



Hunt Institute for Botanical Documentation  
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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  
435 Deike Building  
University Park, PA 16802  
(814)863-3419 or (814)865-6711

6 January, 1989

Dr. B. S. Beall  
Museum of Paleontology  
University of Michigan  
Ann Arbor, MI 48109

Dear Dr. Beall:

Read your abstract in GSA Abstr. vol. for 1987 re plant/animal coordinate extinctions. The subject interests and concerns me. If you have put down these observations in more extended form somewhere, could I have a copy?

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et

27 February, 1980

Dr. John Beaman  
Systematic Biology Program  
National Science Foundation  
1800 G St., N.W.  
Washington, DC 20550

Dear John:

What a delightful visit with you. I went in expecting to fill you in on the Silurian floras and instead just had a great, relaxing time for an hour or so. I guess we at least touched on the Traverse-Strother-Barghoorn work?

Well, you know where I am if you need or want more info.

Enclosed is a page from C.&J.'s Texas flora showing E.T. As you see, it's supposed to occur in LA.

All the best.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et  
encl: xerox re E. Traversii

Region V  
Box LL; University Station  
Grand Forks, North Dakota

September 24, 1954

Mr. Daniel B. Beard  
Park Superintendent  
Everglades National Park  
205 North Krome Avenue  
Homestead, Florida

Dear Mr. Beard:

Earlier this month, following the American Institute of Biological Sciences meeting in Gainesville, Professor William Spackman and I spent some time in the Everglades region collecting peat and observing the relationship of various factors to peat deposition.

We descended on your headquarters in Homestead without notice. But in very short order, Dr. Moore generously made arrangements for us to be taken into the Shark River area by Mr. Vincent Marazek, one of your rangers. "Vince" was a very good guide, a fine fellow, and he helped us very much in collecting our samples - a very dirty job.

I would like to thank you for the fine cooperation we were given by your staff members, especially Dr. Moore and Vince.

Very truly yours,

*Ar*

Alfred Traverse  
Coal Technologist

ATraverse:vh

cc: Lankford  
Region V  
Traverse  
File 625.1  
C File

From: Alwynne Beaudoin <abeaudoi@gpu.srv.ualberta.ca>  
Return-path: <abeaudoi@gpu.srv.ualberta.ca>  
To: traverse@ems.psu.edu (Alfred Traverse)  
Date: Mon, 22 Dec 1997 00:04:15 -0700  
Subject: Re: dues  
Message-ID: <199712220702.AAA17914@quartz.ucs.ualberta.ca>  
X-Status: Read  
X-Mailer: Windows Eudora Light Version 1.5.2

Dear Dr Traverse:

Thank you very much for your note wrt to CAP dues. I am pleased to hear that you would like to continue as a member of CAP.

>I am distressed to hear that I have "lapsed." I always pay bills, so  
>apparently I didn't know that I had been billed!

Don't worry about it - these things happen. I have been sending out reminder notices after a year's lapse, but in this case the Pony Express obviously didn't get through!

>I take it that I owe \$30-\$10 for 1996, \$10 for 1997, and \$10 for 1998  
>coming up. Is that right?

If this is OK with you, it would be fine with us. Our bylaws allow payment of three years dues at a time. I believe I did send you the Newsletters for 1996 - if you don't have copies, please let me know and I will send them on. I have just mailed out the Dec 97 issue - I sent you both Dec 97 and May 97 issues in the same envelope, so I hope you should have a complete set up to date. The back page of the December 97 issue comprises a membership form - if you could send this back with your dues, indicating what years the payment covers, that would make things clear with our Treasurer also.

>Probably I'm the only member in the USA who has a Canadian bank account and  
>can send a Canadian check? My mother opened this small account as a child  
>in St. John, N. B. about 1905, as I understand it. She gave it to me many  
>years ago.

This is neat! It's a lot easier to deal with Canadian currency than US - avoids exchange rate woes and bank charges. I maintained a UK bank account for many years for much the same reason.

>Surely I don't need to reapply? Just let me know where to send the check  
>and what the correct amount to send is. Thanks for your patience.

No, you don't need to reapply. The dues form in the Newsletter will be fine. I've e-mailed our Treasurer to let her know that she'll be hearing from you.

*✓ at home*

Many thanks for your continuing interest in CAP.

Best wishes for the Christmas season and the New Year,  
Alwynne

Alwynne B. Beaudoin PhD, Archaeological Survey  
Provincial Museum of Alberta, 12845-102nd Avenue  
Edmonton, Alberta, T5N 0M6, Canada

WebEditor for PMA WWW presentation at <http://www.pma.edmonton.ab.ca>

A. Beaudoi

abeaudoi@gpu.srv.ua, 01:56 PM 12/11/9, dues

1

To: abeaudoi@gpu.srv.ualberta.ca  
From: traverse@ems.psu.edu (Alfred Traverse)  
Subject: dues  
Cc:  
Bcc:  
X-Attachments:

Dear Alwynne:

I am distressed to hear that I have "lapsed." I always pay bills, so apparently I didn't know that I had been billed!

I take it that I owe \$30--\$10 for 1996, \$10 for 1997, and \$10 for 1998 coming up. Is that right?

Probably I'm the only member in the USA who has a Canadian bank account and can send a Canadian check? My mother opened this small account as a child in St. John, N. B. about 1905, as I understand it. She gave it to me many years ago.

Surely I don't need to reapply? Just let me know where to send the check and what the correct amount to send is. Thanks for your patience.

Best wishes to you for a great 1998.

Yours, Alfred

Printed for traverse@ems.psu.edu (Alfred Traverse)

1

X-Sender: abeaudoi@pop.srv.ualberta.ca  
Date: Sat, 06 Dec 1997 23:36:28 -0700  
To: traverse@ems.psu.edu (Alfred Traverse)  
From: Alwynne Beaudoin <abeaudoi@gpu.srv.ualberta.ca>  
Subject: Re: "next issue"

At 11:20 04/11/97 -0500, you wrote:

>Dear A. B.:

>

>I am just in from about six weeks absence, and find yours about the  
>Newsletter deadline. I am not in a position to send in anything at the  
>moment, but I did want you to know that I am still very interested in CAP  
>and its newsletter, and want to keep in touch!

>

>Best. Al.

>Alfred Traverse

>Palynological Laboratories

>Department of Geosciences

>435 Deike Building, PSU

>University Park, PA 16802

>Ph.: 814-863-3419

>Fax: 814-863-7823

>

Dear Dr Traverse:

Thank you for your message. I am pleased to hear that you are still interested in CAP. I was just going through the latest CAP membership list, preparatory to getting a mailing list ready for the December issue. According to the records I have available, the last year for which your dues were fully paid was 1995. Hence, I've had to move your name to the lapsed list.

I am writing this note to let you know that the Canadian Association of Palynologists would still like you to be a member. Unfortunately, Association policy stipulates that Newsletters cannot be sent to individuals whose membership is one year or more in arrears. If you would like to continue your CAP membership, please let us know by submitting your dues. CAP membership dues are \$10/year (Canadian funds), payable at the beginning of the year. Members may, if they wish, pay for up to three years in advance.

The benefits of membership in CAP include two issues each year of the CAP Newsletter, affiliation to the IFPS (International Federation of Palynological Societies), and two issues of PALYNOS each year. CAP also supports a WWW page, which can be found at

<http://www.ualberta.ca/~abeaudoi/cap/cap.html>, for the more rapid communication of information. CAP is the principal organization for the dispersal of palynological news in Canada.

A membership form can be found as part of the CAP www presentation. If you need more information, please contact me or CAP's Secretary-Treasurer, Francine McCarthy (Department of Earth Sciences, Brock University, St. Catharines, Ontario, L2S 3A1, Canada).

I look forward to welcoming you back as a member in good standing of the Association.

With best regards,  
Alwynne

Alwynne B. Beaudoin PhD, Archaeological Survey  
Provincial Museum of Alberta, 12845-102nd Avenue  
Edmonton, Alberta, T5N 0M6, Canada

WebEditor for PMA WWW presentation at <http://www.pma.edmonton.ab.ca>

THE PENNSYLVANIA STATE UNIVERSITY  
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PALYNOLOGICAL LABORATORIES  
435 DEIKE BUILDING  
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Phone: (814)863-3419; Fax: 814-863-7823

10 March, 1993

Dr. A. B. Beaudoin  
Archaeological Survey  
Provincial Museum of Alberta  
8820-112th St.  
Edmonton, Alberta  
Canada T6G 2P8

Dear Colleague:

Thanks for the nice letter of 25 Jan., and the reprint from RPP,  
read with interest.

It would be fun to visit your museum some day.

Best wishes.

Yours very truly,

Alfred Traverse

# Alberta

CULTURE AND MULTICULTURALISM  
Historical Resources Division  
Archaeological Survey

8820 - 112 Street, Edmonton, Alberta, Canada T6G 2P8 403/431-2300

January 15, 1993

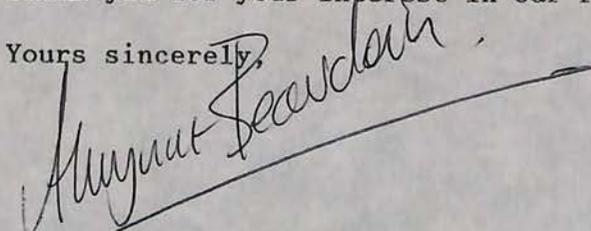
Dr. A. Traverse  
Palynological Laboratories  
Department of Geosciences  
Pennsylvania State University  
435 Deike Building  
University Park, PA 16802  
U.S.A.

Dear Dr. Traverse:

You may recall our correspondence on pollen focussing following the AASP meeting in Banff. It's taken a while to complete but finally I enclose with this letter a copy of the paper written with Mel Reasoner, entitled "Evaluation of differential pollen deposition and pollen focussing from three Holocene intervals in sediments from Lake O'Hara, Yoho National Park, British Columbia, Canada: intra-lake variability in pollen percentages, concentrations and influx".

Thank you for your interest in our research.

Yours sincerely,



Alwynne B. Beaudoin  
Palaeoenvironmental Research Officer  
Archaeological Survey  
Provincial Museum of Alberta

abb  
Encl.

# Alberta

CULTURE AND MULTICULTURALISM  
Historical Resources Division  
Archaeological Survey

8820 - 112 Street, Edmonton, Alberta, Canada T6G 2P8 403/431-2300

November 9, 1992

Dr. A. Traverse  
Palynological Laboratories  
Department of Geosciences  
Pennsylvania State University  
435 Deike Building, University Park  
Pennsylvania, PA 16802  
U.S.A.

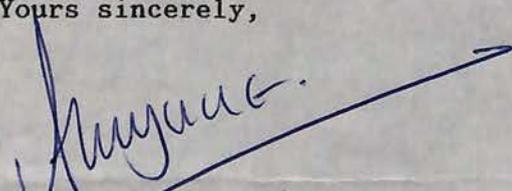
Dear Dr. Traverse:

Thank you for your recent letter pointing out my error in the last CAP Newsletter. I am glad you drew my attention to this.

I include with this letter a copy of the correction which I will include in the next issue. I hope this will remedy the situation and get you out of trouble!

Seriously, I am sorry if this mistake caused you any problems. I'll pass on your suggestion about placing CAP archival material in the Hunt Botanical Library to the rest of the CAP executive.

Yours sincerely,



Alwynne B. Beaudoin  
Palaeoenvironmental Research Officer  
Archaeological Survey of Alberta

abb

## CORRECTION

In the last issue of the *CAP Newsletter* 15(1):1, I wrote that Alfred Traverse curated the AASP Archives. Dr. Traverse has written to me to correct this statement. He informs me that he is not the archivist for AASP but for IFPS. He does not keep the material himself but, about once a year, he places archival material for IFPS in the Hunt Botanical Library in Pittsburgh. I apologize for any embarrassment this statement may have inadvertently caused Dr. Traverse and confusion I may have caused to CAP readers.

Alwynne B. Beaudoin  
*CAP Newsletter* Editor

THE PENNSYLVANIA STATE UNIVERSITY  
DEPARTMENT OF GEOSCIENCES  
PALYNOLOGICAL LABORATORIES  
435 DEIKE BUILDING  
UNIVERSITY PARK, PA 16802  
Phone: (814)863-3419; Fax: 814-863-7823

12 October, 1992

Dr. Alwynne Beaudoin  
Editor, CAP Newsletter  
Archaeological Survey of Alberta  
8820 - 112th St.  
Edmonton, Alberta, Canada T6G 2P8.

Dear Al:

Hope you haven't got me in hot water! Vol. 15, No. 1 of CAP Newsl. says (p. 1) that "...AASP Archives (held by Alfred Traverse)...." I am archivist for IFPS (international), not for AASP. Besides, I don't "hold" the international archives. I see that they are deposited (about once a year) in the ~~Hunt~~ Botanical Library, Pittsburgh (where AASP, IAPT, and many other organizations have their archives). I would recommend that CAP also consider doing so.

Best wishes, and I extend continuing congratulations on a newsy letter.

Yours very truly,

Alfred Traverse

AT/et

THE PENNSYLVANIA STATE UNIVERSITY  
DEPARTMENT OF GEOSCIENCES

PALYNOLOGICAL LABORATORIES  
435 Deike Building  
University Park, PA 16802  
phone: 814-863-3419  
fax: 814-865-3191

30 December, 1990

Dr. Alwynne B. Beaudoin  
Palaeoenvironmental Research Officer  
Archaeological Survey of Alberta  
8820 - 112th Street  
Edmonton, Alberta, Canada T6G 2P8

Dear Dr. Beaudoin:

Yours of 16 October has been a long time waiting for an answer! My mother died on 11 October, and I am just getting reestablished, as it were. She was 97, and her death was not a tragedy, but was nevertheless upsetting and time-consuming for the family.

Regarding "pollen focussing"--I just wanted to be sure I had it right. I need to attend to such matters in the glossary of my text. And I am editing a volume on palynomorph sedimentation, in which p-f. must certainly be treated by one of us!

I greatly appreciated the publications you sent and will make use of all of them.

Best wishes to you for 1991!

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et

# Alberta

CULTURE AND  
MULTICULTURALISM  
Historical Resources Division  
Archaeological Survey

8820 - 112 Street, Edmonton, Alberta, Canada T6G 2P8 403/431-2300

October 16, 1990

Dr. A. Traverse  
Palynological Laboratories  
Department of Geosciences  
Pennsylvania State University  
435 Deike Building, University Park  
Pennsylvania, PA 16802  
U.S.A.

Dear Dr. Traverse:

Thank you for your recent letter concerning our use of the phrase "pollen focussing" in our abstract from the 1990 CANQUA/AMQUA conference.

