send us the complete blueprinted graphic log of the Menominee Light and Traction Company well and the Newaygo Oil and Gas Company - Bates #1.

In the past year we have tried to adopt, as uniformly as possible, what you suggest in the order of naming the kind of rocks, etc., when we prepared the records of recent wells. The samples have come in and we are glad to have them to complete our files for this well. We would very much appreciate having the samples from the Menominee well when you have the opportunity to send them. We shall be mighty glad to pay the express for this privilege.

It is interesting to learn that an oil test is underway in your vicinity and it seems like some of these operators will never learn, as long as funds can be procured for drilling. Here in Michigan, we have had more drilling this year than the year previous and the production of oil will go nearly two million barrels over the output for last year. A considerable amount of wildcatting is underway and a new discovery south of Mount Pleasant Pool will aid as an additional impetus for wells in that vicinity.

We are in about the same situation as you are and are awaiting with fear and trembling to see what the new administration will do to us. Meanwhile, we are continuing in an effort to give the right kind of geological service to the people of the State.

With kindest personal wishes, I am

Yours very truly

R. B. Newcombe
GEOLOGICAL SURVEY DIVISION
Petroleum Geologist

REN:M

Dec. 5, 1932

Mr. R. B. Newcombe,
State Geological Survey,
Lansing, Michigan

Dear Mr. Newcombe:

Enclosed please find blueprint log of No. 1 Bates, Newaygo Oil and Gas Co., also typewritten sample descriptions. You will note that the blueprint follows your log as far as it goes correcting my confusion of gypsum and anhydrite. In some samples we did not agree on color. I made insoluble residues of many samples and included this data. I shoed some of the samples and the log to Prof. Schrok who is familiar with the Indiana Niagara and he thought that possibly I had placed the top too high. I am open to conviction on this point. I also changed the form of description to put the nouns first, a style that I like better. I try always to follow a definite rule in order of phenomena described, that is kind of rock, grain, color, other materials, hardness, etc. There may be some variations in places but I have found that such a habit saves unintentional omissions.

I had the samples from 3900 to total depth shipped to you express collect as our funds are low. With them I included a few from above which were missing in your set. Please let me know if these arrive safely.

I just now recalled that I did not split samples from the Menominee Light and Traction Co. well and also forgot to send you a copy of the sample descriptions. I am sure, however, that you must have had a copy of the blueprint log although I cannot lay my hand on the copy of the letter which went with it. I rushed this log through last spring so as to be ready for them to use when shooting the well. To make sure an enclosing another copy for I found a pencil note by Mrs. Thwaites that she could not find the print after I left for New York. She had to send out the prints then as well as take care of Master Tommy who was then only 10 months old, so you can see that a slip might occur. If you desire a cut from these samples please advise me. Shooting increased the yield of this well nearly 50 percent.

I still seem to get a lot of samples in spite of the well-known Depression. The last is an oil test only 10 miles north of this well-explored spot! What long chances people will take!

We do not know just how badly the new administration will treat us but probably badly enough. Meantime we are trying to "carry on" and pretend that we dont notice!

With best regards,

Sincerely,

R. D. 4, Madison, Wis.,

Nov. 14, 1932

Hon. John M. Nelson, Member of Congress,
House Office Bldg.,
Washington, D. C.

Dear Sir:

I wish to thank you for the publications recently sent.

Could you kindly send me the following publications of the U. S. Geological
Survey:

Professional Paper 166

" " 173

" " 174

Bulletin 835

Water Supply Paper 636

" " " 659-B

Very truly yours,

F. T. Thwaites,

R. D. 4,

Madison, Wisconsin

JOHN M. NELSON
3d DIST. WISCONSIN

Congress of the United States
House of Representatives

Washington, D. C.

November 22, 1932

Mr. F. T. Thwaites,
R. D. #,
Madison, Wisconsin.

My dear Mr. Thwaites;

This is to acknowledge receipt of your letter of November 14 in which you request certain Papers and Bulletins of the U. S. Geological Survey. Mr. Nelson takes pleasure in forwarding these to you under separate cover.

Very truly yours,

Virginia S. Saunders
Secretary.

JOHN M. NELSON

3d DIST. WISCONSIN

Congress of the United States

House of Representatives

Washington, D. C.

October 29, 1932

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

My dear Mr. Thwaites:

In accordance with your recent request, Mr. Nelson takes pleasure in forwarding to you under separate cover Bulletin 798 and Professional Paper 162 of the U. S. Geological Survey.

The Congressman is always glad to be of assistance whenever possible.

Very truly yours,

Alvin J. Saunders
Secretary.

Madison, Wis.,

Oct. 27, 1932

Congressman John M. Nelson,
House Office Bldg.,
Washington, D. C.

Dear Sir:

Could you please procure for me the following publications of the
United States Geological Survey?

Bulletin 798

Professional Paper 162

Sincerely,

F. T. Thwaites,

R. D. 4,

Madison, Wisconsin

Oct. 14, 1932

Nekoosa-Edwards Paper Co.,
Nekoosa, Wisconsin

Gentlemen:

On Saturday, Oct. 22 I desire to take my class to see the rock exposures at the south end of your dam opposite the plant. When I last passed that way I noted that this vicinity was posted with No Trespassing signs. May we have permission to visit the locality with the understanding that we do so at our own risk? The place is of great interest to geologists.

Very truly yours,

F. T. Eiraites, Lecturer in Geology

August 8, 1932

Newton County Stone Co.,
Kartland, Indiana

Gentlemen:

Unfortunately I lost the card which was given me when at the quarry on June 28 to take the enclosed photographs. However, I trust the above address is enough.

The photographs can be identified from the enclosed lists. The letters and figures refer to exposure, filter, etc. and will not mean anything to you. Unfortunately I found afterward that the small camera had developed a light leak in the bellows which caused the light streak on the sides of some of the pictures. However, many are free from this and are, I think, very satisfactory. It was hard to get general views because of the smoke from the steam shovel. This seems to affect even the photo taken with the camera which was free from light leaks.

Please let me know if you receive the photographs.

I wish to thank you for your courtesy to me when at the quarry.

Very truly yours,

F. T. Thwaites

Newton County Stone Company

[UNINCORPORATED]

QUALITY FIRST



SERVICE ALWAYS

GEORGE H. HART, TREAS., GEN. MGR.
C. O. RIGGS, SUPERINTENDENT
RUSSELL D. VIRGIN, SECRETARY

Crushed Stone
Agricultural Limestone

QUARRY THREE MILES
EAST OF KENTLAND ON THE
PENNSYLVANIA RAILROAD

KENTLAND, INDIANA

Aug 10, 1932.

Mr. F. T. Thwaites,
School of Natural History,
Quaker Bridge, N. Y.

Dear Mr. Thwaites;

We are in receipt of your letter with photos enclosed and wish to most sincerely thank you for your kindness in sending them to us. After going over them carefully, we pronounce them extra good. They will be placed in our files as records.

Again assuring you of our appreciation and trusting we may again see you here in the near future, we are

Very truly yours,

NEWTON COUNTY STONE CO

George H. Hart, Treas gen mgr.,

GHH-r

NEW MEXICO SCHOOL OF MINES

SOCORRO. N. M.

DEPARTMENT OF GEOLOGY

STERLING B. TALMAGE
CLAUDE E. NEEDHAM
EVAN JUST

9-1-32

August 27, 1932

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

Dear Professor Thwaites:

Permit me to thank you for the blue print log of the city well at New Richmond, Wisconsin. I am very glad to have this additional information on the Cambrian and Ordovician rocks of the region.

Very truly yours,

C. E. Needham
Assistant Professor.

July 19, 1932

Docson
Mr. C. E. Needham,
Socorro, New Mexico.

Dear Sir:

I am inclosing a blue print log of the city well
at New Richmond, Wisconsin and wish to thank you for the
separate on the New Richmond sandstone which you recently
sent me.

Yours very truly,

Geologist in charge of well records
Wisconsin Geological Survey

AMF

City of
NEW RICHMOND

to

F. T. Thwaites, Dr.
July 25, 1932

Preparation of tube of samples from city well.....	\$10.00
Deduction for samples.....	<u>7.95</u>
Balance.....	\$2.05

9-1-32
Received check for \$2.05

July 20, 1932

Mr. Melvin Halvorson, Superintendent,
Electric Light & Water Works Department,
New Richmond, Wisconsin.

Dear Sir:

I am inclosing a blue print log of your new
city well. The tube is being sent to you express
collect.

Yours very truly,

Geologist in charge of well records
Wisconsin Geological Survey

AMT

February 19, 1931.

Mr. R. B. Newcombe,
State Geological Survey,
Ann Arbor, Michigan.

Dear Mr. Newcombe:

I am inclosing the following:

Escanaba and Lake Superior Railroad well.....Detailed record
Escanaba and Lake Superior Railroad well.....Blue print log
Solvay Process Company, well No. 36.....Detailed record
Solvay Process Company, well No. 36.....Blue print log
Newago Gas and Oil Company - Bates #1.....Detailed record

Some of the correlations of the Wells well differ
from those in your log.

I have never seen any more samples from Bates #1
of the Newago Gas and Oil Company.

Yours very truly,

FTT-T

Geologist in charge of well records

NATIONAL RESEARCH COUNCIL

Established in 1916 by the National Academy of Sciences
under its Congressional Charter and organized with the cooperation of the
National Scientific and Technical Societies of the United States

B & 21ST STREETS, WASHINGTON, D. C.

May 12, 1930

MEMORANDUM TO THOSE INTERESTED IN SEDIMENTATION

After many unexpected delays in printing and proof-reading, the 1928-1929 report of the COMMITTEE ON SEDIMENTATION of this Division is now ready for distribution. To pay for the cost of printing the report, it will be sold at \$1.00 per copy. For many years the mimeographed reports of this Committee have been sent gratis to those who have had some share in contributing information for the reports and to others believed to be interested in the subject, a total of nearly five hundred. The printed report is preferable in many respects to the mimeographed report, but it will not be possible for the Division to continue having the report published in printed form unless those interested in it are willing to purchase the report. A postal card is enclosed for your convenience in ordering, and it will be appreciated if you will pass this information along to others who might be glad to know of the issuance of the report. The subject is certainly one of growing interest throughout the world for the first edition of the Treatise on Sedimentation is exhausted, and, at the insistent demand of the printers, Professor Twenhofel and members of the Committee are at work preparing a revised edition of the Treatise which will probably be ready within a year or two.

The annual report of the Committee for 1928-1929, consisting of 19 separate reports totalling 122 pages, contains records of valuable original research by various investigators, and includes several useful bibliographic lists. Following is the table of contents:

- (1) Introduction, W. H. Twenhofel;
- (2) The intertidal zone of the Wash, England, E. M. Kindle;
- (3) Research on sediments by British geologists for the year 1928, Henry B. Milner;
- (4) Bibliography of research on sediments by European geologists in 1927 and in part in 1928, Édouard Paréjas;
- (5) Silt studies on American rivers, Kirk Bryan;
- (6) Studies on marine bottom deposits at the Scripps Institution of Oceanography, T. Wayland Vaughan;
- (7) Research marine bacteriology, A. H. Gee;
- (8) Calcium carbonate in sea water, A. H. Gee and E. G. Moberg;
- (9) Research on marine sediments conducted by the American Petroleum Institute, Parker D. Trask;
- (10) Studies on sedimentation at the Jacques Loeb Laboratory, Stanford University, L. B. Becking;
- (11) Recent publications on chert, flint, concretions, cone-in-cone and stylolites, W. A. Tarr;
- (12) Varved sediments, Ernst Antevs;
- (13) Sedimentational research on the Pacific Coast, R. D. Reed;
- (14) Micropaleontology in the Mid-Continent Region, Dollie Radler;
- (15) Heavy mineral work in the Mid-Continent Region, Fannie Carter Edson;
- (16) Lake deposits in the Basin and Range Province, Eliot Blackwelder;
- (17) Bibliography on Chemical studies which bear on sedimentation, George Steiger;
- (18) Studies of glacial sediments in 1928, M. M. Leighton;
- (19) Investigations of fluvial deposits, A. C. Trowbridge.

AK:J
Enclosure

Arthur Keith, Chairman,
Division of Geology and Geography

WM. H. LOUTIT
GRAND HAVEN, CHAIRMAN

HAROLD TITUS
TRAVERSE CITY

PHILIP SCHUMACHER
ANN ARBOR

HARRY H. WHITELEY
DOWAGIAC

W. H. NEWETT
ISHPEMING

M. J. FOX
IRON MOUNTAIN

PHILIP K. FLETCHER
ALPENA

RAY E. COTTON
SECRETARY

STATE OF MICHIGAN



DEPARTMENT OF CONSERVATION

LANSING

GEORGE R. HOGARTH, DIRECTOR

H. R. SAYRE
FIELD ADMINISTRATION
GENEVIEVE MCCANN
CHIEF CLERK
P. J. HOFFMASTER
PARKS
MARCUS SCHAAF
FORESTER
R. A. SMITH
GEOLOGIST
S. G. FONTANNA
LANDS
FRED A. WESTERMAN
FISH & FISHERIES
P. S. LOVEJOY
GAME
L. R. SCHOENMANN
LAND ECONOMIC SURVEY
EDWARD A. HYER
EDUCATION

March 5, 1932

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

Dear Mr. Thwaites:

Your letter of March 2nd has been received and I am pleased to know that the log and reprint reached you.

We shall certainly be anxious to secure the samples from the Menominee well when you find time to send them to us. Your interpretation of the cuttings of this well would also be appreciated.

I can well understand the difficulty that you are experiencing in obtaining publication of your text on glacial geology. We are working on the new generalized report but there is still considerable uncertainty when it will be out.

It is good news to know that you have secured a job for the summer because many are not so fortunate.

With kindest wishes, I am

Yours very truly

GEOLOGICAL SURVEY DIVISION
Petroleum Geologist

REN:M

WM. H. LOUTIT
GRAND HAVEN, CHAIRMAN

HAROLD TITUS
TRAVERSE CITY

PHILIP SCHUMACHER
ANN ARBOR

HARRY H. WHITELEY
DOWAGIAC

W. H. NEWETT
ISHPEMING

M. J. FOX
IRON MOUNTAIN

PHILIP K. FLETCHER
ALPENA

RAY E. COTTON
SECRETARY

STATE OF MICHIGAN



DEPARTMENT OF CONSERVATION

LANSING

GEORGE R. HOGARTH, DIRECTOR

February 27, 1932

H. R. SAYRE
FIELD ADMINISTRATION
GENEVIEVE McCANN
CHIEF CLERK
P. J. HOFFMASTER
PARKS
MARCUS SCHAAF
FORESTER
R. A. SMITH
GEOLOGIST
S. G. FONTANNA
LANDS
FRED A. WESTERMAN
FISH & FISHERIES
P. S. LOVEJOY
GAME
L. R. SCHOENMANN
LAND ECONOMIC SURVEY
EDWARD A. HYER
EDUCATION

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

Dear Mr. Thwaites:

I have your letter of February 24th and was pleased to hear from you.

The log about which you speak is being sent you and we feel that this is a pretty fair record as the samples were accurately saved. I have tried to work into this record some of the new classification of the Clinton as used by Ehlers.

Your comments about the new well at Menominee, Michigan, are very interesting and we shall be very anxious to receive a copy of this log when the operations are finished.

Our Well Driller's Convention convenes next month and they have arranged a rather interesting program. I saw your cross section when in Tulsa in December at the time of the G.S.A. Convention and was very much interested in it. The scale is exaggerated somewhat but not withstanding it is very useful in obtaining the raw interpretation of the structure along the line of section.

I am glad to know that you have not yet suffered salary cuts. We were not quite so fortunate in this regard.

With kindest wishes, I am

Yours very sincerely

R. B. Newcombe

GEOLOGICAL SURVEY DIVISION
Petroleum Geologist

RBN:M
Enc.1

March 2, 1932

Mr. R. B. Newcombe,
Geological Survey,
Lansing, Michigan

Dear Mr. Newcombe:

I wish to thank you for yours of the 27th with enclosed
log of Holutz No. 5, at Muskegon also the separate of your recent paper.

I have duplicate samples from Menominee if you desire them.

The financial situation looks bad here for the politicians
simply have to make a gesture at economy before election. I have hold
up publication of the new text on glacial geology on account of the uncer-
tainty of the situation. Fortunately I have job for the summer which will
help a little.

With best regards,

Sincerely,

Feb. 24, 1932

Mr. R. B. Newcombe,
State Geological Survey,
Lansing, Michigan

Dear Mr. Newcombe:

Would it be possible for you to send me the detailed log of Muskegon Oil Corporation H. Heitz No. 5 which was in part published by you in the last Bulletin of the A. A. P. G.? I would greatly appreciate this for comparison with sections across the lake in Wisconsin.

I have just received samples from Menominee and Marinette Light and Traction Co. well at Menominee, Michigan. It is 655 feet total depth and about 2 feet into granite. Below a few feet in the rock the hole was almost entirely dry. I am still advising about shooting.

Monday I went down to the well drillers convention in Milwaukee and took along the cross section of the United States. Intended to bring it back but they liked it so well I had to leave it for the rest of the convention. Think I sold some copies. It met with a little but criticism at Madison on account of the exaggerated scale.

We are still without salary cuts but live in fear and trembling at the loud voiced threats we hear. So far my telephone has been cut off and that's all. My mapping class is larger than ever, other classes somewhat smaller than usual.

With best regards,

Very truly yours,

STATE OF IOWA
IOWA GEOLOGICAL SURVEY
DES MOINES
GEORGE F. KAY, DIRECTOR

W. H. NORTON, GEOLOGIST
UNDERGROUND WATERS

MOUNT VERNON, Jan. 21, 1922

Dr. E. T. Thwaites,
Madison, Wis.

Dear Doctor Thwaites:--

Some months ago Mr. Lees sent me a copy of your ^{uplifted} log of the Fulton Ill. deep well. As I am now getting my data together for an brief additional report on our Iowa wells it would be a special favor if you could give me also any further data which you may have at hand as to this well. I suppose they found their main flow at or near the bottom, the horizon at which Clinton well, waterworks no. 6, found its phenomenal flow in the Mount Simon.

I note with interest that you discriminate the Trenton and as I have some new wells and quite a number of old ones which go deep into the Cambrian, the latter including several like the Clinton wells described before the lines were drawn as now in the Cambrian formations, I wonder if you could conveniently share with me your samples ^{of the Fulton well} for our state collection. Of course a very little of each will do. If you can do so I will send our collecting bags for the purpose.

Thanking you heartily for any help you may be able to give me,

Yours very truly

W. H. Norton

JOHN M. NELSON
3D DIST. WISCONSIN

Congress of the United States
House of Representatives

Washington, D. C.

February 8
1932

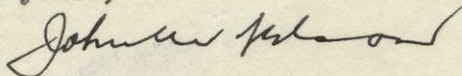
Mr. F. T. Thwaites
R. 4
Madison, Wisconsin

My dear Mr. Thwaites:

Your letter of February 5 received, requesting several Geological Survey Bulletins. I have today requested that these publications be sent to you.

