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About the Institute

The Hunt Institute for Botanical Documentation, a research division of Carnegie Mellon University, specializes in the history of botany and all aspects of plant science and serves the international scientific community through research and documentation. To this end, the Institute acquires and maintains authoritative collections of books, plant images, manuscripts, portraits and data files, and provides publications and other modes of information service. The Institute meets the reference needs of botanists, biologists, historians, conservationists, librarians, bibliographers and the public at large, especially those concerned with any aspect of the North American flora.

Hunt Institute was dedicated in 1961 as the Rachel McMasters Miller Hunt Botanical Library, an international center for bibliographical research and service in the interests of botany and horticulture, as well as a center for the study of all aspects of the history of the plant sciences. By 1971 the Library's activities had so diversified that the name was changed to Hunt Institute for Botanical Documentation. Growth in collections and research projects led to the establishment of four programmatic departments: Archives, Art, Bibliography and the Library.

THE PENNSYLVANIA STATE UNIVERSITY
DEPARTMENT OF GEOSCIENCES
PALYNOLOGICAL LABORATORIES
307 DEIKE BUILDING
UNIVERSITY PARK, PA 16802, USA
Phone: (814)863-3419; Fax: 814-863-7823
E-Mail: traverse@ems.psu.edu

17 March, 1999

Dr. Alan Graham
Department of Biological Sciences
Kent State University
Kent, OH 44240

Dear Alan:

Just am in course of sending off the Jan. 99 **Amer. J. Bot.** to the small college library to whom I donate them. I read your two articles with interest, and I write again, as I did on 6 Nov. 1998, requesting that you honor me with reprints thereof. I suspect that letter had to do with different AJB articles, but with my *pied de terre* here at PSU consisting only of a desk, computer and a few reference books, I can't check.

You seem to be still very active and productive. Hope we'll run into each other somewhere. International Botanical Congress?

Best.

Alfred Traverse
Professor Emeritus of Palynology

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6 November, 1998

Dr. Alan Graham
Department of Biological Sciences
Kent State University
Kent, Ohio 44240

Dear Alan:

Just read with great interest your articles in the current Amer. J. Bot. Hope you will be sending me reprints because I am now sending off journals to various libraries after reading them. I now have a very tiny office at PSU, and although we built an addition on our home to provide a home office/lab, there really isn't room to shelve all the journals I get. Messiah College in Grantham, PA, for example, is delighted to get my AJB, Taxon, and some others.

Speaking of reprints, your card informs me that I haven't sent you the latest from here, so I enclose them. Regards to Shirley. It sure would be good to visit the Puffer Belly, if it still is in business.

Best wishes.

Alfred Traverse
Professor Emeritus of Palynology

Encl.: reprints

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E-Mail: traverse@ems.psu.edu

13 August, 1997

Dr. Alan Graham
Department of Biological Sciences
Kent State University
Kent, Ohio 44240

Dear Alan:

How nice to hear from you again--and with a bunch of papers to entertain me too.

I have read all of the papers today with interest. The two that happened to interest me the most were the fascinating study of Hollick and his work in P. R., and your contribution on the geologic history of the Compositae. You have done some very interesting things, for sure.

All the best to you and Shirley. I enclose a few reprints.

Yours very truly,

Alfred Traverse
Professor Emeritus of Palynology

enclosures: reprints

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E-Mail: traverse@ems.psu.edu

29 March, 1996

Dr. Alan Graham
Department of Biological Sciences
Kent State University
P. O. Box 5190
Kent, OH 44242-0001

Dear Alan:

The package came and your nice letter--but no new e-mail address per promise. Just send me a note using the one above, and I'll be in contact that way.

None of this rings a bell with either of us, and searches of things that were packed up to go to California with us in Dec. (in case we got snowed in in some motel--didn't ever happen) have been fruitless. Mystery.

I have read your MS this a. m. and marked it with red pen. Am returning that herewith to conserve time. I hope you can decipher my scrawl. Thank God I noticed that you hadn't numbered the pages, and I made that first order business, because I dropped it all on the kitchen floor while reading it at breakfast.

Now that I've read the whole thing, I see that in general you did o. k. When I started I was upset through about 6 pages because there are lots of generalizations there that aren't true or are only partly true, and these are things that are explained neatly in my Paleopalynology, or in a few cases in my Sedimentation of Organic Particles. (Cambridge Univ. Press, 1994) I presume you have them available. The index of Paleopal. is very good, I think, for narrowing in on particular subjects. I was, for example, put off right away by your defining paleopal. as botanical (on later pages I found out that you do indeed know better). In my opinion, pp. 1-6 need careful revision. After that it goes much better, and even some of the points that seemed to be poorly treated at the beginning are cleared up. Trouble is that many readers will read only the first parts of chapters.

Please accept this no-holds-barred critique as an effort to help. I have long since, for my part, become quite nonchalant about such matters and hope you have too.

Regards to both of you. Betty and I both thought of you when we

Regards to both of you. Betty and I both thought of you when we attended the PSU vs. KSU basketball game a few weeks ago. Kent sent a large crowd of supporters, and their "Kent State" shouts were so much like our "Penn State" yells that it was funny.

Yours very truly,

Alfred Traverse

enclosure: MS

December 4, 1995

Dr. Alfred Traverse
Dept. Geosciences & Biology
Pennsylvania State University
Deike 435
University Park, PA 16802

Dear Al:

I have just completed an extended version of the chapter on Late Cretaceous and Cenozoic History of North American Vegetation that appeared in the Flora of North America. I have enclosed some of the background information on paleopalynology and would value your comments.

I just finished reading Ken Hsü's book on the Challenger where his friendship with you at Shell figured so prominently. Very nice!.

Best regards,

Alan Graham, Professor
Biological Sciences & Geology

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435 DEIKE BUILDING
UNIVERSITY PARK, PA 16802, USA
Phone: (814)863-3419; Fax: 814-863-7823
E-Mail: traverse@ems.psu.edu

13 January, 1995

Dr. Alan Graham
Department of Biological Sciences
Kent State University
Kent, OH 44242

Dear Alan:

Thanks so much for the great batch of reprints:
Neotropical...waters; Contribution...Jamaica;
Utilization...climate; ...Lagerstroemia...;
Pliocene...comparisons; Flora of North America. I have just
finished reading them with great pleasure and profit.

I never seem to get around to general mailouts, but enclosed is
what I have at the moment that your card says I've never sent
you.

Best to you and Shirley for 1995.

I'm hoping that the Pufferbelly (?correct name) will still be in
business when I make it back to Kent!

Yours very truly,

Alfred Traverse

encl.: reprints

THE PENNSYLVANIA STATE UNIVERSITY
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Phone: (814)863-3419; Fax: 814-863-7823

24 February, 1993

Dr. Alan Graham
Department of Biology
Kent State University
Kent, OH 44240

Dear Alan:

Thanks for the recent batch of your papers--good to see you're so active! Very interesting mailing too. I enclose a couple of things that might be of mild interest.