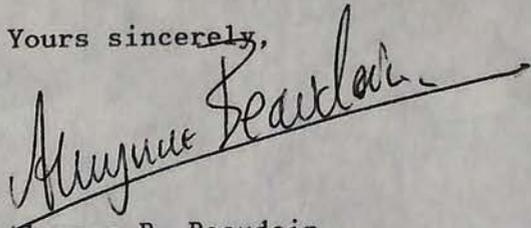
I apologise for the delay in replying to your letter. I received it when I arrived back from the field in September. Since I was intending to present a paper on this research at the AASP meeting in Banff and I thought I might meet you there, I delayed replying.

Following the work of M.B. Davis, we have been using the phrase "pollen focussing" to suggest the differential deposition or accumulation of pollen within the sediments of a lake basin. This would cause pollen assemblages to vary depending on coring location in the lake basin.

At the moment, we are writing up our results, and hope to publish this material soon. I would be happy to send you a copy of this paper when it is available. In the meantime, I include with this letter copies of some recent publications, which I hope you may find of interest.

If you have any thoughts on our use of the term "pollen focussing", I would be glad to receive them. Thank you for your interest in our research.

Yours sincerely,



Alwynne B. Beaudoin  
Palaeoenvironmental Research Officer  
Archaeological Survey of Alberta

abb

cc: M.A. Reasoner

THE PENNSYLVANIA STATE UNIVERSITY

DEPARTMENT OF GEOSCIENCES  
PALYNOLOGICAL LABORATORIES  
435 Deike Building  
University Park, PA 16802  
phone: 814-863-3419  
fax: 814-865-3191

20 August, 1990

Dr. A. B. Beaudoin  
Archaeological Survey of Alberta  
8820 112th St.  
Edmonton, Alberta, Canada T6G 2PB

Dear Dr. Beaudoin:

Just saw your abstract in CANQUA-AMQUA Program. Could I trouble you for a succinct definition of "pollen focussing"? I try to keep current, and I'm not 100% sure I'm correctly interpreting the expression.

Best regards.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et

19 November, 1984

Dr. John W. Bebout  
U.S.G.S.  
1725 K St., NW, Suite 204  
Washington, DC 20006

Dear John:

The message is getting through to me that you "aren't in" for ol' AT. At least I've called your office about six times, always getting a "he's out of the office". I leave a "please call" and nothing happens.

Probably you thought I was going to pressure you about the Golden Valley. Not so--I just need information about your plans. I am good at taking bad news! (I've sure taken plenty of it), but I need to know so that I can answer questions.

Won't you please phone me at 814-863-3419 or 814-643-1958 (home, evenings), to let me know what's going on? I promise I'll be just like a lamb!

Best wishes.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et

26 March, 1984

Dr. John W. Bebout  
Bureau of Land Management  
Department of the Interior  
18th & C Sts. NW  
DC 20240

Dear John:

Enclosed is copy of the little proposal to NSF. A cornerstone of all this, of course, is that you actually budget a few hours of time a week to do the work (Saturdays, 5-8 a.m.?).

Best.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et

encl: copy of proposal

3/2/84

Dear Al,

Please excuse my delay in getting back to you re the Golden Valley paper. These are very "interesting" times to be working for the Feds, and I'm up to my neck in program changes and personnel shifts.

I pondered the question of the significance of the Golden Valley study and concluded that the introduction to my dissertation seems to run it up best. I have, therefore, paraphrased it slightly and enclosed it in this letter. Hecke said essentially the same thing in his published paper.

I sincerely hope that you are not misinterpreting my preoccupation with my work as reticence in regard to publishing my dissertation. I, too, want very badly to complete what I started. I am trying to balance all of my responsibilities as best I can.

I will be in Denver and Phoenix the next two weeks, and I'll call you as soon as I return.

Please give my best regards to Betty.

John Seibert

16 March, 1984

Dr. John W. Bebout  
Bureau of Land Management  
Department of the Interior  
18th St. & C St. N.W.  
DC 20240

Dear John:

Thanks for yours of 2 March with blurb for the proposal.  
I'm still waiting on Hickey's statement\*, to write up the proposal.

We should set up something for you to comedaad take a slew of  
photos--with both regular and interference contrast microscopes.

Harry Leffingwell promises to keep working on financial help too.  
I believe we should forge ahead with PRI as the place of publication  
and just trust to AG that the \$ will come.

Best to A.

As ever,

Alfred Traverse  
Professor of Palynology

AT/et

\*P.S. Hickey's statement finally came, and I am working on the proposal.

November 3, 1983

Professor Al Traverso  
Department of Geosciences  
Pennsylvania State University  
435 Deike Building  
University Park, Pa. 16802

Dear Al:

Just a short note to tell you that I will not, unfortunately, be able to stay over in State College during my visit next week. My commitments at home and work are just too heavy. On some future trip, though, I would enjoy taking you up on your kind offer of room and board!

I'm looking forward to seeing you soon.

John

Bebout

Dr. John W. Bebout  
Department of Geology  
S.U.N.Y. at New Paltz  
New Paltz, New York 12561

201-254-73  
J. W. Bebout  
D. S. U.  
U. P.R., PR 16802

acting chief,  
Scientific Projects Staff  
U.S.G.S., Mail Stop 620  
Reston, VA 22092

1225 K St., N.W., Suite 204  
Washington, D.C. 20006  
(Conservation Div., USGS)

Rec.  
5988 Kingsford Rd.  
Springfield, Va. 22152

office: ~~202-254-5526~~  
703-860-7865  
home: 703-569-0989

26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 41, 42

TO AT

DATE 24 Oct. '83 TIME 10:00

WHILE YOU WERE OUT

M. John Bobov

of \_\_\_\_\_

Phone \_\_\_\_\_

TELEPHONED  PLEASE RETURN CALL

CALLED TO SEE YOU  WILL CALL AGAIN

RETURNED YOUR CALL  RUSH

MESSAGE will plan to spend  
day of Nov. 11 with  
you (9:30 on). Do not  
call back unless  
inconvenient.

Signed B.T.

The Standard Register Company

W



## United States Department of the Interior

BUREAU OF LAND MANAGEMENT  
WASHINGTON, D.C. 20240*Phone John*

September 7, 1983

Professor Al Traverse  
Department of Geosciences  
435 Deike Building  
The Pennsylvania State University  
University Park, PA 16802

Dear Al:

It's hard for me to believe that another summer has already past. Things have been so hectic here that even my brief vacation at the beach is already a fading memory. I hope that your summer was both relaxing and productive (if such a combination is possible).

My new association with the Bureau of Land Management has turned out quite well after all. To my surprise, I was selected as Chief of the new Branch of Geology and Mineral Support. My responsibilities include the Bureau's paleontology/geology, hazardous waste, and technical publication programs. Just to keep things interesting, I also look after the energy- and mineral-related training and R&D as well. So far, it's a lot of work and a lot of fun.

One of my reasons for writing is to ask you for some advice. Let me give you a little background...

As you know, I've been teaching at various colleges and universities in this area for several years. My work at the Community Colleges has been especially rewarding. Every once in a while, I come across a really bright student with exceptional potential. I've been able to help a number of these students go on to four-year schools.

Last year, I helped a young woman by the name of Jorg Huckabee transfer to the University of Virginia. She has done particularly well-- her Junior year average is about 3.5, and I wouldn't be surprised if she graduates with a 3.7. The University of Virginia doesn't offer a geology degree per se, but she is majoring in environmental science with a concentration in geochemistry.

Jorg recently asked me for advice about getting into graduate school next fall. Her undergraduate advisor is apparently preoccupied and not as helpful as he might be. Because the geochemistry program at Penn State is her first choice (she'd like to go straight on for a Ph.D.), I thought I'd write to you.

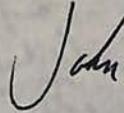
Beyond obtaining the necessary application forms, how would you suggest she proceed? Would you recommend, for example, that she request an interview with the Department chairman, or a faculty member? Jorg is totally independent and she has no income beyond what she can earn part-time, so

financial support of some type is crucial.

I firmly believe that Jorg has the drive and potential to become an excellent geochemist. I'm sure that she would be most appreciative of any advice that you can offer.

Please give my best regards to Betty.

Sincerely,



John W. Bebout, Chief  
Branch of Geology and Mineral Support

P.S. The best address to reach me at is:

Division of Geology and Mineral Resources (690)  
Bureau of Land Management  
Main Interior Building  
18th and 'C' Streets NW  
Washington, D.C. 20240

~~202-343-1100~~

202-653-2281

April 25, 1983

Dear Al,

It was great hearing from you, and I apologize for having been out of touch for so long. I have been on a merry-go-round here at work for the past year, and time has somehow slipped away.

In the past year, I have held the same job in three different Bureaus... the Onshore minerals functions have passed from the USGS to a new Bureau, the Minerals Management Service, and then to the Bureau of Land Management. As you might imagine, this has required considerable effort to keep the programs running, and I have spent a lot of time in the field. They also keep trying to make an executive out of me, a totally lost cause, and I have been attending various "Management Development Seminars" around the country. Fortunately for my own sanity, I still manage to do a little "science" now and then.

We have also been undergoing a considerable amount of reorganization. I have applied for a Branch Chief position which would be both challenging and fun, but I am not certain of my chances for selection. If I don't get it, I am seriously considering a career change... probably teaching. There are few things I have enjoyed as much as the part-time teaching I've done since moving to Washington. Time will tell.

I was surprised, and pleased, to hear about Leo's new position (I regret that I have been even more remiss in my correspondence with Leo than with you). I'm afraid that I have done little with the Golden Valley material. Both Norm Fredericksen and Doug Nichols have reviewed the manuscript, and both recommended substantive changes which I simply have not had the time to make. If I do take a teaching position (I'm still trying to steel myself for a 50% pay cut), the Golden Valley paper will be my first order of business.

All goes well with my family. Jonathan is now eight years old, Patrick six, and both are active in community soccer leagues. Two games and two practices keep both Ann and me busy on weekends. Andrew, the youngest, will be four years old in September. And Ann will be even busier in September when number four is born (we're making one last try for a girl). I do think we'll quit, however, before we populate our own basketball team.

I hope that all is well for you and your family. We will certainly take you up on your offer to visit State College sometime, and I hope that you'll visit us as well. And if you ever send any students to Washington again, we always have room. The food is good, but I make no guarantees regarding peace and quiet.

Please give my regards to everyone.

John Bebout

8 April, 1983

Dr. John W. Bebout  
Scientific Projects Staff  
U.S. Geological Survey  
MS 620  
Reston, VA, 22092

Dear John:

Are you still there?--as they say. It makes it symmetrical to be contacting you this week, as Bob Dunay dropped in by surprise day before yesterday, and Doug Nichols phoned yesterday.

However, that's coincidental. The reason I'm writing is that Leo Hickey phoned to discuss various matters relating to our current joint project: Duck Choi's Ph.D. ~~work~~. (Leo is now Director of the Peabody Museum, Yale.) While he had me, Leo brought up your Ph.D. work and wanted to know what the latest is on publication. I had to confess that, though you told me a while back that you were dickering in a couple of directions, I couldn't tell him anything firm. He seems very eager that the Golden Valley palynological story be in print. Maybe you can let me know about progress on this at your early convenience. Naturally I have a fair-sized stake in this also.

All the best to you and Ann. Do come see us if you ever feel so inclined.

Yours as ever,

Alfred Traverse  
Professor of Palynology

AT/et

15 April, 1982

Dr. John W. Bebout  
Acting Chief, Scientific Projects Staff  
U.S. Geological Survey, MS 620  
National Center  
Reston, VA 22092

Dear John:

Thanks for the thanks. Don't mention it.

HOWEVER, you never have sent me the corroborative evidence re our British engineer friend of the 19th century, whom I have referenced in lectures, on the strength of your anecdotal info in Thief River Falls, or somewhere. How about it?

Best.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et



# United States Department of the Interior

MINERALS MANAGEMENT SERVICE

RESTON, VA. 22091

April 4, 1982

Dear Al,

Just a short note as I run out the door to let you know that I did receive my invitation to Sigma Xi. I sincerely appreciate your taking the time to see my nomination all the way through the system.

Due to obligations here at work, I will not be able to attend the dinner. I had really hoped to be able to bring the whole family up again because they enjoyed the last visit to State College so much. I am going to try to schedule a visit this summer, perhaps during the art festival.

Please give my regards to everyone, and I will write soon.

Sincerely,

*John Bebout*

24 March, 1982

Dr. John W. Bebout  
Acting Chief, Scientific Projects Staff  
U.S. Geological Survey National Center  
MS 620  
Reston, VA 22092

Dear John:

Presumably by now you have been informed of your election to Sigma Xi. I have been phoning the responsible lady here ~~every~~ every day for a week and finally found her in. She confirmed that you're 'in' as a full member. Congratulations! Let me know if you didn't get an official letter from them.

All the best.

Yours very truly,

Alfred Taverse  
Professor of Palynology

AT/et

*signed & sent*

01/13/82

Dear al -

Here is the additional  
information that you requested.

If you need anything else,  
please let me know.

I enjoyed talking to  
you this morning and Jim  
looking forward to seeing you  
and Betty in the Spring.

John Faber

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- Edwards, L. E., and Bebout, J. W., 1981, Emendation of the Genus Phthanoperidinium, and P. brooksii sp. nov., a new dinoflagellate species from the Tertiary sediments of the U.S. Atlantic Outer Continental Shelf: Palynology, 5:29-42.
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Amato, R. V., and Bebout, J. W., 1978, eds., Geologic and Operational Summary, COST No. GE-1 well, Southeast Georgia Embayment Area, South Atlantic OCS: U.S. Geological Survey, Open-file Report 78-668:1-122.

Bebout, J. W., 1977, Palynology of the Paleocene-Eocene Golden Valley Formation of Western North Dakota [abs.]: Dissertation Abstracts International, 38:5:1-402.

Bebout, J. W., and Brenner, G. J., 1973, Upper Jurassic-Lower Cretaceous Spores and Pollen from the Northern Negev of Israel [abs.]: Geological Society of America, Abstracts with Programs, 5:7:544.

20 October, 1981

Dr. John W. Bebout  
Acting Chief, Scientific Projects Staff  
U.S. Geological Survey  
Reston, VA 22092

Dear John:

Finally have got to bottom of Sigma Xi nominations, etc; (man, am I out of touch!). They will be accepted after mid-January, for election, etc., next Spring. I have a xerox of this letter posted to remind me to take care of it then. Perhaps you'll come up for the investiture?

Best.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et

*4<sup>00</sup> 29 April*

*Traverse*

8 September, 1981

Dr. John W. Bebout, Acting Chief  
Scientific Projects Staff  
U. S. Geological Survey, MS 620  
Reston, VA 22092

Dear John:

Your letter of...(grr, undated, circa 1 Sept.?)...was awaiting perusal and answer when all five of you walked in the door. Jonathan, Patrick and Andrew are very handsome kids, and we enjoyed seeing them--wish I'd had some "favors" to hand out--maybe next time.

No need to worry about long silences--as I get older, I note that weeks and months tend to blend into years almost imperceptibly. I often think of you--for one thing, you were fun to have around and never once gave me a sleepless night about anything at all. That is practically unique.