If you do not receive same in due time, kindly let me know. Always glad to be of service.

Very truly yours,



JMN:g

Jan. 23, 1932

Dr. W. H. Norton,
Mt. Vernon, Iowa

Dear Dr. Norton:

In reply to yours of the 21st the blueprint log of No. 3, City of Fulton, Illinois is enclosed. I have no information about where the flow was obtained but think from the grain of the sandstone that you are correct. It is possible that more information could be obtained from the driller, Mr. Jos. Egerec, 100 Washington Circle, Milwaukee, Wisconsin or from the Illinois State Water Survey, Urbana, Illinois. I note in the last number of the Illinois Well Driller that Mr. S. E. Ekblaw has been assigned to the State Water Survey in order to correlate their work with that of the State Geological Survey.

In regard to samples all those from this well were shipped to Mr. L. E. Workman, State Geological Survey, Urbana, Illinois. We do not keep out of state samples unless near to our line or in the case that the local State Survey has no well-organized filing system. I am sure that they will be glad to divide samples with you.

If there is anything else I can do to help you please feel free to call on me.

I had my copy of the cross section of the central United States on the bulletin board for some time. I received many favorable comments from students but inly knocks from the faculty. "Too much exaggeration of the dip" was all they seemed able to see! Dr. Leith was an exception to the general rule, however.

Very truly yours,

Geologist in charge of well records

JOHN M. NELSON
3D DIST. WISCONSIN

COMMITTEES:
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REVISION OF THE LAWS
ROADS

Congress of the United States

House of Representatives

Washington, D. C.

November 12, 1931

Mr. F. D. Thwaites,
R. F. D. #4,
Madison, Wisconsin.

My dear Mr. Thwaites:

In accordance with your request of November 9 Mr. Nelson is forwarding to you under separate cover Professional Paper 164, U. S. Geological Survey.

Please be assured that the Congressman is always glad to be of service.

Very truly yours,

Virginia J. Saunders,
Secretary.

VHS

R. P. D. 4,
Madison, Wisconsin,
November 9, 1931.

Congressman John M. Nelson,
House of Representatives Office Building,
Washington, D. C.

Dear Sir:

Please send me a copy of Professional
Paper 164, The Kaiparowits region, a geographic
and geologic reconnaissance of parts of Utah and
Arizona, by H. E. Gregory and R. C. Moore.

Thanking you for this favor, I am

Yours very truly,

FTT-T

F. T. Thwaites

NATIONAL RESEARCH COUNCIL

Established in 1916 by the National Academy of Sciences
under its Congressional Charter and organized with the cooperation of the
National Scientific and Technical Societies of the United States

B & 21ST STREETS, WASHINGTON, D. C.

July 29, 1931

Dr. Fredrik T. Thwaites,
Science Hall,
Madison, Wisconsin.

My dear Dr. Thwaites:

May we expect your aid in a plan recently developed in this Division for systematic cooperation between geologists, paleontologists and archaeologists, on the one hand, and engineering and excavating concerns on the other? The primary object of the plan is to secure evidence, if it exists, of the presence of man in America during, and near the close of, the Pleistocene. Of the first importance is the immediate presence of a competent geologist at the site of reported fossil or cultural remains in order to date the deposit. The occasion for possible discoveries of this sort is constantly supplied by contractors and engineers in disturbing sand, gravel, stone and earth for highway and railway construction and in the removal of building and other materials.

There is enclosed a program of our recent conference in Chicago, where we first proposed the plan and interested railway and highway engineers and also the national excavating associations in carrying it out. Already requests are coming to the Council for the names and addresses of geologists, paleontologists and archaeologists who can be depended upon to visit places in their vicinity when vestiges of early human occupation are credibly reported.

This Division of the Council has offered to serve as a clearing house for supplying communication and information in carrying out the plan. It has at its disposal a very small initial fund for the necessary expense of a preliminary investigation where the most promising discoveries are reported. Since this initial fund is very small, it will be necessary for the nearest available man to respond. Moreover, it is our hope that the universities and the state geological and archaeological surveys, as well as interested individuals, will augment the slender resources already provided.

The Associated Press, Science Service, and other new-gathering agencies have volunteered their help in securing and reporting reliable information upon the presence and the character of very early

man in America. A large part of our accurate knowledge of Pleistocene man in Europe, Asia, and Africa has come from the sort of cooperative investigation now proposed for our own country and already carried out for our Indian cultures.

If you are willing to help us in this undertaking, I shall be very glad to add your name to our list and to refer to you inquiries which come from your region. A printed account of the conference and of the plan of cooperation has been prepared. Within a few days we shall place a copy of it in your hands. We should then welcome your suggestions for distribution of the pamphlet in your locality and elsewhere throughout the country.

Faithfully yours,

Madison Bentley, Chairman, Committee
on the Search for Pleistocene Man,
Division of Anthropology and Psychology

Oct. 29, 1931

Dr. Madison Bentley,
Division of Anthropology and Psychology,
National Research Council,
B and 21st Sts.,
Washington, D. C.

Dear Sir:

Your circular letter of July 29 a copy of which was sent to me has been on my table for a long time. I had forgotten that you expected an answer until I came to file what had accumulated during the summer.

I will be glad to help in the project to the best of my ability. However, extensive experience with the Pleistocene in this and adjacent states including detailed study of interglacial deposits has thus far failed to show any sign of man prior to late postglacial times. It seems unlikely, therefore, that anything of that sort will come up. No such thing has ever been reported to the State Historical Society to my knowledge. I am convinced that man was a late comer in these parts.

Very truly yours,

F. T. Thwaites, Lecturer in Geology

CONFERENCE ON
DISCOVERY AND PRESERVATION OF PLEISTOCENE MAN

Hotel Stevens, Chicago, April 10, 1931

Held under the Auspices of

Division of Anthropology and Psychology
Division of Geology and Geography
Division of States Relations
Division of Engineering and Industrial Research

NATIONAL RESEARCH COUNCIL

PROGRAM

Afternoon Session, 2:30 o'clock

Address of Welcome, Mr. Rufus C. Dawes
Response for the National Research Council, Mr. Arthur Keith
The Importance of the Conference for the Study of Early Man,
Mr. John C. Merriam
Early Man in North America, Mr. Fay-Cooper Cole
The Great Ice Sheets of the Middle West, Mr. W. C. Alden
Glacial Man in Europe, Mr. George Grant MacCurdy
Pleistocene Man in Asia, Mr. William K. Gregory
Cooperation of the Railroads in Preservation of Indian Cultures in
the Southwest, Mr. W. B. Storey
Present Evidences of Pleistocene Man in America, Mr. Ralph Linton
Prospects for Discovery: A Suggested Procedure for Cooperation,
Mr. M. M. Leighton

Dinner, 7 o'clock

An Engineer's View of the Cooperative Task, Mr. C. N. Conner
Primitive Man in the Field Museum, Mr. Paul S. Martin
Preservation of Indian Cultures in the Middle West, Mr. Carl E. Guthe
Mammalian Deposits in the Northwest, Mr. Samuel H. Cady
The Interest of the Smithsonian Institution in the Discovery of
Pleistocene Man, Mr. M. W. Stirling

John C. Merriam, Honorary Chairman
Madison Bentley, Presiding

MEMBERS AND INVITED GUESTS

- V. P. Ahearn, Secretary, National Sand and Gravel Association, Washington, D.C.
W. C. Alden, Geologist in Charge, Section of Glacial Geology, U. S. Geological Survey, Department of the Interior, Washington, D. C.
John Rice Ball, Department of Geology and Paleontology, Northwestern University.
E. S. Bastin, Chairman of the Department of Geology, University of Chicago.
S. F. Beatty, President, Austin Western Road Machine Association; Vice-President, American Roadbuilders Association; Chicago.
Madison Bentley, Chairman, Division of Anthropology and Psychology, National Research Council, Washington, D. C.
J. E. Buckbee, President, Northern Gravel Company; Member Executive Committee, National Sand and Gravel Association; Chicago.
Ralph Budd, President, Great Northern Railway, St. Paul.
H. A. Buehler, State Geologist, Missouri Bureau of Geology and Mines, Rolla, Missouri.
Samuel H. Cady, General Solicitor, Chicago and Northwestern Railway Company, Chicago.
Col. O. P. Chamberlain, President, Dolese & Shepard Company, Member Exec. Committee, Nat. Sand and Gravel Association; Chicago.
R. T. Chamberlain, Professor of Geology, University of Chicago.
H. G. Clark, Chief Engineer, Chicago, Rock Island and Pacific Railway, Chicago.
C. N. Conner, Engineer-Executive, American Roadbuilders Association, Washington.
Fay-Cooper Cole, Chairman of the Department of Anthropology, University of Chicago.
Rufus C. Dawes, President, the Chicago World's Fair Centennial Celebration.
Oliver C. Farrington, Curator of Geology, Field Museum, Chicago.
E. H. Fritch, Secretary, Association of American Railway Engineers, Chicago.
U. S. Grant, Head of the Department of Geology, Northwestern University, Evanston, Ill.
W. K. Gregory, Curator of Physical Anthropology, American Museum of Natural History, New York.
C. E. Guthe, Director, Museum of Anthropology, University of Michigan, Ann Arbor; Chairman, Committee on State Archaeological Surveys, National Research Council.
C. M. Hathaway, Illinois State Highway Engineer, Springfield.
R. M. Hutchins, President, the University of Chicago.
Dugald C. Jackson, Chairman, Division of Engineering and Industrial Research, National Research Council.
G. F. Kay, Head of the Department of Geology, University of Iowa, Iowa City.
Arthur Keith, Chairman, Division of Geology and Geography, National Research Council.
A. R. Kelly, Professor of Anthropology, University of Illinois, Urbana, Ill.
F. P. Keppel, President, Carnegie Corporation of New York.
M. M. Leighton, Chief, Illinois State Geological Survey, Urbana.
Ralph Linton, Professor of Anthropology, University of Wisconsin, Madison.
George Grant MacCurdy, Curator of Archaeology, Peabody Museum, Yale University; Director, American School of Prehistoric Research In Europe, New Haven, Conn.

Paul S. Martin, Curator of North American Archaeology, Field Museum, Chicago.
John C. Merriam, President, Carnegie Institution of Washington.
W. K. Moorehead, Director, Museum of Phillips Academy, Andover, Mass.
A. J. Moorshead, President, Madison Coal Corporation; representative of the Illinois Central Railway, Chicago.
A. W. Newton, Chief Engineer, Chicago, Burlington and Quincy Railway, Chicago.
Alan J. Parish, Executive Committee, Associated General Contractors of America, Paris, Illinois.
F. W. Renwick, President, Chicago Gravel Company, Chicago.
A. S. Romer, Department of Geology, University of Chicago.
Fred W. Sargent, President, Chicago and Northwestern Railway, Chicago.
H. A. Scandrett, President, Chicago, Milwaukee and St. Paul Railway, Chicago.
J. R. Sensibar, President, Construction Materials Company, Chicago.
Frank G. Sheets, Chief Engineer, State Highway Department, Springfield, Ill.
M. W. Stirling, Chief, Bureau of American Ethnology, Smithsonian Institution, Washington, D. C.
W. B. Storey, President, Atchison, Topeka and Santa Fe Railway, Chicago.
Lieut.-Col. C. W. Weeks, District Engineer, U. S. Army, Chicago.

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May 27, 1931

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POLLUTION

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

Dear Mr. Thwaites:

Your letter of May 25th, was received this morning and I am glad that the well records sent you will be of some assistance in the compilation of your material for the Kansas Geological Society field conference. I will certainly be glad to obtain a print of this section.

It is good news to learn that the well record work in Wisconsin will not be entirely abandoned because of the elimination of the Survey organization. Fortunately business conditions have been such that extra work could be carried on and that well records could be whipped into shape for publication. This has been an important factor in the completion of my thesis, although some of the details in the assimilation of current records has been neglected in the last few months. I hope to get this work straightened around before long.

I will be glad to hear from you anytime that you find occasion to use the services of this Department.

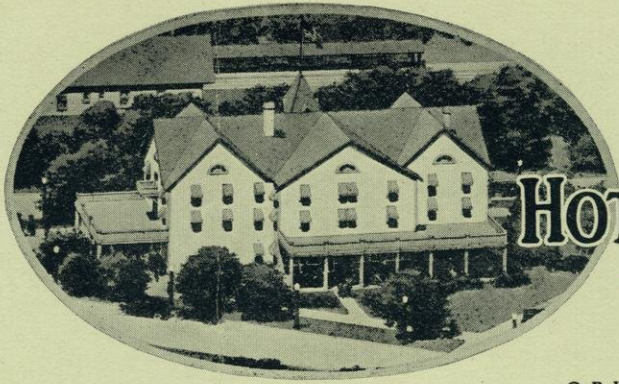
With kindest personal regards, I am

Yours very truly

R. B. Newcombe

GEOLOGICAL SURVEY DIVISION
Petroleum Geologist

RBN:M



HOTEL HELLAND

AT THE DELLS

KILBOURN
WISCONSIN

O. P. HELLAND

PROPRIETOR

May 15, 1931

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

Dear Prof. Thwaites:

Dr. J. R. Ball and I have been spending some time examining sections of the Cambrian and Ordovician along the Wisconsin River. We were anxious to see ^{some} of the stuff Ulrich calls Mendota, but in the quarries we visited around Madison we were not successful in finding any. I wonder if you would be kind enough to tell me just where such exposures could be found. We hope to try it again next week end. We should also like to see some genuine Madison.

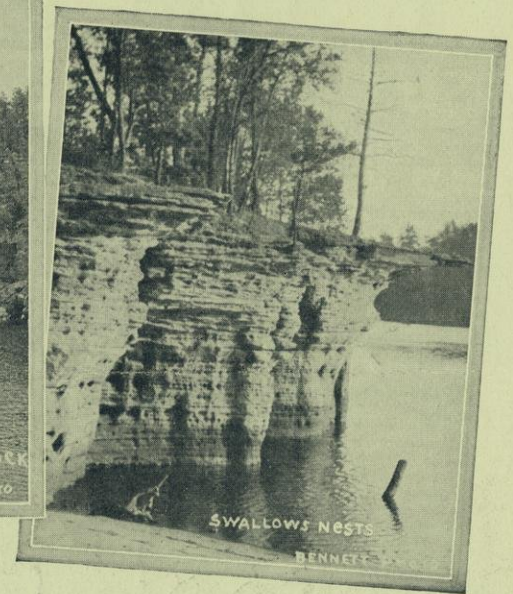
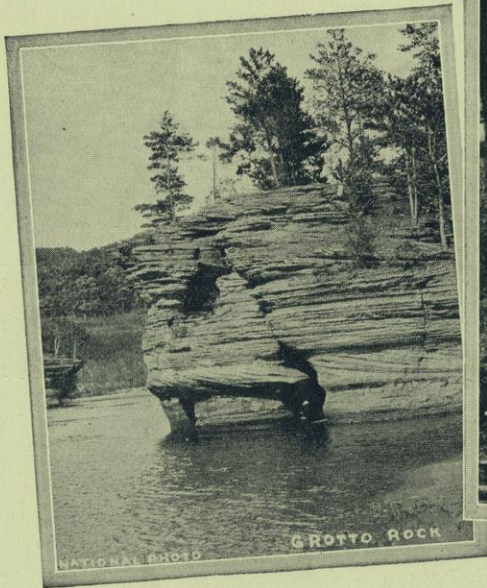
Have you seen the section along the north side of the highway a few miles west of Middleton? The Onesta rests on a sandstone; the contact is marked by a few inches of shale. The lower surface of the Onesta is very irregular and has every appearance of being unconformable on the sandstone. I am wondering how you would interpret this. Near Traubeka, Wis., it seemed to me that the Madison rested unconformably on the Jordan and that the Madison graded upward conformably into the Onesta.

I shall appreciate any information on the above questions.

Very sincerely yours,

C. E. Needham

Northwestern University, Evanston, Ill.



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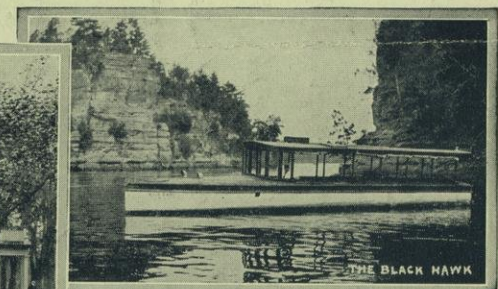
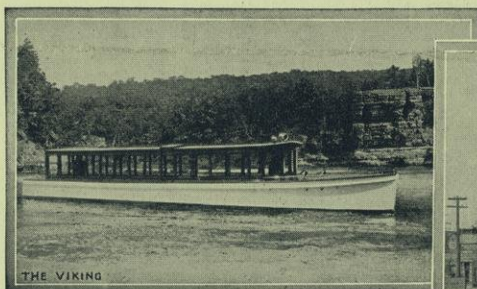
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May 19, 1931

Mr. G. E. Needham,
Dept. Geology,
Northwestern University,
Evanston, Illinois

Dear Mr. Needham:

In reply to yours of May 15 most of the localities where the Mendota was studied are described in Vol. 2, Geology of Wisconsin, pp. 605-606. However, some of these places cannot now be seen. What is probably the best exposure is on Farwells Point, Lake Mendota. You can now drive close to this by following the road to the soldiers hospital. Both bottom and top can be seen here. The highest beds are probably what Ulrich calls Lodi shale. Overlying formations can be seen in the railroad cut at Mendota about a mile to the northeast on Wis. 113. Here a discontinuity between what Ulrich called Jordan and the true fossiliferous Madison is well exposed. At that time Ulrich said that there is no Mendota beneath the cut but a well put down later just west of the cut showed the same section as on the lake shore.

Second in importance is Maple Bluff where the section could be examined the last time I was there from some stairs leading down to the beach. This area is now settled up and collecting is therefore difficult.

Near the old quarries west of Madison the Mendota is no longer very well exposed. It can be seen in a cut on the C. M. St. P. and P. R. R. in NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 21, T. 7 N., R. 9 E on Wis. 13-U. S. 12 just where the highway passes over a rise and leaves the tracks in going west. A cut near the University barns about a mile and a half east of this place was recently widened and is reported to show some Mendota.

The Mendota may also be seen on the shores of Lake Monona in SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 25, T. 7 N., R. 9 E., and in SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 8, T. 7 N., R. 10 E. There are other exposures farther south and west but I think these will be enough. One which you might like to see, if still open, is in center Sec. 1, T. 7 N., R. 8 E. on road leading north from Pheasant Branch. Here admitted Lodi shales overlie the dolomite bed.

A few years ago the excavation for the new Congregational church on University Ave. gave a good section. Mr. Gilbert Raasch, now Curator of our museum, collected fossils which convinced him that my old contention was correct, namely that the Mendota is equivalent to the Black Earth or St. Lawrence dolomite of Ulrich.

