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Correspondence - University of Wisconsin. 1947-1955

Thwaites, F. T. (Fredrik Turville), 1883-1961
[s.l.]: [s.n.], 1947-1955

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204E Soils Bldg.,
University of Wis.,
March 14, 1949.

Professor F.T. Thwaites,
Dept. of Geology,
Science Hall.

Dear Professor Thwaites:

Here find enclosed the samples of Schiller's work, which I promised you. In the sample book New No. 405 is the kind we order. It costs about 65¢ per square foot for the first copy and 35¢ per sq. foot for each additional copy made. I also enclose a scrap from a sample print which Schiller made for us from one of the old colored soil maps. The print is in grays, but is a good reproduction, I think. You can send your manuscript/^{map} registered and insured to Schiller or you can go in person, after arranging a time by correspondence, and they can make the prints and dry them within a couple of hours. If you go in person, you may feel safer about the manuscript map, and you can take it back with you the same day.

Sincerely,

F. D. Hole

Francis D. Hole

CUSTOMER'S COPY

SCHILLER BLUEPRINT CO.

MILWAUKEE , WISCONSIN

SOLD TO

University of Wisconsin

DATE

Sept 8

19

49

ADDRESS

% R.C. Emmons - Science Hall
Madison 6, Wis.

YOUR
ORDER No.

C-49262

1 #410 (Blue) Photact of div. Base map
of Northeastern Wisconsin

INVOICE No.

41225

FIRM
NAME

RECEIVED

By

you pick up.

August 31, 1949

Schiller Blueprint Co.
104 E. Mason St.
Milwaukee 2, Wis.

Gentlemen:

I would like to drive to Milwaukee some day early next week to have a photoart tracing cloth copy made of a tracing. Size is about 18 square feet. What day would it be best to come so I can pick up both copy and original for return to Madison in the afternoon? I will bring a University order.

Sincerely yours,

F. T. Thwaites

FTT:ac

RF 47.312

PLEASE READ CAREFULLY

November 1, 1954

REQUESTS FOR RESEARCH SUPPORT FOR THE YEAR 1955-56 MUST BE IN THE GRADUATE SCHOOL OFFICE NOT LATER THAN JANUARY 17, 1955

To the Members of the Faculty:

For the year 1955-56, only those requests for research support which are received by January 17, 1955, can be assured of receiving attention from the Committee. Plans for research should be well laid in advance and it is hoped that your program will be organized so that it will be unnecessary to make additional requests during the year. Transfer of funds within a project may not be made after the budget is approved.

In making requests for research grants-in-aid for 1955-56, please use the following form. Applications should be made in duplicate.

1. TITLE AND REASONS FOR THE STUDY: Indicate the importance of the problem.
2. RESULTS OBTAINED TO DATE: If your project is a continuing one, a more complete statement of results than requested for the summary report of July 1, 1954, should be included.
3. PROCEDURE: Indicate the essential working plans. If any part of the work is not to be done on the campus, please explain.
4. FINANCIAL SUPPORT: Indicate clearly the amounts requested for staff, hourly help, supplies, and capital expenditures such as apparatus and equipment. Supplies and equipment needs should be listed separately.

The stipends for research assistants will be \$1,500 on the twelve month's basis and \$1,250 for the academic year.

5. PERSONNEL: Complete information on the qualifications of the assistant should be included.

Blanks for summer salary support and research leaves were sent to faculty on October 1, 1954. Requests for this support are due November 15, 1954.

Members of the University Research Committee will be available for consultation with those who wish to discuss their projects.

UNIVERSITY RESEARCH COMMITTEE

- | | | |
|----------------|------------------|----------------|
| D. A. Baerreis | F. H. Harrington | W. R. Marshall |
| W. J. Brogden | V. E. Herrick | A. L. Wilds |
| E. N. Cameron | J. H. Herriott | C. N. Woolsey |
| C. A. Elvehjem | M. R. Irwin | |

SUMMARY REPORTS FOR THE YEAR 1954-55 ARE NOT SUBMITTED AT THIS TIME

Report on Project RF 47:312 for the year 1947-48 .

Investigation of the glacial deposits of part of northeastern
Wisconsin.

The ~~x~~ aerial photographs to be used in the foregoing investigation were not all received until late in 1947. Pressure of other work during the Second Semester prevented the undersigned from doing more than mark section corners and principal points on some of them. Students in Mapping ~~have~~ contoured a few of the stereo sets. More cannot be done until further elevations have been established in the field. All available railroad elevations have been determined and placed on maps. ~~Base~~ ^{base for both} Maps from which the topographic and geological maps of the final report will be traced have been secured and drafting is soon to start. Dr. Bertrand of The Catholic University of America at Washington who has notes on many of the features of the area, is to come out and aid in field work during this coming August.