When you get into the Triassic-Jurassic deal, I hope the powers will let you share--that is my principal hope to keep funded for the benefit of graduate students.

Consider the Sigma Xi business handled. All the best. Regards to Ann et al.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et



# United States Department of the Interior

GEOLOGICAL SURVEY  
RESTON, VA. 22092

Dr. Al Traverse  
Dept. of Geosciences  
The Pennsylvania State University  
435 Deike Building  
University Park, Pa. 16802

Dear Al:

I'm embarrassed when I realize that almost a year has passed since I've written or talked to you. Between changing jobs and raising a young family, time always seems slightly out of control.

As you can see by the letterhead, I'm still with the Survey. I have "moved-up," however, to an administrative position. But, fortunately, I still have the time and facilities to do a little palynology. I'm currently tackling a correlation problem involving Cretaceous coals in Utah, and I'm soon going to begin a short study on the Triassic?-Jurassic section of some offshore Florida wildcat wells.

All goes well with my family. Ann has begun taking courses in commercial art (her first love), and I'll be teaching again in the fall at either George Washington University or one of the community colleges in the area. The boys are growing quickly and eating like teenagers already. It's hard to believe that Jonathan will be seven years old in February!

I also wanted to ask you if you would be willing to nominate me for full membership in Sigma Xi. It would be an honor, and it would also be a good excuse for my family and me to visit State College again.

I sincerely hope that you and your family are all well. And I apologize for being out of touch for so long. Please give my regards to everyone.

Sincerely,

Dr. John W. Bebout, Acting Chief  
Scientific Projects Staff

Enclosures

*Mail Stop 620*

80  
Dear Al and Betty,

We are better organized this Christmas, but just as busy. Jonathan and Patrick are in school half-days, and Andrew (now 15 mos.) is into everything. John continues to teach evening college courses in addition to his government job, and I've gone back to school part-time, working toward a degree in Commercial art. Once in a while, we spend an evening together!

As always, John enjoyed seeing you, Al, in Colorado, a trip I seriously considered taking with him. Perhaps another year...

We were in chair over Thanksgiving to attend my brother's wedding. The weekend was very beautiful, very special, but very cold. We are becoming

WITH WARM GREETINGS AND RENEWED HOPE  
FOR PEACE AND CONTENTMENT IN THE  
NEW YEAR

With fondest wishes  
for a happy holiday.

John & Ann  
Jonathan  
Patrick  
Andrew

Bob



St. Francis of Assisi

LORD, make me an instrument of your peace.. where there is hatred let me sow love.. where there is injury, pardon.. where there is doubt, faith.. where there is despair, hope.. where there is darkness, light and where there is sadness, joy. GRANT that I may not so much seek to be consoled as to console.. to be understood as to understand.. to be loved as to love.. for it is in giving that we receive.. it is in pardoning that we are pardoned and in dying that we are born to eternal life.

accustomed to Virginia's warmer weather (74° here yesterday).

We keep talking about taking a trip back to State College, and when we do, we shall let you know, as it would be my greatest pleasure to see you folk again.

I hope you and your family have a wonderful holiday.

dm

CHRISTMAS BLESSINGS  
CODE 6346

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XXXXX

18 June, 1979

Dr. John W. Bebout  
Conservation Division, USGS  
1725 K St., N.W., Suite 204  
Washington, DC 20006

Dear John:

Thanks so much for yours of June 6, and the handouts enclosed which will be indeed very useful. If I make reference to them, I will of course acknowledge the source.

It was delicious to hear about your continuing activities and especially good news that your thesis might appear as a "Contribution". I do hope that that eventuates, as it would reflect favorably on both you and me. I so often think of the delightful few days out there in North Dakota with you. That was really a high point of my life, and I have a yearning some September to go back out on some excuse or other and do more of the same. I can't remember a more beautiful and peaceful few days ever.

You are right that this has been a hectic year. When I get ICP off of my back next year and make a few other changes in my life which I contemplate, things should be a little easier. At the moment I have my mother with me here and am going to take her up with me to the meeting in Ottawa this week (symposium on plant evolution and a "mini-Council" for the ICP). After the meeting I'm going to drive mother down to the coastal provinces of Canada which she has yearned to revisit for years. I hope all goes well on that fairly extensive trip. Betty has just attended her college reunion in Boston and will skip the Canadian trip.

Best wishes, old friend. You were very good to keep up my spirits with such a nice and informative letter!

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et



# United States Department of the Interior

## GEOLOGICAL SURVEY

June 6, 1979

Dear Al,

With the onset of the summer term, I hope you're finding a little more time to devote to your personal interests. I know that this past year has been more than a bit hectic for you.

Things here go along at their usual pace (rushes, lurches, and screeching halts). Industry interest in the Atlantic OCS has been waning of late, but recent oil and gas shows are sure to turn things around.

The palynology of the OCS continues to be very interesting, and quite unique, and I'm not so busy that I can't work at my own research. I've just completed an interesting little paper on a new species of Phtharoperidinium, which I co-authored with Lucy Edwards. It includes an emendation of the genus, the main result of which has been to convince me that taxonomic and nomenclatural problems are not restricted to spores and pollen (the understatement of the decade).

I'm involved in several other projects right now, the major one being the preparation of a manuscript on my zonation of the Cretaceous section of the U.S. Atlantic OCS. I think it's quite worthwhile, since it's based entirely on terrestrial species (Graham Williams' dino zonation seems to work very well out there, but the non-marine sections have been a no-man's land. And a general paucity of angiosperm pollen in even the non-marine intervals pretty much precludes the use of Doyle *et al.*'s coastal plain zonation, even if we were working with core material rather than cuttings). To give you an idea of what I'm dealing with out there, I've enclosed a copy of a handout I gave out recently at a joint meeting of Canadian and U.S. Geological Survey palynologists. Note that the "names" have been tentatively applied. In addition, dashed lines represent published ranges in other areas. I've also enclosed a copy of some material that Ray Christopher gave out at the same meeting, which you may find useful for your palynology course.

Please give my regards to Betty.

John

P.S.

AASP appears quite interested in my thesis as a "Contribution!"

Bob Clarke presently has an edited copy (reduced by ca. 100 pages) which he is sending out for review.

22 March, 1979

Dr. John W. Bebout  
Conservation Division, USGS  
1725 K St., N.W., Suite 204  
Washington, DC 20006

Dear John:

Whoops! I just opened yours of 7 March, and I notice that the next slip of paper in my pile was one that said "send birthday card to John Bebout" for 12 March. I blew it!--not the first time. Regarding the Golden Valley monograph, I think AASP Contribution Series would be fine if they would take it. However, it is somewhat out of line with the announced policy for the Contribution Series as being hard to interpret as a general treatment. The important thing, however, is to get it into print, so it is available to us all in published form. This would be a practically important question and also would reflect very favorably on Dr. Bebout. Indeed, your failure to get it into print, would be a very serious tactical mistake, perhaps even a strategic error. So if AASP Contributions would take it, fine. If, on the other hand, you decide to go with say GSA Monographs, or whatever, you should send it off in a xerox copy of its present form to its prospective publisher and let the chips fall where they may as far as re-typing is concerned. I suspect that they will not demand as extensive re-typing as you think, though headings and so forth would have to be re-done to keep it within the scope of whatever source we're talking about.

Have you really totally exhausted the possibility of USGS publication? When I was with USBM, I was getting so fed up with deals with GSA re a monograph, that I just flashed it through as a USBM R.I., and there was no difficulty at all (tho' Betty did have to retype a large part of it). Has the Survey actually vetoed the idea?

Hope this helps. Best wishes.

Yours very truly,

AT/et

Alfred Traverse  
Professor of Palynology



Date 03/07/79

TO: A1

---

Just a short note...

As I mentioned in my last letter, my major problem with the Golden Valley paper lies in getting it re-typed in a new format. Norm Fredriksen seems to have come up with a viable solution, however. He suggests publishing the manuscript in the AASP contribution series. Because I'd have complete format choice, minimal re-typing of my thesis would be required.

Any feelings on this?

John

---

**U.S. GEOLOGICAL SURVEY**

CONSERVATION DIVISION  
EASTERN REGION

WASHINGTON, DC 20006

TEL. NO. (202) 254-3137

22 February, 1979

Dr. John W. Bebout  
Conservation Div., USGS  
1725 K St., N.W., Suite 204  
Washington, DC 20006

Dear John:

Thanks for yours of 5 February. Thank God your handwriting is legible. One doesn't get too many cursive missives these days.

It is too bad about the paper, but my main concern is that it mustn't deflect you from getting the main monograph published as soon as possible. After all, I dreamed up that project about 30 years ago and have a proprietary interest in seeing it finally in print. I should add that the field work in your company was one of the most pleasant interludes of my life!

Glad to hear about the expanding family. What fun!

We're very busy here, as usual--16 in 423 this year--very good bunch. Included: Norrie Robbins and Sherry Allshouse, both USGS persons on reprieves, and Volkan Ediger, a professional palynologist from the Turkish national petroleum company. (Mrs. Ediger is a dentist(!), and they are newlyweds, about 30 years old. We have enjoyed them very much--they leave tomorrow for Ankara.)

I have almost no time to do any research, which is too bad, as I am still full of ideas and ambition! Next term, for example, I give Geosc 21, and there will be a big bunch of 526 people (7 or 8). Also, the ICP presidency has been costing me sleep--first because the AASP, alone among all palynological societies in the world, has been sniping at us, second because of being caught in the ROC-PRC crossfire. (We have had an application from Taiwan, as well as feelers from Peking.) It has been complicated, and is as yet unresolved.) However, the V-IPC is next year, and then I'll only be an ex-president! I never intend to get so deeply involved in scientific "politics" again. I've done my share, and it is an almost completely thankless adventure. Example: I played a critical role in the birth pangs of AASP, shepherding it carefully for the first 2-3 years, but the current leaders not only did not recognize my presence as ICP President at Phoenix but actually harassed the Secretary-Treasurer (Geoff Norris) and me.

Bebout, pg. 2

Very best wishes to Anne and the family.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et

February 5, 1979

Dear Al,

Thanks for the piece on Dr Wernstedt. It would be interesting to get his feeling about the "best choice" for meteorological data on China.

You're right about paleoclimatology being difficult. I'm afraid I over-extended us a bit by using apparently incomplete data and Wolfe was certainly not shy about informing us of the fact.

Both Leo and Ray Christopher tell me that this is pretty typical of the man.

I don't see much to be gained in rewriting the paper. Although I can demonstrate that the genus Cercidiphyllum occurs in Guoman, I must assume that Wolfe is right about the mutual association of Platycarpa, Eurocommia, and Pterocarya in three provinces besides Hupeh & Kweichow. Thus, regardless of the weather data used, precise figures really can't be calculated.

All goes well here. Drilling on the OCS is still hectic (albeit unimpressive) and I have enough work to last 10 years. I'm accumulating a great deal of very useful biogeographic data. Some of this info will appear in press soon, with more (and the last) to follow later.

Ann sends her regards, and also her  
congratulations on Martha's marriage (to an actor?).  
Ann is keeping quite busy with our new house, our  
two boys, and a third child on the way.

Leo has also been offering me to publish the  
Golden Valley manuscript. I would like to send it to  
"Paleontographica," but I need a typist to make the  
necessary format changes. Money is very tight right now,  
so this is a major problem. I'll let you know what  
happens.

Please give my best to your family.

John  
Bebout

4 December, 1978

Dr. John W. Bebout  
Conservation Division, USGS  
1725 K St., NW, Suite 204  
Washington, DC 20006

Dear John:

The blast from Wolfe was a jolt, eh? As I read it, he may well be right. Here are several of my reactions:

1. PSU Meteo people really let you down!?
2. Did Leo.H. really give the paper close scrutiny as I urged you to arrange? (I was a bit nervous about the thing because paleoclimatology is so very difficult.)
3. I hope this doesn't keep you from getting out the meat of your work, which is the basic palynological study that should be published as a monograph soon.

Hang in there. Think of my problems. (In addition to usual December rat race, Martha is getting married on 16 December, and IRS is auditing me.) All the best.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et

28 September, 1978

Dr. John Bebout  
USGS, Conservation Division  
1725 K St., NW, Suite 204  
Washington, DC 20006

Dear John:

I got the message from you about the paper and tried to follow instructions by calling you collect this morning. I gather that Betty's news that I was sick yesterday was too much for you, because they reported you were not in the office but out on sick leave, so I figured that a letter was as good as a call. Your proposal to put the paper in Palynology seems fine to me. I have not had a paper in one of the Elsevier publications for a very long time, and that seemed somewhat attractive, but it doesn't really matter at all. I am interested in hearing your comments about some of the technical matters that I raised, however. Hope you're not seriously ill. Best wishes.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et

P. S. I found this letter, dictated yesterday, on the tape just after I talked to you on the phone, so now you have it in writing. Carry on.

Betty



United States Department of the Interior

GEOLOGICAL SURVEY

August 30, 1978

Dear Al,

Enclosed is the manuscript for our Golden Valley paper. Feel free to give full vent to your editorial skills!

I have attempted to follow the manuscript format for "Palaeogeography, ... climatology, etc." This format is given in detail in the first issue <sup>of</sup> every year.

I didn't write the acknowledgements, but we can add those after the editing.

I have also prepared a copy of the manuscript for Leo's perusal. I'll send you his comments.

John



31 January, 1978

Dr. John W. Bebout  
USGS, Conservation Division  
1725 K Street N.W., Suite 204  
Washington, DC 20006

Dear John:

The enclosed copy of letter to Leo Hickey is self-explanatory. I wonder if it isn't a bookkeeping error of Leo's. I seem to recall having discussed the matter of the loaned materials with you before you left here, and you assured me they had been returned. In any case, would you contact Leo directly--I would think a telephone call would handle it from where you are, and then drop me a postcard or something to let me know it has been taken care of. I'm also enclosing a copy of Leo's original letter to me.

Best wishes to you, Ann and the boys. You may remember the nice plant that you gave us when you drove through on your way out. I have propagated it somewhat and have three such now! We are having a terrible time with snow and ice up on our hill, and if I knew that this was to be the rule for winters of the future I would have to have thoughts of making other housing arrangements!

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et  
encl: copy of Letters to and from Leo Hickey  
cc: L. Hickey

XXXXX  
865-2342

14 October, 1977

Dr. Robert A. Love  
Associate Dean for Science & Mathematics  
Prince George's Community College  
301 Largo Road  
Largo, MD 20870

Dear Dr. Love:

Thank you for yours of 29 September regarding my former student, John Bebout. It was somewhat startling to hear that he was contemplating a part-time position teaching in your division of science and mathematics because I thought that he was pretty fully occupied at the US Geological Survey.