I have driven by the outcrop on Wis. 11 which you mention many times but since it is so hard to park on Wisconsin paved highways have never stopped to examine it. A few years ago a good section of the beds above the Mendota which are concealed at most places, was seen in old quarries in NE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 28, T. 7 N., R. 9 E. This locality is now settled up and I know nothing of the present conditions.

Since 1924 my work has been confined to wells and I have avoided the arguments which work on outcrops seemed to lead to. If you come up I will be glad to show you around or possibly Mr. Raasch, who has had extensive experience in collecting from these formations, would show you the localities. Both of us will be glad to help you in any way we can.

Very truly yours,

Lecturer in Geology

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Mr. F. T. Thwaites
Geological & Natural History Survey
Madison, Wisconsin

Dear Mr. Thwaites:

Upon returning to the office this morning I found your kind letters of March 6th and 7th, and also the manuscript. I am certainly very grateful to you for the pains you have taken in writing me at length on the correlation of the Cambrian and Lower Ordovician of Wisconsin. The large blueprint map will be very usable and I will be more than glad to keep it for our files if it is agreeable with you for us to have the print.

My article is slowly rounding into shape and I hope to have it ready for presentation at the University for my Doctor's dissertation on the 15th of April. After that time I hope to revise the text in briefer form for publication in the Bulletin of the American Association of Petroleum Geologists. Of course, I will be mighty pleased to send you a reprint when it is available.

Assuring you that I very much appreciate hearing from you from time to time, I am with sincerest regards,

Yours very truly

R. B. Newcombe

GEOLOGICAL SURVEY DIVISION
Petroleum Geologist

RBN:M

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

Dear Mr. Thwaites:

Thank you for your fine comment on Fenneman's PHYSIOGRAPHY OF THE WESTERN UNITED STATES. We are also appreciative of the suggested corrections and shall give them due consideration.

We are, of course, pleased to learn that you will use this book as the official text next year. I hope it yields excellent teaching results for you.

Yours very truly,

McGraw-Hill Book Company, Inc.,

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JMM:GEN:3-19

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March 2, 1931.

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

Dear Professor Thwaites:

At the suggestion of Professor Lobeck of Columbia University, we are glad to send you a complimentary desk copy of Fenneman's PHYSIOGRAPHY OF WESTERN UNITED STATES.

This text has been used in manuscript form by the author for ten years in advanced classes in physiography at the University of Cincinnati. During this time, the material has been constantly revised to produce a textbook that is both scientifically and pedagogically sound. The list price is \$5.00.

We shall of course be interested in having your comment on this book.

Yours very truly,

McGraw-Hill Book Company, Inc.,

JMM:GEN:2-27

J. M. Mellinger
J. M. Mellinger,
College Department.

March 9, 1931

Mr. J. M. Mellinger,
McGraw-Hill Book Co., Inc.,
370 Seventh Ave.,
New York City

Dear Sir:

In reply to yours of the second I wish to thank you for the complementary desk copy of Fenneman's Physiography of the western United States.

I did not make this book the official text for the second semester in my course on Physiography of the United States for it did not come out until after some students who had entered for the second semester had purchased the old text. In spite of this fact nine out of 13 students in the course have voluntarily purchased copies to use as a substitute for the old text. Next year this book will be the official text if I remain on the job. All have found it an immense improvement over the book we used before.

Although I am greatly pleased with the work as a whole I feel the lack of diagrammatic cross sections illustrating the relation of geology and topography. I was also surprised to note that some of the half tones have a very coarse mesh as though intended for newspaper printing. I hope that these minor defects can be corrected in the forthcoming volume on the eastern United States.

Very truly yours,

F. T. Thwaites, Lecturer in Geology

Waunakee, Wisconsin,
October 14, 1930.

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

Dear Mrs. Thwaites:

I am inclosing check for \$4.80 to cover the
interest which was due on September 24, 1929. You may
clip the coupons and deduct the 1930 interest.

Yours very truly,

1-15-31
original never
returned by
Mrs. McWatty

R. F. D. 4,
Madison, Wisconsin,
October 13, 1930.

Mr. Charles McWatty,
Waunakee, Wisconsin.

Dear Mr. McWatty:

To date the interest which was due on September 24, 1929 has not been received.

With your permission I will clip the 1929 and 1930 coupons and deduct the interest which was due on September 24, 1930.

I am inclosing a return envelope for your convenience.

Yours very truly,

Amy M. Thwaites

R. F. D. 4,
Madison, Wisconsin,
April 2, 1930.

Mr. Charles McWatty;
Waunakee, Wisconsin.

Dear Mr. McWatty:

A statement of your account as requested from
father can best be given by quoting my letter to you under
date of December 4, 1929:

note
"Interest on your/for \$80.00 was due on
September 24, 1929. An early remittance will
be appreciated."

If you approve, I will clip the 1929 and 1930
coupons next September and deduct the interest (\$4.80).
By keeping the \$3.20 balance with your bond, it will
carry itself for at least four years, if a coupon is
clipped each September and \$0.80 deducted from the
cash balance.

Yours very truly,

Amy M. Thwaites

52.31
68.12
73.61
79.40
82.25
86.26
91.60
96.40
101.20
82.40

813.55

833.00

1.00

5044
187

5231
6905
507

6912

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STATE OF MISSOURI

BUREAU OF GEOLOGY AND MINES

ROLLA, MO.

August 4, 1931.

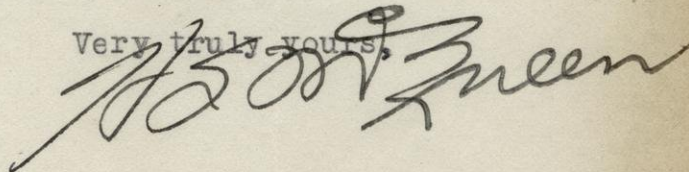
Dr. F. T. Thwaites,
Department of Geology,
University of Wisconsin,
Madison, Wisconsin.

Dear Dr. Thwaites:

The publications requested in your letter of recent date were sent during my absence from the office.

Volume XX, "Water Resources of Missouri", was not included in as much as it covers surface waters only and consists, in the main, of stream flow data.

Very truly yours,



McQ/DS

R. F. D. 4,
Madison, Wisconsin,
March 14, 1931.

Congressman John M. Nelson,
Washington, D. C.

Dear Sir:

I wish to thank you for your assistance in
securing a copy of Bulletin 823 of the United States
Geological Survey.

Yours very truly,

FTT-T

F. T. Thwaites

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STATE OF MICHIGAN



DEPARTMENT OF CONSERVATION

LANSING

GEORGE R. HOGARTH, DIRECTOR

March 10, 1931

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POLLUTION

Mr. F. T. Thwaites
Geological & Natural History Survey
Madison, Wisconsin

Dear Mr. Thwaites:

This will acknowledge receipt of your letter of March 6th, enclosing a copy of your paper and blueprint map, which have been received during Mr. Newcombe's absence from the office.

Yours very truly

A handwritten signature in cursive script, appearing to read 'J. R. Sayre'.

GEOLOGICAL SURVEY DIVISION
Petroleum Engineer

FRF:M

R. F. D. 4,
Madison, Wisconsin,
March 3, 1931.

Congressman John M. Nelson,
Washington, D. C.

Dear Sir:

On February 21, 1931 I wrote the Superintendent
of Documents for one copy of U. S. Geological Survey
Bulletin 825, Bibliography of North American Geology,
1919-1928. Today I am informed that it has not been
printed. Inasmuch as I have seen a copy of said bulletin,
I am asking you to help me secure a copy.

Thanking you in advance for whatever you can
do to help me, I am

Yours very truly,

FTT-T

F. T. Thwaites

R. D. 4, Madison, Wisconsin
Feb. 5, 1932

Hon. John M. Nelson,
Member of Congress,
Washington, D. C.

Dear Sir:

I will be greatly obliged if you can procure for me the
following publications:

U. S. Geological Survey Professional Paper 165

U. S. Geological Survey Professional Paper 170-A

" " " Bull 839

Very truly yours,

F. T. Ewart,

R. D. 4, Madison, Wisconsin

JOHN M. NELSON

3D DIST. WISCONSIN

COMMITTEES:

INVALID PENSIONS, CHAIRMAN
REVISION OF THE LAWS
ROADS

Congress of the United States
House of Representatives

Washington, D. C.

March 7, 1931

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

My dear Mr. Thwaites:

Pursuant to your request Mr. Nelson is forwarding to you
under separate cover U. S. Geological Bulletin No 823.

Please be assured that the Congressman is glad to be of service.

Very truly yours,

Virginia A. Saunders,
Secretary.

VHS

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DEPARTMENT OF CONSERVATION

LANSING

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December 10, 1930

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EDWARD A. HYER
EDUCATION
HOMER S. MURPHY
POLLUTION

Mr. F. T. Thwaites
Geologist in charge of Well Records
Geological and Natural History Survey
Madison, Wisconsin

Dear Mr. Thwaites:

The samples from the Solvay Process Company have been received. As soon as our record has been prepared we will send you a copy which you can have for comparison with the one you have made. We always encounter difficulty in sub-dividing the divisions of the Detroit River Series or Upper Monroe. Usually no effort is made to do this in deep wells drilled unless the well is close enough to the type of locality to be directly comparable.

The top of the Salina is a very arbitrary division and it has always been considered the top of the first salt bed encountered below the base of the Sylvania. We have thought for some time that the Monroe group and Salina should be included in one formation and called the Monroe-Salina. The reason for this is that very similar depositional and climatic conditions must have existed through the entire time which these beds were deposited. We find in the north central part of the state that salt beds persist well up to the bottom of the Sylvania and even in the Upper Monroe. This condition would be expected in view of the vast quantity of anhydrite which is found all through the Monroe Series. I am enclosing a reprint of the paper presented at the Michigan Academy of Science two years ago which will give you some idea on the subject.

Your comments concerning the correlation of the deep well drilled on the Moe farm in Chester township, Ottawa county, are extremely interesting and I have shown your letter to Mr. Poindexter who has been examining our samples for the past year. It appears that the correlation of formations below the Trenton in the central part of the Michigan Basin is going to be a very difficult task and we will probably want to enlist your aid on frequent occasions in the future.

Trusting that this finds you in good health and with sincerest wishes for the Holiday Season, I am

Yours very truly

P. B. Newcombe

GEOLOGICAL SURVEY DIVISION
Petroleum Geologist

RBN:M

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DEPARTMENT OF CONSERVATION

LANSING

GEORGE R. HOGARTH, DIRECTOR

September 26, 1930

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Mr. F. T. Thwaites
Geological and Natural History Survey
Madison, Wisconsin

Dear Mr. Thwaites:

Your letter of September 23rd, threw an interesting light on our correlation of the cuttings from the Chester township, Ottawa county, Moe #1 well. Mr. Poindexter has carried on all the examination of samples and your letter will be brought to his attention when he returns from the field.

We will go into the study of the oolites more thoroughly as you suggest. I certainly agree with you that it is a mighty tough proposition to correlate samples from any one given well, especially when the section is not exposed anywhere in the immediate vicinity. A great deal can happen to the section in the Cambrian and Lower Ordovician rocks of the central part of the Michigan Basin.

We have plenty of sample material in addition to that which was sent you and so you may keep the cuttings for your own record. We most thoroughly appreciate your counsel and advice in the correlation of our deep wells and if we can in any way reciprocate these favors, please do not hesitate in calling upon us.

With sincerest regards, I am

Yours very truly

R. B. Newcombe

GEOLOGICAL SURVEY DIVISION
Petroleum Geologist

RBN:M

Sept. 30, 1930

Mr. R. B. Newcombe,
Geological Survey Division,
Dept. of Conservation,
Lansing, Michigan

Dear Mr. Newcombe:

I wish to acknowledge your letter of the 26th and the one last week enclosing the log of the Wells well. As you have a duplicate set of samples I have had mine bottled and will look them over soon. On looking over your interpretation I am struck with the possibility that there may be no real St. Peter sandstone but that what is called St. Peter is really a sandstone in the Lower Magnesian. I have made this correction in some other records in that region. However, I will not be sure until I have looked at the samples.

I sent you a sample of the oolitic chert and dolomite from the Madison quarries which I thought might be of value in the study of the Chester log. I will add that the dolomite is much more like that of the known Eau Claire than the known Lower Magnesian. It is rare in the latter to get so much sand through so great a thickness.

I am very glad to be able to help you at any time.

Classes are getting started and soon field trips will be on and last until snow flies.

Very truly yours,

Geologist

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November 8, 1930

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Mr. F. T. Thwaites
University of Wisconsin
Geological & Natural History Survey
Madison, Wisconsin

Dear Mr. Thwaites:

We are forwarding under separate cover a print of the Howell Structure, Livingston County, and a report which accompanies it.

Yours very truly

R. B. Newcombe

GEOLOGICAL SURVEY DIVISION

Geologist

RBN:M

Dec. 4, 1930

Mr. R. B. Newcombe,
State Geological Survey Division,
Dept. of Conservation,
Lansing, Michigan

Dear Mr. Newcombe:

Samples from Solvay Process Co. No. 36, Zug Island, Detroit, Michigan were sent you by express a few days ago. The set is not complete and many labels could not be read with certainty. However, I think I have all but one of the samples arranged in correct order. Description and blue print log will be sent in a short time. I have the casing log. For correlation I followed the record of the salt shaft near Detroit. I had difficulty in subdividing the strata above the Sylvania and in fixing the top of the Salina. Any suggestions which you can make will be greatly appreciated.

Since writing you in September I found soft oolites in the samples from the railroad well at Wells. These certainly came from the Lower Magnesian and weaken my doubts about the similar ones in the deep oil test. As a consequence I feel more in favor of your revised log sent me in September.

With best regards,

Very truly yours,

Geologist in charge of well records

Thank you for the report on the Howell Structure.

Sept. 15, 1930

Mr. R. B. Newcombe,
Geological Survey Division,
Dept. of Conservation,
Lansing, Michigan

Dear Mr. Newcombe:

Your letter of June 20 and another package of samples were awaiting me on my return from work in Illinois. I take it that these are from the same test well and will return them at an early date. The Detroit samples will be sent you as soon as I can examine them for the drillers and make my report. I am promised more samples from the White Cloud oil test but to date have seen nothing of them. Also found a letter saying that samples had been sent me from Wells, Michigan but have not seen them. If they came my assistant who carried on during my absence, did not mention them. Log of this well was also enclosed.

I had a good summer in Illinois although the weather was far from pleasant much of the time. Located some possible structures which will have to be checked before publication.

Very truly yours,

Geologist in charge of well records

~~White~~ Newcombe

6-24-30

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DEPARTMENT OF CONSERVATION

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June 20, 1930

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POLLUTION

Mr. F. T. Thwaites
Geological and Natural History Survey
Madison, Wisconsin

Dear Mr. Thwaites:

I certainly appreciate your long letter of June 14th, and I am glad to know that you had a chance to look over the samples before leaving for your summer's work in the field. It is unfortunate that they reached you in bad condition. There must have been some slip here in the office. The boy who prepares our samples for examination was asked to pack them with the utmost care.

The samples from Ohio are certainly very interesting. I had occasion to stop at the Pure Oil office in Chicago at about the same time that I was in Madison last fall. It is very complete. The graphitic limestones are extremely interesting.

Your suggestions concerning the marking of samples and the difficulties to be encountered in the use of gum labels are very timely. I think that a great deal depends upon the nature of the filing space where the samples are kept. We use steel cases which are practically moisture free and they also eliminate the damaging effects of light.

We will be very glad to obtain the samples for the Solvay Process well in Detroit. Our contacts with the salt companies are very remote and unfortunately we have very few good records when one considers the large number of salt wells drilled in the state. Our law relating to drilling operations does not affect the salt industries. These people had a strong lobby at the time the legislation was inaugurated and, therefore, they obtained all the protection and none of the obligations. Now that the oil industry is becoming an important factor in the state, drilling operations for salt may come ultimately under the same regulations as for oil and gas. I most sincerely hope so as it is only fair.

With best wishes for a very excellent summer, I am

Very sincerely

R. B. Newcombe

GEOLOGICAL SURVEY DIVISION
Petroleum Geologist

REN:M

March 1, 1930

Mr. R. B. Newcombe,
Geological Survey,
Lansing, Michigan

Dear Mr. Newcombe: I have received a set of samples from well No 1, Kowago Gas and Oil Co., White Cloud, Michigan. The well was drilled by the Gray Well Drilling Co. of Milwaukee. I would like to know if you have a set of samples from this hole and if so if it would be possible for me to have a copy of your log. I will have to make a report on the log to the drillers for their records and any information you can furnish will be of much help to me. I have to do this out-of-state work to keep in with the Wisconsin drillers. I will add that any information of this class is placed in our confidential files. If you send anything which is not to be communicated to the drillers please so advise.

Since you were here my old hernia broke out again and I have just returned from a two weeks visit to the hospital. I certainly hope the surgeon did a better job this time.

Very truly yours,

F. T. T.

F. T. Thwaites, Geologist

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STATE OF MICHIGAN



DEPARTMENT OF CONSERVATION

LANSING

GEORGE R. HOGARTH, DIRECTOR

October 23, 1929

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POLLUTION

Mr. F. T. Thwaites
Wisconsin Geological Survey
Madison, Wisconsin

Dear Mr. Thwaites:

I have just returned from my trip and believe that it has proved every bit as interesting as expected.

I met Dr. Graham, formerly at the University of Minnesota and University of Iowa, who is now teaching at Ohio State. I had a long talk with him concerning some of the Lower Ordovician and Cambrian members on which you have done so much work.

I hope that sometime you may be able to get into Michigan and that I may be able to reciprocate the very courteous treatment and splendid time which I had with you.

With sincerest wishes, I am,

Yours very truly

R. B. Newcombe

GEOLOGICAL SURVEY DIVISION
Geologist

RBN:g

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STATE OF MICHIGAN



DEPARTMENT OF CONSERVATION

LANSING

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September 19, 1930

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Mr. F. T. Thwaites
Geological and Natural History Survey
Madison, Wisconsin

Dear Mr. Thwaites:

Your letter of September 15th, reached me before I had been able to send out a letter in explanation of the samples which were mailed you. This letter has no doubt reached you by this time.

It is gratifying to know that you had a most successful summer in Illinois. I guess we all felt the ill effects of the dry weather this year.

We have received the samples for the well drilled for the Escanaba and Lake Shore Railroad at Wells, Michigan, and in case you do not receive a consignment of the cuttings we will be glad to furnish them to you. I note that you mention you were able to obtain a driller's log of this well. We would certainly appreciate receiving a copy of this driller's record so as to more accurately complete our file. I am enclosing the record as prepared from samples by Mr. Poindexter.

With kindest wishes, I am

Yours very truly

R. B. Newcombe

GEOLOGICAL SURVEY DIVISION
Petroleum Geologist

RBN:M
Enc.1

March 7, 1931

Mr. R. B. Newcombe,
State Geological Survey,
Lansing, Michigan

Dear Mr. Newcombe:

I had no sooner mailed my letter of yesterday than I discovered two errors in it. First I forgot to thank you for the separate of your recent paper on the Devonian. Second, I followed that in making the reference to Pohl on the Devonian of Wisconsin as Bulletin 2 (II) whereas it should be 11. This came about from the common use of the archaic Roman numerals which it seems to me should be relegated to the discard.