Best wishes, also to Shirley.

Yours very truly,

Alfred Traverse

AT/et
encl: reprints

THE PENNSYLVANIA STATE UNIVERSITY
DEPARTMENT OF GEOSCIENCES
PALYNOLOGICAL LABORATORIES
435 Deike Building
University Park, PA 16802
(814)863-3419 or (814)865-6711

23 January, 1989

Dr. Alan Graham
Department of Biology
Kent State University
Kent, OH 44240

Dear Alan:

Thanks for the packet of four reprints from some time ago--
finally just read yesterday in the airport in Benton Harbor, MI!
The three from AJB-1987 I had seen but have read again with
interest--and it's nice to have my own copies. The RPP-86 biblio
paper I had not seen--wow, what a valuable piece of work!

Best, also to Shirley.

Yours very truly,

Alfred Traverse

AT/et

KENT STATE
UNIVERSITY

KENT, OHIO 44242

DEPARTMENT OF
BIOLOGICAL SCIENCES
(216)672-3613

February 21, 1986

Dr. Alfred Traverse
Department of Geosciences
Pennsylvania State University
435 Deike Building
University Park, Pennsylvania 16802

Dear Al:

I am sorry to bother you with so trivial a matter, but I am in need of a photocopy of an article in a journal we do not get at Kent State. If it is not too much trouble, I would appreciate a copy of the following from your reprint collection or geology library. Thanks very much.

Alan Graham

Alan

Vail, P. R. & J. Hardenbol. 1979. Sea level changes during the Tertiary. *Oceanus* 22: 71-80.

↑
sent 27-II-86

1/12/85

Al: Barber's dissertation received in good
shape today.

Thanks.

Alan

Graham

18 January, 1985

Dr. Alan Graham
Department of Biology
Kent State University
Kent, OH 44240

Dear Al:

Just spent a few fruitless minutes in our library trying to arrange to borrow Barker's thesis (Palynology of Admire Group....) through Kent State library. Seems they won't lend it--we can get a microfilm, but I want to study the plates especially. I have a project in New Mexico on materials of about the same age.

To make a long story short--would you loan me your copy, or lend me the library's (an indiscretion I would never betray)? I would return it in a couple of weeks.

Thanks again for a neat day at KSU.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

26 December, 1984

Dr. Alan Graham
Department of Biology
Kent State University
Kent, OH 44240

Dear Alan:

Just a word to say thanks for your help, and for a very nice day with you! From a social point of view I would especially like to comment on the Pufferbelly--I would drive miles out of the way to visit that again. The fish dinner at the other place was also fun!

All the best to you and Shirley for a great '85.

As ever,

Alfred Traverse
Professor of Palynology

AT/et

19 November, 1984

Dr. Alan K. Graham
Biological Sciences Department
Kent State University
Kent, OH 44242

Dear Alan:

Just to put it ~~in~~ writing: my grad student, David Rue, and I will arrive Sunday, 16 December, probably circa 8:00 p.m. Unfortunately, I have a makeup final that afternoon at 2:00 p.m. for two students who had conflicts for the palynology exam. We will probably get away at 3:30 or so (Betty will pick up the exams at 4:30, but I'd better stick around until I'm sure it's o.k. to leave). I'd say not to worry about us on Sunday, except for the reservation at the Kent Motor Inn. We'll see you Monday a.m. at 10:00 (to give you a chance to look at your mail, etc.). We'll depart Tuesday a.m. for PSU.

See you. All the best.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

April 24, 1984

Dear Al: Many thanks for the slides from MO
material which arrived in good condition today

AS

Best regards,

Alan

Alan Graham, Professor
Biological Sciences

AG

18 April, 1984

Dr. Alan Graham
Department of Botany
Kent State University
Kent, OH 44240

Dear Alan:

Under separate cover, I have sent you pollen slides from ten species of plants from the Missouri Botanical Garden Herbarium, per request of Ms. Nancy R. Morin, administrative curator at MBG. With this letter I enclose a xerox copy of the covering card for each specimen. The process used was acetolysis, the mountant glycerin-jelly. There is additional glycerin-jelly residue to make more slides. We are packing with great care, but let me know if anything happens to any slide in shipment, so we can replace it.

Best regards.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et
cc: Ms. Nancy R. Morin, MBG

16 March, 1983

Dr. Alan Graham
Department of Biology
Kent State University
Kent, OH 44240

Dear Alan:

Thanks for the reprints of your, as always, interesting research. Also, I was interested, of course, in Shirley's victory.

Best wishes.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

KENT STATE
UNIVERSITY

KENT, OHIO 44242

DEPARTMENT OF
BIOLOGICAL SCIENCES
(216) 672-2266

February 23, 1979

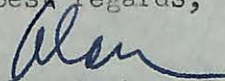
Dr. Alfred Traverse
Department of Geosciences
Pennsylvania State University
University Park, Pennsylvania 16802

Dear Al:

I was pleased to learn you may be with the fungal spore workshop group that will meet in Kent the first week of May (date changed from one given in the Newsletter). I am preparing a packet of materials detailing the event, and an initial copy will be sent Monday to Bill Elsik for his perusal. Soon thereafter I will mail out copies to all who express an interest in attending (you make number 13 so far). I hope to have these out within the next two weeks.

I look forward to having the group here, and the chance to vist with friends, like yourself, I get to see on too rare an occassion.

Best regards,


Alan Graham, Professor
Biological Sciences &
Geology

13 December, 1982

Dr. Alan Graham
Department of Biology
Kent State University
Kent, OH 44240

Dear Alan:

Good to hear from you, per yours of 30 November. Re "Freeport coal", I have discussed the subject and your letter with Alan Davis, our professor for coal petrology. Alan says he doesn't know of any recognized "type locality" for the Freeport coal or for coals in general, for that matter. He has given me two samples of the Freeport coal from PA and I have sent these samples to you under separate cover. The Freeport has been studied palynologically here by several people, but not in depth. (There have been two theses--Ph.D. by Dan Habib and M.Sc. by Peter Groth--on various palynological aspects of the Lower Kittanning coal.) There is a whole box of slides from the "freeport coal" antedating my arrival here, but I just looked at them, and they are all absolutely ruined. Whether there are accompanying residues, we are not sure--I haven't found them.

One of my advanced palynology students (not a palynologist) several years ago did a term paper on the "Upper Freeport", and we could make slides of his three samples for you, if you're interested. They were done long enough ago that the residues need to be reworked. It would be a good job for one of the work-study people to do, at \$10 per sample (I have to pay them \$4.00 an hour out of my own pocket). If interested, just send an order for two slides each of the three samples @ \$10.00 per sample=\$30.00. I send herewith a xerox copy of the student's term paper for you to determine whether you're interested. The paper would also provide the data for the slides when they arrived, if you order them. Professor Davis agrees that correct approach for all of your analyses--1) proximate and 2) ultimate chemical analysis, and 3) reflectance measurement--is to send the samples to:

Commercial Testing & Engineering Co.