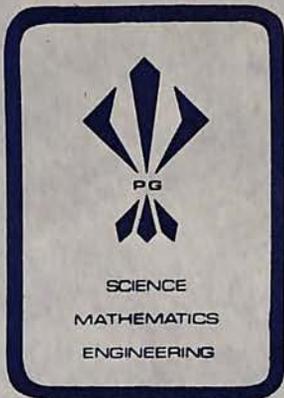
However, there certainly is no reluctance on my part to recommend John. He is ~~gogod~~ a fine field scientist, a good laboratory man. He has fine training in all aspects of paleontology but is especially strong, of course, in palynology and paleobotany. He is, withal, a good geologist, a very pleasant fellow to be with in the field and elsewhere, he is thoroughly dependable and has an exemplary personal life. I know of his teaching ability also from his having helped me with my teaching at Penn State on several occasions. The students received him very well--perhaps even liked him better than they did me!

If there is any further way in which I could help John's cause, do not hesitate to phone me (number above on letterhead).

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et



PRINCE GEORGE'S COMMUNITY COLLEGE

September 29, 1977

Dr. Alfred Traverse  
529 Deike Building  
Pennsylvania State University  
University Park, Pennsylvania 16802

*file*

Dear Dr. Traverse:

John Wardell Bebout has recently been employed by Prince George's Community College for a part-time position as a faculty member in the Division of Science & Mathematics/Engineering. Your name was given as one who is acquainted with this individual's qualifications and abilities.

Your written comments relative to this matter would be appreciated. Also, please call at (301) 336-6000, Ext. 294, if you prefer a spoken communication. In either case, your timely attention to this request will be of benefit to the individual and to this institution.

Thanks in advance for your time and consideration.

Sincerely,

Robert A. Love, Ph.D  
Associate Dean for Science & Mathematics

RAL/md

26 April, 1977

Dr. John W. Bebout  
USGS, Conservation Division  
1725 K St., N.W., Suite 203  
Washington, D.C. 20006

Dear John:

Thank you so much for your nice letter of 5 April, which I am answering from my hospital bed where I await surgery tomorrow morning for the problem with my arm. Among other things, this certainly means that the hoped for trip to D.C. will have to wait.

Glad to hear that the thesis was duly accepted, and I look forward to getting the bound copy which will have an honor place on the shelf.

Regarding duplicate reprints, you certainly are first in line. The only problem is getting me organized to go through my collections and make some decisions about many of them. In the meantime, I will certainly keep in mind your interest and will send along things which may happen to pop up. As far as reciprocation is concerned, the most important contribution you could make would be to help me gain access to the USGS library when I come down.

I appreciated your letter very much and look forward to seeing you again. Best wishes to Ann.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et



United States Department of the Interior

GEOLOGICAL SURVEY

1725 K St., N.W., Suite 213

Washington, D.C. 20006

April 5, 1977

Dear Al,

Karen called me the other day and told me that my thesis has been accepted by the Graduate School. I had previously made arrangements to have copies bound as soon as the Graduate School okayed it, so you should be receiving your copy at any time.

I'm sorry to hear that you're having medical problems. But as far as your visit to Washington goes, plan it any time that's best for you.

If you're still looking for a "worthy recipient" for your duplicate reprints, I'd like to volunteer. I'm finding the procurement of a good library my most difficult task. I'm personally responsible for the paleontology of all the Recent, Cenozoic, and Mesozoic, so anything you have available would be greatly appreciated (particularly some of the more "classic" papers).



As far as reports go, there's little I can do  
to reciprocate. I do have access to all USGS publications,  
however (Prof. Papers, Bulletins, Circulars, Journal of  
Research, etc.). I would be glad to obtain copies of any  
of these for you at no cost.

Enjoy the Easter season, and I hope your good-  
health returns with the Spring.

Sincerely,

John

Bebout

30 March, 1977

Dr. John W. Bebout  
1725 K St., N.W., Suite 204  
Conservation Division, USGS  
Washington, D.C. 20006

Dear John:

My trip to Washington still seems some time off, and I have some medical problems on the possible horizon which would preclude it altogether for the time being. I certainly will give you plenty of warning for such a visit!

What is the latest status of my copy of your thesis? I just don't ~~want~~ want that to get lost in the shuffle.

Regards to Ann and best wishes to you for the Easter season when it comes.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et

15 March, 1977

Dr. John W. Bebout  
United States Geological Survey  
Reston, VA 22092

Dear John:

I'm using the return address per the envelope in which your letter came, but it doesn't seem to agree with my memory of where you said you would be! (My information says K St., D.C.) Perhaps you will clear this up for me and send telephone numbers if they are different from the ones you gave me, etc.

I very much enjoyed your letter and the message that I would be welcome to visit you down there. Things are at sixes and sevens here between Lent, the start of the new term, the problems of getting established as the new ICP president, and such mundane matters as getting my son's automobile put together and returned to him in Philadelphia. In other words, my bibliographic visit to the USGS library will be a little while yet in coming. However, I must tell you that it is nice to know that I would have a place to put my head within the scope of the present budgetary considerations--that is to say, I have no money for travel!

Thanks again for writing. Give my regards, please, to Ann. It was a great pleasure having you here these past four years, though I suppose there must have been times when you wondered if I cared at all. I hope you realize that I am pretty badly overcommitted! See you sometime in the spring, I hope.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et

ms. / 14-1197



United States Department of the Interior

GEOLOGICAL SURVEY

March 2, 1977

Dear Al,

It's somewhat hard to believe, but Ann and I are finally moved in. The move was very hard on the children which made it doubly difficult for us. But now that the majority of the boxes are put away, and all appliances are installed, we're very comfortable in our new home.

My job is getting off to a slow, but positive, start. Ninety-percent of my time is taken up with felling out forms, but during the other 10% I am managing to line up the equipment I need for the new lab. This morning I went out to Reston to see a new line of Jitz microscopes and was very impressed. Only the Zeiss line can even hope to compete. If my equipment list is approved, I expect to have some beautiful facilities.



Should your plans for a visit to  
Reston materialize, Ann and I would enjoy having  
you as a houseguest. My home phone number  
is 703-569-0989. Finding our house is  
not difficult and I'd be glad to send you  
detailed directions.

Please give my regards to everyone  
and I hope to see you soon.

Sincerely,

John Bebout

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

1. Oktober 1998

Prof. Dr. Th. Bechstädt  
Geologisches Institut  
im Nauenheimer Feld 234  
D-69120 Heidelberg, Deutschland

Sehr geehrter Prof. Bechstädt,

gestern habe ich von einer Kollegin in Deutschland erfahren, dass Andreas Köppen gestorben ist. Meine Frau und ich sind von diesen traurigen Nachrichten sehr getroffen. Herr Köppen war einmal eine Woche oder so bei uns auf dem Land zu Gast gewesen. Obwohl wir in letzter Zeit nichts von ihm gehört haben, haben wir sehr schöne Erinnerungen von jenen Tagen und wir können kaum glauben, daß dieser junge Mensch nicht mehr lebendig ist.

Wie sie unten sehen können, bin ich jetzt im Ruhestand. Es bedeutet nur, daß ich nicht mehr die Palynologie unterrichte. Meine Forschungen werden weiter gehen. Insbesondere habe ich immer geplant, die Arbeit mit den Proben von Herrn Köppen zu vervollständigen. Ich habe ein neues Zimmer zu Hause bauen lassen, um ein Arbeitszimmer für die Mikroskopie dort zu haben. Es ist jetzt fast fertig. Ich mußte meine Zimmer an der Uni dieses Jahr ausräumen, aber ich darf das Präparationlabor noch behalten, und ich habe noch ein Zimmerchen wo ich arbeiten kann. Wir haben auch eine kleine Wohnung in der Stadt gekauft, wo ich auch arbeite. Wegen dieses Umzugs bin ich sehr im Verzug geraten, aber ich kann jetzt wieder Fortschritte machen. Ich habe dieses Jahr schon zwei Artikel publiziert.

Ich fühle mich Ihnen schuldig, da Sie für die Vorbereitung der Köppen Proben bezahlt haben, und Sie haben relativ wenig von mir bekommen. Darf ich weiter mit den Proben arbeiten und haben Sie noch Interesse an die Informationen die ich entwickeln könnte?

Ich habe noch eine Bitte. Ich möchte Köppens Eltern ein <sup>em</sup> Brief schicken, wenn Sie es für hilfreich halten. Könnten Sie mir bitte ihre Adresse schicken?

mit freundlichen Grüßen  
Ihr

Alfred Traverse

Professor Emeritus of Palynology

March 7, 1969

Dr. Charles B. Beck  
Botany Department  
University of Michigan  
Ann Arbor, Michigan 48104

Dear Charlie:

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 and 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

Esbeck  
Fidelity Union Skin  
100% COTTON  
December 16, 1968

Dr. Charles B. Beck  
Botany Department  
University of Michigan  
Ann Arbor, Michigan -48104

Dear Charlie:

Did I ever thank you for the reprints of your article with Namboodiri on the conifer primary vascular body and of the article by Pettil and you on Archaeosperma? Both very interesting. The "seed" paper was especially beautifully illustrated. Chester Arnold must be delighted that your work was so fruitful (if you'll pardon the expression) with his old collections from (of all places) Pennsylvania. Shows the advantage of collections and careful preservation of them!

Best wishes of the season to you!

Yours very truly,

Alfred Traverse  
Associate Professor of Geology

AT:kwc

Dept. of Botany  
Cornell University  
Ithaca, New York  
13 August 1953

Dr. Alfred Traverse  
Lignite Research Laboratory  
Box LL, University Station  
Grand Forks, North Dakota

Dear Dr. Traverse,

Thank you very much for the reprints and your letter.

I'll be quite glad to tell you something about the research I'm doing. Since this part of New York is solely Devonian rock for a considerable depth, as you most likely know, it is logical for a paleobotanist at Cornell to be most interested in Devonian floras. Such is the case with me. The material which I am working on at present is in Upper Devonian rocks and is mainly compression material with some structure preserved in pyrite. There are several different plants in this material, but most of the plant remains are quite similar, externally at least, to Aneurophyton. On the basis of internal anatomy, however, this plant material does not seem to be Aneurophyton, and may be a new genus.

Since so many Devonian genera are quite similar in external morphology, i.e., with dichotomous branching and recurved ultimate "pinnules", etc., it seems very fortunate to find material showing both external morphological characters as well as anatomical features. In manner of preservation, my material is very similar to the Rachophyton zygopteroides of Miss Leclercq. It is quite similar in other ways also, which of course, is of considerable interest to me.

Although I have not been particularly precise about my findings, I hope this will give you a general idea about the type of work I am doing.

I was particularly interested in your summary paper on the micro-flora of the Brandon Lignite, primarily because of its significance to the fields of plant taxonomy and plant geography. Consequently, I am very anxious to see your monograph of the micro-flora of this coal.

Sincerely,

*Charles Beck*

Charles B. Beck

Criticism of the paper "Studies of New Albany Shale Plants. I. *Stenokoleos simplex*  
(Read and Campbell) comb. nov."

by

✓ Charles B. Beck

This paper is very long on review of the literature and taxonomic-phylogenetic analysis but rather short on actual work with the specimens. Since there seem to have been only three specimens available, it presumably was impossible to make a thorough vertical analysis of section series with diagrams showing the vascular strand relationships, and for the same reason study of good longitudinal sections may have been impossible. Recognizing the paucity of the material, the author should have gone very easy on speculation about matters that could not be known more accurately from the specimens in hand. I refer to anatomical details that can't be studied without longitudinal sections and to phylogenetic matters about which it is very risky to speculate on such scrappy material, about which next to nothing is known as to connections with other organs, etc.

In brief, my reaction to this paper is that it will be considered an interesting contribution to the study of Devonian ferns and ought to be published in substantially the present form, if the author desires. I do have, however, some negative comments for the record and which I would appreciate the author considering. They are as above, and more specifically, as follows:

(p. 2, l. 12: *Callixylon newberryi* should include the author citation, and both this name and that of *Foerstia* in the same line should be completely italicized.)

p. 6, at bottom: The statement, "surrounding the xylem strand is an essentially parenchymatous tissue which, apparently, is the phloem." This is getting rather out of the realm of the observational into the speculative, since the author admits he hasn't seen the tissue in longitudinal section, or at least not in slides that showed the characters well enough to satisfy him that he was sure what he was seeing.

p. 7, top paragraph: After some discussion about the peculiarity of fibers in the phloem in this plant, the author states that he has not seen the cells in question in longitudinal section yet asserts that there is no doubt of their being in fact fibers. I think this is a startling opinion, as the chances of the cells being in fact sclerenchyma seem as good or better to me.

(p. 12, l. 23: Editorial comment--split infinitive here, "to positively assign.")

p. 18: General comment. I think the speculation here on the alleged intermediacy of this fossil between pteridosperms and ferns is entirely out of line. It is a speculation based in turn on a speculation (the reference of *Tetrastichia* and *Tetraxylopteris* to the pteridosperm neighborhood).

*Alfred Traverse*

Date: Thu, 03 Jul 1997 11:29:54 +0000  
From: "John H. Beck" <beckjo@bc.edu>  
Reply-To: beckjo@bc.edu  
Organization: Weston Observatory  
To: Alfred Traverse <traverse@ems.psu.edu>  
Subject: Re: spores  
References: <199706251554.LAA01804@pangaea.ems.psu.edu>

Dear Al:

Thanks for the information about South Mountain...I look forward to reading Traverse & Schuyler 1994.

One of Paul's students (a canadian working on Joggins, NS) and I will be poking about the Silurian Allenport section next week, and again in central PA for another week toward the end of July. It would be very nice if you could spare a half day for a trip to see Red Hill or some other favored nearby Devonian/Carboniferous locality. I'll call you closer to the time if our plans hold up.

Good luck on the arm surgery. It doesn't sound like much fun.

John

P.S. Paul thanked you for your vote in a very hubristic manner...

To: beckjo@bc.edu  
From: traverse@ems.psu.edu (Alfred Traverse)  
Subject: spores  
Cc:  
Bcc:  
X-Attachments:

Dear John:

Yours of 17 June came on the day we left for a week at our place in the Adirondacks. We are just back today. To a very hot building in which the A/C has died.

It is true that I have a palynological project on the Red Hill section, in collaboration with Ted D. I hope to have it ready for publication before the end of the year, but it is not as yet published.

South Mountain: I have samples but have not studied them as yet. However, Schuyler and I studied many samples of equivalent age in the same area.

You apparently have not seen Traverse & Schuyler 1994, which adds a lot to the 1990 paper that you cite. I am sending you a copy.

I have no travel plans for July and August--but I do have arm surgery for 15 July, and probably will be healing from that for ten days or so.

Give me a call when you are in the area, and, who knows, I might be able to join you. It would be fun. Hi to Paul, and tell him I voted for him.

Best. Al.