If you do not care to keep the large map please return that but the manuscript is to be thrown away when you have finished with it. Of course I will send you a copy of the final paper. It has passed Dr. Lane but not the editor of the Geological Society.

Very truly yours,

Geologist in charge of well records

March 6, 1931

Mr. R. B. Newcombe,
State Geological Survey,
Lansing, Michigan

Dear Mr. Newcombe:

In reply to yours of Feb. 22, Feb. 26, and March 3 I am sending herewith rough copy of my paper which was presented at Toronto together with a blueprint map. You do not need to return this copy. I am sorry that I dare not send you the carbon of the final draft but as I have only one such it seems unwise to lend it as I might need it at any time to compare with any changes the editor may make. Last time they cut up a carefully edited paper so that it made no sense whatever, doubtless with the best intentions!

The delay in sending the well logs was due to an error in address made by my assistant who sent them to Ann Arbor where the postal clerks had never heard of a State Geological Survey!

In regard to Bates No. 1 I have no interest in the log except as requested by the Gray Well Drilling Company who sent me some samples. If they send no more I will drop the matter with a clear conscience.

Thank you for the logs of deep wells along the Lake Michigan coast. I am awaiting the log of the Muskegon deep test with interest.

I am giving below the literature on the formations near Milwaukee. Nothing has yet been published on the Mississippian age of the Kenwood.

Edwards, Ira, and Raasch, Gilbert, Notes on the occurrence of Upper Devonian strata in Wisconsin: Milwaukee Pub. Mus., Year Book, vol. 1, pp. 88-93, 1922

Pohl, E. R., The Devonian of Wisconsin, Part 1: Milwaukee Pub. Mus., Bull., vol. 21, no. 1, 1929

Pohl, E. R., Middle Devonian pelecypods of Wisconsin and their bearing on correlation: Washington Acad. Sci., Jour., vol. 19, pp. 53-59, 1929

Raasch gives me the following section at Milwaukee.

Kenwood formation, shale now recognized as Mississippian and found only under the lake 55 feet
Milwaukee formation, shale and shaly dolomite (conglomerate rock) 81 feet
Thiensville formation, dolomite
Lake Church formation, dolomite, present in Ozaukee Co. 35 feet.

He tells me that the Waubesa is nowhere found between the Devonian and the Racine.

Now this literature is far from satisfactory on the newer developments but I think that some at least may be new to you. I have had no copies of these reports but hope to get some.

In regard to the lists I wish to make some suggestions. (1) The name Maquoketa is used only in western Wisconsin and should for the present at least be considered a synonym for Richmond. This is also the case in northern Illinois. (2) The name Galena-Black River Group includes the Decorah and Platteville as well as the now discredited term Beloit which I am sure is being left out of new geologic column. (3) The term Lower Magnesian Group included both the Shakopee and the Oneota; the name New Richmond is now discredited and will probably be dropped entirely. (4) The name Jordan is being dropped in Wisconsin for there is no definite line to divide it from the underlying Trempealeau formation. (5) The names Lodi and St. Lawrence are member and not formation names; substitute Trempealeau. (6) The Upper Greensand and Yellow Sandstone of Twenhofel and Thwaites, 1919 are now recognized as Mazomanie. There is no reason to divide the Mazomanie and Franconia for the discrimination of the Mazomanie as a separate formation was premature. Mazomanie is simply a change in lithology of the old Franconia as first defined. The term Lower Greensand should be omitted. (7) It is now recognized that the Mendota is a phase or local facies of the basal Trempealeau and all but Ulrich agree on this as a result of new fossil discoveries by Raasch. (8) It is now known that the Devils Lake is upper Mazomanie and this name should be dropped.

The correlation of the Munising as Jordan and Madison is, I think, premature. Ulrich has spent several vacations with Hotchkiss in the northern Peninsula and has some data on this matter. I would ask Hotchkiss as Ulrich does not seem to have time to answer letters, at least he tells me this. Although I (and everyone else who has studied the question seriously) disagree with him about the Mendota, Mazomanie, and Devils Lake, I would not hesitate to accept his conclusions in northern Michigan as the best available so far as I know. I take it that I can keep the correlations as I notice they are carbons.

If I can help you at any time please feel free to call on me.

Very truly yours,

Geologist in charge of well records

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STATE OF MICHIGAN



DEPARTMENT OF CONSERVATION

LANSING

GEORGE R. HOGARTH, DIRECTOR

March 3, 1931

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EDWARD A. HYER
EDUCATION

HOMER S. MURPHY
POLLUTION

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

Dear Mr. Thwaites:

I was mighty pleased to receive your letter of February 19th, enclosing detailed records and blueprint logs of the Escanaba Solvay Process and Newaygo Gas and Oil Company wells. Complete samples are being saved from the Newaygo Gas and Oil Company - Bates #1, and I am quite sure that they will be accessible to you in the future. The County Surveyor of Newaygo county is looking after this matter and he is on the job most of the time.

With kindest regards, I am

Yours very truly

R. B. Newcombe

GEOLOGICAL SURVEY DIVISION
Geologist

REN:M

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STATE OF MICHIGAN



DEPARTMENT OF CONSERVATION
LANSING

GEORGE R. HOGARTH, DIRECTOR

February 26, 1931

HUGH E. GREEN
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CHIEF CLERK
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FORESTER
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EDWARD A. HYER
EDUCATION
HOMER S. MURPHY
POLLUTION

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

Dear Mr. Thwaites:

I have just recently gone over the abstract of your paper before the Geological Society of America on the "Buried Pre-Cambrian of Wisconsin". This study has a very important bearing on the structural conditions which underlie the Michigan synclinal basin and I am most anxious to know where it will be published.

At the present time I am preparing a paper which I hope to present this spring at the University for my Doctor's dissertation. The title of this paper will be "The Depositional and Structural Features of the Michigan Synclinal Basin", and will treat largely of a study compiled from our records. Contour maps showing lines of equal thickness for various paleozoic formations reveal a great deal concerning configuration of the "basin" at various periods. These also indicate the axes of tilting and many other important structural features.

If you have an extra copy of your manuscript I would be very much pleased if you would desire to loan it to me. Possibly some of your discoveries would add a great deal to the accuracy of the interpretation of Michigan conditions.

With sincerest regards, I am

Yours very truly

R. B. Newcombe

GEOLOGICAL SURVEY DIVISION
Geologist

RBN:M

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STATE OF MICHIGAN



DEPARTMENT OF CONSERVATION
LANSING

GEORGE R. HOGARTH, DIRECTOR

February 24, 1931

HUGH E. GREEN
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EDWARD A. HYER
EDUCATION
HOMER S. MURPHY
POLLUTION

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

Dear Mr. Thwaites:

We will certainly be mighty glad to send you the detailed record of the deep test well at Muskegon when our sample determinations have been completed. At the present time the samples are in our Muskegon field office and the detailed record has not yet been prepared.

In view of the fact that you are interested particularly in correlating formations beneath the lake copies of records of all the deep wells in the west side of the state are being enclosed.

In discussing the Devonian and Mississippian rocks for a current paper I am making an effort to establish regional correlations. Recently I learned from some source or other that a fauna found in material from the intake tunnel in Milwaukee showed the existence of Mississippian rocks. It seems to me that the name used for this formation was "Kenwood". I would appreciate very much if you could direct me to any published data which would establish more definitely the nature of this proposed formational unit.

Lists of my Cambrian and Ordovician correlations are also being enclosed for your comments. Much of this data has been culled from publications of your own and I am primarily anxious to learn if you would suggest any new changes in the light of present facts.

With sincerest wishes, I am

Yours very truly

R. B. Newcombe

GEOLOGICAL SURVEY DIVISION
Geologist

RBN:M
Encs.

TABLE I

Michigan Lane - 1908		Northern Illinois Thwaites - 1927		Wisconsin Thwaites - 1923		Indiana Logan - 1926	
St. Croixan	Munising	Jordan	Madison	Jordan	Jordan	Lodi St. Lawrence	
			Mendota, Devils Lake				
			Jordan				
	Lake Superior	Jacobsville	Trempealeau	Trempealeau	Upper Greensands Franconia Middle Limey Shales Lower Greensands		
			Mazomanie	Mazomanie			
			Franconia	Franconia			
			Dresbach	Dresbach		Dresbach	
Eau Claire	Eau Claire	Eau Claire					
Mt. Simon	Mt. Simon	Mt. Simon					

ORDOVICIAN

	Michigan	Ontario	Ohio	Indiana	N. Illinois	Wisconsin
UPPER	Cincinnati Group Big Hill Richmond Stonington Bill's Creek	Richmond	Richmond	Richmond Group	Richmond Group Maquoketa	Richmond Group Maquoketa
	Lorraine Eden	Dundas	Lorraine Maysville Eden	Oswego Lorraine Maysville Eden		
	Utica Collingwood	Utica Collingwood		Utica		
MIDDLE	Trenton Limestones	Trenton	Trenton	Trenton		
	Galena Black River &	Black River		Black River	Galena	Galena- Black River Groups Galena
	Lowville Stones River				Decorah Platteville	Decorah Platteville - Beloit
LOWER	St. Peter Sandstone		St. Peter	St. Peter	St. Peter	St. Peter
CANADIAN of (E.O.Ulrich)	Prairie Hermansville du Chien (Calciferos)	Chazy Beekmantown	Sandy Dolomite (Unnamed)	Prairie du Chien Shakopee New Richmond	Prairie du Chien Group Shakopee "New Richmond"	Lower Mag- nesian Group Shakopee
OZARKIAN of E.O.Ulrich				Onecta	Onecta	Onecta

Feb. 21, 1931

Mr. R. B. Newcombe,
State Geological Survey,
Dept. of Conservation,
Lansing, Michigan

Dear Mr. Newcombe:

I wish to thank you for the separate of your paper on the Middle Devonian Unconformity in Michigan. I examined samples from the deep test hole drilled at Muskegon before the discovery well. In that I could find no Berea. I am interested to note that the red shaly limestone which I suggested at the time as a key horizon is really so persistent. I do not find Phillips report in my files and must get a copy.

I would appreciate a log of the last deep test at Muskegon when it is finished as it will furnish interesting data on the dip under the Lake as well as on changes in thickness of formations and formations which must reach the surface under the lake.

With best regards,

Very truly yours,

STATE OF IOWA
IOWA GEOLOGICAL SURVEY
DES MOINES
GEORGE F. KAY, DIRECTOR

W. H. NORTON, GEOLOGIST
UNDERGROUND WATERS

MOUNT VERNON,

March 14, 1930

Dr. F. T. Thwaites
Madison, Wisc.

Dear Doctor Thwaites:--

I am very sorry if I failed to give due credit on the Sioux City well. You certainly sent me samples, and while, as I recall, I used my own determinations on them, I should have given credit at least for the samples. I hope that I gave you a general acknowledgement for your Cambrian classifications as well as particular credits for the wells. They were very helpful.

I am sorry to learn of the discontinuance of the field work, but if that leaves you more time for the work on wells it may be a blessing in disguise. The more I have to do with cuttings the more I am convinced of their essential value. Of course when rightly interpreted. Of some of my wells I am not so sure, as Hanson and Oeden, for example, where I may not have allowed enough for save.

Yours very truly

W. H. Norton

March 8, 1930

Prof. W. H. Norton,
Cornell College,
Mt. Vernon, Iowa

Dear Dr. Norton:

I wish to thank you very much for the copy of your recent report on wells in Iowa which I have placed in my private library. I appreciated your mentioning the work I had done on some of the records; the only one where this was forgotten was the well at Sioux City. Possibly I did not send you this information, however. I was the more pleased in that a recent report by another state survey failed not only to mention my publications but even to give any thanks for records and samples which I had sent.

I am continuing my work on well records although my failure to agree with Ulrich on all points has led to my retirement from work on outcrops. This is now being carried on by Edwards and Rasch of the Milwaukee Public Museum.

Very truly yours,

F. T. Thwaites, Geologist

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C286 20 NM=LANSING MICH 4

F T THWAITES=

WISCONSIN GEOLOGICAL SURVEY MADISON WIS=

EXPECT TO BE IN MADISON ON MONDAY OCTOBER SEVENTH AND HOPE

TO BE ABLE TO SEE YOU AT YOUR OFFICE=

R B NEWCOMBE.

Feb. 18, 1930

Miss E. J. Nyberg, Chief Clerk,
State Geological Survey,
Urbana, Illinois

Dear Miss Nyberg:

Reply to yours of the 3rd was delayed by the fact that I have been recovering from a serious operation and just had a setback in the form of a bad sore throat. I am enclosing the expense accounts signed. I thought the oil had been charged for on separate receipts and that this was included in accounts which went through last summer. The grease and labor, however, were not. There was also a slight bill at Centralia for work on the shock absorbers but if you do not find it never mind. My auto record would show what it was.

Very truly yours,

F. T. T.

Geologist

DEPARTMENT OF
REGISTRATION AND EDUCATION
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SPRINGFIELD

STATE OF ILLINOIS
STATE GEOLOGICAL SURVEY DIVISION

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305 CERAMICS BUILDING
UNIVERSITY OF ILLINOIS CAMPUS

February 3, 1930

URBANA

Mr. F. T. Thwaites
Wisconsin Geological Survey
Madison, Wisconsin

Dear Mr. Thwaites:

I am inclosing herewith three expense blanks which I shall appreciate your signing. The company, from whom we purchased the car you used this summer, does not seem disposed to pay this charge and the Survey will, therefore, take care of it for you. It will probably be another month or six weeks before you are reimbursed.

Yours very truly,

E. J. Nyberg
Chief Clerk

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STATE OF MICHIGAN



DEPARTMENT OF CONSERVATION

LANSING

GEORGE R. HOGARTH, DIRECTOR

June 26, 1929

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LAND ECONOMIC SURVEY
EDWARD A. HYER
EDUCATION
HOMER S. MURPHY
POLLUTION

Mr. F. T. Thwaites, Geologist
Geological and Natural History Survey
State of Wisconsin
Madison, Wisconsin

Dear Sir:

Your letter of June 21st addressed to Mr. Osgood, has been referred to me. I was very much interested in your comments concerning formations encountered at Escanaba and Seul Choix Point. Your experience with the rocks of northern and northeastern Wisconsin would certainly be of very much value to us in our attempted correlations of any deep well drilling in the Northern Peninsula of Michigan. I thoroughly appreciate your cooperation and trust that we will be able to reciprocate it at various times.

Yours very truly

R. B. Newcombe

GEOLOGICAL SURVEY DIVISION
R. B. Newcombe
Geologist

RBN:M

March 25, 1930

Mr. R. B. Newcombe,
State Geological Survey,
Lansing, Michigan

Dear Mr. Newcombe:

I wish to thank you for the separate on your paper on "Interpretation of recent discoveries in the salt-bearing rocks of Michigan".

I have not yet had a chance to look over the samples from the deep oil test in Michigan. If they go deeper than yours I will send you those you do not have. In any case I will send you a copy of my blue-print log.

Very truly yours,

F. T. Thwaites, Geologist

Oct. 12, 1934

Dr. R. B. Newcombe,
Geological Survey,
Lansing, Michigan

Dear Dr. Newcombe:

Enclosed please find blueprint log of the Powers well.

I wish to thank you very much for the five foot samples without which the 10 foot samples from the Company would not have sufficed to find the base of the Beckmantown which is marked by colitic chert.

I spent the summer in Marinette, forest, and Florence Counties just across the line from your state. We discovered a serious error in our maps, namely the false correlation of the ledge at Grand Rapids as Platteville. It is really Beckmantown as found by the older geologists on your side of the river.

Sincerely,

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

WM. H. LOUTIT
GRAND HAVEN, CHAIRMAN

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M. J. FOX
IRON MOUNTAIN

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ALPENA

GEORGE C. FOWLER
MANISTIQUE

RAY E. COTTON
SECRETARY

STATE OF MICHIGAN



DEPARTMENT OF CONSERVATION

LANSING

GEORGE R. HOGARTH, DIRECTOR

October 15, 1934

H. R. SAYRE
FIELD ADMINISTRATION
GENEVIEVE MCCANN
CHIEF CLERK
P. J. HOFFMASTER
PARKS
MARCUS SCHAAF
FORESTRY
R. A. SMITH
GEOLOGY
S. G. FONTANNA
LANDS
FRED A. WESTERMAN
FISH & FISHERIES
H. D. RUHL
GAME
C. A. PAQUIN
EDUCATION
P. S. LOVEJOY
LAND USE PLANNING

Prof. F. T. Thwaites, in charge
of well records
Wisconsin Geological Survey
Madison, Wisconsin

Dear Prof. Thwaites:

This will acknowledge your letter of
October 12th to Dr. Newcombe.

Dr. Newcombe will be away from the
office for about two weeks on his vacation and
your letter will be called to his attention
when he returns.

Yours very truly

GEOLOGICAL SURVEY DIVISION

Per
Helma McReavy

M

October 17, 1934

Nekoosa-Edwards Paper Company

Port Edwards, Wisconsin

Attention: F. H. Rosebush.

Dear Sir:

I wish to bring my class to visit the rock exposures at the south end of the Nekoosa dam on Saturday, October 27. A renewal of your kind permission to make this visit at our own risk will be greatly appreciated.

Very truly yours,

FPT:N

F. T. Thwaites

Nekoosa-Edwards Paper Company.

MAKERS OF
PAPER, PULP and TIMBER PRODUCTS.

PORT EDWARDS, WISCONSIN,
October 9th, 1933.

Mr. F. T. Thwaites
Lecturer in Geology
University of Wisconsin
Madison, Wisconsin

Dear Sir:

We have your letter of October 14th asking permission to inspect the rock exposures at the south end of the dam opposite the Nekoosa plant.

We shall be very glad to extend this privilege to you under the circumstances expressed in your letter.

Very truly yours,

NEKOOSA EDWARDS PAPER COMPANY

F. H. Rosebush
F. H. Rosebush *FHR.*

Department of Industrial Relations

FHR:GK

Nekoosa-Edwards Paper Company.

PAPER, PULP and TIMBER PRODUCTS.
MAKERS OF

PORT EDWARDS, WISCONSIN,
October 19th, 1934

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

Dear Sir:

We shall be glad to allow you permission to bring your class to visit the rock exposures at the south end of the Nekoosa dam on Saturday, October 27th. You may procure a permit from the Nekoosa Clockhouse on that day.

Yours very truly,

NEKOOSA EDWARDS PAPER COMPANY

F. H. Rosebush
216.

F. H. Rosebush
Department of Industrial Relations

FHR:GK
cc Frank Boles
Nek. Clockhouse

STATE OF WISCONSIN
CONSERVATION DEPARTMENT

Rhineland, Wis.

September 27, 1934.