June 14, 1948

Report on Project RF 47:312 - Investigation of the glacial deposits of part of northeastern Wisconsin, for the year 1947-48.

The aerial photographs to be used in the foregoing investigation were not all received until late in 1947. Pressure of other work during the Second Semester prevented the undersigned from doing more than mark section corners and principal points on some of them. Students in Mapping contoured a few of the stereo sets. More cannot be done until further elevations have been established in the field. All available railroad elevations have been determined and placed on maps. Maps from which the base for both topographic and geological maps of the final report will be traced have been secured and drafting is soon to start. Dr. Bertrand of The Catholic University of America at Washington, who has notes on many of the features of the area, is to come out and aid in field work during this coming August.

F. T. Thwaites

20-17 E
 N-S line - normal $\frac{1}{20} = 4 \text{ ch}$ offset to 35-36 of 21-17 = $34.80 = 2290'$
 NE side 20-18 = $22.74 + 180 = 2034$ offset to 35-36 = $38.00 = 2500$ NW 22.50 + 165 = 165
 " 20-19 = $21.50 + 100 = 2050$ " = $43.63 = 2870$ 18.29 - 1.71 = 16.58
 " 20-20 = $23.92 + 25.85 = 49.77$ " not given 16.92 - 3.08 = 13.84
 " 20-21 normal 0 - NW 16.69 - 3.31 = 13.38
 " 20-22 " 0 26.04
 " 20-23 18.90 - 1.1 = 17.80 ~~38.49~~ 19.00
 " 20-24 18.79 - 1.21 = 17.58 21.50

21-18 ?
 21-19 SW corner 22.00 + 132' NE corner 21.70 + 110' + normal 43.68 w of 35-36
 21-20 22.00 + 132' 21.86 + 122' 51.98
 21-21 22.90 + 190' normal 60.70
 21-22 22.00 + 132' " 60.88
 21-23 22.00 + 132' " 16.42 E of 34/35
 21-24 20-00 0 " 14.00 "
 21-25 SE line 46.39 to lake = 154'

22-25 N line 41.50 to lake

Report on Project RF 47:312 for the year 1947-48

Investigation of the glacial deposits of part of northeast Wisconsin.

The aerial photographs to be used in the foregoing investigation were not all received until late in 1947. Pressure of other work during the Second Semester prevented the undersigned from doing more than mark section corners and principal points on some of them. Students in Mapping have contoured a few of the stereo sets. More cannot be done until further elevations have been established in the field. All available railroad elevations have been determined and placed on maps. Base maps from which the topographic and geological maps of the final report will be traced have been secured and drafting is soon to start. Dr. Bertrand of The Catholic University of America at Washington who has notes on many of the features of the area is to come out and aid in field work during this coming August.

COPY FOR DEPARTMENT

THE UNIVERSITY OF WISCONSIN
DEPARTMENT OF STORES

Division Grad. School

Date 6/30/48

Department 15:312
Fund Tchg

Ord. No. 1414

STATEMENT OF ISSUES

Dept. Head F.T. Thwaites

Amount 8.05

SPECIFIC SALES

Class Gen. Sup.

DATE	ITEM	FWD TOTAL	DEBIT	TOTAL
6/14/48	7 yds 36" tracing cloth		8 05	8 05*

A copy of this statement is being sent to the Accounting Department for payment of amount shown. You may retain this copy for your records. Report incorrect charges to Stores Bookkeeper, U-498 and adjustments will be made on your next statement.

THE UNIVERSITY OF WISCONSIN
MADISON 6

THE GRADUATE SCHOOL

RF 47:312

7 yds 36" training cloth

June 4, 1948

Order placed 6-14-48

To Research Project Supervisors:

The following announcement has just been received from the University

Controller:

1. Requisitions on all funds should be filed by June 19. Only emergency orders can be handled after that date.
2. Requisitions to the Service Department where the work cannot be started before June 30, will be withheld until July 1.
3. Blanket orders to University Departments covering 1948-49 operations may be filed any time after June 1.

We would again call your attention to Section 15.19(5) of the 1947 Statutes which provides that all invoices paid after November 1 shall be charged to the current year's budget. This will affect all orders on lapsing funds where delivery dates will be too late to allow payment of the invoice before November 1. In this regard please examine your open orders to ascertain if cancellation would be advisable. Requisitions now being placed should have this limitation in mind.

I should like to call to your attention specifically the last paragraph with reference to invoices paid after November 1. It is to your advantage to check carefully on requisitions already issued and to be sure of delivery prior to November 1 on remaining requisitions to be written against your fund for 1947-48.