Date: Tue, 17 Jun 1997 12:47:56 +0000  
From: "John H. Beck" <beckjo@bc.edu>  
Reply-To: beckjo@bc.edu  
Organization: Weston Observatory  
To: traverse@ems.psu.edu  
Subject: Reprint request

Al,

Greetings. Recently I've been in contact with Bill Shear who sent me a few shale samples from two localities...Red Hill, PA and South Mountain, NY. For a while I've been wanting to "move up" section a little, and it seems that the Devonian will provide the smallest shock to my Silurian blood. Anyway, via Daeschler we know that you have a paper in press about Red Hill. Is this true? If so, could you please send a reprint out to Weston at your earliest convenience? You may address it to Paul or myself...it all eventually goes in the same file anyway.

As for South Mountain (Oneonta Fm, Lower Frasnian, locality 4 of Banks, Grierson and Bonamo 1985), do you know if any palynology has been done? I am just starting to read Schuyler and Traverse 1990 (and references therein). Bill Shear has enjoyed looking for bugs in this section, but would like to confirm the age as the samples may not have come from the exact locality. While I wait for my dissertation on Arisaig to be read, I told him I would give it a stab.

Paul sends his regards and wants to know if you can spend a day or two in the field this summer? We'll be out and about in July looking at the usual Silurian sections....maybe even Red Hill if I have my way!

Thanks again.

*file as corresp.*

Herman F. Becker to members of the  
Paleobotanical Section of the B.S.A.

BLOOMINGTON, IND., Aug. 25, 1970

A PROPOSED NEW CATALOGUE OF CENOZOIC AND MESOZOIC PLANTS OF  
NORTH AMERICA

A continuation and expansion of LaMotte's "Catalogue of Cenozoic Plants of North America through 1950" is urgently needed.

At the Botanical Congress in Seattle, 1969, such a revised catalogue was discussed with Drs. Chaney, MacGinitie, Arnold, and others, and various suggestions were made. I have tentatively agreed to undertake that work, beginning in 1971, and possibly completing it by 1975. A close collaboration with Dr. Chester A. Arnold is contemplated who will undertake the Mesozoic section of the catalogue.

A combined Mesozoic and Cenozoic fossil reference work seems appropriate and is needed by all workers in the field. Whether or not there will be one or two volumes remains to be decided. Separate volumes for each era, however, are less cumbersome and preferable.

In order to accumulate all available data, and in order to avoid shortcomings and post facto criticism, the cooperation of all paleobotanists is urgently needed. It is suggested that every author of paleobotanical papers containing species of macro-fossils from the Mesozoic and Cenozoic submit these data to Arnold and Becker respectively. Any bibliographies, species lists, combinations or other changes in species status that exist since 1950 should be reported at your earliest convenience, others as they become available. In this way no pertinent information will be omitted (hopefully), the authors having full representation of their work, and chances of data to be missed by Becker and Arnold become slim.

If perfection is expected in this endeavor, your cooperation and your suggestions are absolutely necessary. The sum-total of your cooperation will be reflected in the catalogue.

PROCEDURE. The following suggestions may make your help less time-consuming, and on my part and that of Dr. Arnold, may eliminate some of the tedious searching through bibliographies.

1. Mail all previous reprints or publications since 1950 to Becker (Cenozoic) or Arnold (Mesozoic) immediately. If so desired, these publications will be returned to you after the data are extracted.

2. Mail all reprints and publications as they are published to enable us to include the most recent data in the catalogue.

3. If at all possible, indicate lists of new species and/or any changes in taxonomic status for which you take credit.

SYSTEM OF CLASSIFICATION. In modern systems of taxonomic classification, Arthur Cronquist (U.S.A.) and Armen Takhtajan (U.S.S.R.) have arrived independently at a very similar phylogenetic-evolutionary sequence, both the culmination of many time-honored systems of botanical thought and philosophy. The phylogenetic order used in this catalogue is consequently based on Cronquist's "The Evolution and Classification of Flowering Plants" (1968). The use of this system also serves to acquaint the paleobotanist with the most recent accepted classification.

CONTENTS. The proposed catalogue is to be essentially a continuation and expansion of LaMotte's work since 1950. The following are suggestions on my part, subject to approval and changes, additions, deletions, and oral or written suggestions. Such information is needed and will be considered.

With the addition of Mesozoic material and the inclusion of data from the past 25 years, a voluminous expansion of the catalogue will result. For these reasons the following basic suggestions are made regarding the content of the catalogue.

1. BIBLIOGRAPHY, Catalogued Papers.

A complete omission of all palynology, since this field has grown to proportions where inclusion in the proposed catalogue would make it too cumbersome. A palynological catalogue is needed, but professional palynologists will have to tackle this work. This omission includes bibliographic references and species.

Large prominent groups of plants to be treated separately on a phylogenetic basis, i.e. beginning with Bacteria, Algae, Diatoms, Ferns, and Gymnosperms. This arrangement will facilitate perusal without a search through the entire catalogue, will save time in locating species, and present a compact overview of the entire field. The Angiosperms will follow in alphabetical order.

2. Phylogenetic arrangement of families and classes with genera alphabetically arranged and possibly page indication (following Cronquist, 1968).
3. An index of families alphabetically arranged.
4. A list and maps of States of all named Mesozoic and Cenozoic fossil localities.

Questions for basic methods consistent with a North American Catalogue.

1. Authors and their material from CANADA should be included
2. Should such references and species as follow to be omitted?
  - a. Erdtman (and others) on palynology.
  - b. Ettingshausen on Australia?
  - c. Kraeusel (and others) on European species } even though they may be synonymous with N.A. spp. ?
3. Should foreign bibliographies be considered separately (not mixed with N.A.) which pertain to Mesozoic and Cenozoic macro-fossils and which could be consulted for N.A. correlation? This may be desirable if foreign cooperation is forthcoming.

=====

Questions on selected examples of recent taxonomic revisions .

Note: As a matter of principle, Becker will not use modern names for fossil plants, a viewpoint which I have defended, sometimes against opposition. Paleobotanical nomenclature on the species level must be separate and distinct from that for modern plants and easily recognizable in this context. If this principle is not adhered to, a hopeless confusion will result in recognizing the fossil status of a species, especially in terms of discussion and correlation, and authorship. From a purely morphological and genetic consideration no fossil can be identical to a modern plant. Even leaves of one branch display a complete morphological dissimilarity.

Few random examples:

One author: Pinus monticola Douglas ex Lamb(modern) is used for the following fossils because: "All specimens on which the above citations are based are indistinguishable from the respective organs of the extant P. monticola."

P. latahensis, monticolensis, tetrafolia, quinifolia, wheeleri = P. monticola

Same author: Pinus ponderosa Douglas (modern): "The correspondence of fossil seeds, needles and cones often found in the same beds to the comparable organs of Pinus ponderosa is so close that the fossils should be assigned to the extant species."

P. florissantii and P. macrophylla = P. ponderosa.

Unless combinations or revisions are forthcoming (Becker,1969) the above-cited combinations will be relegated to the synonymy of the originally valid fossil names.

Becker: Abies laticarpus MacGinitie revised to A. laticarpa MacG. (Becker,1961) In listing this species in the catalogue, which comes first?, the presumably correct A. laticarpa, or A. laticarpus MacG. = A. laticarpa, and after the original reference (MacG.) Becker's change and reference? Several other species are thus involved.

Brown's Salix cockerell Brown = Salix cockerelli Brown (Becker,1960) was found to be equivalent to Salix wimmeriana Goeppert,1855 (Becker,1969). Assuming the responsibility for correctness of the synonymy, S. cockerell and cockerelli would be cited in the catalogue as synonyms under S. wimmeriana.

Who is to decide which combinations are to be valid, an important question for the accuracy of the catalogue. Not all authors do agree on certain combinations. I see in LaMotte changes and combinations which were not validly published elsewhere. I do not propose to follow this practice unless I had personally published such changes or amendments.

Shall we, for example, use Chaney and Axelrod's Rejections and Systematic Revisions (1959, Miocene Columbia Plateau,207-224) in its totality as correct, amending the citations at their proper place in the catalogue?

You are well aware that the assemblage of a catalogue of this nature represents a tedious and time-consuming effort, but in its completeness an up-to-date synthesis of fossil species and of invaluable assistance to all workers in the field.

WITH YOUR ACTIVE HELP AND COOPERATION YOU WILL BENEFIT, THOUGH I DO THE WORK.

Herman F. Becker  
Curator of Paleobotany  
The New York Botanical Garden  
Bronx, New York 10458

own

November 13, 1969

Dr. Herman F. Becker  
New York Botanical Garden  
Bronx Park  
New York, New York 10458

Dear Herman:

The beautiful and much prized copy of "Fossil plants of the Tertiary Beaverhead Basins in southwestern Montana" arrived a little while ago. Needless to say, I am very grateful to you for letting me have this publication. I can imagine how much it is worth in hard cash, but its value to me for teaching is even greater.

It was good to see you again in Seattle after so long. Don't be too surprised if I pop in on you in New York one of these months or years. In the meantime, if fate brings you to central Pennsylvania please expect to spend some time with us. Thanks again for the beautiful publication.

Yours very truly,

Alfred Traverse  
Associate Professor of Geology  
and Biology

AT:vsi

December 15, 1967

Dr. R.C. Becker  
The Geological Society of America  
P.O. Box 1719  
Boulder, Colorado 80302

Dear Dr. Becker:

Regarding the recently (Nov., 1967) published membership list, two items on which I would appreciate comment and/or action:

1. I am not listed as affiliated with the Coal Geology Division through some oversight.
2. It is slightly galling that when one is "reinstated" by G.S.A., one's date of membership contains no hint of the fact that one may have belonged for ten years before dropping out temporarily. I wonder if there would not be a possibility in the future of carrying the original date of association with the society in brackets or something of the sort? It is possible to be forced to withdraw for a time by lack of employment, you know.

Yours very truly,

Alfred Traverse  
Associate Professor of Geology

AT:kwc

THE PENNSYLVANIA STATE UNIVERSITY  
DEPARTMENT OF GEOSCIENCES  
PALYNOLOGICAL LABORATORIES  
435 Deike Building  
University Park, PA 16802  
phone: 814-863-3419  
fax: 814-865-3191

27 August, 1990

Dr. Hazel E. Beeler  
Department of Paleobiology  
NHB 121  
Smithsonian Institution  
Washington, DC 20560

Dear Hazel:

How nice to get your newsy letter of 16 August! That you are married, for example, was something that hadn't come out before--nice to know.

By all means, if Deb. W. wants to take on a miospore project with you, let her do so! Of course, Marc Worona and I have done considerably more than just establish the presence of palynomorphs, and I would like to have gone on with it with you. However, you're 100% right in perceiving that with teaching, graduate student advising, other projects, etc., I am spread thin and have "a lot on my plate!" It will all happen faster with Deb, unless she has to move on.

I think November would have been o.k. for the field work (esp. early Nov.), and I am sure the housing you could provide would be fine. I'm not that hard to make comfortable. However, this is all "academic," if you can get Deb to take it over.

I hope you don't lose your job, but whatever, I am sure you'll come down on your feet.

All the best.

Yours very truly,

Alfred Traverse

AT/et

H.E. Beeler  
NHB 121  
Department of Paleobiology  
Smithsonian Institution  
Washington, D.C. 20560

16 August 1990

Dr. Alfred Traverse  
Palynological Laboratories  
435 Deike Building  
The Pennsylvania State University  
University Park, PA 16802

Dear Al:

I sympathize with your difficulties with your mother. My Dad had to deal with a similar situation with his own mother, years ago, and he said one of the hardest things he ever had to do was to go to her in the hospital (she had suffered a series of small strokes) and tell her she couldn't return to her home but would have to enter a rest home. She was a terrifically independant and tough old lady, and she lived alone until she was almost 90, despite having lost much of her hearing and virtually all of her eyesight.

I had hoped to be able to get the collecting done and the project underway before the end of this summer. In view of the terrible logjam in your schedule for several months to come, would you rather turn the project over to someone else? I've mentioned our proposed collaboration to Deb Willard, and she said that it sounds promising. If you anticipate having difficulty in finding the free time to do the collecting and lab work, I could (with your permission) ask Deb if she'd be interested in doing the study with me. I would of course acknowledge the work done by you and your student in determining that palynomorphs are present in the sediments.

November is usually a tolerable month in terms of field work, but conditions vary considerably from year to year. The year I did most of my dissertation research I was able to work clear into early January before things turned impossibly cold. On the other hand, last winter it turned bitterly cold in late November and snowed 5 or 6 times in December. My poor husband, who is a contractor, was trying to get a dock built, and he spent more time shovelling snow off his site and materials than he did constructing. He finally completed the job in early January, 2 weeks behind schedule, and the weather immediately went into a record-breaking warm spell. While the sun was shining and temperatures were in the 50's and even 60's, Michael was hard at work on his next job--finishing a basement! Basically, we can probably expect decent conditions for collecting in November, but it is the usual time of interface between fall and winter and therefore I can't be held responsible for the weather's good behavior. The sooner we can get out there, the better, and we may have to be flexible in choosing our days to collect in order to avoid bad weather.

I still have a base of operations in southwestern Virginia; my husband is living in Giles County, and we should be able to house you for a few days,

if you don't mind rather Spartan accommodations. If roughing it doesn't appeal to you, Blacksburg is 15-20 minutes from Michael's house, and it has the usual quota of Holiday Inns, etc. As I've said previously, we should be able to do all the collecting in a couple of days. I'm not tied to the academic calendar, so I can take off any time and there should be no problem in my getting time off. In fact, cutbacks in the Smithsonian budget may leave me with involuntary time off, and I may be in some danger of losing my job. However, nothing is likely to happen on that front before October.

Regards--

*Hazel*

Hazel

THE PENNSYLVANIA STATE UNIVERSITY  
DEPARTMENT OF GEOSCIENCES  
PALYNOLOGICAL LABORATORIES  
435 Deike Building  
University Park, PA 16802  
phone: 814-863-3419; fax: 814-865-3191

9 August, 1990

Dr. Hazel Beeler  
Department of Paleobiology  
NHB 121  
Smithsonian Institution  
Washington, DC 20560

Dear Hazel:

It makes me feel good to put that "Dr." in there!

Your comments on the WV project are most interesting. The idea of linking your megafossil ideas and data with the palynological evidence is very good.

Now, as to a joint field trip to the area--the problem is that I've had a dreadful summer because of the maternal difficulties I believe I told you about. I must go out to the Midwest about that yet again in 2½ weeks. Then there's Fall Semester and the MBG Symposium in Oct.--I'm giving an as yet unprepared paper. I believe realistically I can't get the required couple of days until November--is that too late for local conditions?

Enjoyed the typical Beeler postcard and the stamp's botanical subject.

All the best.

Yours very truly,

Alfred Traverse

AT/et

DEAR AL:

31 JULY 1990

I'M BACK FROM WYOMING,  
AFTER NEXT WEEK'S AIBS, I'LL  
BE FREE TO UNDERTAKE A  
SAMPLE-COLLECTING EXPEDITION  
WHENEVER YOU LIKE. SCOTT SAYS  
A COUPLE OF DAYS OFF CAN BE  
ARRANGED, SO THAT'S NO OBSTACLE.