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

Dear Mr. Thwaites:

Can you inform me where you have the long soil augers such as you use in the field work in Glacial Geology made up? Also what the cost of a 20 foot auger would be?

Address reply in my name, Conservation Commission, Madison. I shall appreciate your efforts in this matter.

Very truly yours,

G.T.Owen

WM. H. LOUTIT
GRAND HAVEN, CHAIRMAN

HAROLD TITUS
TRAVERSE CITY

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STATE OF MICHIGAN



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FISH & FISHERIES

H. D. RUHL
GAME

L. R. SCHOENMANN
LAND ECONOMIC SURVEY

C. A. PAQUIN
EDUCATION

April 3, 1934

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

Dear Prof. Thwaites:

Your reprint of the article on
"Well Logs in the Northern Peninsula of Michigan
showing the Cambrian Section," printed by the Michigan
Academy of Science last year, was received sometime
ago. I very much appreciate your remembering me with
a copy of this paper which throws considerable light
on some of our correlation problems in northern Michigan.

Yours very truly

GEOLOGICAL SURVEY DIVISION
Petroleum Geologist

REN:M

March 1, 1934

Mr. G. F. Mairke, Editor,
National Well Drillers' Digest,
Moose Lake, Minnesota

Dear Sir:

Yours of Feb. 12 to the Department of Geology was turned over to me for reply.

I think that your idea of filing of logs of wells is an excellent idea. A few drillers may object that they are revealing information which they want to keep from competitors. However, the way I handle this is to keep confidential all records of private wells unless the owner or driller specifically permits their distribution to other drillers than the one who made the well. Records of publicly owned wells are given out to all drillers who ask for them. Of course, circumstances have to govern each case. Only general information such as elevation of rock surface, etc. is published.

Many drillers already have systems of keeping their own logs. The best one I have seen is about as follows:

Kind of material	Color	Thickness, feet	Depth, feet
------------------	-------	-----------------	-------------

A separate table below records kind, size, and length of pipe used, depth to water, and the results of any tests for capacity.

The above system is adequate for shallow wells either in drift or in rock but does not cover the needs for deep rock wells. We encourage the saving of samples from them and send out bags and tags for that purpose. In the days of prosperity we paid drillers 5 cents a sample if they sent in reasonably complete sets in good order. Many drillers now feel that the benefit they get from the detailed logs thus made out offset many times the cost of saving samples so this has now been discontinued. After examination of the samples I make up a blueprint log on scale of one inch to 80 feet which includes information on pipe, water level, and capacity. Every now and then I make up geological cross sections which put together the results of several wells. Some printed reports have also been prepared but these contain no detailed logs of individual wells, only general information.

I have not sought for samples from shallow wells or wells in drift only but have so far not organized any system for collecting logs. It was hoped that the filing of logs with the State Board of Health would be required under a well drillers' license law but as such has not yet been passed the matter still rests.

If we can cooperate with you in any way will be glad to do so.

Very truly yours,

F. T. Thwaites, in charge of well records,
Wisconsin Geological Survey

NATIONAL RESEARCH COUNCIL

National Research Fellowships
in the
Biological Sciences
Confidential Report on Candidate for Fellowship

Name of Candidate: Leonard R. Wilson

Report requested of: Prof. F. T. Thwaites, Dept. of Geology, Univ. of Wisconsin

Your name has been given as a reference for the above name applicant for a National Research Fellowship in the Biological Sciences.

The Fellowship Board desires information concerning, inter alia, the character and personality of the applicant, the applicant's scholarship and capacity for independent research, the probability of the candidate becoming in due time a constructive and creative leader in his special field and the merits of the proposed program, a brief statement of which is enclosed. The Board wishes to appoint only young men and women who show unusual promise of becoming leaders in research in their fields. We would appreciate a full and frank statement from you on the applicant.

May I say that the Board feels that in making these awards of Fellowships it is administering a public trust and you can be of assistance to the Board in the discharge of this public duty only if you make your reply in the same spirit.

Any reply will be held in the strictest confidence.

William J. Robbins
Chairman CD

Report

Signed

Position

Address

Please return to the Secretary, Board of National Research Fellowships in the Biological Sciences, 5101 Constitution Avenue, Washington, D. C.

NATIONAL RESEARCH COUNCIL
National Research Fellowships
in the
Biological Sciences
Confidential Report on Candidate for Fellowship

Name of Candidate: Leonard R. Wilson

Report requested of: Prof. F. T. Twissler, Dept. of Geology, Univ. of Wisconsin

Your name has been given as a reference for the above name applicant for a National Research Fellowship in the Biological Sciences. The Fellowship Board desires information concerning inter alia, the character and personality of the applicant, the applicant's scholarship and capacity for independent research, the probability of the candidate becoming in due time a constructive and creative leader in his special field and the merits of the proposed program, a brief statement of which is enclosed. The Board wishes to appoint only young men and women who show unusual promise of becoming leaders in research in their fields. We would appreciate a full and frank statement from you on the applicant.

May I say that the Board feels that in making these awards of Fellowships it is administering a public trust and you can be of assistance to the Board in the discharge of this public duty only if you make your reply in the same spirit.

Any reply will be held in the strictest confidence.

William F. Twissler
Chairman

Report

Signed _____

Position _____

Address _____

Please return to the Secretary, Board of National Research Fellowships in the Biological Sciences, 2101 Constitution Avenue, Washington, D. C.

PROPOSED RESEARCH

Since the results of the investigation of the Two Creeks Forest Bed were published (1932), considerable material has been collected on several trips to the forest bed. This material has been stored in hope that at some future date it might be thoroughly examined. In the spring of 1933 an examination was made of the cliffs north of Two Creeks, Wisconsin, in hope that other exposures would be found of the same forest bed. A new exposure was discovered and found to contain a greater variety of paleoecological conditions than the exposure already studied. Considerable peat and wood material was collected at that time and brought to Madison for storage. Another trip to this exposure is planned for May 1934 with a glacial geology class under the supervision of F. T. Thwaites. At that time more material will be collected and the exposure will be mapped and studied stratigraphically.

The usual paleoecological methods will be used in studying the peat (*Science* 73: 399-401. 1931); the logs will be sectioned and studied for age and ring growth, the fossils requiring attention from specialists will be submitted to the proper scientists, and the geological questions considered in cooperation with recognized authorities on Pleistocene geology.

Feb. 10, 1934

Dr. William J. Robbins,
Board of Fellowships in the Biological Sciences,
National Research Council,
Washington, D. C.

Dear Sir:

In reply to your question about Mr. L. R. Wilson who has applied for a fellowship I can say that his investigation of the organic remains of the Forest Bed between the Menkate and Cary tills of the Wisconsin stage of glaciation was undertaken at my suggestion. His results make this occurrence one of the very few in North America which have received adequate study. Last summer the locality was visited by Excursion G-3 of the International Geological Congress with Mr. Wilson as guide. It was my impression that all the members of the excursion were most favorably impressed by the work of Mr. Wilson and would be glad to see it continued over a wider field. I might add that the excursion included several of the best known students of the Pleistocene such as M. M. Leighton and Ernst Artyevs. I think that everyone was confident of the ability of Mr. Wilson to carry the work on. Unfortunately, there seems little immediate prospect of detailed explorations which might uncover other exposures of the same formation but Mr. Wilson has found at least one other locality which differs in many respects from that first studied. The results should throw much more light on the climatic conditions which prevailed during an interval between substages of glaciation as compared to conditions during intervals between stages. Mr. Wilson has also studied all the organic remains that we could secure from the Pleistocene of Wisconsin and Illinois.

I am confident of the ability of Mr. Wilson to carry on the investigation and feel no hesitation in recommending him for a fellowship.

Very truly yours,

F. T. Thwaites, Lecturer in Geology

NATIONAL WELL DRILLERS' DIGEST

The Monthly Publication of the Minnesota Well Drilling Engineers

MOOSE LAKE, MINNESOTA

March fifth 1934.



Devoted
to the
best interests
of
well drillers
in all
sections of the
nation.

Non-partisan
in all
respects.

Our
sole object
being
to assist
well drillers
in better
management
and
organization,
thereby
increasing
the
efficiency
of
their
business.



Department of Geology,
University of Wisconsin,
Madison, Wis.

Att: Mr. Thwaites.

Dear Sir:

Thanks for yours of the 1st.

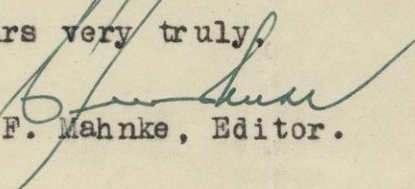
Will you department supply us with articles
on the water situation of your state and an article on
the geology of your state for our magazine.

We will be glad to publish it and I
know it would be of interest to our readers.

Will write you further about the well
drilling log.

If you can supply us with an article for our
March issue would appreciate it very much. Any time
up to the 25th., will be soon enough.

Yours very truly,


C. F. Mahnke, Editor.

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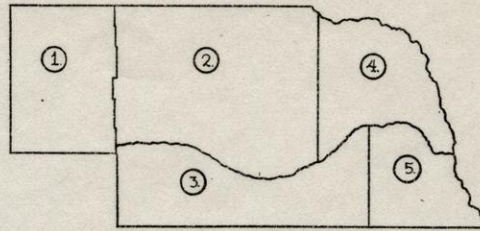
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G. E. CONDRA,
DIRECTOR OF STATE GEOLOGICAL SURVEY

Nebraska Well Drillers' Association

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- No. 4. A. A. HORN, PAPILLION
- No. 5. S. C. MOOK, WALTON



Members and Friends of Nebraska Well Drillers Association:

Spring is just around the corner -- time for the Annual Convention of the Nebraska Well Driller's Association. March 11 and 12 have been selected as the dates; the place is Nebraska Hall, University of Nebraska, Lincoln. The crowd, we hope, will include all of our members and all others who are interested in our activities.

A program has been arranged which will be in keeping with the demands of the times. Well irrigation will be featured. The chemical nature of the groundwater will be discussed. New bulletins of interest to well drillers will be distributed. There will be an opportunity to bring your own problems before the meeting. These are only a few of the high lights of the program.

The latest drilling machinery and well equipment will be on display. There will be the usual excellent Dutch Lunch, through the courtesy of the Jobbers. Our Governor, Robert LeRoy Cochran, will be with us again as well as a number of our State Senators.

Our Secretary, Mr. Herbert Waite, is out of the state at the present time and Dr. Condra has asked me to act as your secretary until the next election.

President Cole and Dr. Condra join me in extending a hearty invitation to be present on March 11 and 12. Pass the invitation on to those who have not been with us before.

We are enclosing a return postcard for your convenience. Let us know that you have received our letter and that you expect to be with us. If you can't make it let us hear from you anyway.

Remember March 11 and 12!!!

All set for a good, profitable time!

Sincerely,

E. C. Reed
Acting Secretary
Nebraska Well Drillers Assoc.

NETHERLAND PLAZA

CINCINNATI, OHIO

December 7, 1936



HOTELS
DIRECTED BY
NATIONAL HOTEL
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Ralph Hitz
President

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MINNEAPOLIS

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DAYTON

CONGRESS
CHICAGO

Mr. F. T. Thwaites,
R. F. D. 4,
Madison, Wis.

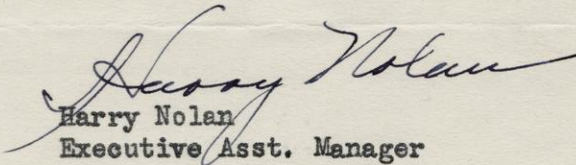
Dear Mr. Thwaites:-

We are in receipt of your letter of the 5th and wish to advise that due to the tremendous demand for minimum rate single rooms our supply has exhausted during the Geological Convention. The next best rate we can offer you is \$4.00 per day for single rooms.

We have taken the liberty of setting aside one of our single rooms rated \$4.00 per day for your arrival, December 28th.

Looking forward with pleasure of having you with us, we are

Yours very truly,


Harry Nolan
Executive Asst. Manager



HN/LW

Dec. 23, 1936

Netherland Plaza Hotel,
Cincinnati, Ohio

Gentlemen:

In reply to yours of the 8th the reservation of a room at \$4.00 per day is satisfactory. I expect to arrive during the evening of December 28.

Very truly yours,

December 5, 1936

Netherland Plaza Hotel,
Fifth and Race Sts.,
Cincinnati, Ohio

Gentlemen:

I expect to attend the meetings of the Geological Society of America arriving the evening of December 28. I wish you to reserve a room for me at the rate of \$3.00 per day. Enclosed is stamped envelope for reply.

Very truly yours,

Northwestern Savings Building & Loan Association

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June 30, 1936

Dear Shareholder:

This is to advise you that the Northwestern has declared a dividend on monthly savings, as of June 30, 1936, at the annual rate of 5%. This is the 92nd consecutive semi-annual dividend declared. We also wish to remind you that your account up to \$5000.00 is insured in the Federal Savings & Loan Insurance Corporation, Washington, D. C.

Investors' funds are invested only in first mortgages on Madison homes, in accordance with the strict laws of the State Banking Department. Speculative securities have no place in our investments. The Northwestern has never been allowed to invest in stocks of any kind. Your certificate, therefore, represents the best and safest investment one can make.

All deposits made in the Northwestern Savings Building & Loan Association are legal investments for Trust funds in the State of Wisconsin.

Since insuring our accounts, the assets have risen to the highest figure in the history of the Association, showing conclusively the public's interest in insured deposits.

Will you mail or bring in your book so that we can credit your account with the proper dividends.

Sincerely yours,

NORTHWESTERN SAVINGS BUILDING & LOAN ASSN.

The New York Times

TIMES SQUARE, NEW YORK, N. Y.
LACKAWANNA 4-1000

CIRCULATION DEPARTMENT

March 10th, 1939.

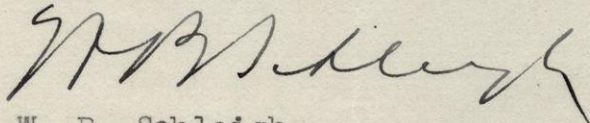
Mr. F. T. Thwaites
41 Roby Road
Madison, Wisconsin.

Dear Mr. Thwaites:

We are in receipt of your post card of March 8th and regret that you received a torn copy of the World's Fair Supplement of March 5th.

Another copy of this supplement is being mailed today and we trust that it will reach you satisfactorily.

Yours very truly,



W. B. Schleigh
Circulation Manager

WBS/RO

Dept. of Geology
University of Chicago
May 2, 1939

Dear Dr. Thwaites:

At the suggestion of Dr. J Harlen Bretz I am writing you for advice on a glacio-physiographic problem which has recently held my interest.

Basically, the problem is the explanation of the irregular topography of the Lake Michigan basin, as contoured from soundings of the Lake Survey charts. My present topographic interpretation suggests many sharp breaks in slope, and several long valley-like features. It seems unlikely that all these features are attributable to erratic glacial deposition; perhaps submerged escarpments and incompletely obliterated stream valleys are present. With the assumption that glaciation accentuated pre-existent valleys, but did not reverse their slopes, I examined the geological publications of Lake-bordering States for data on the pre-glacial surface. The most recent data found for Indiana and the southern peninsula of Michigan was published in 1931. Nothing was found which dealt with the drift thicknesses of the northern peninsula. For Wisconsin my only specific reference is Alden's Professional Paper of 1918. There must be much subsequent information available. I would greatly appreciate any suggestions you can make concerning the most feasible manner of obtaining such data, with a minimum of imposition upon the sources.

During this first year of graduate study I have read rather extensively on glacial geology. After "wallowing" thru many disjointed portrayals of glaciated areas, I was pleased to find all of them so conveniently synthesized in the map in your Outline.

Very sincerely yours,

Paul W. Heltstrom

May 5, 1939

Mr. Paul W. Hottelstrom,
Dept. of Geology,
Rosenwald Hall,
University of Chicago,
Chicago, Illinois

Dear Mr. Hottelstrom:

In reply to yours of May 2 I am now working on the problem of the physiography of the bottoms of the upper Great Lakes. I have drawn 100 foot contours on the basis of the latest general charts supplemented in places by detailed charts which show more soundings. My cross sections based on logs of Michigan oil tests indicate very clearly that the lake bottom is dominantly controlled by bed rock and not by drift deposition. I can trace the overlap of the Traverse across the lake to Sheboygan. I think one minor scarp east of that line may be due to a limestone in the Goldwater. You probably know that the Antrim has been discovered at Milwaukee.

I have not found any features which resemble river valleys except that I independently discovered the submerged river valley recently described by Stanley in the Straits of Mackinac. The deep spot in Lake Michigan is clearly on the Salina-Monroe outcrop as long ago suggested by one of the Michigan geologists. The twin escarpments of the Dundee and Traverse are easily distinguished in the northern part of Lake Michigan.

With regard to topography of bed rock surface we have never made any map north of Alden's. We have a lot of scattering data but not enough for a map. It is now so difficult to get reliable information on old wells that such an undertaking seems hopeless. I have nowhere found much over 200 feet of drift along the lakeshore. The Sturgeon Bay valley was test drilled for the bridge and they found considerably less than 100 feet of drift. It would be quite a job to assemble all the records we have and I doubt that they would help much. I am now confident that the very deep drift localities at Forest Junction, Black Creek, and Gillett are actual holes due to glacial erosion. I am also convinced that much of the depth of the Great Lake basins is due to the same process which went farthest where salt and gypsum occurs in the bed rock.

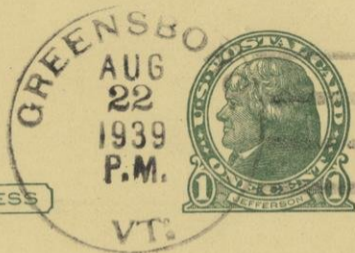
Data for northern Michigan is much less than in Wisconsin. A few years ago I got all the Michigan Survey logs and they were very few.

I am glad you like the Outline. If there is anything else I can do please advise me.

Very truly yours,

Earle W. North
c/o Wallace Stegner
Greensboro Bend, Vt.

THIS SIDE OF CARD IS FOR ADDRESS



Mr. F. T. Thwaites

Route 4

Madison, Wisconsin

41 Ruby Pk

22 August 1939

Dear Mr. Thwaites,

I'm planning to be back in Madison by the 15th of September and will get started on that report as soon as I've seen you. If you've thought of something during the summer on which you'd rather have me work than the California Coast Ranges, I'll be glad to take the new assignment.

Had a very interesting trip here traveling through the upper Ohio Valley, Blue Ridge, Hudson River, Coastal Province in Mass. and Maine, then the White Mts. Have been without radio, telephone, electricity, newspapers all summer. The woods are even better than I expected. But there was a killing frost (locally) on July 12, and spring has merged with fall---no summer. With best wishes to you and your family, I am *East* Sincerely, *W. North*



The National Geographic Society

Through the Board of Trustees at
a meeting held in Washington District of
Columbia in the United States of America
has elected

F. T. THWAITES

OF

MADISON, WISCONSIN

a member of that Society

In Witness Whereof, this certificate has been
signed and presented

Secretary

JUNE 14, 1939



Privileges and Duties of Members of the National Geographic Society

YOUR election to the National Geographic Society, attested in your Certificate of Membership, admits you to the greatest scientific and educational organization in the world. The sole objects of The Society are to increase geographic knowledge and to diffuse it in popular form among the people.