In order for requisitions to reach the Accounting Department by June 19 as stated above it will be necessary that they be received in this office not later than June 15.

C. A. ELVEHJEM
Dean

15
17
805

THE UNIVERSITY OF WISCONSIN

MADISON 6

THE GRADUATE SCHOOL

May 20, 1948

REPORT OF RESEARCH INVESTIGATIONS
for the
ACADEMIC YEAR 1947-48
and for the
SUMMER OF 1947

- I. Subject: Project number and title. *RF47:312*
- II. Personnel involved on the project and statement of any other source of support.
- III. Brief statement of specific progress made during the year.
- IV. Short summary of results and their significance.
- V. Publications
- (a) List publications that have appeared in print during the year, regardless of when the manuscript was prepared, as follows: Baier, J.G., An Analysis of Photoelectric Instruments for Measurement of Turbidity. *Physiol. Zool.* 20: 192, 1947 (April).

*Investigation of the gland
deposit of part of
interocular Wisconsin
Supple 350*

Please submit one reprint of each paper when available.

- (b) List manuscripts which have been prepared during the year but have not been published as follows: Grant, D.A., Norris, E.B., and Boissard, S., Dark Adaptation. *Jour. Expt. Psychol.* In Press.

If you have not prepared any material for publication during the year, the summary under IV should be more extensive. In this case some statement regarding plans for publication would be helpful to the Committee.

Reports (one copy) are to be in the Graduate School Office on or before July 1, 1948

This information is to be made available to the Research Committee, the administrative officers of the University, and to others interested in the research activities of the University.

C. A. ELVEHJEM
For the Research Committee

Maintenance

pentagone

- ✓ 1 - 7-15 - 7-05 + 6-77 - 6-68 ¹¹⁺¹⁰⁼ 21 ^{Flight} ✓ 10 - 4-29 - 4-31. 3
- ✓ 2 6-45 - 6-64 + . 20 ✓ 11 3-48 - 3-51 4
- ✓ 3 6-03 - 6-23 21 ^{short} ✓ 12 4-25 - 4-21 5
- ✓ 4 5-16 5-39 24 ✓ 13 3-02 3-06 5
- ✓ 5 5-11 - 5-01 + 4-94 - 4-74 ¹¹⁺²¹ 31 ^{short} ✓ 14 1-02 - 1-10 9
- ✓ 6 4-25 - 4-56 32 BIE ^{short} 26
- ✓ 7 4-20 - 4-05 + 3-34 - 3-45 ¹⁶⁺¹² 28 need
14-9,10
- ✓ 8 2-63 - 2-94 ³⁻²⁷⁻³³⁹ ~~no 2-72~~ 32
- ✓ 9 2-59 - 2-30 30
- ✓ 10 1-82 - 1-94 + 2-03 - 2-12 ¹⁷⁺¹⁰ 27 Prices AAA
- ✓ 11 1-79 1-61 19 8x10 ~~30¢~~ ^{100 cents}
- ✓ 12 1-101 - 1-117 17 or 35¢ ~~over 100~~
- ✓ 13 1-32 - 1-16 17 WH Comm ^{100¢} ~~25¢~~
- ✓ 14 1-03 - 1-10 8 \$25.00
less for one

Calumet

- ✓ 5 3-69 - 3-75 + 5-74 - 5-69 + 5-17 - 5-09 = 24
- ✓ 6 3-65 - 3-44 22
- ✓ 7 3-04 - 3-25 22
- ✓ 8 2-95 2-73 23
- ✓ 9 2-30 2-50 21

10 are maintenance

27

360

122

26

122

327 23

246

237

1467

4) 1467 (366.85

12

26

24

274

24

30

122

Door 6

Flight 7

9-760 to 9-767

Flight 6

9-800 to 9-808

" 5

10-838 to 10-850

" 4

10-870 to 10-886 & 11-900 to 11-903

3

11-950 to 11-929

2

11-912 to 11-927 & 6-492-488

1

11-908 to 11-904 & 6-446 to 6-458

Door

Flight 15

9-703 to 9-716

14

11-818 to 11-832

13

20-944 to 20-858

Door 22

New 10

Burn 12

min 14

Col out 5 6%

Door

Washington Island

✓ FL 20 - 1-39 - 1-47 9

✓ 21 1-104 - 1-97 8

✓ 22 1-11 - 1-20 10

omit Rock Island 27

6
9
13
16
18
18
30
20
27
26
25
30
23
20
20
10

Door 6

✓ 1-6-89 to 6-94 6

✓ 2-6-87 - 6-79 9

✓ 3-6-63 - 6-75 13

✓ 4-6-61 - 6-46 16

✓ 5-6-24 - 6-41 18

✓ 6-6-21 - 6-04 18

✓ 7-5-77 - 5-94 18

✓ 8-5-73 - 5-41 30

✓ 9-5-12 - 5-36 20

10-5-11 - 5-06 + 4-97 to 4-77

6 + 21

✓ 11-4-41 - 4-68

✓ 12-4-102 - 4-98 + 4-13-4-03

+ 3-95-3-87 5+11+9

✓ 13-3-126 - 3-97 30

✓ 14-3-49 - 3-27 23

omit 15-2-80 - ~~3-12-94~~ + (3-07-3-11)