I'VE COMPARED STUDENT'S DATA  
TO SITE INFO: S1 IS BLUEFIELD,  
TRANSPORTED; S2 IS HINTON, ~~IN~~  
SITU; S8 IS BLUESTONE, IN SITU.  
SO HIS RELATIVE AGES ARE WHAT  
WE'D EXPECT, BUT I'M NOT SURE  
WHAT CONCLUSIONS TO DRAW RE  
ECOLOGY.

THIS PICTURE IS THE STONY GAP I  
SITE (BLUEFIELD).

REGARDS - HAZEL Beal



DR. AL TRAVERSE  
DEPT. OF GEOSCIENCES  
PALYNOL. LABORATORIES  
435 DEIKE BLDG.  
PENN. STATE UNIV.  
UNIV. PARK, PA  
16802

THE PENNSYLVANIA STATE UNIVERSITY  
DEPARTMENT OF GEOSCIENCES  
PALYNOLOGICAL LABORATORIES  
435 Deike Building  
University Park, PA 16802  
phone: 814-863-3419  
fax: 814-865-3191

2 July, 1990

Hazel Beeler  
Department of Paleobiology  
NHB 121  
Smithsonian Institution  
Washington, DC 20560

Dear Hazel:

Yours of 22 June fun to read. I am picturing you down at the Smithsonian. My former (as an undergrad) student, Deb Willard, must be getting together with you, as she is working on lycopods too.

I have just been involved in two months of almost constant work and worry regarding my mother. Most recently I have spent 2 1/2 horrendous weeks closing her home, etc. The result of all this is that my own work is in a mess. It will be some months before I'm even partly back in gear--so the work on the West Virginia material will have to be back-burnered for a while. Your ideas about what to do seem very interesting. I agree with you that the field work can be done in a day or two--I would suppose I'd pick you up in DC, and we'd go on down to the Blacksburg area. Let's keep in touch about it. Thanks for the fascinating letter.

Best regards.

Yours very truly,

Alfred Traverse

AT/et



BEELER  
NOB 121

DEPARTMENT OF PALEOBIOLOGY  
National Museum of Natural History • Smithsonian Institution  
WASHINGTON, D.C. 20560 • TEL. 202-357-4479

22 JUNE 1990

A. TRAVERSE

PALYNOLOGICAL LABORATORIES  
435 DEIKE BLDG.  
PENN. STATE UNIV.  
UNIV. PARK, PA. 16802

DEAR AL:

I DON'T, UNFORTUNATELY, REMEMBER WHICH PICTURE I SENT YOU. I HAVE A HUGE STACK OF REJECTS, AND WHEN I NEED A POSTCARD I JUST GRAB ONE. (IF I SAW IT, I COULD TELL YOU WHICH ~~ONE~~<sup>SITE</sup> IT WAS.)

IN TERMS OF POTENTIAL STUDIES, I'LL LEAVE BIOSTRATIGRAPHY TO YOU. WHAT I'D LIKE TO COLLABORATE ON WOULD BE A STUDY OF DIVERSITY AS COMPARED TO WHAT I FOUND OUT FROM MEGAFOSSILS. DO IN SITU ASSEMBLAGES SUCH AS COALS AND UNDERCLAYS SHOW THE PRESENCE OF MORE THAN ONE TAXON? THE ONLY ROOTING ORGANS I FOUND WERE TREE LYCOPOD ONES, BUT STIGMARIAN ROOTLETS ALL LOOK ALIKE, AND THE EVIDENCE LINKING STIGMARIA STELLATA TO LEPIDODENDRON VELTHEIMI IS CIRCUMSTANTIAL AT BEST. I HAD ALMOST NO AERIAL PARTS— ALL OF 3, ALL APPARENTLY ASSIGNABLE ~~to~~ L. VELTHEIMI— HARDLY CONVINCING PROOF THAT ONLY ONE LYCOPOD SPECIES WAS PRESENT. SPORE STUDY COULD POTENTIALLY INDICATE WHAT THE SITUATION REALLY WAS (I'VE BEEN TOLD MEGASPORES ARE PARTICULARLY USEFUL FOR THIS PURPOSE?) AND MIGHT PICK UP OTHER PLANTS WHOSE PRESENCE I MISSED (SUCH AS EPIPHYTES OR SMALL HERBS). ACTUALLY, WE WOULD EXPECT THESE PARTICULAR ENVIRONMENTS

(BAY MARGINS AND ALLUVIAL SWAMPS) TO HAVE VERY LOW DIVERSITY (COMPARABLE MODERN ANALOGUES ARE ALSO EXTREMELY DEPAUPERATE), BUT IT WOULD CERTAINLY BE GOOD TO HAVE ADDITIONAL CORROBORATION.

THESE FINDINGS COULD THEN BE COMPARED TO ONES FROM TRANSPORTED ASSEMBLAGES (CREVASSE SPLAYS), WHICH WOULD HOPEFULLY HAVE MORE SPECIES AND GIVE US A HANDLE ON REGIONAL DIVERSITY. I DID SEE MORE DIVERSITY IN TRANSPORTED THAN IN IN SITU ENVIRONMENTS. (INCIDENTALLY, HOW POSSIBLE IS IT TO MATCH DISPERSED SPORES WITH THE PLANTS THEY CAME FROM?) IN ANY CASE, MY SECTION MEASUREMENTS AND ENVIRONMENTAL INTERPRETATIONS WILL MAKE IT POSSIBLE FOR US TO COLLECT SAMPLES FROM KNOWN ENVIRONMENTS AND USE THAT AS A BASIS FOR INTERPRETING WHAT WE FIND OUT.

ANOTHER POSSIBILITY I'M INTERESTED IN: BILL DI MICHELE DID A PAPER (REV. PALAEOBOT. PALYN. 44: 1-26) SEVERAL YEARS AGO COMPARING DICHOTOMOUSLY BRANCHED ARBORESCENT LYCOPODS TO ONES WITH ABSCISSING BRANCHES AND CONCLUDED THAT THE FORMER ARE MONOCARPIC AND AND THE LATTER CONTINUOUSLY REPRODUCING, AND HE USED SPORE DATA AS PART OF HIS EVIDENCE. LEPIDODENDRON VELTHEIMI APPARENTLY FALLS INTO THE LATTER CATEGORY (I FOUND ULODENDRON BRANCH-ABSCISSION SCARS, TYPICAL OF THE SPECIES), AND I WAS WONDERING IF ~~IT~~ IT FITS THE SAME PATTERN IN TERMS OF SPORE ABUNDANCE. I TALKED TO BILL, AND HE ALSO SAYS THERE'S SOME CORRELATION IN TERMS OF SPORE SIZE. WE MIGHT WANT TO LOOK INTO THAT.

NOW, FOR BIOSTRATIGRAPHIC PURPOSES, WILL SAMPLES FROM TRANSPORTED DELTAIC ASSEMBLAGES BE SUFFICIENT, OR SHOULD WE COLLECT FROM TRULY MARINE BEDS? THE FORMATIONS IN QUESTION ARE PRIMARILY MARINE, SO APPROPRIATE SEDIMENTS SHOULD BE AVAILABLE — THE ONLY POTENTIAL PROBLEM BEING THAT I DIDN'T MEASURE ~~ANY~~ MARINE SEQUENCES EXCEPT WHERE THEY



INTERFINGER WITH DELTAIC ONES, BECAUSE I WAS EXAMINING TERRESTRIAL PALEOECOLOGY. HOWEVER, SEVERAL MEASURED SECTIONS OF THE ENTIRE BLUEFIELD ARE AVAILABLE (HUMPHREVILLE, UNPUBLISHED THESIS, VPI), AND I CAN CHECK ON THE HINTON AND BLUESTONE IF YOU SO DESIRE.

SO HOW MANY SAMPLES WILL WE NEED, AND FROM HOW MANY SITES? THE SITES, WITH ONE EXCEPTION, ARE ALL ROAD CUTS, ABOUT AN HOUR'S DRIVE FROM BLACKSBURG, AND IT'S POSSIBLE IN MOST CASES TO BRING A VEHICLE VERY CLOSE TO THE OUTCROP, LEAVING ONLY A SHORT DISTANCE TO WALK (OR SCRAMBLE). MY PERCEPTION IS THAT UNLESS WE WANT A VERY LARGE NUMBER OF SAMPLES, THEY COULD ALL BE COLLECTED IN A DAY BY AN ENERGETIC PERSON WHO GOT AN EARLY START. IDEALLY, THIS COULD BE DONE ON A WEEKEND, BUT IF THAT'S NOT POSSIBLE FOR YOU OR WHOEVER DOES THE COLLECTING, I SHOULD BE ABLE TO ARRANGE FOR A DAY OR TWO OFF SOMEWHERE. I LEAVE FOR WYOMING ON 10 JULY AND RETURN 27 JULY, SO WE SHOULD SHOOT FOR SOME TIME AFTER THAT. I'M NOT TIED TO THE ACADEMIC YEAR, SO LET ME KNOW WHAT YOU WANT TO DO.

I BROUGHT YOUR STUDENT'S PAPER WITH ME, BUT FORGOT MY FIELD NOTES, SO I STILL HAVEN'T HAD A CHANCE TO COMPARE THE TWO. BUT I'LL BE BACK IN BLACKSBURG NEXT WEEKEND — I'M TRYING TO FIGURE OUT HOW TO GET MY DISSERTATION OUT OF THE COMPUTER DOWN THERE AND INTO ONE ~~UP~~ UP HERE SO I REVISE THE THING AND TURN IT IN. I PASSED

MY DEFENSE OK, SO THAT'S THE "ONLY" THING I HAVE  
LEFT TO DO.

REGARDS —

HAZEL

THE PENNSYLVANIA STATE UNIVERSITY  
DEPARTMENT OF GEOSCIENCES  
PALYNOLOGICAL LABORATORIES  
435 Deike Building  
University Park, PA 16802  
phone: 814-863-3419; fax: 814-865-3191

7 June, 1990

Hazel E. Beeler  
Department of Biology  
Virginia Polytechnic Institute & State University  
Blacksburg, VA 24061

Dear Hazel:

Thanks so much for the photo-card (unlabelled--please let me know what outcrop it is). I'm glad you agree that the samples offer some interesting possibilities for study--stratigraphic, paleoecological, etc. There is some diversity--among the lycopods, for example. There may well be significant information about relations between environments of deposition and spore concentrations. Etc. So, let's not give up on it!

It is wonderful to know you've got a job and are near to getting the ol' Ph.D. I was pulling for that.

All the best.

Yours very truly,

Alfred Traverse

AT/et

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fax: 814-865-3191

21 May, 1990

Dr. Hazel E. Beeler  
Department of Biology  
Virginia Polytechnic Institute and State University  
Blacksburg, VA 24061

Dear Hazel:

Here's a copy of the student's paper on "our samples." There are  
~~lots~~ <sup>number</sup> of mistakes, some of which are visible from my  
corrections. Nevertheless, he did a pretty good job, and the  
palynofloras are mostly (6 of 7 samples) fair to excellent. I  
tried to keep Marc off the question of the exact assumed  
stratigraphic level and geographic location of the samples until  
the very end of the project, because I wanted him to work without  
preconceptions. I believe this study is enough to show that  
palynology will "work" on your sections.

Where do we go from here?

Yours very truly,

Alfred Traverse

AT/et  
encl: xerox of term paper

DEAR AL:  
IT LOOKS LIKE PORE DATA  
RELATES MEGAFOSSIL DATA: VERY  
DIVERSITY, WALL-TO-WALL LYCOPODS  
NOT MUCH ELSE. I'VE NOT HAD A CHANCE  
TO COMPARE INFO ON INDIVIDUAL  
SAMPLES WITH ENVIRONMENTS THEY WERE  
COLLECTED FROM, BECAUSE I'M PACKING  
UP TO START A JOB AT THE SMITHSONIAN  
IN JUNE. I THINK WE CAN STILL DO  
OUR PROJECT AND WILL WRITE YOU IN  
MORE DETAIL NEXT MONTH WHEN I GET  
SETTLED IN. I'LL BE WORKING FOR  
SCOTT WING IN THE PALEOBIOLOGICAL  
SECTION. AND YOU'LL BE PLEASED TO  
LEARN THAT MY DEFENSE IS SCHED-  
ULED FOR 8 JUNE...

REGARDS-

Hazel

Becker



DR. AL TRAVERSE  
DEPT. OF GEOSCIENCES  
503 DEIKE BLDG.  
THE PENN. STATE UNIV.  
UNIVERSITY PARK, PA  
16802

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15 February, 1990

Dr. Hazel E. Beeler  
Department of Biology  
Virginia Polytechnic Institute & State University  
Blacksburg, VA 24061

Dear Hazel:

A student and I are working on your seven samples. Preliminary report: all samples are productive, though some contain huge amounts of woody debris and other plant tissues and only a few palynomorphs. Lycospora sp. is overwhelmingly dominant in the most productive sample, but there are many taxa present. Looks like a good paper in the making! More details and discussion of our next move at the end of the semester.

All the best.

Yours very truly,

Alfred Traverse

AT/et

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

7 June, 1989

Hazel Beeler  
Rt. 3, Box 1040  
Blacksburg, VA 24060

Dear Hazel,

I've been in Europe since 12 April until yesterday, so your problems with rain didn't matter much, as far as speed is concerned! Furthermore, as you can imagine, I am now utterly behind the 8-ball here, and it'll be a while before I get to your samples, but I will eventually.

The box with the 7 samples arrived in super order.

Because I have been gone so long I can't get away for the Toronto meeting. I am sorry to miss the chance to see you. However, one of these days I'll want to visit the Virginia localities.

Do pull out all the stops to complete your doctoral work. You should let nothing interfere with that.

All the best.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et

THURS 25 MAY 1989

DEAR AL:

~~THE~~ I'VE FINALLY COLLECTED THOSE LONG-PROMISED SAMPLES AND THEY'RE ON THE WAY TO YOU UNDER SEPARATE COVER. I APOLOGIZE FOR THE DELAY; I WAS PRETTY MUCH TIED UP WITH MY COMMUNITY COLLEGE TEACHING UNTIL THE FIRST WEEK IN MAY, AND SINCE THEN IT SEEMS TO HAVE DONE NOTHING BUT RAIN. OVER ONE 2-WEEK PERIOD WE HAD ONLY A SINGLE RAINLESS DAY. I DON'T MIND GETTING WET, BUT MY SITES ARE MOSTLY MUDSTONE AND POORLY LITHIFIED; THEY TEND TO BECOME UNWORKABLE SLOP WHEN WET. ANYWAY, WE'VE FINALLY HAD SEVERAL CONSECUTIVE DAYS THAT ALLOWED THINGS TO DRY OUT, AND I WAS ABLE TO DO THE COLLECTING. I TRIED TO COLLECT AN ASSORTMENT THAT WILL INCLUDE BOTH TRANSPORTED AND IN SITU ASSEMBLAGES. IT WAS DIFFICULT TO FIND THE APPROPRIATE SILTS. MOST OF THE BEDS ARE INTERDISTRIBUTARY-BAY MUDS, AND THE REST ARE PRIMARILY CREVASSE-SPLAY SANDS.