The Society has a membership of intelligent, progressive men and women who with their families profit greatly from the delightful and valuable information it diffuses in text and picture.

Instead of an organization supported by a few philanthropically inclined millionaires, it is a matter of pride that its work is supported by the small annual dues of hundreds of thousands of people, eager to take part in such an educational project. It has no political or other entanglements, does not request donations, and is responsible solely to its membership.

The individual annual dues of its members, small sums in themselves but important in the aggregate, finance The Society's activities for the increase of geographic knowledge and its diffusion among the people. Each member, therefore, has an equal share and pride in The Society's remarkable achievements.

To familiarize yourself with The Society's more important accomplishments, you are requested to read carefully the résumé published on the inside cover of the NATIONAL GEOGRAPHIC MAGAZINE.

Origin of The Society The National Geographic Society was formed in 1888 by a small group of technical geographers, who, to exchange their carefully compiled and scientifically valuable information, inaugurated a learned journal which was intended for the technician and consequently was unintelligible to laymen.

Discovering, later on, the deep and well-nigh universal interest of mankind in humanized geography, the founders determined to admit, on nomination of members, or upon invitation by the Membership Committee, men and women of good standing in their communities for whose interest in geography the nominator could vouch.

The highly technical journal of The Society, thereupon, was completely transformed, through publication of popular articles and wealth of photographs, full-color plates and maps, into what has become the most sought-after of illustrated publications for young and old and a treasured educational agency in many discriminating homes and progressive schools.

As a result of this wise reconsideration of values, The Society within 51 years has grown from a handful to an enlightened membership covering every nation and region of the world. Among them will be found many men and women distinguished for local and national service to science, industry, education, and civic welfare.

The Society has never deviated from its original altruistic purposes and educational policies. With growth of membership, however, it has been enabled, without soliciting donations, greatly to extend its research and educational activities and to make the NATIONAL GEOGRAPHIC MAGAZINE one of the noteworthy publications of modern times.

An Altruistic Organization The National Geographic Society is wholly altruistic. No individual or group has any financial interest whatever in its income, whether from dues, sales of publications, or other sources. Every dollar is invested in supporting The Society's explorations and research work, in improving The Magazine and The Society's other publications, and in maintaining its vast educational extension activities through the schools and the press. All income is administered in the interest of the membership by a Board of Trustees of international reputation. The names of these twenty-four trustees and of The Society's officers and principal executives are given on the cover of The Magazine.

The Geographic Magazine The NATIONAL GEOGRAPHIC MAGAZINE is The Society's chief agency for the diffusion of its information among its members. The Society makes no effort to extend its sales on news stands or otherwise to casual readers. It endeavors to restrict copies to those who will appreciate and benefit from the material, and who will make its information available to members of their households, friends, business associates, local schools, clubs, and other organizations.

The twelve copies of The Magazine are supplied each year to each member without additional charge. To defray the cost of producing the member's personal copies and to meet the postal laws, a percentage of each annual membership fee is designated as a subscription fee to The Magazine. The remainder of the dues is devoted to the general educational purposes of The Society.

Membership, therefore, is in no sense to be confused with subscription to a commercially published periodical.

Those who wish The Magazine, but who are not members of The Society, are permitted to obtain the publication. Such subscribers, however, pay for The Magazine more than the annual membership fee.

Other Publications The Society also publishes and makes available, only through its headquarters, valuable and richly illustrated volumes: "Book of Birds," "Hunting Wild Life with Camera and Flashlight," "Our Insect Friends and Foes and Spiders," "Book of Wild Flowers," "Book of Fishes," "Wild Animals of North America," "Horses of the World," "Cattle of the World," "Book of Dogs," "Katmai—the Valley of Ten Thousand Smokes," and its unique Pictorial Geography. In addition, it issues many thoroughly modern maps and a series of exquisite geographic scenes and nature subjects suitable for mural decoration. All income from these publications is reinvested in The Society's projects.

Because first cost of plates and material is borne by The Magazine, these *de luxe* publications, above described, are made available at a low price to members who can purchase them for their own use or as

gifts to friends, schools, clubs, etc. These publications are obtainable only from the Washington headquarters. Descriptive illustrated circulars are supplied on request of members.

Annual Dues—How Determined The annual dues of The Society are fixed at the lowest possible figure which will enable The Society to produce the member's own copies of The Magazine and leave a balance necessary to support its scientific and educational activities.

The dues of the members, supplemented by all other income from The Magazine and from sales of books and maps, have, by careful business management, enabled The Society to support its ever-growing activities without appeal for donations.

Membership Dues—When Payable Membership fees in The Society cover the calendar year from January 1 to December 31. All membership fees, therefore, are due and payable in advance for the following year on January 1.

For example, members paying their dues and entering The Society, say, in June, 1939, would be recorded as 1939 members. They would receive at once the six back numbers of the GEOGRAPHIC MAGAZINE for 1939 and then would receive, as issued, the remaining six numbers of that year. Their dues for the second year, or 1940, would become payable on January 1, 1940. *Dues should be paid direct to the Treasurer of The Society, who alone is authorized to collect them. Dues transmitted through subscription agents cannot be accepted.*

The Society and its Magazine employ no solicitors or representatives at large. No one is authorized to collect membership fees or contributions. When a member of the Editorial Staff is sent out he is equipped with credentials making specific requests for the data desired.

As is the practice in all such organizations, members who do not resign are considered as desiring to maintain their membership for the next year. The Society, therefore, after notification that dues are payable, continues, in default of their instructions to the contrary, to retain them on the rolls for a marginal

period. Those made members through gift of friends are, of course, regular members. Resignations, as well as changes of address, should be sent direct to The Society and not through any other agency.

Members who, after notice, fail to remit their dues, are first suspended and, finally, after special notice, are dropped from the rolls of The Society and recorded as being in arrears to the organization.

Members who delay resigning until they have received several extra copies of The Magazine are naturally expected to restore their names to good standing by payment of dues or, at least, to clear their financial record with The Society by payment for the additional magazines they have received.

Inasmuch as a member's failure to remit dues promptly involves additional cost for correspondence, which must be taken from the sums available for The Society's educational work, all members are urged to give prompt attention to such notices.

A Life Membership may be secured upon payment of \$100.

To Change Your Address As the hundreds of thousands of magazine wrappers for each issue of THE GEOGRAPHIC must be addressed thirty days in advance, *The Society must have a full month's notice of change of address, giving both the old and the new address.* For example, a request to change the address of the May number must be received by April 1. Members changing address on shorter notice are requested to notify The Society and also to leave with their local postmasters postage for forwarding the coming number of The Magazine, as otherwise the post office will not forward it. The Society cannot undertake to replace copies that go astray where members fail to give ample notice to The Society and neglect to make forwarding arrangements with their postmasters.

Your Right to Nominate Members As The Society has no endowment and does not solicit gifts or financial donations, it depends for support and extension of its activities wholly upon maintenance of and growth in membership.

As it employs no solicitors and does not advertise to the public for members, The Society relies for expansion

upon the co-operation of members in nominating worthy and interested friends and in encouraging them to enter The Society.

You, as a member in good standing, are privileged, of course, to nominate as many desirable friends as you wish. You may use either the regular nomination blanks or transmit your nominations by letters to the Secretary of the National Geographic Society, 16th and M Streets, N. W., Washington, D. C.

On receipt of such nominations, the Membership Committee passes upon them. The Secretary of The Society then apprises your nominees of your courtesy, informs them of the purposes of The Society and the advantages of membership, and invites them to apply for election.

Nomination imposes no financial responsibility upon the nominator. *All nominations are carefully checked against membership records to prevent duplication.*

Those making a gift of membership are notified if the recipient is already receiving The Magazine. The fee is then returned or applied as the sender directs.

Brief inquiry will establish that many of your associates desire membership, but hesitate to ask you directly to nominate them. Many members present memberships to friends as valuable and graceful gifts, which are gratefully accepted and appreciated.

GILBERT GROSVENOR,
President.

NATIONAL GEOGRAPHIC SOCIETY

Administration Building
16TH AND M STS., N. W., WASHINGTON, D. C.

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National Geographic Society

WASHINGTON, D. C.

It is my pleasant duty to notify you that the Board of Trustees, upon recommendation of the Membership Committee, has approved your application for admission to the National Geographic Society, as attested by the enclosed Certificate of Membership.

Your membership, as the extracts from the By-Laws explain, will date from January 1, 1939, and will run for the calendar year, bringing to you all twelve issues of THE NATIONAL GEOGRAPHIC MAGAZINE for 1939. The remittance received, therefore, has paid your dues in full through December 31, 1939.

May I suggest a careful reading of the enclosure, which explains your right to nominate others for membership and makes clear your other privileges as a member? Permit me, also, to express the hope and belief that your connection with The Society will prove a source of great benefit and unalloyed pleasure for all in your household.

GEORGE W. HUTCHISON, *Secretary.*

XXXXXXX 41 Roby Road,

Dec. 12, 1939

Hotel Nicollet,
Minneapolis, Minnesota

Attention Mr. Morgan Nichols

Gentlemen:

May I change my reservation of Oct. 16
for a room during the meetings of the Geological Society
of America to begin on the evening of December 27
instead of Dec. 28 as I find it best to come up on a
daylight train? If you cannot arrange this please advise
me.

Very truly yours,

Dear Professor Thwaites,

April 5, 1940.

Many thanks for the batch

of reprints. "The Origin and Significance of Pitted
Outwash" and "Field Photography for Geologists"
are both well known to me. The glazed paper is read
by my students in physiography.

Kind regards

Sincerely yours
Robert. Nichols

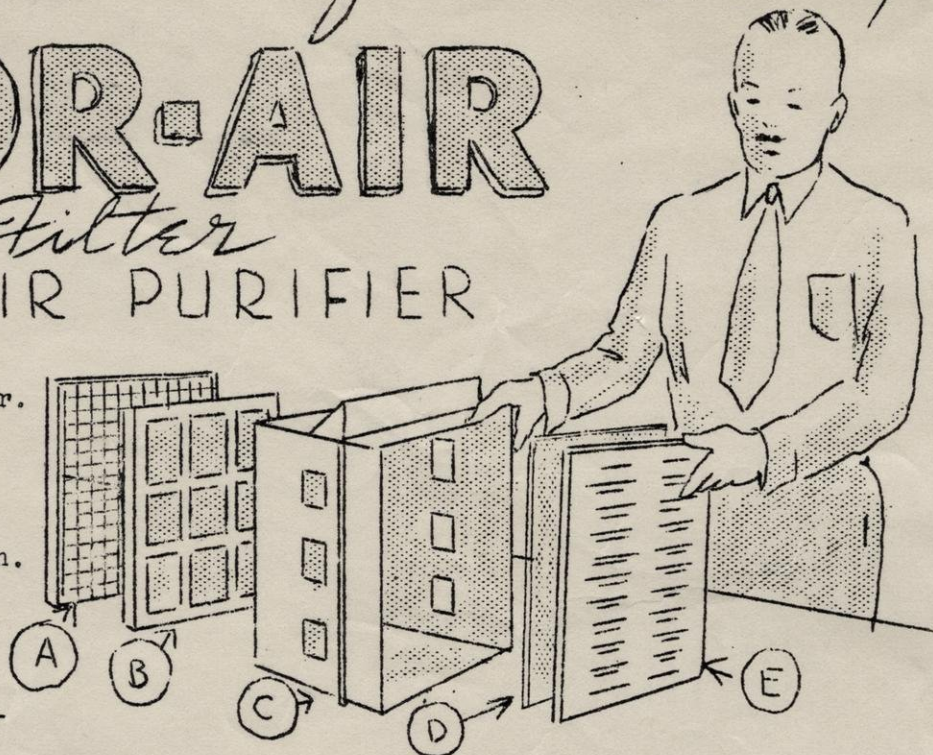
Instructions for Installing

NOR-AIR

Filter

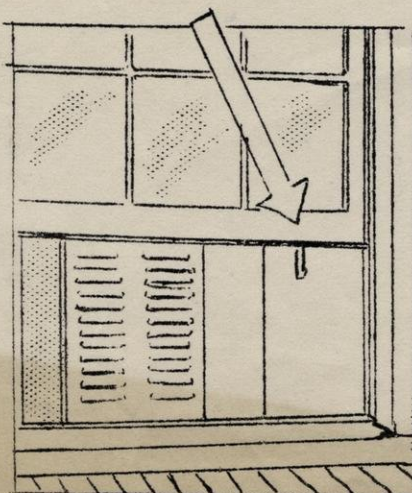
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- A-Metal Grill to Protect Room-Side Filter.
- B-Room-Side Filter in Grilled Cardboard Casing.
- C-Fibre Casing that Holds Filters and Fan.
- D-Outside Filter Shown Installed in Correct Position.
- E-Outside Metal Grill with Weather-Protecting Louvres.

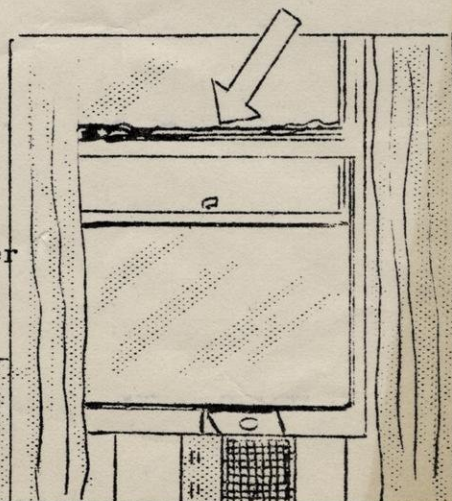


IT'S SIMPLE TO INSTALL NOR-AIR THIS EASY WAY

- 1st - Remove filters B and D from metal covers A and E.
- 2nd - Open out fiber casing unit C as shown above keeping triangular window seal and label on top.
- 3rd - Insert filter D in opening of casing nearest metal sealing channels (be sure that fiber flanges lap over edge of casing).
- 4th - Lock filter in place by placing metal louvred grille over filter (see that metal flanges fit outside of fiber casing and louvres face down).
- 5th - Place unit in sill of open window with louvred grille facing out, fill in both sides with flat fiber sheets fitting them into metal slots on unit and to window casing. In wide windows allow sheets to over-lap fastening lapped section with metal clips at top and bottom of each lap. For narrow windows fiber sheets may be cut to size by scoring with a sharp knife and breaking.
- 6th - Close window tightly against top of fiber board and outside the triangular seal on the unit.
- 7th - Place 10" household electric fan in the unit. Fan must face the room (a smaller fan may be used but less filtered air will be supplied).
- 8th - Be sure that fan operates and does not oscillate. Run cord out of holes in casing side.
- 9th - Insert filter B in the casing C in front of fan and lock in place with metal grille A.
- 10th - Seal the opening between the top of the raised window and the glass of the upper window with the felt strip provided. This may be tucked in or tacked in place.



LEFT: NOR-AIR in window with handy metal clasps holding fibre board in place. Seals space on either side of filter unit. RIGHT: Arrow points to felt strip tacked along top edge of lower sash and fitted against glass in upper sash to seal window.



NORRIS INDUSTRIES INC.
1015 E WASHINGTON AVE
MADISON WISCONSIN

~~XXXXXXXX~~ 41 Roby Road,

AUG. 20, 1940

The New York Times, Circulation Dept.,
Times Square,
New York, New York

Gentlemen:

Enclosed please find check for \$3.00 for which
please send the Sunday edition for six months to

Carl F. Mueller,

State Hospital,

Mendota, Wisconsin

Very truly yours,

EXECUTIVE OFFICE OF THE PRESIDENT
NATIONAL RESOURCES PLANNING BOARD
NATIONAL ROSTER OF SCIENTIFIC AND SPECIALIZED PERSONNEL
WASHINGTON, D. C.

ADMINISTERED BY
National Resources Planning Board
United States Civil Service Commission
Leonard Carmichael, Director
James C. O'Brien, Executive Officer

COOPERATING AGENCIES
American Council on Education
American Council of Learned Societies
National Research Council
Social Science Research Council

Dear Sir or Madam:

The United States Government is engaged in developing a Roster of Scientific and Specialized Personnel for the purpose of providing a comprehensive list of highly trained Americans possessing special abilities in their respective fields.

The information necessary for this purpose will be secured from returns to questionnaires similar to the one enclosed. The Roster is jointly administered by the National Resources Planning Board and the United States Civil Service Commission. Representatives of the National Research Council, the Social Science Research Council, the American Council of Learned Societies, the American Council on Education, and other national societies are members of its advisory committee. The Executive Officer of the project is Mr. James C. O'Brien of the staff of the United States Civil Service Commission.

Therefore, will you please fill out the enclosed questionnaire as completely as possible and return it at once to the office of the National Roster of Scientific and Specialized Personnel, Washington, D. C. An addressed return envelope requiring no postage is provided.

The filling in and mailing of this questionnaire is, of course, not to be considered as an application for a position. If, for any reason, the Technical Check List does not seem to apply to you, it will be appreciated if you will return it together with a note indicating the general field in which you are competent. It is possible that some individuals may receive more than one questionnaire. If this is true in your case, please return the unnecessary copies with a notation to the effect that they are duplicates. It is requested that the special directions for the completion of the questionnaire be read with care.

Yours very truly,

Leonard Carmichael

Leonard Carmichael,
Director.

M I N U T E S

REGULAR UNIVERSITY FACULTY MEETING, MONDAY, JANUARY 12, 1942

ROOM 101 - LAW BUILDING

Meeting called to order at 4:30 o'clock by President Dykstra.

56 present.

The President expressed his belief in the readiness and willingness of the members of the Faculty to make an all-out effort to meet the new tasks created by the war emergency. He said that with new courses, and the possibility of loss of faculty and students, we must avoid waste, and simplify the teaching processes - not permitting, however, short time responsibility to interfere with long time plans. Education must not be sacrificed to win the war - and University committees must go on with their studies. He spoke of the proposed summer quarter, and the possibility of the schedule for next year being on the quarter basis. He asked the faculty to be as saving as possible of the time of the students. We must keep our own business in shape, attuned to the great social changes which are pending.

The Library makes the following announcement:

Due to the shortening of the period between semesters, lists of books to be reserved for the Second Semester should reach the Library very soon so that as much work as possible may be done in advance. The prompt and early receipt of lists will help the library materially in being ready to serve students at the opening of the semester.

A special committee consisting of Professor G. H. Doane, Chairman, Professor Eloise Gerry, and Dean G. C. Sellery presented a memorial resolution on the death of Anna A. Nunns, Assistant Superintendent of the State Historical Society. The resolution was read by Professor Doane, and was unanimously adopted by a rising vote, as follows:

ANNIE AMELIA NUNNS (1868-1942)

Annie Amelia Nunns, daughter of Henry and Mary (Ennever) Nunns, was born on Long Island, September 3, 1868; she died in Madison, January 5, 1942.