P.O. Box 808 (or 5793 MacCorkle Ave., if you need street address
Charleston, WV 25323 for shipment by U.P.S.)

That is how he gets his done routinely. It is far too time-consuming and thus expensive for the coal petrology lab to do its own, except for urgent research purposes.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

cc: Dr. Alan Davis

encl: xerox of Hohos' Freeport coal paper

KENT STATE
UNIVERSITY

KENT, OHIO 44242

DEPARTMENT OF
BIOLOGICAL SCIENCES
(216)672-3613

November 30, 1982

Dr. Alfred Traverse
Department of Geosciences
Pennsylvania State University
435 Deike Bldg.
University Park, Pennsylvania

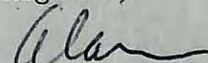
Dear Al:

I have a graduate student working on the Freeport coal in Ohio. I was wondering if you might have around the lab any slides, vial material, or even unprocessed material from the type locality in Pennsylvania? If so, I would be most grateful to borrow this for a few months to compare with palynomorphs from our Ohio material.

Also, in reading the literature I gather that are some routine chemical tests that are often run on coal for general characterization. I am not familiar with how these are done, so my request might be quite unrealistic. If these are not too complicated, and are being done routinely in the coal petrology lab at Penn State, do you think it would be possible for us to slip in a sample for physical and chemical property analysis? Again, I would be grateful for the help.

It was good seeing you, even so briefly, at the meetings; enclosed are some reprints I hope will be of interest.

Regards,



Alan Graham, Professor
Biological Sciences & Geology

23 February, 1979

Dr. Alan Graham
Department of Biology
Kent State University
Kent, OH 44240

Dear Alan:

I just got a letter from Jan Jansonius urging me to attend the fungal spore seminar (or whatever)--I would like to try to do that, but I don't know that I ever heard from my inquiry about it. Is it full, or something?

Best wishes.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

12 February, 1979

Dr. Alan Graham
Department of Biology
Kent State University
Kent, OH 44240

Dear Alan:

Can you provide me with information about the fungal spore, etc. symposium at Kent State which you are sponsoring in April? Perhaps I will receive materials about it in due course through normal channels, and if so please ignore this letter!

Best wishes to you. I hope I can arrange to attend.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Esbeck
Fidelity Union Skin
DOZ/STATION

June 5, 1973

Dr. Alan Graham
Dept. of Biological Sciences
Kent State University
Kent, Ohio 44242

Dear Alan:

Thanks for your letter of 27 May, which took only four days to get here. I am not your man as far as England Slide Finder coordinates is concerned. You are right that I once published a paper on the subject of locating fossils on mixed slides, but it was a technique of my own involving locating the fossils with reference to a fixed point on the slide (still a darned workable idea as far as I am concerned). Just in case the subject might be of some mild interest, I enclose a reprint!

Best wishes to you. I am much impressed with your continuing research and remember with great fondness that "I knew you when".

Yours very truly,

Alfred Traverse
Professor of Geology & Biology

AT/vsi
Enclosure: reprint

KENT STATE
UNIVERSITY

KENT, OHIO 44242

DEPARTMENT OF
BIOLOGICAL SCIENCES
(216) 672-2266

May 27, 1973

Dr. Alfred Traverse
Department of Geology and Geophysics
Pennsylvania State University
University Park, Pennsylvania

Dear Al:

In some recent publications I have made mention of England Slide Finder coordinates. Several people have asked me about them and suggested I give more information about their use in future papers. I have in the back of my mind a vague recollection of seeing a paper (perhaps in Micropaleontology?) and possibly by yourself (?) on the subject. I have all the information on suppliers, but if you know of any publication on the use of the slide I would be grateful for the reference.

Sincerely,

Alan

Alan Graham, Professor
Biological Sciences

June 1, 1976

Dr. Alan K. Graham
Dept. of Biological Sciences
Kent State University
Kent, OH 44240

Dear Alan:

Thanks for the interesting paper on the Mexico palynoflora--I was especially "turned on" by the data on *Picea* in the Miocene. I find abundant *Picea* in some of the pre-glacial (Miocene or early Pliocene) parts of the Black Sea cores--where as it is not common in the glacials where I would have expected it. I find this puzzling.

Thanks also for the stupendous list of pollen preps--it reminded me of the days in the long ago when you used to come to 3737 Bellaire Blvd. and be impressed with my reference collection which has remained comparatively static (doubled, to about 2000 spp.) in the meantime. I will probably have occasion to offer exchanges one of these days. In the meantime, you had better be prepared for the situation of people wanting your slides ("only 2-3") without exchange. I respond to such requests with an offer to send the slides, but I make a charge (ca. \$2-5/slide, depending on how many are requested) to pay the technician and cost of materials and of postage and handling. It seems only fair. What do you think? Incidentally, I have been planning to get out a catalog also--on the computer and much smaller than yours, of course. Will send a copy when and if I get around to completing the job.

Best wishes.

Yours very truly,

Alfred D. Traverse
Professor of Palynology

AT:jb

September 9, 1970

Dr. Alan Graham
Department of Biology
Kent State University
Kent, Ohio 44240

Dear Al:

Thanks for your recent post card. It was, by the way, a beautiful card. If that really was Linnaeus' house, he certainly had quite a layout!

The copy of Nichol's thesis which I promised for you is on its way under separate cover. Best wishes to you and your wife.

Yours very truly,

Alfred Traverse
Professor of Geology & Biology

AT:kc

Uppsala. Linnéträdgården.
The Linnean Gardens.
Linné-Gården



Dear Al:

Just a short note to remind
you of my interest in receiving
a copy of Nichols thesis on the
Gulf Coast Eocene.

Thanks,

Alan Graham

Agg: AB Axel Petterson & Son, Uppsala



Svensk
tillverkning

Dr. Alfred Traverse
Department of Geology
Penn State University
University Park, Penn.
16802

POSTAGE DUE



March 5, 1969

Dr. Alan Graham
Department of Biology
Kent State University
Kent, Ohio 44240

Dear Alan:

It is perhaps superfluous to be one's own PR man, but in an effort to leave no stones unturned, I thought it wise to state modestly that graduate students in palynology are being trained here under my direction, and that we would therefore appreciate being grafted into the grapevine along which information about various job opportunities is said to travel.