✓ 16-2-73 - 2-51 15+5=20 ↑

✓ 17-2-37 - 2-19 19

✓ 18-1-113 - 1-120 8

✓ 19-1-74 - 1-66 all market 9

Wash to 20-

Kewanee Co

1	3-70	3-100	31	31
2	3-67	3-37	31	31
3	3-3	3-33	31	31
4	2-93	2-61	33	33
5	2-28	2-56	29	29
6	2-24	2-05 + 1-90 - 1-78	20 + 13 = 33	33
7	1-45	1-73	29	29
8	1-40	1-25	16	16
9	1-10	1-17	8	8
10	1-6	1-02	5	5

246

Brown Co

3	7-70	7-62	9	9
4	6-92	6-55 + 7-03 - 7-11	4 + 9 = 13	13
5	6-88	6-71	18	18
6	6-14	6-35	22	22
7	5-56	5-79 + 4-81 - 4-76	24 + 4 = 28	28
8	4-28	4-54	27 27	27
9	4-21	4-01 + 3-61 - 3-55	21 + 6 = 27	27
10	1-68	1-86 + 2-19 - 2-04	19 + 16 = 35	35
11	1-63	1-36	28	28
12	1-03	1-32	30	30

13 on border - same as 1 of Kewanee

237

THE UNIVERSITY OF WISCONSIN

The Graduate School

April 3, 1947

Professor Fredrik T. Thwaites:

The Research Committee has given careful consideration to your request for 1947-48 and is recommending to the Regents of the University that you be allotted \$ 350 from research funds, to be distributed as follows:

RF47:312 Investigation of the glacial deposits
of part of northeastern Wisconsin

Supplies 350

("RF" preceding the fund number indicates the grant is supported by funds from the Wisconsin Alumni Research Foundation.)

Research Assistants (Salary amounts will be \$1,000 on the twelve months' basis and \$800 on the academic year basis.)

1. Twelve months' appointments, indicated by an "A" preceding the salary amount will be paid on a calendar month basis. The first check will be available on August 8.

Appointees are entitled to one month's vacation to be taken at the convenience of the supervisor of the project.

Withholding tax will be deducted each month in accordance with the employee's withholding exemption certificate filed in this office.

2. Academic year appointments, \$800 for the period September 19, 1947, to June 19, 1948, will be paid in ten installments; the first check will be available on October 8.

Appointees are not entitled to a vacation period.

Withholding tax will be deducted each month in accordance with the employee's withholding exemption certificate filed in this office.

Administration of the grant. If the personnel is not listed above, it will be necessary to send to the Graduate School Office the regulation Regent appointment blank before the appointee is eligible to start work. Complete information as to college training should be included. An appointment blank is not necessary for any person whose name appears above. Any change in the above budget set-up must have the approval of the Research Committee and the Regents.

At a later date, detailed information will be sent to you regarding payrolls, requisitions, etc.

C. A. ELVEHJEM
For the Research Committee

PLEASE INFORM YOUR DEPARTMENT SECRETARY OF THE DETAILS OF
THIS GRANT IF SHE IS RESPONSIBLE FOR PAYROLLS, etc.

INFORMATION REGARDING THE ADMINISTRATION
of Research Grants

Please keep on file

June 10, 1947

Requisitions, Invoices, etc. All purchases made with research funds must be handled through regular channels. Duplicate copies (WHITE AND YELLOW) of requisitions for material or services should be sent to the Graduate School Office for approval. The Director of Business and Finance has forms for requesting purchasing information through the Purchasing Department rather than direct inquiry to vendor. In many cases you will save time by requesting this information before writing requisitions. No confirming orders can be accepted.

PLEASE KEEP WITHIN YOUR ALLOTMENT OF FUNDS FOR
SUPPLIES AND DO NOT REQUEST TRANSFER OF FUNDS.

Payrolls Please give the enclosed payroll blanks to the person responsible for research payrolls.