When a child of nine her parents settled in Madison, where she was to spend her life and find her life-work. She attended the University of Wisconsin and graduated Bachelor of Arts in 1889. In October of that year the officials of the Wisconsin State Historical Society, then housed in the Capitol, decided that they must add another member to its small staff in order that the library, which had been built up under Dr.

Lyman Draper, should be open longer hours and especially Saturday afternoons for the faculty and students of the University. Annie Nunns, fresh from a brilliant course in college, was selected as the new Library Attendant, and began her work on October 28, 1889, little realizing that she would spend over half a century in the service of the Society and its patrons, a career which was to be terminated only by her death.

Reuben Gold Thwaites, able publicist and editor, was then superintendent of the Society. He quickly recognized the ability of his new assistant, and soon Miss Nunns was assisting him in his editorial work. She spent long hours over the great set of the JESUIT RELATIONS (73 vols., 1896-1901) and worked with him on his edition of EARLY WESTERN TRAVELS (32 vols., 1904-1907) as well as many of the publications and proceedings of the Society. Many a night the lights in the Society's rooms burned late while the editor and his assistant labored to perfect their work. And when the task was finished the entire staff would gather for a party to celebrate the event and make merry over its accomplishment. Annie Nunn's keen wit often found expression in the repartee which sparkled on those happy and hilarious occasions.

Later Miss Nunns became executive assistant to Dr. Thwaites and, upon his death in 1913, was named Assistant Superintendent, an office which she held under each of his successors, Dr. Quaife, Dr. Schafer and Dr. Alexander. She proved to be an able administrator and frequently carried, without the title, the responsibility of the superintendency itself. Having known Dr. Draper, the first Secretary of the Society, and served in a confidential capacity under each of his successors, she carried in her retentive memory, more than any other person, a great deal of the unwritten history of the Society and its development; and with her death much of its intimate detail is forever lost. However, she lived to pass on to the new superintendent, Dr. Alexander, much of the accumulated wisdom of the superintendency, and many of her intimate friends are morally certain that she stoutly held off the assaults of death, man's ancient enemy, until she could accomplish that last deed of loyalty to the Society.

Next to the welfare of the Society, Annie Nunns counted the welfare of the University, for she knew it well from 1885, when she first came to the Campus as a student, until her final illness, late in 1941. She always attended its functions, and rarely missed her class reunion. She was closest, naturally, to the History Department by the faculty and students of which she was frequently called upon for assistance. They profited by both her editorial and bibliographical experience as well as her extensive knowledge of the location of historical research material in other institutions.

In Memoriam:

Annie Nunns, 1868-1942

Editor, The State Journal:

Annie Nunns had the distinction of 52 years service to the Wisconsin State Historical society. When she began her work in the autumn of 1889 her title was library attendant. During the years when Reuben Gold Thwaites was superintendent, Miss Nunns gave valuable assistance in the vast research in preparation for the publication of "Jesuit Relations in North America." As assistant superintendent of the society, and, at intervals as acting superintendent Miss Nunns gave devoted service. As a matter of course the state historical society itself will pay its own tribute to Miss Nunns.

Miss Nunns had outstanding ability in her work and was a strong character. Strong characters often put people off, but as notable as her service to the historical society was her capacity for friendship. She enjoyed people and she was certainly good company herself.

Miss Nunns was baptized in infancy in Port Henry, N. Y. The parish records, here in Madison, show that she was confirmed April 29, 1917. She was a natural leader in the parish. In visiting recently with Gen John G. Salsman he reminded me of Miss Nunns' effective words in the parish meeting in the little chapel of St. Andrew's in Stockton ct. in 1926 when the decision was made to move and build a new St. Andrew's church.

There was an understandable hesitancy about such a venture. Those of us who knew Miss Nunns know that she had about her that sort of character that I, personally, associate in my mind with St. Athanasius contra munda." She spoke, and the people took courage from her and went ahead. Miss Nunns was a brilliant woman and a loyal churchwoman. She received her communion on Christmas day and was ready and interested in the change in her life which she knew was soon to come. With St. Paul she would say, "As we have borne the image of the earthly we shall also bear the image of the heavenly."

Because Miss Nunns had spoken with emphatic approval of a quotation used in a sermon during the summer of 1940 I conclude with these words which she liked. They are taken from an essay by John Crowe Ransom entitled "Honey and Gall" in the Southern Review for the summer of 1940. (This was an essay dealing with the writings of Thomas Hardy.)

"For nothing is commoner knowledge than that we, each of us, shall, for example, die and revert to dust; before that time bear sickness, hurt, disappointment, and unkindness. And lyric need not spend itself on this topic however ingenious its imagination of evil may be.

Nature was for him an insoluble ambiguity. From the philosopher in him it exacted the not-so-distinguished tribute of indignation and reiterated defiant 'exposure'. From the poet it usually got faithful perception and love."

Rest eternal grant unto her, O Lord. And may light perpetual shine for her. May she rest in peace. Amen.

—Francis J. Bloodgood
Rector, St. Andrew's church.

Always interested in the professional advancement of her own sex, Miss Nunns took an active interest in both the Business and Professional Woman's Club and Altrusa, and served both organizations in a national, as well as local, capacity.

Annie Nunns was a brilliant woman, with a keen mind which the truth rarely eluded. Her ready tongue was quick to give expression to her wit as well as to her salty irony, for she knew well the use of both weapons. The individual who tried to put something over on her rarely succeeded, but he who went to her frankly and openly found that she was always ready to do anything in her power to help. Both within the Society and the University and outside of them she had a host of friends, for she was one who attracted people and was always good company. Widely travelled, she found much to amuse as well as interest her both in Europe and America, just as she did in the daily round of her office. In a word, her's was a zestful life and she enjoyed it to the uppermost. She has deserved well of the Society and the University.

The minutes of the regular meeting of December 1 and of the special meeting of December 24, 1941, were approved.

Professor A. T. Weaver, Chairman of the Faculty Club 638 Committee, in presenting its informational report called attention to Table I, stating that the asterisk following the figure "9,122.40" at the bottom of the Dues column should be eliminated, and commas should be inserted after the words "indebtedness" and "equipment" in the starred note at the bottom of the Table. Dr. Paul Clark also stated that a note should be added explaining the apparent large increase in profits during the years 1937-38 and 1938-39, as follows:

\$2500 less. In these years there was a moratorium on capital indebtedness payments of approximately \$2500.

Professor Weaver then moved the acceptance of the report with the changes in Table I as noted above. Motion carried.

The following nominations for the Nominating Committee were made: R. A. Brown, F. Daniels, J. L. Hicks, O. A. Hougen, G. M. Hyde, M. R. Irwin, and R. J. Roark.

Adjournment at 5:00 o'clock.

C. A. SMITH,
Secretary of the Faculty

307-308

Minutes - Jan. 12, 1942.

(Please note the appeal for BOOKS FOR SOLDIERS on the reverse side of this page.)

BOOKS FOR SOLDIERS

Books by the hundreds. Books by the thousands.
Books by the millions are needed for the men in service.

The Victory Book Campaign is now under way and the faculty and student body of the University is requested to take part. Good books of many kinds are needed: Fiction, with emphasis on adventure, mystery stories, humor and historical novels; recent technical books, especially aviation and radio; current affairs, government; history and biography; poems, plays, essays; and timely reference books. In short, exactly the kind of books most of us like to own and read ourselves. Magazines are not desired at present.

This Victory Book Campaign is sponsored by the American Library Association, the American Red Cross and the United Service Organizations for National Defense, Inc. who emphasize both the real value and need of books as a distinct contribution to national defense.

Gifts and donations of books may be left in receptacles provided near the charging desks of the University and Historical libraries, and departmental libraries of the University. Receptacles will also be provided in the Union, the University Club, and the Library School, or books may be given to any Library School student.

May I respectfully urge your assistance in publicizing this campaign among faculty and students.

Respectfully yours,

GEORGE C. ALLEZ
Director, Library School

NATIONAL ROSTER OF SCIENTIFIC AND SPECIALIZED PERSONNEL
WASHINGTON, D. C.

ADMINISTERED BY

National Resources Planning Board
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COOPERATING AGENCIES

American Council on Education
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National Research Council
Social Science Research Council

CONFIDENTIAL INQUIRY

February 7, 1942

Dear Sir (or Madam):

We have asked Henry F. Nelson
of Middleton, Wisconsin
to give us the names of three persons who have the most complete knowl-
edge of his character and experience, and especially of his technical
skills. Your name was one of those submitted by him. Since he is regis-
~~tered with the National Roster of Scientific and Specialized Personnel and~~
is also of an age which makes him subject to call for training and service
under the provisions of the Selective Training and Service Act of 1940, we
should like to have your answers to the enclosed questionnaire.

As your answers and those of other persons will help to determine
whether or not this man is recommended to the National Headquarters of the
Selective Service System as "an individual who possesses certain special
qualifications by reason of which he may now or later become a necessary
man in civilian occupation," please answer these questions as candidly and
objectively as possible. The information you furnish will be treated as
confidential, and is only for the inspection of consultants of the National
Roster of Scientific and Specialized Personnel.

It should be clearly understood, of course, that the classification
of this man under Selective Service is within the jurisdiction of his
Local Board. However, the National Roster of Scientific and Specialized
Personnel may transmit appropriate information about him to the office
of the National Headquarters of the Selective Service System in
Washington, D. C., and that office in turn may send a letter about him to
his Local Board in order to assist in the determination of his proper
classification.

Therefore, it will be appreciated if the enclosed questionnaire is
filled out immediately. A return envelope, requiring no postage, is
enclosed.

Yours very truly,

Steuart Henderson Britt

Steuart Henderson Britt
Consultant

Enclosure

EXECUTIVE OFFICE OF THE PRESIDENT
NATIONAL RESOURCES PLANNING BOARD
NATIONAL ROSTER OF SCIENTIFIC AND SPECIALIZED PERSONNEL

WASHINGTON, D. C.

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Dear Sir or Madam:

Approximately one year ago you filled in a questionnaire and technical check list for the National Roster of Scientific and Specialized Personnel. Recognizing the fact that the value of this material depends solely upon its current nature, we are again inviting your cooperation in the matter of providing additional data which would reflect any change in your general situation during this past year.

In order that demands upon your time may be kept at a minimum, every effort has been made to construct the enclosed questionnaire in a brief form. If no important change has occurred in your field of activity since the earlier circularization, merely complete items 1 and 2 and check the square to indicate that this is the case. We shall appreciate it if you will return this supplemental questionnaire in the self-addressed envelope provided. This envelope requires no postage.

I think you will be interested to know that questionnaires have been sent to more than 300,000 highly trained Americans, and the information concerning these individuals which has been brought together in the Roster files has made it possible for the Government to meet hundreds of specific demands for expert personnel in a rapid and accurate manner.

Assuring you of our appreciation for your continued willingness to cooperate with us in this program, I remain

Sincerely yours,

Leonard Carmichael

Leonard Carmichael,
Director.

U.S. NAVAL PHOTOGRAPHIC INTELLIGENCE CENTER
Receiving Station, Washington 25, D.C.

13 May 1946

From: Officer-in-Charge.
To: All Holders of P.I.C. Publications.
Subject: Lowering of Classification of Certain Photographic
Intelligence Center Publications.

1. The classification of the following publications of the
Photographic Intelligence Center has been lowered from Confidential
to Restricted.

Photo Industrial Studies - Jointly with AC/AS Intelligence

No. 6 The Explosives Industry. Dec 44
No. 7 The Shipbuilding Industry. April 45

P.I. Handbook Supplements

No. 3 Japanese Electronics. Mar 45
No. 6 The Coke, Iron & Steel Industries. May 45
No. 10 The Shipbuilding Industry. June 45

Special Studies

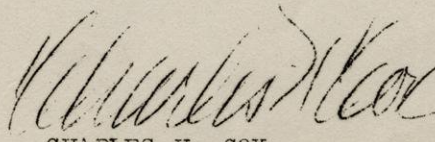
No. 1 Japanese Electronics. Jan 45.
No. 3 Japanese AA & CD Guns. Feb 45

Special Studies - now out of print

Japanese Radio Radar. Jan 44

2. The P.I.C. Publication, "Landforms and Vegetation of
the Pacific", is removed from classification.

3. Holders of these titles are requested to reclassify
them accordingly.


CHARLES H. COX
Lieutenant Colonel, USMCR

July 13, 1946

Mrs. C. R. Nutt,
521 Western Ave.,
Plymouth, Wisconsin

Dear Lottie:

We are planning on coming up next Wednesday. The only thing which might prevent us is if the raspberries from Bayfield come. I do not think that they will as we had the strawberries only a few days ago.

Sunday we go up to see the boys at Green Lake. They seem to be having a good time although Bill wants his own tent so as to get away from the roughhouse nights. We do not favor the idea. He ought to fight it out with the others it would seem. We are going on to Berlin and hope to see Miller there.

Fred wants to visit some of the Kettle Moraine State Forest on the way back. He thought he saw a lookout tower southwest of Plymouth and wondered if it should be included in future glacial trips. Maybe it is not one. Possibly you know about it.

Sincerely,

July 27, 1946

Dear Lofty:

Last week the roomer wrote that he and his wife would be here from August 1-6, but before I could get a letter off to you I received one from him that he would not be here at all but would store some clothes in the room. He received an invitation to occupy Miss Bascom's apartment while she is absent from the city. I imagine he will occupy the room quite continuously after September 1 until he can move into the house he has purchased on Center Avenue.

I made the current jelly Thursday night and it is a beautiful color and is very stiff. It also has a pleasant flavor. Thank you again. I gave Emma four glasses made from the currants I had bought at the store.

Tom and I expect to leave for Houghton August 22. If Ella Lu is able to find something for the whole family, we may all leave then.

We'll be glad to see you and the doctor whenever you can come.

Sincerely,

Mitt

August 12, 1946

Dear Lefty:

When the storm came up the day you left, I was afraid you would have difficulty on your return trip.

We certainly enjoyed the dew berries. I bought some later but they did not have the yuster of the Plymouth berries. The pie and the sauce from the Canada redbirds were delicious. Fred asked what kind of a spice we had used. I told Margaret and Ed about them. We also enjoyed the apricots.

I was going along merrily when I found that the new sugar stamp is not due until September 1. Guess I shall have to can some frozen peaches as they have the sugar added.

As Annabel returns to school on September 3 and they have had to get new help in Berlin, I guess Ella Lu's mother will return to Houghton just about the time we were to be there. If we can secure reservations, Tom and I are going to Colorado. Pollen-free air during the period of greatest concentration in Madison seems to permit Tom to withstand the gradual decline upon our return.

I hope that you had last Wednesday's rain without the disastrous results apparent at Tower Hill State Park.

Sincerely,



Dear Folks:

Have had so much to do the last few weeks that I'm slow at getting Christmas mail on its way.

Had a letter from Mrs. Lobeck and one from Elmie recently. Elmie had Dr. and Mrs. L. and Merrill with her at her apt in Washington for Thanksgiving. She and another girl have an apt and they had been for dinner. Merrill is in school in Philadelphia - is planning on being a bacteriologist. His mother says he's working plenty hard now - he wasn't so ambitious

with us this year. So write
hoping for good dining conditions.

We hope your having a
Very Happy Christmas and
that 1947 will be good to
you all —

The Nutts

a few years ago!

I think I didn't write you
since we bot two lots (50'
each) just two down west on
Madison Av. as a site for our
new home. Then we bot all
of the hillside (and even top) —
from our orchard west to the
city limits and back of the
fringe of lots on Madison
Av. — 7½ acres in the piece.

Now no one can spoil our
scenery!

The Daggatto are coming
to spend Christmas Day

April 23, 1947

Dear Lofty:

Just received your letter in the morning mail and we shall be glad to have you stay with us the 10th and 11th of May. Largely on account of the fear of getting into trouble with the O.P.A. we have never rented the green room.

We both have an invitation to the banquet and have not answered it. I shall not be able to attend and I am urging Fred to send in his reservation.

Mrs. Lobeck is to visit Mrs. Adkins in May.

Now I must get at my cleaning. We shall be very happy to have you stay with us.

Sincerely,



Dear Amy:

I'm glad to have a
haven at the Shwaile's
home when I go down
next Saturday.

I'll be seeing you
some time in the
afternoon. One of the
two women dining down
with me is to be at
her sister's and that
is not in one of the
outmost part of town

and I'll probably
drive her out there.
I thought I'd stop
at Science Hall on
my way - Haven't
been there in years.

Am looking forward to
seeing Abner Whitbeck -
He'll surely be in Madison
for the dinner -

Until Saturday then -
As always -
Lgbr.



Mrs C. B. Smith

Mrs. Charles R. Nutt

521 Western Avenue

Plymouth, Wis.

Saturday AM.

Dear Amy:

I had a very satisfactory morning
last Monday and still made
Columbus at 1⁰⁰ P.M.

I wish you could see the little Daqqets.
They are such attractive youngsters.
Loren has changed most since I saw
him for he could neither walk
nor talk then. He's real friendly
tho' a little more shy than Karen.

I dropped in G'd's to see the old
friend who is living at the hospital
there. Such a bleak situation - in
a room with three other old ladies
which, naturally, isn't a very
cheerful environment. It's such a

Having the hospitality of the
Therites home when I go to Mod-
ison. There have been so many
changes since I left Modison
that it makes it all the more
to be in contact with the
friends I still have there. But I
think my call at Arcene Hall
Saturday probably ends my interest
there. It just doesn't appeal to me to
go there any more - too many
changes and too many changes
to be of any interest to me.

I'm looking forward to seeing you
early in the summer - the days
are long then so you can have a
late stay than you did last fall.

With many thanks to you for your part
in a lovely week end and with greetings
to the family - With love - Love

pitiful condition and I can't wonder
that she is so eager to die.

We had a really nice day yester-
day but most of the week has
been disagreeably cold. This
morning we planted some
early sweet corn which we
hope will not get discouraged
by the cold.

I suppose Helen is home again
by this time. I'm going to
ask Beulah Post to keep me
informed about her condition
for I know it's not easy for her
to write and Ruth hasn't
any time to do it.

It was certainly a very satisfying
and most enjoyable week end
for me and I surely appreciate

Mrs. Charles R. Nutt

521 Western Avenue

Plymouth, Wis.

Sunday P.M.
April 30 -

Dear Army:

I've been hoping for several weeks to manage to drive to Madison some day but never got around to settling on any specific date. But this past week I received a letter from Mr. French inviting me to the Whitbeck Memorial dinner on May 10th, about which you undoubtedly know.

I've written to accept the invitation and now I'm writing to you to ask if it would be convenient for you to "take me in" from Saturday until Monday morning - I don't care to drive home Sunday P.M. because Sunday traffic is so heavy this spring. If it isn't entirely con-

receipt for you, Aug. don't hesitate
to say so for I can make other
arrangements if it is. I thought I'd
write you just because I'd
prefer staying with you folks if
it is convenient for you. A friend
who has a sister living in the
west suburbs of Madison will
drive down with me and I
would stay with her but I thought
I'd write you just. Another friend
too is going with me but she
will stay with some one of the
Wisconsin Ornithology Soc. people. The
Ornithology group convention and
field trip is that week end and
she and I had tentatively planned
to go down anyway. Then this
Whitbeck dinner developed and
that definitely decided me.