Also, I would appreciate it if you would consider advising prospective graduate students in palynology who want to sample education elsewhere to keep the possibility of Penn State in mind. We have laboratory and library facilities as good as any, located in the new Deike Building (College of Earth & Mineral Sciences). The personnel and library of the Catalog of Fossil Spores and Pollen and our "palynological data project", as well as the various research projects, make ours a stimulating place palynologically. We now have three full-time professional palynologists (H.T. Ames, R.B. Sanders, A. Traverse), as well as a paleobotanist with a strong collateral interest in palynology (W. Spackman). Spackman and I now both have joint appointments in biology and geology, so graduate students can organize work here toward degrees in palynology-paleobotany in either biology or geology. In terms of flexibility of requirements, this is a very desirable arrangement. For example, a botanically oriented palynologist can now enroll in biology at Penn State and does not need to satisfy the various local requirements for a degree in geology. Yet such a student has available to him at Penn State first class instruction, facilities and contacts in all those areas of geology which may be pertinent to his work and interests.

Please keep us in mind.

Yours very truly,

Alfred Traverse
Associate Professor of Geology
Editor
Catalog of Fossil Spores and Pollen

January 23, 1969

Dr. Alan K. Graham
Department of Biological Sciences
Kent State University
Kent, Ohio 44240

Dear Alan:

Such prompt service and beautiful packing!
I was amazed by both. I am delighted to have the
replacement slide. Please do let me return the
favor one of these days.

Best regards and thanks.

Yours very truly,

Alfred Traverse
Associate Professor of Geology

AT:kwc

Enclosure: slide folder

January 16, 1969

Dr. Alan K. Graham
Department of Biological Sciences
Kent State University
Kent, Ohio 44240

Dear Alan:

A student the other day broke my slide of your preparation: Gramineae-Bouteloua gracilis-AG G-6. I was as shattered as the slide because I have been using this preparation for demonstration purposes re grass pollen for years. Is there any chance that you still have the residue around and could let me have a replacement slide?

If you're ever on your way east again and could spare me a day I would love to see you and your charming wife. I occasionally hear about you on the grapevine, but that is only tantalizing!

Best wishes.

Yours very truly,

Alfred Traverse
Associate Professor of Geology

AT:kwc

UNIVERSITY OF MICHIGAN
ANN ARBOR
DEPARTMENT OF BOTANY

February 13, 1959

Dr. Alfred Traverse
Shell Development Company
Exploration and Production Research Division
3737 Bellaire Boulevard
Houston 25, Texas

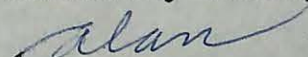
Dear Dr. Traverse:

If I am not mistaken, I detected a slight interest in your last letter for information regarding Arctostaphylos insularis Greene.

I wrote Dr. Turner and had received his reply when I wrote you last, but forgot to include the information. Dr. Turner said the plant was an Ambrosia that had been mislabeled and misfiled in the herbarium. Evidently when going through the herbarium I didn't notice the error. If you like, you may try to have the plant identified when you go to Austin, or I will do it when I get there and send the information to you. This may prevent having to discard the slide.

If your parents are connected in any way with the University of Michigan, tell them I was only jesting, and that the weather and taxes are only fair prices for being allowed to live in the beautiful state of Michigan (X).

Sincerely Yours,



Alan Graham

UNIVERSITY OF MICHIGAN
ANN ARBOR
DEPARTMENT OF BOTANY

January 30, 1959

Dr. Alfred Traverse
Shell Development Company
Exploration and Production Research Division
3737 Bellaire Boulevard
Houston 25, Texas

Dear Dr. Traverse:

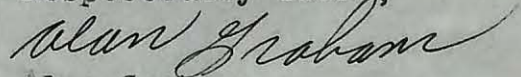
I, too, am shocked that someone of my eminence should have to wait for a reply to such an important document. Seriously, Dr. Turner had written me that you were ill. I hope the Houston sunshine has cured you completely.

In a few days I will send pollen slides of Ceratozamia and Torreya. The slides of Agathis are not of suitable quality. This will make you owe me 8 slides. I will be in Houston near the last of March and first of April and, if convenient with you, will come to your office to select this number.

Our paper is finally near completion, after several revisions, and is to be sent to Dr. Deevey for review. Dr. Sears was here a few days ago and said he wanted to read portions of it, so I suppose it will be about a month before it is sent off. I had originally thought of Ecology as a publication medium, but it may end up in American Journal of Science.

When I first arrived in Ann Arbor, the talk of the town was how the state did not provide any funds for the University of Michigan, in order to pay off a sizable amount of debts. I thought this was rather humorous until a notice came out the other day to the effect that all payments to vendors had been stopped, the University reserve fund had been used up, and salary checks may not continue after March, unless the state can borrow more money. The local banks have refused to lend any more to the school. With a state income tax, state of 2% on every item purchased, auto tax, school tax, property tax the natural resources of this state must be exceeded only by that of the Sahara desert.

Respectfully Yours,


Alan Graham

January 26, 1959

Mr. Alan Graham
Department of Botany
University of Michigan
Ann Arbor, Michigan

Dear Alan:

I can scarcely believe that yours of the 20th of December has been awaiting a reply for over a month. I have a good excuse for part of the time-- I have been out with a series of illnesses.

About the fellowships-- I am embarrassed, of course. I knew that Texas was in the program and never considered that Michigan would not be. It seems to me that if you want to pursue the matter further it would still be worthwhile to get the chairman of the Michigan geology department to try to get Michigan put on the list. I have no idea on what basis the institutions are selected. In any event, it would appear that you are pretty well fixed for at least a while. As you know, I feel that the teaching experience, though time consuming, is very good training, even if you don't go into academic work. I am afraid that there isn't much more I can do re Shell fellowships, beyond the suggestion above.

I have looked through the pollen cards and the list of supplementary numbers. I would like to have the following:

Ceratozamia matudai ze Lundell
Agathis vitiensis (Seem.) B. & H. F.
Torreya taxifolia Arn.

Under separate cover I am returning the cards and the sheet. I don't remember just where this leaves us, but I am sure you will tell me when you get around to it. What did you do re Arctostaphylos insularis Green-- the ones that looked odd? Did you have U. T. check the sheet?

Best wishes to our mutual friends in Ann Arbor.

Very truly yours,


Alfred Traverse

AT:pjd

Shell Development Company
Exploration and Production Research Division

UNIVERSITY OF MICHIGAN

ANN ARBOR

DEPARTMENT OF BOTANY

December 20, 1958

Dr. Alfred Traverse
Shell Development Company
Research and Exploration Division
3737 Bellaire Blvd.
Houston 25, Texas

Dear Dr. Traverse:

I have sent under separate cover cards for the pollen material I have prepared since I have been at Michigan. All of the material is from the University of Texas Herbarium. I have also enclosed a list of material from the University of Michigan Herbarium, all gymnosperms.

I received a letter from J. R. Janssen, Shell Fellowship Committee a few days ago. He stated that "Our program does not contain fellowships in botany or paleobotany." Also that the selection of persons to receive one of the fellowships is in the hands of the department chairman of each of the schools that are in on the Shell Fellowship, i.e., University of California, Texas, Nebraska, Kansas, Illinois, Minnesota, Northwestern, Stanford, and Colorado School of Mines. The University of Michigan was not included on the list. He said further, "It is suggested that if you are interested in any of the Geology fellowships at the schools mentioned above that you initiate correspondence with the Chairman of the Geology Department at each school of interest."