THE SAMPLES ARE LABELLED THUS: SITE, SECTION NUMBER, METERS. SO "DIVIDE RIDGE S1 → 8.7 M" WAS COLLECTED IN SECTION 1 AT 8.7 METERS, AND THIS CAN BE CORRELATED WITH THE FIELD SECTIONS I SENT YOU. THE DIVIDE RIDGE S1 SAMPLES ARE UPPER BLUEFIELD AND I WOULD EXPECT THEM TO CONTAIN TRANSPORTED ASSEMBLAGES. DIVIDE RIDGE S2 ARE LOWER HINTON AND PROBABLY IN SITU. HARMON BRANCH S8 ARE UPPER HINTON; 3.2 PROBABLY TRANSPORTED, 3.3 (THE COAL) IN SITU, 3.5 (ROOTED BUT WITH LOTS OF SEDIMENT INFUX) MAYBE BOTH. THESE COALS TEND NOT TO HAVE ANY UNDERCLAY. THEY ARE ROOTED DIRECTLY INTO THE UNDERLYING SAND IN MOST CASES.

I KNOW YOU WILL WANT TO LOOK AT THE BIO-STRATIGRAPHY AND THEREFORE WILL BE PARTICULARLY IN-

INTERESTED IN THE TRANSPORTED ASSEMBLAGES WHICH HAVE MORE DIVERSITY. MYSELF WANT KNOW IF THE PALYNOLOGY CAN GIVE ME ADDITIONAL INFORMATION ABOUT THE ROOTED SITES. ALL I HAVE FOUND IS WALL-TO-WALL STIGMARIAN ROOTLETS. IF OTHER, SMALLER PLANTS WERE PRESENT, THEIR ROOT TRACES COULD EASILY HAVE BEEN OBSCURED; NOR CAN I TELL WHETHER MORE THAN ONE SPECIES OF ARBORESCENT LYCOPOD WAS PRESENT. I UNDERSTAND THAT EXAMINATION OF LYCOPOD MEGASPORES IS USEFUL FOR DETERMINING ARBORESCENT LYCOPODS.

I DO HOPE THE SAMPLES PROVE TO HAVE SOMETHING USEFUL IN THEM, AND I'M LOOKING FORWARD TO HEARING YOUR VERDICT. PRESENTLY, MY TIME IS DIVIDED BETWEEN 2 PLACES: VPI (703) 231-5746 AND NEW RIVER COMMUNITY COLLEGE (703) 674-4595. UNTIL ABOUT 10TH JULY, I'LL MOSTLY BE AT THE LATTER (I'M TEACHING 1ST SUMMER SESSION), BUT YOU'LL PROBABLY HAVE BETTER LUCK GETTING ME AT HOME (703) 552-6080 AS THE COMMUNITY COLLEGE HASN'T SEEN FIT TO PROVIDE MY OFFICE WITH A PHONE. I TRY TO GET OVER TO VPI AT LEAST ONCE A WEEK TO COLLECT MY MAIL; IF YOU'D RATHER SEND CORRESPONDANCE TO MY HOUSE IT'S: RT. 3 BOX 1040, BLACKSBURG VA 24060. AFTER EARLY JULY I EXPECT TO BE SPENDING MORE TIME AT MY VPI OFFICE. I ALSO INTEND TO GO TO THE AIBS MEETINGS IN TORONTO. I HOPE TO SEE YOU THERE.

REGARDS —

HAZEL

H. BEELER  
RT. 3 BOX 1040  
BLACKSBURG VA  
24060

# VIRGINIA TECH

VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY

H.E. Beeler  
Department of Biology  
Virginia Polytechnic Institute  
and State University  
Blacksburg VA 24061

~~(703) 961-5746~~

703-231-5746 } new #

17 October 1988

Dr. Alfred Traverse  
Palynological Laboratories  
435 Deike Building  
Pennsylvania State University  
University Park, Pa 16802

703-674-3600

New Review  
Comm. Coll.

- 552-6080 home

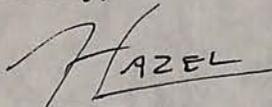
Dear Al:

Thanks for your letter of 10 October; I'm glad you think the proposed project has promise. I don't think you need to take the trouble and expense of coming down here. I'm enclosing the field data of all the sections I used in my paleoecological analysis, and all you really need to do is indicate to me where samples should be taken and I will take a couple of days and go out and collect them. If it's necessary for someone who has experience in palynology to collect the samples, you might want to send the student who will do the project down to accompany me in the field, rather than coming yourself. Unfortunately, the budget here will not pay for anyone's travel expenses.

With only a couple of exceptions, the outcrops I examined are road cuts along major highways, so access to them is not a problem. They are all about an hour's drive from Blacksburg, and I expect the samples could all be collected in two or three days, depending on the number needed per outcrop. If you want me to do the collecting, just tell me how large the samples have to be, how they should be labeled, and what precautions I need to take to ensure they don't get contaminated. Is unweathered material preferable to weathered? We can expect to have some good weather until well into December and possibly beyond, if you want the samples collected this fall.

I might note that I did not measure the formations in question in their entirety, but only the terrestrial elements and the beds immediately above and below them. However, if extensive sampling of the marine environments is desirable, complete sequences of the Bluefield Formation are available and were measured by Humphreville, whose unpublished M.S. thesis including section data is in the geology library here. I don't know what kind of measured section data is available for the entire Hinton and Bluestone, but I can find out if necessary. There are large exposures of the marine portions of both formations: the Bluestone Formation along Interstate 77 north of Princeton, WV., and the Hinton along Rte. 460 west of Glen Lyn. My own interest, of course, is in the environmental and floristic interpretations of the terrestrial sequences. I look forward to hearing from you.

Sincerely,

A handwritten signature in dark ink, appearing to read "HAZEL". The signature is written in a cursive style with a horizontal line underneath the name.

Hazel E. Beeler

THE PENNSYLVANIA STATE UNIVERSITY  
DEPARTMENT OF GEOSCIENCES  
PALYNOLOGICAL LABORATORIES  
435 Deike Building  
University Park, PA 16802  
(814)863-3419 or (814)865-6393

10 October, 1988

Dr. Hazel E. Beeler  
Department of Biology  
Virginia Polytechnic Institute and State University  
Blacksburg, VA 24061

Dear Hazel:

Surely we're on a first-name basis? Yours of 19 August came here while I was at the paleobotanical and palynological congresses in Australia. Since returning on 6 September I've been too "took up" with catching up with the Fall September (began in my absence on 24 August) to do the correspondence, but here I finally am. I hope you hadn't given up.

Yes--your project sounds very good and very interesting, and I would like to be involved. I have several new graduate students, and perhaps one of them could get a thesis out of it (M.S.? Ph.D.?). Maybe I should visit you to confer about this in detail, with reference to a possible small grant proposal to cover the inevitable expenses, etc. But I can say immediately that it is just the sort of project I like.

Looking forward to hearing more, I am

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et

**VIRGINIA TECH**  
VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY

H.E. Beeler  
Department of Biology  
Virginia Polytechnic Institute  
and State University  
Blacksburg VA 24061  
(703) 961-5746

19 August 1988

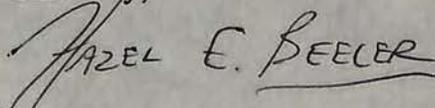
Dr. Alfred Traverse  
Department of Geosciences  
435 Deike Building  
Pennsylvania State University  
University Park, Pa 16802

Dear Dr. Traverse:

I have just completed a study of the terrestrial paleoecology of the Upper Mississippian Bluefield, Hinton and Bluestone Formations of southwestern Virginia and southern West Virginia. My work, which has been submitted for publication, indicates that the floral diversity of that time and environment (distalmost portions of delta lobes) was extremely low. It has been suggested to me (most notably by Tom Phillips) that a correlative investigation of the palynology would be desirable, but my background and experience in palynology are minimal. Have you a student or someone who might be interested in a collaboration with me on the palynology? I have recorded extensive measured sections of the formations in question, and I can collect samples from known depositional environments. We might get a handle on not only the local diversity (which we would expect to be low, because the environment was so stressful), but on regional diversity and transport. In addition, it would probably be possible to correlate the formations with their time equivalents in Europe and elsewhere in North America. The sequence has previously been dated only by use of marine invertebrates (see Henry and Gordon, 1979, pp. 97-103, in Englund, Arndt and Henry, eds., Proposed Pennsylvanian system stratotype Virginia and West Virginia, AGI Selected Guidebook No. 1.), and the palynology has never been examined to my knowledge. There is interfingering of shallow nearshore marine with terrestrial facies in all three formations.

If no one in your lab is interested in such a project, perhaps you can suggest someone who might be. I have already approached Dr. Peppers in Illinois about it, but he has other committments.

Sincerely,



Hazel E. Beeler

Received: from emout04.mail.aol.com by pangaea.ems.psu.edu  
(4.1/PSU\_ESSC/GEOSC-2.02) id AA21526; Sun, 23 Jul 95 22:47:50 EDT  
Received: by emout04.mail.aol.com  
(1.37.109.11/16.2) id AA264873859; Sun, 23 Jul 1995 22:44:19 -0400  
Date: Sun, 23 Jul 1995 22:44:19 -0400  
From: BEEDALE@aol.com  
Message-Id: <950723224417\_39230267@aol.com>  
To: TRAVERSE@ems.psu.edu  
Subject: University of Colorado Position, etc.

Alfred,  
Greetings from hot and humid Louisiana. I felt that today more than usual because I ran a 3 mile footrace through the swamps outside New Orleans with several hundred other people. It was "fun" I suppose. It was different for sure.

Suzanne and the girls are doing well. They were in El Paso 2 weekends ago for Suzanne's parents 50th wedding anniversary. Sheena has certainly experienced airline travel much more than many children her age.

I received a letter from Paul Weimer at the University of Colorado as a followup to my application for the reservoir geologist research position. I was not in the final cut, unfortunately. He did indicate that they had received 25 applications for the job and was "surprised at the quality and experience of most of the applicants."

I want to express my appreciation for the support that you have provided me in applying for this job. I continue to do well at Chevron and expect to "spud" my first potentially significant oil/gas well in October. I'll get a chance to spend 3 days in the field in Utah looking at rocks in August.

Is your retirement official now? I would like to congratulate you on a very significant career as an educator in the Geosciences. Cheers.

Dale Beeson

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

23 May, 1995

Dr. Paul Weimer  
Department of Geological Sciences, CB 250  
University of Colorado  
Boulder, CO 80309

Dear Dr. Weimer:

This is in support of the candidacy of Dr. Dale C. Beeson for your position as "Reservoir Geologist - Research Associate."

Dale was my last Ph. D. candidate here. During his years here he was officed in the palynological laboratories, and we were together on practically a daily basis.

We first met in Halifax, Nova Scotia. Dale had come with his wife from Singapore to talk with me about the possibility of doing a doctorate at Penn State. I was impressed with Beeson's articulate understanding of all aspects of our mutual field and with him as an obviously well organized individual.

Dale and family then came here, and his performance at Penn State was exemplary in every way. His Ph. D. dissertation was a very masterful treatment of a difficult problem. The fact that the results were displeasing to some people does not dissuade me from believing that the conclusions were correct and that they showed that the Cretaceous/Cenozoic boundary could not have been as cataclysmic for vegetation as some have predicated. I think that Dale should publish more on his ideas in this connection.

Dale is still remembered here by other faculty members for his clear presentations of ideas and his skill with all aspects of computer applications to geological problems. He was far ahead of most faculty members in such matters.

Dale is also very good company and very likable. One indication of his popularity is that graduate students and faculty who had contact with him when he was here still stop by this office regularly to ask for news of the Beesons, and I know that he is in touch with many of them.

Much of this is by way of saying that Dr. Beeson is topflight in regard to personal qualities. I know from many conversations that Dale was regarded as competent in seismology, sedimentology

and biostratigraphy by his employer in Asia long before he came here to study with me. I doubt Chevron would be using his expertise in these areas if he weren't competent. I can say from our contact here at Penn State that he is a superb laboratory technician and can teach others how to do things very well. His public talks here were all very good. It seems to me that Beeson's wide range of experiences, both geographically and from the point of view of employment experience make him an ideal man for the sort of position you are filling. While he has obviously little experience in raising grant money for his own salary as you expect your person to do, I am confident that Dale can produce proposals that will be very competitive. If he can't raise money it will be because there is none out there.

I would think that Dr. Beeson's comparatively vast foreign experience and that he is fluent in Spanish (has a Spanish-speaking wife) would be a big asset for your contemplated endeavors in Latin America and southeast Asia, both parts of the world where he has worked and/or travelled widely.

In sum, I recommend Dale Beeson to you without any reservation at all.

Alfred Traverse  
Professor of Palynology

Date: Tue, 23 May 1995 11:37:28 -0500 (EST)  
From: "Alfred Traverse" <traverse@ems.psu.edu>  
To: Beedale@aol.com  
Cc:  
Bcc:  
Subject: 423 etc.  
X-NUPop-Charset: IBM 8-Bit

Dale Beeson

Dear Dale:

Your message of 22 May smooths the ruffled feathers a little, but you'll have to admit that omission of your palynology background at least subliminally sends a message I find disagreeable!

Re your long e-mail missive, I commented only because our LaserJet refused to print it as one slug but required persuasion--first problem we ever had with it.

ditto cheers. Alfred.

Received: from mail06.mail.aol.com by pangaea.ems.psu.edu  
(4.1/PSU\_ESSC/GEOSC-2.02) id AA13054; Mon, 22 May 95 19:08:39 EDT  
Received: by mail06.mail.aol.com  
(1.37.109.11/16.2) id AA013204117; Mon, 22 May 1995 19:08:37 -0400  
Date: Mon, 22 May 1995 19:08:37 -0400  
From: BEEDALE@aol.com  
Message-Id: <950522190836\_127597535@aol.com>  
To: traverse@ems.psu.edu  
Subject: Geosc 423 was GREAT! A Reply.

Dale Beeson

Alfred,  
Thanks for pointing out the absence of Paleopalynology in my Geology course credits. I thought that that section of the vita was reasonably complete, but obviously not. I will be making the corrections to avoid future embarrassment.

You are correct that I did not list paleopalynology specifically under my "scientific specialties." However, I did indicate "biostratigraphy" as a specialty. Past experience at job seeking has taught me to try and customize my resume and cover letter, as much as possible, to address the needs of my intended audience. It is very unfortunate to me that few "audiences" today are specifically concerned with paleopalynology. However, the palynostratigraphy position that I held with Core Labs International for 3 years came to me initially via a resume/cover letter contact in which I listed "biostratigraphy" as a scientific specialty.