Research Assistants) Payroll due in Graduate School Office on the 10th of
Post Doct. Fellows) each month; checks available on the 8th of the
Research Associates) following month.

Hourly help. Payroll due on the last day of each month; checks available on the 13th of the following month. Please check CAREFULLY all names submitted on the hourly payroll in order to prevent certifying more hours than the student may earn in any one month on one or more payrolls. Also check names to make sure they have student status. For the period October through May students may earn \$80 a month; for the months of June, July, August and September students may earn \$100 a month.

Research Assistants

Recommendations for appointment of personnel not listed in the notification of your research grant previously sent to you should be in the Graduate School Office in advance of the beginning of the appointment. Unless special arrangements are made, twelve-month (A) appointees will begin work on July 1 and continue through June 30, devoting eleven months to research studies with one month vacation. Academic year appointees will begin work September 22 and continue through June 19. Academic year appointees are not entitled to a vacation period. If their research work so requires, all assistants shall be on duty during vacation periods within the school year. Research assistants starting work later than the times specified above will be subject to deduction in salary according to the actual beginning date.

- - - - -

The signature of the person to whom the research allotment has been granted should appear on all appointment blanks, payrolls, requisitions and invoices, rather than that of the departmental chairman. Please type in the name of the project supervisor on all blanks since the signature alone does not come through clearly on all copies.

Graduate School Office

PLEASE KEEP THIS OFFICE INFORMED OF ANY CHANGES IN PERSONNEL
SINCE THE NOTICE OF THE RESEARCH GRANT WAS SENT TO YOU

WAP 7

J.T.T.

Title : Investigation of the glacial deposits of part of northeastern Wisconsin

Procedure: The project involves the completion of ^{study and} mapping of the glacial deposits of northeastern Wisconsin southeast of Fox River and Green Bay and north of latitude 44, in part in the field but to a considerable extent in the office here. Some field work has already been done by the undersigned in 1922 and at other times in connection with field trips to part of this area for Glacial Geology classes. Work was also done by Kenneth Bertrand in 1936 and by L. R. Wilson prior to that. Their data will be available for a final report. It is planned to make extensive use of aerial photographs in this work. This aid was not available at the time of earlier studies. This area contains the intraglacial "buried forest" of the Two Creeks area and it is hoped that further light can be cast on its significance and extent. The northern terminus of the famous Kettle Moraine also lies in the district and has never been studied in detail. To make a topographic map of the area it is planned to establish many control elevations with barometer which will permit drawing of a much more accurate small scale map of the area than has ever been attempted before. See report on Pleistocene of part of northeastern Wisconsin, Bull. Geol. Soc. of America, vol. 54, pp. 87-144, 1943. To make such a map it is necessary to mark on the aerial photographs and to trim the margins which effectually prevents use of borrowed prints.

Financial support: No request is made either for salary or field expenses, but only for the purchase of about 1400 vertical aerial photographs from either the Agricultural Adjustment Administration or the State Highway Commission, total cost about \$350.00. It is expected that field and office work to complete a final report will take at least two years. Support for field work of this type was withdrawn by the State Geological Survey in 1929. Completion of the project then begun was financed by a grant from the Geological Society of America.

The photographs will be used for students after completion of the project. Publication will be by Geological Society of America

Respectfully submitted,

The Univ. Res. Com
Grad. Sch
Bascom Hall

Gentlemen

Request for grant-in-aid by
Fredrick P. Shovaites.

Wisconsin Highway Commission

Aerial photographs

Washington Island

Flight 20 - 1-39 to 1-47
" 21 - 1-104 to 1-97
" 22 - 1-11 to 1-20

Omit Rock Island

Door County

Flight 1 6-89 to 6-94
" 2 6-87 to 6-79
" 3 6-83 to 6-75
" 4 6-61 to 6-46
" 5 6-24 to 6-41
" 6 6-21 to 6-04
" 7 5-77 to 5-94
" 8 5-73 to 5-41
" 9 5-17 to 5-36
" 10 5-11 to 5-06
4-97 to 4-77
" 11 4-41 to 4-68
" 12 4-102 to 4-98
4-13 to 4-03
3-95 to 3-87
" 13 3-126 to 3-97
" 14 3-49 to 3-27
" 15 2-80 to 2-94
3-07 to 3-11
" 16 2-73 to 2-51
" 17 2-37 to 2-19
" 18 1-113 to 1-120
" 19 1-74 to 1-66

Kewaunee County

Flight 1 3 -70 to 3-100
" 2 2-67 to 3-37
" 3 3-3 to 3-33
" 4 2-93 to 2-61
" 5 2-28 to 2-56
" 6 2-24 to 2-05
1-90 to 1-78
" 7 1-45 to 1-73
" 8 1-40 to 1-25
" 9 1-10 to 1-17
" 10 1-6 to 1-02