I assume that you and Fred
are being asked to attend since

the former geography staff members
would certainly be included. I'm
looking forward to seeing Florence - the
first time in thirty years - haven't
seen her since our marriages.

Have been busy all winter but it's
hard to remember what kept me
busy all the time. March was
pretty well taken over by the annual
Red Cross drive for funds for which
I was responsible. It probably didn't
actually take much a lot of time
but I never felt I was really free
until we had our quota.

Am anxious to hear of Helen's
condition. Haven't heard for several
months but the last news I had
was very good - that she appears
to really be recovering.

The outcome for me of our friends here
is quite different. She died right
before last after a few years of
poor health terminating in many
months of very great suffering, and yet

Nervu seemed for a moment to quop,
pet the hot cancer and would
not move.

Hornit heard from the Sobacks since
Christmas but it's my turn to
write and so I can't expect to
hear.

Hope you all weathered the winter
without any trouble from flu such
as many people had. It doesn't
feel right now as if the winter
were over. We had about 4" of snow
Friday.

Will look forward to seeing you
in May but be sure to tell
me if it isn't convenient to have
me stay with you. There is such
lack of quarters in Madison this
year that I realize you may have
some one staying with you so that
it wouldn't be convenient.

Greetings to you all -

Tom -
Toyle

Ms. C. P. Nutt

June 5, 1947

Dear Lofty:

If it is convenient for you to have us, we shall come up on Saturday, June 28. Tom and Bill go to Camp Tichora on June 22 and return on June 29. As Bob starts summer school on June 23, we shall have to come on Saturday.

Shall try to go over to see Helen some time during the week so that I can give you a report of her condition.

Needless to say, we are enjoying the fruit. We pour off the juice, add sugar, and warm until the sugar is melted. We then put the juice on the fruit again and let the mixture stand in the refrigerator a few hours. I certainly appreciate all the work of canning the fruit.

Perhaps I was a little too ambitious, for the guest room is without curtains until some are returned from the cleaners.

Come down whenever you can get away!

Sincerely,

June 30, 1947

Dear Lofty: N

The flowers withstood the trip perfectly. On our return to Madison we went directly to Helen's. I did not intend to go in but Ruth insisted. Helen was resting and was delighted with the peonies and especially the roses. She held one in her hand and admired it. She said it was just like you to do something like that.

Though we turned down County Trunk AA and kept a constant search for the fire tower, we missed it. When we turned west, we spotted it some distance north. Apparently it must be reached from "U" instead of "AA". We had a delightful trip home, but noticed a very ominous western sky just as we went down Monroe Street. It materialized in a short time.

We enjoyed the day in Plymouth just as we always do.

We hope you will be able to come to Madison in the near future.

Sincerely,

July 28, 1948

Rev. Byron C. Nelson,
Trinity Lutheran Church,
Spooner, Wisconsin

Dear Rev. Nelson:

Yours of July 6 and the copy of "Before Abraham" have been at hand for some time. I read the book with much interest. Although I do not follow all of the argument I think it an excellent advance in method of approach to a most difficult subject. Thank you for sending it to me.

We were very glad to hear from you and hope you find your new location satisfactory. We made a trip to the Yellowstone just after school. Now Amy fears that she may have to have another operation and that is keeping everything uncertain.

With best regards,

Sincerely yours,

TRINITY LUTHERAN CHURCH

BYRON C. NELSON, Pastor
SPOONER, WISCONSIN

July 6, 1948

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

Dear Prof. Thwaites,

I am having my church publishing house, which has printed a number of my books, send you a copy of one which has just come off the press which was about completed when I was studying with you. I believe there are a number of things with which you will not agree, but I would like to have your opinion of the book anyway. You will note that you have been depended on in some matters.

I am writing for the church rather than secular folks, being one of those who think the statements of the Bible are worthy of a lot more respect than scientists generally are willing to give *them*. ~~it~~. The issues are too great to be guided in one's thinking only by the best that men can figure out, in the face of the testimony of a book as remarkable as is the Bible.

I had to leave out many interesting things I would have liked to include, in order to keep the book simple and readable by ordinary people, and at the same time keep it in the price range where a lot of people would buy it.

You will be interested to know that all the drawings are mine. A few of the appendices I wish I had kept in the main body of the text where they were originally. I also wish I had separated some of the illustrations to make them larger.

Very sincerely yours

Byron C. Nelson

Please give my regards to Amy.

B.M.

P.S. If there not for you I would have gone all out for teleconnections. But they are not essential in an argument of the kind I make here.

B.M.

Code 106

REFER TO FILE NO.

NAVY DEPARTMENT

BUREAU OF SHIPS

WASHINGTON 25, D. C.



4 June 1948

Professor F. T. Thwaites
Department of Geology, University of Wisconsin
Madison 6, Wisconsin

Dear Professor Thwaites:

I am at present engaged in writing a book for the Bureau of Ships of the Navy Department about the resistance, propulsion, and motions of ships, for which I need information concerning the surface slopes of rivers and channels in which currents are running.

My friend, Dr. Kenneth J. Bertrand, has informed me that he thinks you can give me this information, or at least can lead me to it, so to speak.

As you will understand, when a boat or a ship travels upstream in a river or canal in which there is a current, and in which there is a corresponding slope in the water surface, the boat must not only push itself through the water but it must lift itself uphill, as if the sloping water surface were an inclined plane. This feature has been largely neglected in books of the past, with the result that there are little or no data available to the naval architect concerning the amount of slope involved.

The only information I have at the moment, from an unremembered source, is that water will flow if there is an inclination in the water surface of one-eighth of an inch per mile.

If there are any published data on this subject to which you can refer me, I shall greatly appreciate your assistance in the matter.

Very truly yours,

A handwritten signature in dark ink, appearing to read 'H. E. Saunders'. The signature is written in a cursive, slightly slanted style.

H. E. Saunders
Captain, USN

June 13, 1948

Captain H. E. Saunders,
Bureau of Ships, Navy Department,
Washington 25, D. C.,

Dear Capt. Saunders:

Yours of 4 June is at hand but
pressure of final examinations has delayed my
answer.

The best general references on stream slopes in
this country is U. S. Geol. Survey Water Supply Paper 49.
Although old I think this will tell what you want to know.
My feeling is that in streams which can be navigated
by large vessels of conventional design (not speed boat)
slope is a very minor factor in power requirements.
You probably recall Manning's formula for velocity of
streams shows that size of stream is more important
than slope for it occurs with a larger exponent.

The Mississippi River Experiment Station of the
Army Engineers at Vicksburg, Miss. has put out many
papers in mimeographed form which deal with the physics
of rivers. Unfortunately, our library here has few of
these. However, I think they could refer you to much
more up-to-date information than I have.

Very truly yours,

April 4, 1949

Mrs. C. R. Nutt,
521 Western Ave.,
Plymouth, Wisconsin:

Dear Lofty:

Miss Flood called us Friday to say that the Doctor passed away the day before. Please accept our sympathy. It was out of the question for either of us to get up to the funeral. Billy was sick in bed with a sinus infection and it was a long time before we could get a doctor to come. Also I had classes all the time with no one to take my place. There are 91 taking Mapping and they work at all hours of the day. Bill is better today but now Tom has an inflamed eye. Earlier in the week Bob had a running ear. So you can tell how things were.

Miss Stillman called to say that she has found Helen's photos of the Alaska trip of 1926. She would like you to tell her about them when you come down here.

Sincerely yours,

Mrs. Charles R. Nutt

521 Western Avenue

Plymouth, Wis.

Mrs. A.M.

Dear Army:

The clipping about the Daggetts and the church organ crew yesterday and, just in case Dorothy doesn't send one on to the Senior Daggetts, I'm going to mail this one to Lois.

Lois had told me something about the venture so I was particularly interested in reading the newspaper article.

I thought surely I would manage to go to Madison this month but there are so many things I have had to do that the time has slipped by and I haven't gotten there yet. I don't like to go down and back the same day unless it's necessary and so I think I'll wait until I can go for a couple of days. Just

now I'm starting to settle the matter of installation of an oil burner in the furnace and so to-day I'm going to Stebygau to try to locate the dealer for the type I've decided I want. It will be a conversion burner not a complete oil furnace so won't mean too much tearing up in the basement, tho there are a few changes to be made in the pipes.

I'm wondering if you can't all come to Plymouth for a day before school starts - or on a Saturday afterwards if that is not possible. I didn't write you about it before, partly because I thought I'd see you in Madison before now, and partly because, in the earlier part of the summer, I didn't know whether you were home from your Madeline trip. If you'll

Mrs. Charles R. Nutt

521 Western Avenue

Plymouth, Wis.

just let me know when you can
come so I'll be sure to be at
home - I know I don't need to
say that for you always do. I
thought of it because I've made
so many day and half day trips
this summer that it seems as
if I had been away a lot. This
last week end I spent with the
Daggetts and the Nelsons, leaving
Mrs Lee at home to take care of
the pup who is too lively to
take away from home for any
great length of time.

Daggetts are starting a three
week trip to California just before
Labor Day and Louis wanted me
to go down for a day or so before
they left.

Ruth probably told you that she

was here briefly for a couple of
times this summer, on her way
to and from Son County.

Am wondering if Benet Post, Mr.
Kearbie and Miss Hargrove were com-
ing back from Europe. They left
Madison the latter part of March
and have been having a good trip.

Will be hoping to hear that you
can come to Plymouth, either right
away or if that isn't possible, later
this fall.

With love.

Loyle

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CENTRAL PARK WEST AT SEVENTY-NINTH STREET

NEW YORK 24, N. Y.
15 July, 1949

EUNICE THOMAS MINER
Executive Director

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

Dear Doctor Thwaites:

Thank you for your letter acknowledging our invitation to you. We are most appreciative of the attention which you have given the matter of membership in The New York Academy of Sciences.

Should you, at any time in the future, desire to become affiliated with us, please be assured that your request for such membership will be sincerely welcomed.

Very truly yours,

Glenn Sibbit
Head, Membership Division

GS/hej

April 13, 1949

Dear Lofty:

I am on my way to a meeting of the Social Service Department, but I want to take time to invite you down for a visit next week. Fred leaves for camp Friday afternoon and I shall have to drive him up. Monday Tom and Bill start on a three day bike hike and I may have to drive Bob up to Camp Tichora for a three-day stay. Saturday Tom and Bill go to Manitowec and I shall have to go up after Fred. Thus you see I shall be alone a good part of the week.

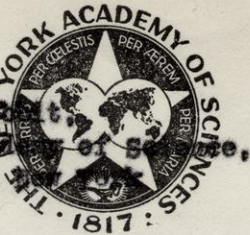
Come if you can!

Sincerely,

THE NEW YORK ACADEMY OF SCIENCES

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LEO SHEDLOVSKY, Physics and Chemistry
HANS PANOFKY, Oceanography and Meteorology
FREDERICK REISS, Division of Mycology

Mr. Glenn S. Libbit
New York Academy of Sciences
New York 24, N.Y.

Dear Sir:

CENTRAL PARK WEST AT SEVENTY-NINTH STREET

EUNICE THOMAS MINER
Executive Director

In reply to yours of 30 June I wish to thank you
30 June, 1949

but I am in no way interested in the New York Academy.

Very truly yours,

Doctor Fredrik T. Thwaites
Science Hall
University of Wisconsin
Madison 6, Wisconsin

Dear Doctor Thwaites:

On June 7, 1949, we sent you an invitation to membership in The New York Academy of Sciences. We have had no reply from you to date and are, therefore, interested in learning what your decision has been.

May I hear from you regarding this matter? If you have decided to become a member of the Academy, I shall be glad to present your name to the Council at its next meeting.

Very truly yours,

Glenn Libbit
Head, Membership Division

GS/hej

N

January 23, 1950

Dean of Graduate Studies
California Institute of Technology
Pasadena 4, California

Dear Sir:

In regard to the application of James Ronald Novotny to enter your institution as a graduate student he has been in my classes for the past year. His record for scholarship has been among the top 10 percent of the class. The class last year was in Mapping and his record in the field was also excellent. However, the class was so large that I was unable to get to know all of the students as well as I used to with smaller groups. So far as I can tell his personality and character are good. I recommend him without other reservation than that above.

Very truly yours,

F. T. Thwaites

FTT:ac

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Mrs. C. R. Nutt
521 Western Avenue
Plymouth, Wisconsin

Dear Mrs. Nutt:

Miss Wood has asked me to write and tell you her Mother passed on Monday night. She had another very slight stroke and then peacefully slept away.

Dear little Ella took the remains home to Berlin yesterday. The funeral is this afternoon.

Ella carried on all these years like a little general. She was the most devoted, attentive daughter I have ever known. Her mother was a wonderful patient. Never was out of sorts nor demanding. Ella surely needs a good rest but suppose she will return here and start working.

Very sincerely,

Vivien Z. Lawrence

Vivien Z. Lawrence
Secretary to Miss Wood

prof. Bradford Willard, Head,
Dept. of Geology,
Lehigh University,
Bethlehem, Pennsylvania

Dear prof. willard:

0 In reply to yours of 27 November
Steve Nordeng was my assistant in mapping in the spring
of 1953. This involved a week in the field at Garbaco
where we had a large class working in the woods under
true field conditions. His work in this was satisfactory
and he got along all right with the boys. Since I have
retired since Nordeng worked with me I now do not have
any class books recording his scholastic work in my
classes. I talked with others in the Department this
morning including Dr. Cline under whom Nordeng did his
doctors thesis and they told me that he was a good
student. I feel that you would find him a good
instructor.

Sincerely yours,

LEHIGH UNIVERSITY
BETHLEHEM, PENNSYLVANIA

DEPARTMENT OF GEOLOGY

Nov. 27, 1956

BRADFORD WILLARD
LAWRENCE WHITCOMB
H. R. GAULT
G. R. JENKINS
J. D. RYAN

VIA AIR MAIL

Prof. F. T. Thwaites
Dept. of Geology
University of Wisconsin
Madison 6, Wisconsin

Dear Professor Thwaites:

I have received recently a letter from Dr. Stephan C. Nordeng, who is interested in an opening here at Lehigh. We are looking for a man to teach elementary geology, elementary engineering geology and such advanced courses as his training and experience may warrant. Dr. Nordeng has given your name as a reference. If you wish to write me confidentially as to his qualifications as a teacher and as a colleague, I shall be indebted to you for the information.

Very truly yours,

Bradford Willard
Bradford WILLARD, Head
Department of Geology

BW/LT

31 Jan., 1958

Dr. Robert L. Broeden,
National Geographic Magazine, Illustrations staff,
Washington 6, D. C.

Dear Sir:

Yours of the 28th is at hand. I have studied the Two Creeks Forest Bed ever since 1922 and have had others work on it. All this work is summarized in my recent paper on "Pleistocene geology of the Door Peninsula, Wisconsin a copy of which is being sent you under separate cover. The illustrations in that are the best selected over this length of time but are half tones which are hard to reproduce. I have the original prints from which these were made and can lend them to you. I also have other black and white prints which I made for a studio in Los Angeles which, however, never used them. They specified that they wanted only prints with no persons in them. I sent them both matte and glossy prints but would have to have a little time to look them out of storage. I have the negatives of the pictures used by Wilson. I did not take many color shots for most publications refuse the expense of reproduction.

My last visit to the Forest Bed was about the beginning of June, 1956. As my chart of lake levels shows, the level of Lake Michigan is now in a low cycle. When it will rise again is anybody's guess. Pending this future event exposures of the buried vegetation are very poor. I could get no satisfactory color photos in 1956 although I tried twice.

Sincerely yours,

15 Feb., 1957

Dr. Henry Nelson, Research Geologist,
Field Research Laboratory,
Dallas 21, Texas

Dear Henry:

In reply to yours of the 12th I no longer have my class books or other records having turned them over to the Geology office where they have changed secretaries since I retired. However, I do not think this material would help much. I remember nothing favorable or unfavorable about Jack Vojachian. So far as his history goes I called Rotary and found most of those who knew him best are now on leave. Hence I could discover little. It did come out that he had been at Oregon, then came here and last went back to Oregon. This accounts for three of the five collages we thought. I discovered nothing against him in his record in Rotary. Of course the changes do not look well but since you lose credits with every change it would seem as if they were unavoidable. I have noted, however, that those who change schools often are apt to change jobs often too but this does not always hold true. I know nothing of his ability in pollen study.

Thank you again for the radiocarbon tests. The last is that my report may reach the press "after April".

Sincerely yours,

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February 12, 1957

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

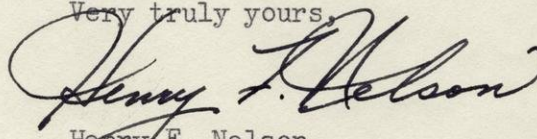
Sherry
37186

Dear Professor Thwaites:

I am writing to obtain some information about a student who took a course under you during the second semester, 1954-55. The course he took was Geology-143. His name is Mr. Jack McLachlan and he now gives his address as the Botany Department, Oregon State College, where he is obtaining his doctors degree in Botany. If you remember this student could you give me your opinion of him inasmuch as he is applying for a job as a palynologist with us? We are particularly concerned, because his record shows that he has been inrolled in 5 different colleges. We do not know the reason why he has enrolled in so many. Some of them he attended for only a very short period of time.

Any opinion you may give will be greatly appreciated.

Very truly yours,


Henry F. Nelson
Sr. Research Geologist

HFN/ms

Oregon here - Oregon aff for Nat Res. C. scholarship

National Geographic Magazine

WASHINGTON 6, D. C.

ILLUSTRATIONS STAFF

January 28, 1958

Dr. F. T. Thwaites
41 North Robey Road
Madison, Wisconsin

Dear Dr. Thwaites:

We are gathering material for a proposed article on methods of dating the past, with emphasis on carbon-14 dating.

Since spruce wood from the peat layer at Two Creeks, Wisconsin, is so important, especially to the carbon-14 process, we are interested in getting photographs of the Two Creeks area as part of our illustrations for the article.

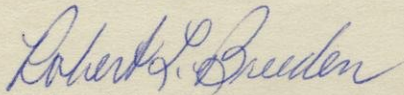
Because of your interest in the subject, we thought perhaps you might have photographs made in the region. If you do, we certainly would appreciate considering them for publication. Do you also know of other possible sources for pictures?

We are especially interested in seeing photographs showing scientists or students examining tree trunks protruding from the peat layer, if such pictures are available.

We have had conflicting reports on the site as it appears today. Some indicate the peat layer has been buried under sand, making picture taking impossible now. Could you tell us if this actually is the situation?

Your help in supplying this information and any pictures you may have certainly will be appreciated.

Sincerely yours,


Robert L. Breeden

RLB:CS