As I understand, Jane probably received one of the fellowships because she was in the geology department at one of the schools mentioned above. If you have any advice (unofficial) on the matter I would be grateful to hear from you. Dr. Jones, our chairman, has informed me that I will be on the teaching staff next semester, lecturing to one of the botany sections. This will mean quite a raise in salary for me, since it was decided that I should also retain one half of the pollen assistance work I am now doing. When Dr. Arnold gets back, however, I hope to be able to devote full time to courses and research, even if accepting a fellowship of some kind means a slight drop in pay.

I hope you and your family, and those working with you in the pollen lab at Shell, have a very good Christmas.

Sincerely Yours,

Alan

Alan Graham

Mailing Address
P. O. Box 481
Houston 1, Texas

December 2, 1958

Mr. Alan Graham
Department of Botany
University of Michigan
Ann Arbor, Michigan

Dear Alan:

Thanks for the two interesting letters. We were amused by your comments on Michigan weather, but Mrs. Bowen, like yourself a Texas-ex, begs leave to point out that Texas had a 7-3 record for the year, hence not in the same class as Michigan.

I am very interested in your comments on "Miss" Gray's departure from Austin, lock, stock and slide-boxes. I have already had some correspondence with her in her new location.

Thanks for the information about your program, which sounds very good indeed. I am more convinced than ever when I made the original recommendation for you (via Drs. Andrews and Bold) that U. of M. has the best paleobotanical setup going.

About Shell fellowships: one applies to Shell Companies Foundation, Inc., 50 West 50th St., New York 20, N.Y. They will take it from there. In case I haven't made it clear before, I have no influence with them. They do give such fellowships to paleobotanists (cf. Jane Gray, Wayne Fry, etc.), and you would seem to non-influential me to be a worthy candidate. Let me know if you fail to get forms, etc., from the New York address. My information is that it would be better if you did not quote me in dealing with the fellowship people, however.

Re the slides: Thanks for the dope on #247. Re "Arctostaphylos"; I don't think this should be dropped here, as it might prove quite interesting. Will you write Dr. Turner or whomever you feel appropriate and have the sheet checked? No telling what you might find. I've had some interesting experiences of this sort, as I may have told you. Let me know what happens. I won't throw the slides away until I hear from you. For one thing, if it's a switch, you should have an ericaceous pollen masquerading as a composite somewhere in your collection. Or does Arctostaphylos pollen sometimes look compositaceous?

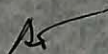
Mr. Alan Graham

2

Yes, I'd be glad to see your lists and would probably select some items. I am not too interested in exchange on a large scale because I can't take proper care of my own preparations with present staff.

See you in Houston when you come. Best wishes.

Very truly yours,



Alfred Traverse

AT:pjd

Shell Development Company
Exploration and Production Research Division

UNIVERSITY OF MICHIGAN
ANN ARBOR
DEPARTMENT OF BOTANY

November 26, 1958

Dr. Alfred Traverse
Shell Development Company
Exploration and Production Research Division
3737 Bellaire Boulevard
Houston 25, Texas

Dear Dr. Traverse:

It has snowed twice here already and everything is a snow-white mess. I took your advice and stocked up on winter clothes, but in order to keep warm I have to wear so many of them it is difficult to walk.

I have checked on the slides and have enclosed the pertinent information. With regards to the Arctostaphylos I am afraid that the wrong name went on the vials because mine is a compositae also. At the end of our exchange I believe I was seven up on you, so please subtract this slide from that number and accept my apologies for the mistake. Unfortunately for me in this embarrassing situation, I found all of your slides in perfect shape. The information for Slide 247 is as follows:

Buxus semperivirens L. Collected by B. Rambo #42522
on July 13, 1949. Rio Grande do Sul, Tucuman, Argentina.
Slide prepared July, 1958. Family Buxaceae. Voucher
in University of Texas Herbarium.

Perhaps after making such a blunder I should not think of such a thing, but I was wondering if you would like to continue to receive list of material I have prepared from this herbarium? I spent the afternoon in the Michigan herbarium working in the Gymnosperms and collected 47 samples. I also have about 250 samples from the Texas material that Dr. Turner let me bring here to prepare. After they are completed I will return them to the Texas herbarium. If you would like to see the cards for this material I can send them probably soon after Christmas. As for the returns, I would not mind waiting until I come to Houston in late March to select from your list. Dr. Benninghoff said if I prepared all the material, he would not object to my exchanging slides. I did not want to interfere with any exchanges he was carrying out, but he said this was no problem.

If you should happen to see Dr. Schemel during the course of the year, I would appreciate it if you would ask him if he would mind sending me a reprint of some of his papers. I wrote to him about a month ago, but have as yet received no reply.

I guess we must have both thought of writing at the same time since I received your letter two days after mailing mine. one thing of interest I didn't include in my first letter was that Jane inquired via a Miss Carter who is working here now, if we would send her herbarium specimens of certain plants she wanted in return for receiving one slide, she keeping the remainder. Dr. McVaugh contacted Dr. Benninghoff who ask me about such a proposition and as a result he has decided to decline the most generous offer.

Again may I say if you are in the vicinity be sure and stop by at the Natural Science Building. I hope to see you in Houston about March 30.

Sincerely Yours,



Alan Graham

UNIVERSITY OF MICHIGAN

ANN ARBOR

DEPARTMENT OF BOTANY

November 24, 1958

Dr. Alfred Traverse
Shell Development Company
Exploration and Production Research Division
3737 Bellaire Boulevard
Houston 25, Texas

Dear Dr. Traverse:

The rapid pace of school is slowing down as Thanksgiving approaches and I thought I would take the opportunity to write of things at Michigan. With twenty-three professors of botany, 23,700 students and temperatures below zero, this is quite a contrast to botany at the University of Texas. The one factor that makes me feel at home is that Michigan lost six out of seven football games, a record comparable to that of the Texas Longhorns.

I received a letter from Dr. Turner a few days ago in which he said that Dr. Ellison (chairman of the Geology department) was up in arms because Jane took all the slides that were to reside in the geology pollen collection. I find this quite humorous, for some reason. After giving her two slides of many of the species I prepared, then a second set of slides which I later found she was using for exchanges (after telling me they were for teaching purposes), and finally a third set of the same slides, which I found she was going to deposit as the nucleus she evidently decided to keep the whole damn works. Vive le ambition.

This semester I am taking courses in phytogeography (Dr. Benninghoff), anatomy (Dr. Beck, a new paleobotanist here who presented the paper on New Albany Shale plants at the Bloomington meetings) and morphology (Dr. Sparrow). With eight hours of work in the pollen lab and eight more in lab assisting, it is a full semester. Dr. Arnold is in India until the beginning of the second semester and since I couldn't begin work on my problem, I decided to take more than the usual course load in order to feel I was accomplishing something. Next semester I hope to take ecology, mycology, history of botany, and genetics, if I can get away with it.