Brown County

Flight 3 7-7- to 7-62
" 4 6-92 to 6-95
7-03 to 7-11
" 5 6-88 to 6-71
" 6 6-14 to 6-35
" 7 5-56 to 5-79
4-81 to 4-78
" 8 4-28 to 4-54
" 9 4-21 to 4-01
3-61 to 3-55
" 10 1-68 to 1-86
2-19 to 2-04
" 11 1-63 to 1-36
" 12 1-03 to 1-32
" 13 On border, same as 1 of
Kewaunee

Manitowoc County

Flight 1 7-15 to 7-05
6-77 to 6-68
" 2 6-45 to 6-64
" 3 6-03 to 6-23
" 4 5-16 to 5-33
" 5 5-11 to 5-01
4-94 to 4-74
" 6 4-25 to 4-56
" 7 4-20 to 4-05
3-34 to 3-45
" 8 2-63 to 2-94
" 9 2-59 to 2-30
" 10 1-52 to 1-96
2-03 to 2-12
" 11 1-79 to 1-61
" 12 1-101 to 117
" 13 1-32 to 1-16
" 14 1-03 to 1-10

Outagamie County

Flight 10 4-29 to 4-31
" 11 3-48 to 3-51
" 12 4-25 to 4-21
" 13 3-02 to 3-06
" 14 1-02 to 1-10

Calumet County

Flight 5 3-69 to 3-75
5-17 to 5-09
5-74 to 5-69
" 6 3-65 to 3-44
" 7 3-04 to 3-25
" 8 2-95 to 2-73
" 9 2-30 to 2-50
" 10 See Manitowoc

January 3, 1955

Request for Grant-in-Aid

Dean C. A. Elvehjem
Research Committee
Graduate School
Bascom Hall

Dear Dean Elvehjem:

1. Pleistocene of the Door Peninsula, Wisconsin. The title of this study, for which funds were granted as RF47:312, was originally "Investigation of the glacial deposits of part of northeastern Wisconsin", but was changed to avoid confusion. The area reported on is important in two ways: first, it completes the detailed mapping of the glacial deposits of the Green Bay and Lake Michigan lobes in Wisconsin, and second, it contains the type locality of the Two Creeks Forest Bed whose dating by the radiocarbon method is now the cornerstone of glacial chronology.

2. No report on this project has been requested for several years. Field work has now been completed. The final maps, of geology and of topography, as well as the manuscript of the report are ready to send to the Geological Society of America for publication. However, some problems have arisen in connection with the preparation of the topographic map of the area. When the project was started, very little of the topography of this area had been surveyed. Since 1951, however, the U. S. Geological Survey has begun topographic maps using funds from the U. S. Army. One quadrangle was published in 1954. In view of this fact, we find it no longer feasible to request that the map, which Dr. Bertrand and I made from the air photographs, be published in color. Instead, it is necessary to redraft our map, omitting roads so that it can be published in black only. However, we are holding out for a colored geological map. For this map it is necessary to prepare separate copies for each of the four colors as guides to the engineers. Only the copy for black is now complete.

3. The reason for the long delay since 1948 in completing this project is the lack of funds for any help. It was necessary to do all the work ourselves and to pay for the field work. This conflicted with other duties. We now desire funds to complete the drafting which work can be done on our campus. The work would be done during the editing of the manuscript and would not delay publication.

4. The estimated cost of the drafting, including preparation of the color separation copies is approximately \$400.00.

5. The selection of a draftsman has not yet been made.

F. T. Thwaites

May 16, 1955

REPORT ON RESEARCH PROJECTS
for the
FISCAL YEAR 1954-55

- I. Name F. T. Thwaites Dept. Geology Proj. No. R. F. 47:312
Title of project Pleistocene of Door Peninsula
- II. Personnel: Working with Dr. Kenneth Bertrand, Catholic University, Washington 17 D. C., who was a former student of mine.
- III. Statement of other financial support, if any, for this project:
A gift of \$50.00 from Bruno Hartman, Consulting Engineer, Sheboygan.
Grant R. F. 54: 295 both of above applied to drafting *Printer Fee did most of the work.*
- IV. Brief statement of specific progress made during the year:
The manuscript and maps are done and ready for publication by Geological Society of America
- V. Publications that have appeared in print from July 1, 1954, to June 30, 1955.
none
- VI. Manuscripts accepted for publication but not yet printed:
Manuscript of Pleistocene geology of Door Peninsula, Wisconsin now in hands of Geological Society of America. Has passed one critic

The pink copy should be returned to the Graduate School Office on or before August 1, 1955. The blue copy is for your file.