Several possibilities have arisen regarding a problem and I would appreciate your comments on them. There is a fossil flora of Pennsylvanian age in a quarry a few miles west of here, at Grand Ledge. Dr. Arnold has done some work in the area, but several new things have recently been found. I collected several samples from there last week and found spores in most of them. I would prefer a Tertiary problem, however, and via letter Dr. Arnold suggested a flora in British Columbia that he has been studying. With such people as Arnold, Chaney and Axelrod working the already well known Tertiary flora of western North America, however, I would rather work in one of the many areas which are essentially untouched with regards to paleobotany. I am thus hoping for a problem in the Tertiary of the tropics, possibly southern Mexico. Berry has some publications on Mexican floras and if it is possible to discover others in sediments which contain pollen and spores, this would provide an ideal site for study.

If you recall, we once discussed briefly the possibility of my obtaining one of the Shell Fellowships. Although it is probably too early to submit formal application, I would appreciate any preliminary information you may be able to send with regards to qualifications, need for letters of recommendations, the amount of the fellowships, when I should apply and to whom. I hope my record at Michigan at the end of this year will be adequate to warrant consideration. Until now no academic tragedies have occurred.

Dr. Ulf Hafsten came to Ann Arbor last week and took my thesis back to Norway. He also went to Austin and picked up the single-grain mounts from the Texas bogs. I hope he doesn't scuttle the work before it's even published.

Dr. Bold wrote a few days ago and said it was almost 90° in Austin. If it gets too warm in Houston, plan a trip to Ann Arbor. I will guarantee cold weather.

Sincerely yours,



Alan K. Graham

AKG:cjk

November 24, 1958

Mr. Alan Graham
Department of Botany
University of Michigan
Ann Arbor, Michigan

Dear Al:

Greetings from the land of perpetual summer. I bet you're lonesome for the sun about now. I do hope you are getting along well in your research and study.


I have completed the thorough examination of the slides we obtained in exchange from you. Again, I should like to say how good they were. You did an outstanding job of preparation.

Could you find time to look into two cases of possible error for me?

1. I have one slide, your number 247, for which I have no card. Could you send me the dope for this preparation?
2. One of the items, your number 156, is supposed to be Arctostaphylos insularis Green. After careful study of the slide, I cannot convince myself that this is really Arctostaphylos pollen. Frankly, it looks a lot more like a composite pollen type. Would you check this?

Best wishes to Dr. Benninghoff and our other mutual friends at Ann Arbor.

Very truly yours,


Alfred Traverse

AT:pjd

Shell Development Company
Exploration and Production Research Division

July 31, 1958

Mr. Alan Graham
Department of Botany
University of Texas
Austin 12, Texas


Dear Alan:

Your thesis went out via first class mail this a.m. The "no" from Dean Whaley was crisp and to the point. I repeat that I think it is a very nice piece of work.

Now regarding the matter of the \$180, you apparently misunderstood me. I tried to make it clear that the matter is quite out of my jurisdiction. I can neither approve or disapprove, though my advice would presumably be asked. I did venture the opinion that Shell might look with skepticism on a request of this sort, whereas if you applied for a straight Shell fellowship at some future date, you might have better luck. One reason for my hesitance to lend much encouragement to you is that you don't know where Michigan stands. They could conceivably object to a dual fellowship. If Michigan doesn't object, and if they agree with you that it would probably be necessary, go ahead and apply. The worst you can get out of it is an answer of no. But I would strongly advise against applying now for aid that you don't critically need. It might prejudice your future chances of getting help.

Looking forward to seeing you in Bloomington.

Yours,


Alfred Traverse

AT:pjd

Shell Development Company
Exploration and Production Research Division

THE UNIVERSITY OF TEXAS
AUSTIN 12

THE DEPARTMENT OF BOTANY

July 28, 1958

Dr. Alfred Traverse
Shell Exploration and Production Research Division
3737 Bellaire Boulevard
Houston 25, Texas

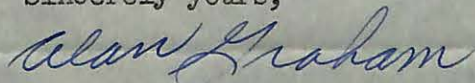
Dear Dr. Traverse:

I have asked Dean Whaley to furnish you information concerning the possibility of photostating my thesis. I assume he has already written a letter to you on the subject.

With regards to the occurrence of spruce pollen in Texas peat bogs, I did not find any in peat from the south Soefje bog (15 feet) which I procured and processed or from the north Soefje bog (19 feet) which I have just processed this week. The only spruce pollen was found in samples of the Gause bog (14 feet) obtained from Dr. Potzger's collection. I did not have access to the Patschke material. The concluding sentence of my thesis I hope explains my skepticism concerning the validity of the Potzger analysis.

In view of your decision not to lend support to my request of \$180.00 from Shell Oil Company for tuition purposes, I have decided not to contact anyone from Shell concerning the matter.

Sincerely yours,



Alan Graham

AG/dl

July 23, 1958

Mr. Alan Graham
Botany Department
University of Texas
Austin 12, Texas

Dear Alan:

Your thesis was interesting reading last night. I think it is a most creditable job. You have made a real contribution to the post-Pleistocene palynology of Texas.

One question that I had hoped to answer by reading the thesis I am still not perfectly clear about: whether you have found Picea pollen in any of the samples that you have collected yourself. I gather that all the samples from the Gause bog were collected by someone else several years ago.

Would you have any objection to my photostating the thesis, so that I would have a copy for reference here until such time as it is published. I must have your written permission to do this. If you will send me same as soon as possible, I can have the job done and return the thesis to you.

Best wishes until we meet again.

Yours,



Alfred Traverse

AT:rbh

Shell Development Company
Exploration and Production Research Division

THE UNIVERSITY OF TEXAS
AUSTIN 12

THE DEPARTMENT OF BOTANY

July 11, 1958

Dr. Alfred Traverse
Shell Development Company
Exploration and Production Research Division
3737 Bellaire Boulevard
Houston 25, Texas

Dear Dr. Traverse:

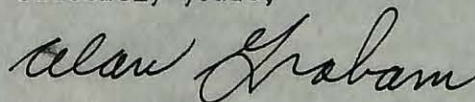
I will be in Houston on the week-end of the 19th and will pick up the slides on the following Monday, July 21st. I have sent more cards along with this letter and if you are able to return them in time, I will try to bring the slides with me.

My thesis was approved today by Professors Heimsch and Turner and Jane Gray. It will be given to the Dean a few days late, but having ones Chairman also Dean of the Graduate School helps in such situations. I hope it will be accepted for publication by Ecology, in which case, I will be joined in authorship by Dr. Heimsch and Jane. As the matter stands, I will be at Michigan next fall working under Arnold on the Butler Clay Pit problem as suggested by Dr. Stenzel. I hope to procure samples from there this week-end in order to have them processed before I come to Houston. I will probably have many questions. Dr. Tharp is going with me to get suitable photographs of the sample area. I don't want to get a problem too large, but I think the work can be expanded to include another lower Wilcox formation or member. I would particularly like to get a second site in which correlation with the Butler deposits are in question.

In your recent circular from the paleobotanical section, I evidently had not indicated I would like to go on the field trip. Please include me on the list. As I understand, the trip would be much more enjoyable if one Estella Leopold were going (source: J.G.).

If the date of July 21st at 11 O'Clock is not suitable, please let me know. If I do not hear from you I will be there at that time.

Sincerely yours,



Alan Graham

AG/d1

July 7, 1958


Mr. Alan Graham
Botany Department
University of Texas
Austin 12, Texas

Dear Alan:

Your slides are ready. For various reasons, you are not getting the whole set you ordered. For one thing, I did not apparently emphasize sufficiently that one needs to check my books carefully to be sure there is no notation of "barren." That accounts for six items we could not provide. We also ran onto one case of quite obvious mixup--an instance of mislabelling, or something of the sort, in the herbarium. I'm checking with the herbarium about this. In the meantime, I don't want the slide sent to you. One item (#892) has clumps of debris that hold the coverslip up, which prevents making a really good slide. For several items the species name does not include the author, a situation that resulted from someone else doing some herbarium collecting for me when I was at Harvard. A number of the slides have very few pollen grains. On these I have put pointers made of small pieces of gummed labels, showing location of the pollen.

I will expect you to select seven more numbers to replace those we couldn't provide. We'll mail the extra slides to you at Michigan. Presumably, you'll be in for these slides we have now, and to make the additional selections, within a few weeks.

Very truly yours,


Alfred Traverse

AT:ml

Shell Development Company
Exploration and Production Research Division

June 6, 1958

Mr. Alan Graham
Department of Botany
University of Texas
Austin 12, Texas

Dear Alan:

Your cards went off to you via first class mail today.

On two cards I need more information, viz., the author citation for:

Murdannia simplex
Tylosma fassoglensis

All of the others are ok. Use the enclosed postcard to send me the complete names on the above.

Very truly yours,


Alfred Traverse

AT:ml

Enclosure

Shell Development Company
Exploration and Production Research Division

April 1, 1958

Mr. Alan Graham
Botany Department
University of Texas
Austin 12, Texas

Dear Alan:


Have gone through the cards and selected the items that I'd like to have. The package of cards, with the selected group indicated by a note and separate rubber band, is also in the mails and will probably get to you before this letter.

For your exchange material I can't see any satisfactory alternative to your stopping in during your next Houston visit and going over my list. We haven't the time at the moment to bring the "catalog" up to date, and I do not want to let the original book out of the laboratory. Anyhow, I'd like to see you again under somewhat less rushed circumstances than during your last visit. We'll look forward to your coming. Maybe you can bring the slides for me and make your selections at the same time.

My assistant and I will be in the field during about the middle two weeks of April, so your visit had better be about the first of May, I would say. Sometime between now and the 10th of April would also be satisfactory, but I suppose it's doubtful that you could have our slides ready that quickly. I should appreciate your notifying me several days in advance of the time you plan to visit.

Best regards to Drs. Turner and Tharp when you see them. I'm still looking forward to the opportunity to learn some field botany by going collecting with Dr. Turner.

Very truly yours,


Alfred Traverse

AT:hmp

Shell Development Company
Exploration and Production Research Division

THE UNIVERSITY OF TEXAS
AUSTIN 12

THE DEPARTMENT OF BOTANY

February 27, 1958

Dr. Alfred Traverse
Shell Development Company
Exploration and Production Research Division
Houston 25, Texas

Dear Dr. Traverse:

I am going to be in Houston on the week-end of March 7, and will come by to pick up the slides then. I am sorry I wasn't more prompt, but each time I anticipated a trip home something came up.

I should be writing you with quite an air of reverence after reading a letter from Dr. Henry Andrews. He said it was unfortunate you had no academic connections, for you would be an excellent person for me to work under. He also commented on the high quality of your thesis, and I got the idea you impressed him quite favorably (which is understandable, I suppose). He suggested to Dr. Bold, who had written him concerning where I should go for my doctorate, that I contact Michigan where Arnold, Cain, and Benninghoff reside. This I did, with the support of Dr. Bold, and it looks as if that is where I will be next september. I anticipate working on the megafossil and pollen aspects of the Wilcox flora, but as to the detail and extent, that of course will have to be decided by the powers that be at Michigan.

I am processing material a little at a time, and have accumulated about 150 more slides since I sent the last batch. In anticipation of continuing our exchange, I made the slides in fours which gives us a set to exchange. This seems to be much more efficient than making extra slides separately and probably easier on the material. As I understand, continued heating of the jelly causes it to deteriorate. It may be that if it appears I will have a source of pollen at Michigan, we can exchange without having to select each time. I am sure the duplications would be small, and when they occur, would provide each of us with more slides to exchange.

Don't let what Dr. Andrews said go to your head, for we must remember to judge our own feeble efforts by the standard set by J. G. (fide J. G.).

Sincerely Yours,

Alan Graham
Alan Graham

February 20, 1958

Mr. Alan Graham
Department of Botany
University of Texas
Austin 12, Texas

Dear Alan:

Just to let you know that the slides are all ready to go, and have been for a couple of weeks. I thought that you were going to be able to pick them up between terms, but presume that something came up to prevent you from doing so. Let me know whether you'd like me to mail them to you--it would be no particular trouble to do so, if you like.

Don't fail to drop in when you're in Houston.

Very truly yours,



Alfred Traverse

AT:ml

Shell Development Company
Exploration and Production Research Division

THE UNIVERSITY OF TEXAS
AUSTIN 12

THE DEPARTMENT OF BOTANY

December 16, 1957

Dr. Alfred Traverse
Shell Development Company
3737 Bellaire Boulevard
Houston 25, Texas

Dear Dr. Traverse:

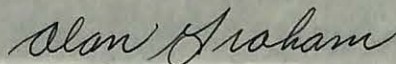
I am sending back your list and a separate one indicating by number the material I would like to have. This exchange has certainly helped me out, and I hope it has provided you with some material that you can use. The slides I bring to Houston during the holidays will not be sealed, as I am still undecided as to a suitable medium.

I plan to process the material Dr. Turner brought from Africa during Christmas and if I can anticipate that you will want a set, I will prepare both your slides and ours at the same time. We can discuss this further (at lunch) in a few days.

Many of the fern spores you asked for I did not send, for I plan to go through that section of the herbarium later and get better material. As soon as I am finished, I will send a complete list of available spore material.

If I do not see you until after Christmas, I hope you and your family will enjoy the best possible Christmas season.