THE UNIVERSITY OF WISCONSIN
OFFICES OF BUSINESS ADMINISTRATION

Madison 6

July 29, 1954

Vice President
Business and Finance

Trust Officer

Professor Frederik T. Thwaites
211 Science Hall

Dear Professor Thwaites:

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

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

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

Yours very truly,

H. F. Kroening, Assistant
to the Vice President

HPK/mst

Enc.

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


SPECIAL CONTRACT FOR SPECIAL SERVICES

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

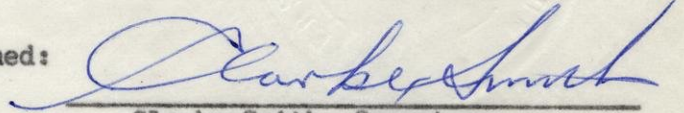
This contract is made pursuant to rules adopted by the Regents in June 1937, providing for employment of retired members of the faculty for special services on special contract at the discretion of the Regents, but not as members of the regular staff.

Signed: THE REGENTS OF THE UNIVERSITY OF WISCONSIN

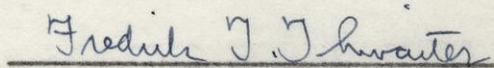
By:


A. Matt. Werner, President


Countersigned:

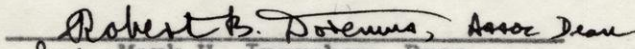

Clarke Smith, Secretary

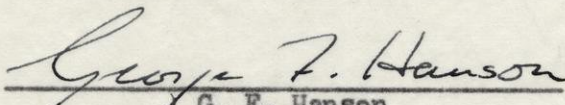
Signed:


Frederik R. Thwaites

APPROVED:


E. B. Fred, President
University of Wisconsin


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


G. F. Hanson
State Geologist

THE UNIVERSITY OF WISCONSIN
OFFICES OF BUSINESS ADMINISTRATION

Madison 6

June 21, 1954

Vice President
Business and Finance

Trust Officer

Mr. George F. Hanson
State Geologist
115 Science Hall

Dear George:

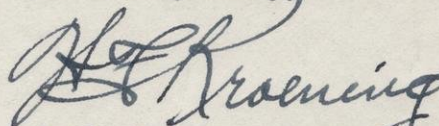
Enclosed are six copies of a special service contract for the employment of Assistant Professor Emeritus Frederik T. Thwaites for 1954-55.

We request that you obtain Professor Thwaites signature on all copies, that you sign all copies yourself at the place indicated, and forward them to Dean R. B. Doremus for his signature on behalf of Dean Ingraham.

Dean Doremus will then return all copies to this office for the signature of Regent President A. Matt. Werner and Regent Secretary Clarke Smith.

After all signatures have been affixed, a fully executed copy will be returned to Professor Thwaites, to you, and to Dean Doremus.

Yours very truly,



H. F. Kreening, Assistant
to the Vice President

HFK/mst

Enc.

cc: Dean R. B. Doremus

Thwaites F.T.

June 2, 1954

Mr. H. F. Kroening
Assistant to the Vice President
171 Bascom

Dear Mr. Kroening:

I am returning the rough draft of the special contract of the employment of Prof. Thwaites which seems to me to be quite in order and I have no changes to offer.

Very truly yours,

WISCONSIN GEOLOGICAL SURVEY

State Geologist

GPH:ac

THE UNIVERSITY OF WISCONSIN
OFFICES OF BUSINESS ADMINISTRATION

Madison 6

May 28, 1954

Vice President
Business and Finance

Trust Officer

Dean Robert B. Doremus
Mr. George F. Hanson

Gentlemen:

Enclosed is a rough draft of a special contract for the employment of Professor Frederik T. Thwaites. Will you please check this contract, make such changes as you feel are necessary, and return it to me by June 4 so that it may be presented to the Regents at their June meeting.

Yours very truly,



H. F. Kroening, Assistant
to the Vice President

HFK/mst

Enc.

April 19, 1954

Prof. S. A. Tyler
229 Science Hall

Dear Prof. Tyler:

The other day I was talking to Dr. Baldwin concerning the retaining Prof. Thwaites as geologist with the Survey after he reached retirement age. As you also wish to retain him on the teaching staff of the Geology Department during 1954-55, he suggested that we file our requests together. I am therefore enclosing a statement of my reasons for desiring to retain him with the Survey which I wish you would append to yours when forwarded to Dean Ingraham.

Very truly yours,

WISCONSIN GEOLOGICAL SURVEY

State Geologist

GPH:ac
Enc.

c/c Dean Ingraham

April 19, 1954

It is requested that Prof. Thwaites be retained in the capacity of Geologist in Charge of Well Records by the Wisconsin Geological Survey for the year 1954-55 on a half-time basis.

The work of Prof. Thwaites in examining well cuttings and preparing well logs is not only essential to the cooperative program of ground water investigations between the University and the United States Geological Survey, but is a public service to the well drillers, industries, and municipalities of the state who look more and more to this source for reliable information.

The accuracy of Prof. Thwaites' work is the result of more than forty years experience with the subsurface geology of the state. His position could only be filled by a permanent, full-time employee. It is proposed to request funds to hire such a full time geologist, to be trained under Prof. Thwaites, when the 1955-56 budget is submitted and new biennial appropriations are made. Until a replacement is hired and trained in this highly specialized field, the services of Prof. Thwaites remain invaluable to the state.

George F. Hanson
State Geologist

Spec. Service Contract permitting F.T.T.
to work. Get in touch with ^{Wagner} Baldwin.

*Received
Nov. 7th
Thwaites, T. T.*

December 8, 1953

Prof. F. T. Thwaites
Department of Geology
211 Science Hall
Madison 6, Wis.

Dear Prof. Thwaites:

I am in receipt of your letter of December 1 regarding the printing of "a topographic map" to accompany your report on the Door Peninsula. This is more than "a map"; it is the only topographic map that we have of this area or are likely to have for many years to come. Of course I believe it should be printed in three colors.

As you well know, I consider it very regrettable that the Survey presently lacks funds for the adequate support of such work and for the publication of the results; however, if I can be of any help in arranging the cartography to be done through the Survey, I will be only too happy to do so.

Very truly yours,

WISCONSIN GEOLOGICAL SURVEY

State Geologist

GFH:ac

THE UNIVERSITY OF WISCONSIN
MADISON 6

DEPARTMENT OF GEOLOGY

December 1, 1953

Mr. G. P. Hanson
115 Science Hall
University of Wisconsin
Madison 6, Wisconsin

Dear Mr. Hanson:

I am enclosing a sample section of a topographic map which is to accompany a report by Dr. Kenneth Bertrand of Catholic University, Washington, D. C., and myself on the Pleistocene of the Door Peninsula, Wisconsin. The map has a contour interval of 50 feet and is to be published at about half the present scale, that is at 1/250000. At present the map is in black only. It is based on air photography and extends from latitude 44 to Washington Island, east of Lake Winnebago and Fox River.

The question is whether it will be of sufficient interest and value to justify publication in three colors like U.S.G.S. topographic sheets. If this is done the map would have to be photographed in light blue and the several copies inked in each to show a different color. I have arranged to have this done. At present the map is hard to read for the contours are easily confused with roads and streams.

If you feel that this map would justify the extra expense and that it would be of help to you if put into better form, would you please write a letter addressed to me, sending two copies. I will then forward the original to Dr. H. R. Aldrich, Secretary of the Geological Society of America and keep the copy for my file.

Anything you can do to help this project, which has been carried on for a number of years with almost no financial support, will be greatly appreciated.

Very truly yours,

F. T. Thwaites

F. T. Thwaites

map in my office

2/10/53
Thwaites

July 8, 1953

Prof. Thwaites:

Received a letter from Raasch of the Illinois Geological Survey saying that a new process of pressure blasting oil wells had resulted in a great demand for well-rounded, non-ferruginous sand coarser than 30 mesh. The best apparently available in Illinois is the St. Peter at Ottawa with only a 20% retention on the #30 mesh. He suggested coarser sands in the Ironton, Mt. Simon and Upper Jordan in Wisconsin. Is there any information that you might have available on this?

George

*Be
m
(Thwaites)*

February 19, 1952

MEMO

TO: F. T. Thwaites

FROM: E. F. Bean

I am turning over to you samples from two test holes .
drilled near the center of the SE of the SE of section 7, T.41, R.13W.
No. 1 is on the north bank approximately 15 feet down stream from the
center line of the proposed dam. No. 2 is approximately 67 feet up
stream from the center line of the proposed dam.

THE REGENTS OF THE UNIVERSITY OF WISCONSIN
- Office of the Secretary -
171 Bascom Hall
Madison 6

August 31, 1951

Prof. Frederik T. Thwaites
Science Hall

Dear Prof. Thwaites:

The Regents of the University of Wisconsin have fixed your
salary as assistant professor of Geology at
\$4,273* for the academic year 1951-52.

Yours very truly,

2

Clarke Smith, Secretary

*
Includes \$320 on the annual basis from the Department of the State
Geologist.

E. F. Bean, State Geologist - 1
Dean Ingraham - 2

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