Sincerely yours,



Alan Graham

AG:dc

December 13, 1957

Mr. Alan Graham
Department of Botany
University of Texas
Austin 12, Texas

Dear Alan:

Thanks for the telephone call. Too bad that I hadn't finished the "catalog" in time to spare you the expense. The list is enclosed with this letter. Would you indicate your order on a separate sheet of paper, and return the list. We shall provide the appropriate data with the slides, when they are sent to you. Of course, we expect that information for the slides you send us. See you soon.

Very truly yours,

AT

Alfred Traverse

AT:ml

Enclosure

Shell Development Company
Exploration and Production Research Division

THE UNIVERSITY OF TEXAS
AUSTIN 12

THE DEPARTMENT OF BOTANY

November 13, 1957

Dr. Alfred Traverse
Shell Development Company
3737 Bellaire Boulevard
Houston 25, Texas

Dear Dr. Traverse:

I have received the slides, data, and reprints and thank you for them. I am sending five duplicates of the slides I sent earlier and a set of cards from which you may select more material. Please feel free to indicate any or all of the slides you want for I know you will certainly have more than enough to exchange. If you will send the cards back, I will try to get the slides ready by Thanksgiving. If your list of slides is ready before then, I will select the slides and pick them up then.

Dr. Martin was here for about two hours, during which time we had Italian pot roast and spaghetti, beer and conversation at Caruso's. He seems to be a very nice person and I learned a lot by talking to him.

Forgive me for not sealing the slides, but as you saw the media is not very good.

See you Thanksgiving,

Alan Graham

Alan Graham

AG:dc

November 11, 1957

Mr. Alan Graham
Department of Botany
University of Texas
Austin 12, Texas

Dear Alan:

Here are the data:

- Tr 780: *Keteleeria fortunei* Carr.
C. T. White #2334
Botanic Gardens, Brisbane, Austr., 1925.
(Arnold Arboretum herb.)
- Tr 24: *Ilex opaca*
Cronquist #5154.
Georgia, 1948.
(Gray Herbarium)
- Tr 312: *Sciadopitys verticillata*
H. Meyer. no coll. #
Kii, Japan, 1886.
(Arnold Arboretum herbarium)
- Tr 350: *Juniperus virginiana*
Wherry and J. W. Adams #2685
Craig Co., Virginia, 1936
(Gray herbarium)
- Tr 348: *Chamaecyparis thyoides*
G.G.K. no coll. #
Milton, Mass., 17.4.1891
(Gray Herbarium)

Hope you had a good time with Paul Martin.

Very truly yours,



Alfred Traverse

AT:ml

Shell Development Company
Exploration and Production Research Division

October 18, 1957

Mr. Alan Graham
Department of Botany
University of Texas
Austin 12, Texas

Dear Alan:

Since you live in Houston, a fact I didn't realize before, by all means come and visit me at the lab at your earliest convenience so that we can go over the subject of slide exchange in the more satisfactory manner of discussion in person. I have a number of comments about your preparation techniques and the general subject of slide exchange that may be of interest to you. Your slides are certainly of very high quality.

It would be wise for you to make sure I'll be here by phoning me the weekend before, or by mail. I'll look forward to this chance to get to know you better.

Very truly yours,



Alfred Traverse

AT:rdb

Shell Development Company
Exploration and Production Research Division

THE UNIVERSITY OF TEXAS
AUSTIN 12

THE PLANT RESEARCH INSTITUTE

October 8, 1957

Dr. Alfred Traverse
Shell Development Company
3737 Bellaire Blvd.
Houston 25, Texas

Dear Dr. Traverse:

I received a letter from Dr. Turner a few weeks ago concerning the possibility of exchanging some pollen slides. He said you expressed an interest provided my slides were up to par. I have included five slides which are representative of what I have and would be able to send about 300 more ranging from spores of ferns and other cryptogams, through Gymnosperms to families of the Angiosperms. At the present time I have gone through family 128, Leguminosae, in our herbarium, having 152 families (fide Engler and Prantl) from which to obtain pollen. In addition I have about 75-100 species of Dr. Turner's African plants ready for processing.

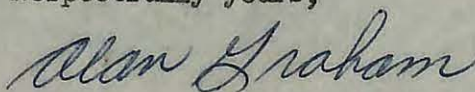
Dr. Tharp has expressed the feeling that more than one person going through the herbarium removing pollen from the same plants would be both redundant and not in the best interest of the herbarium. This is assuming, of course, that whoever goes through the herbarium removing pollen will make such available to other workers. It is with this in mind that I am suggesting the possibility of exchange.

Since at the present time my work is with the Botany Department, I am obligated to deposit one slide into the herbarium slide collection. Therefore, I would like to exchange the slides in duplicate. If you decide you would like to keep these five slides, I will send the duplicates later. I have included data relating to source, collector, etc., for your reference purposes and the technique used to prepare the material. The slides are sealed with "microscopic cement", a product of John Bell, Hills and Lucas, Ltd., London.

Naturally, it would not be of value to you to receive slides you already have; therefore, if you would care to see a list of my material, I could bring a card catalogue from which you could select. As my home is in Houston, the trip would not be inconvenient.

I will be very interested to hear your opinion and comments on the matter and sincerely hope some kind of exchange will be possible.

Respectfully yours,



Alan Graham

- Slide 1 *Conium maculatum* L.
C. L. Porter 6269, June 30, 1953
Johnson County, Wyoming
Processed May 30, 1957, ~~clear~~ *unstained*
U. T. Herbarium
Family Umbellifereae
- Slide 2 *Myrica pennsylvanica* Saisel.
E. Grivin, April 12, 1940, *no #*
Polk County, Texas
Processed July 7, 1957, ~~clear~~ *unstained*
U. T. Herbarium
Family Myricaceae
- Slide 3 *Piceae mariana* (Mill.) BSP.
Arnold Arboretum 18916
Processed February 11, 1957, ~~clear~~ *unstained*
Family Pinaceae
- Slide 4 *Carya illinoensis* (Wang) K. Koch
Collected on Campus of University of Texas
May 30, 1957, ~~clear~~ *unstained*
Family Juglandaceae
- Slide 5 *Lycopodium inundatum* L.
F. H. Steinmetz and E. C. Ogden
September 2, 1936
Penobscot County, Maine
Processed April 7, 1957, ~~clear~~ *unstained*
U. T. Herbarium
Family Lycopodiaceae

Procedure

1. Place pollen in crucible and boil for about five minutes in 10% KOH.
2. Strain, centrifuge, and wash twice with distilled water.
3. Add glacial acetic acid, centrifuge, and decant.
- ✱1 [4. Mix acetic anhydride and concentrated sulphuric acid (9:1), add to the tube, and place in boiling water bath for one minute. *(7-8 min.)*
- ✱2 [5. Centrifuge, decant, and wash twice with distilled water. *(until clear)*
6. Add glycerine. Allow to stand for a few minutes, centrifuge, and decant.
- ✱3 [7. Add glycerine jelly, warm, and make slides.