I had little choice but to make the last email rather voluminous in order to get all of the content I felt you might need into it. Its rather a simple matter of "copying" and "pasting" various documents into a master document which I then copied and pasted into the email message. At our Chevron office, we have the utility of attaching different types and quantities of files to an email message so that they can be read in turn. However, email messages that make the journey on the open INTERNET (like this one) have to travel as a single message without any attachments. That may change in the future, but thats how it works at this point in time.

Cheers and thanks for all your support, DALE

Date: Tue, 16 May 1995 11:12:58 -0500 (EST)  
From: "Alfred Traverse" <traverse@ems.psu.edu>  
To: beedale@aol.com  
Cc:  
BCC:  
Subject: letter received  
X-NUPop-Charset: IBM 8-Bit

~~Dale~~ Beeson

Dear Dale:

Congratulations! That's the longest e-mail message I ever received! Did you have to type in the whole thing, or was there a way for you to automate part of it, such as the lists?

I am really disappointed (burned?) that you didn't list the best course you ever took: Geosc. 423. Also that you don't list paleopalynology as one of your specialty items. What's the matter--you ashamed of us, or what? Your answer better be pretty good.

Hang in there. Alfred.

Received: from mail02.mail.aol.com by pangaea.ems.psu.edu  
(4.1/PSU\_ESSC/GEOSC-2.02) id AA18847; Tue, 16 May 95 00:31:39 EDT  
Received: by mail02.mail.aol.com  
(1.37.109.11/16.2) id AA278988697; Tue, 16 May 1995 00:31:37 -0400  
Date: Tue, 16 May 1995 00:31:37 -0400  
From: BEEDALE@aol.com  
Message-Id: <950515234020\_120076179@aol.com>  
To: TRAVERSE@ems.psu.edu  
Subject: Request for letter of recommend to CU Boulder

~~Dale Beeson~~

Alfred,

I certainly appreciate your support in my endeavour to "land" an academic position. I have typed in the text of the ad copy to which I replied below.

Note that it does not request letters of reference up front. The letter that I received from Paul Weimer dated May 2, however, states as follows:

"Please remember that you are responsible for ensuring that your three outside letters of recommendation are received by the application deadline."

I understand from a CU source that about a dozen individuals are under serious consideration for the position.

I have attached the following items to this e-message fyi: 1) the position advertisement, 2) my application cover letter to Paul Weimer, 3) my vita. I will follow these up via the U.S. mail. Good luck with your retirement plans. It seems likes "endings" aren't any easier than "beginnings."

1) AD COPY:

"Reservoir Geologist-Research Associate, University of Colorado, Boulder

A research scientist in reservoir geology is sought for the Energy and Minerals Applied Research Center at the Department of Geological Sciences, University of Colorado-Boulder. Position is to develop long-term research program in siliciclastic and/or carbonate reservoir studies. Successful applicant is expected to develop an integrated research program in outcrop and subsurface-based studies, develop industrial-sponsored consortia, and help supervise students. Program will be integrated with ongoing 3-D seismic interpretation, reservoir modeling, and visualization. Familiarity with digital log analysis, computer mapping, and/or reservoir modeling tools is desirable. Research program will complement existing applied research programs in integrated sequence stratigraphic and structural studies in Gulf of Mexico, Colombia, eastern Asia, and ongoing fluvial and carbonate sedimentologic studies. First year salary is guaranteed; after that applicant must raise own salary. Applicant must have Ph.D., and industry experience. Salary is commensurate with experience level. Send resume, personal statement, and names of three references to: Paul Weimer, Department of Geological Sciences, CB 250, University of Colorado, Boulder, CO 80309. Application deadline is May 31, 1995. Position is expected to start during summer/early fall 1995..."

Extracted from April 1995 AAPG "Explorer"

2) COVER LETTER TO PAUL WEIMER:

April 23, 1995

Dr. Paul Weimer  
Department of Geological Sciences, CB 250  
University of Colorado

Boulder, CO 80309

Dear Paul,

I appreciated our candid conversation on the phone the other day regarding your vision for the Energy and Minerals Applied Research Center. As a follow-up, I spoke with Chuck Stelting and got his favorable impressions of the CU program under your direction. Please consider this my enthusiastic application for the position "Research Scientist in Reservoir Geology," as advertised in the April 1995 AAPG Explorer. I have enclosed my updated resume. Additionally, I would like to highlight elements of my professional experience, academic training, and personal interests that I believe make me well suited for the advertised position.

I have been actively pursuing technology-driven work process improvements at Chevron USA, primarily in development geology, for the past 3.5 years. Much of my work has focused on field/reservoir development in the Gulf of Mexico as part of a multidisciplinary team of specialists. I started working in the petroleum industry in 1985 and my employment with Chevron following completion of my Ph.D. at Penn State has allowed me to rapidly learn and apply some of the more advanced subsurface interpretive techniques in the industry.

My initial assignment with Chevron was in the exploration group entitled "Western New Concepts." After an intensive and successful 6 months developing an onshore gas play concept linked to an Exxon discovery, I was transferred to the South Timbalier/South Pass offshore development group and given responsibility for 3 operating fields about to receive newly acquired 3-D seismic data. I have been actively integrating well log data (petrophysical and synthetic) into the interpretation of subsurface structure and stratigraphy of over 100 cubic miles of 3-D data on 2 data cubes (about 4 gigabytes of data). Most of my interpretation work is done on a UNIX platform using both proprietary and vendor-supplied interpretation software linked to well data through Landmark's Openworks data manager. Additionally, I now have a very robust process for generating workable prospect maps in Landmark's Z-Map+ application following integration / interpretation of the various data.

How does my experience and training apply to the CU reservoir geology position? I am very technically competent as a scientist and capable as a communicator / networker. In addition to these essential elements for establishing a consortium, I have demonstrated my ability to be both goal oriented and task focused (e.g., completion of my Ph.D. at Penn State in a very timely fashion). I believe that these are also important criteria for establishing the credibility of high quality work.

I would like to offer further examples of how my experiences and interests would benefit your program.

First, I am very keen on developing integrated solutions to reservoir problems requiring multidisciplinary input. By example, I coordinated an effort between our New Orleans office staff and researchers at our La Habra research facility to model reservoir characteristics for a thin shaly sand to help determine, 1) sensitivity to changes in the geologic parameters, and 2) economic feasibility of a horizontal drill.

Second, I am very capable in developing and nurturing cross-corporate working relationships as are essential in successful consortia. By example, I have been working with 3-D data picked in Landmark's Seisworks application by our business partner Texaco. Using complementary 3-D data sets and avoiding

duplication of effort, I have facilitated a sharing of interpretive experience and products between our companies using different workstation applications. This has effectively shortened cycle time in prospect generation to our mutual benefit by about 1 year (i.e., a savings to Chevron of about \$250,000 in labor and support costs not to mention the strategic value).

Third, my many years of field, office, and lab experience as a sedimentary geologist in a variety of geographic and work environment settings is testimony both to the breadth of my abilities as well as my adaptability.

Relative to your immediate needs, I have spent many years investigating the geologic provinces in SE Asia (i.e., North China Sea, South China Sea, Sea of Japan, Indonesian islands) and the Gulf of Mexico (on and offshore Louisiana).

Fourth, I am keenly interested in helping in the development of undergraduate and graduate students. While at Penn State, I enjoyed the 2 years that I spent teaching / supervising lab and field courses (i.e., historical, physical, structural geosciences).

How do my professional interests apply to the CU reservoir geology position?

My preference is to work within an applied research setting focusing technology tools and intellectual resources on specific reservoir-related problems. I believe that I can do so by using my varied technical, interpersonal and communication skills as well as my experiences. I am excited about the possibilities of integrating reservoir characteristics with true volume 3-D picking and seismic attribute analysis and then tying these back to field analogs. Furthermore, I am a believer in the integration of workstation applications to produce usable geologic products directly from the computer as I have done at Chevron (e.g., workable structure + attribute maps). I think that my extensive geologic field experience has helped me to understand the value of using both technology tools and field examples as risk reducers in interpretive work.

My diverse academic background, research / industry experience, and interest in building a publication record would be of benefit to your program at CU.

I am very capable as a researcher, presenter, student mentor and writer.

I am quite familiar with Boulder and CU since both my wife and I did our Masters degree work there. We were also married atop Flagstaff Mountain in 1984 during a spectacular moonrise over the high plains. In addition to a preference for life in Colorado, my reasons for pursuing this position include: a desire to do applied research and pursue publishable research (dependent upon consortium interests, of course) in my area of professional interest, the opportunity to help supervise students, and an interest in achieving excellence at an institution known for quality and creativity.

Following are three potential references familiar with my qualifications:

1) Dr. Alfred Traverse at The Pennsylvania State University, Dept. of Geosciences, 435 Deike Bldg., University Park, PA 16802, (Ph: 814-863-3419). Alfred has known me since 1987 and was my graduate program advisor on my Ph.D. committee. He is a good judge of my research / technical abilities and personal character.

2) Dr. Erle Kauffman at the University of Colorado, Dept. of Geological Sciences, Boulder, CO 80309, (Ph: 303-492-6629 in Boulder or 814-863-9663 at Penn State while on sabbatical). Erle has known me since 1982 and is quite familiar with many of my professional experiences as well as my research/writing ability. He was my thesis advisor for the MS degree (CU

Boulder, 1984).

3) Billy Geen at Chevron USA, 935 Gravier St., New Orleans, LA 70112, (Ph: 504-592-6479) . Billy is a staff geologist with more than 15 years experience in the petroleum industry. He has known me for most of my time at Chevron (3 + years). He is familiar with my geologic interpretation and computer application skills as they apply to my development geology role.

I would be happy to provide you with additional references (addresses if you wish) and/or other information that you might require in your evaluation. I appreciate the opportunity to apply for this position and I look forward to hearing from you at your earliest convenience.

Yours very truly,

3) CURRENT BEESON VITA:

VITA

DALE CLAYTON BEESON

HOME ADDRESS:	OFFICE ADDRESS:
1909 Mason Smith Ave.	Chevron USA, 935 Gravier St.
Metairie, LA 70003	New Orleans, LA 70112
ph: (504) 885-7750	ph: (504) 592-6951
email: beedale@aol.com	email: beed@chevron.com

PERSONAL

Birth Date: 20 October, 1955  
Birth Place: Aberdeen, Washington, U.S.A.  
Family Status: Wife (Suzanne Antone, born in El Paso, Texas); 2 Daughters (Sheena, born in 1988 in Dallas, Texas; Liana, born in 1994 in New Orleans, Louisiana)

EDUCATION

High School Diploma, Tumwater High School, Tumwater, WA -- June, 1974.  
B.Sc. Geology, Western Washington University, Bellingham, WA -- December, 1978.  
Graduate Studies, Mineral Economics, Colorado School of Mines, Golden, CO -- Fall, 1982.  
M.Sc. Geology, University of Colorado, Boulder, CO -- December, 1984.  
Ph.D. Geosciences, The Pennsylvania State University, University Park, PA -- May, 1992.

SCIENTIFIC SPECIALTIES

petroleum exploration to reservoir-scale development, 3-D seismic interpretation, geologic computer applications, litho- and biostratigraphy, geologic mapping and field methods, geoscience research and teaching, microscopy, laboratory techniques, technical writing and presentation.

PROFESSIONAL AFFILIATIONS

American Association of Petroleum Geologists, American Association of Stratigraphic Palynologists, Geological Society of America, New Orleans Geological Society, Sigma Xi Scientific Research Society.

## SCIENTIFIC SPECIALTIES

petroleum exploration to reservoir-scale development, 3-D seismic interpretation, geologic computer applications, litho- and biostratigraphy, geologic mapping and field methods, geoscience research and teaching, microscopy, laboratory techniques, technical writing and presentation.

## PROFESSIONAL AFFILIATIONS

American Association of Petroleum Geologists, American Association of Stratigraphic Palynologists, Geological Society of America, New Orleans Geological Society, Sigma Xi Scientific Research Society.

## PUBLICATIONS

- 1980: Igneous intrusion of steeply dipping Eocene coals near Ashford, Pierce County, Washington. (Proceedings of 4th Rocky Mtn. Coal Geol. symposium)
- 1981: Thermal metamorphism of Northwest coals associated with igneous intrusions. (Proceedings of Oregon Academy of Sciences annual mtg.)
- 1984: Tertiary coal deposits of the Caribbean Region. (Proceedings of Latin American Coal symposium)
- 1984: Paleoclimate control of Cretaceous coal distribution. (AAPG abst., '84 annual mtg.)
- 1984: The relative significance of tectonics, sea level fluctuations, and paleoclimate to the distribution of Cretaceous coal in North America. (Nat. Ctr. Atmosp. Res. spec. pub. + Univ. Colorado M.Sc. thesis)
- 1992: High resolution palynostratigraphy across a marine Cretaceous / Tertiary boundary interval, Falls County, Texas. (Penn State Ph.D. dissertation)
- 1993: Stratigraphy and depositional environment across the Cretaceous / Tertiary boundary, Brazos River, Falls County, Texas. (GSA abst., '93 annual mtg.)

## WORK HISTORY

1976 - 1978: FIELD / MINE GEOLOGIST, Undergraduate summer employment in Tennessee and Alaska in minerals exploration and mine geology for base and precious metals.

10/78 - 8/80: PROJECT GEOLOGIST (Coal), Gulf Resources & Chemical Exploration Co., Arvada, CO. Responsible for coal exploration in Pennsylvania and Washington and assisted with projects in Oklahoma, Tennessee, and New Mexico. Worked in areas of complex structure / stratigraphy, prepared drilling contracts, supervised drill site preparation and drilling, logged well cuttings / cores and collected coal and methane gas samples.

8/80 - 3/82: GEOLOGIST (Coal, Gold), NERCO (Pacific Power & Light), Portland, OR. Responsible for development drilling logistics and geologic data collection / interpretation for the Spring Creek Coal Mine in southeast Montana. Generated isoquality / structure / overburden / surface geologic maps and prepared technical reports and made presentations to management. Participated in an Alaska coal exploration project requiring helicopter reconnaissance, geologic mapping, trench sampling, drilling supervision, data interpretation and report writing. Additionally, I spent several months assisting in the geologic evaluation of an underground gold mine in eastern Oregon.

3/82 - 8/82: ASSOCIATE GEOLOGIST (Coal), Douglas Robertson & Associates, Golden, CO. Acted as technical advisor to Rosario Dominicana, S.A., in the Dominican Republic on three multi-phase coal exploration projects. Directed and implemented the field exploration programs as well as initiating and completing the field training of 9 Dominican geologists.

6/83 - 2/85: GRADUATE RESEARCH ASSISTANT, National Center for Atmospheric Research, Boulder, CO. Created and manipulated a detailed, literature-derived, computerized geologic database. Used multiple coal data parameters aimed at interpreting, 1) timing and location of regional and local tectonic deformation, 2) sea-level changes, and 3) paleoclimate, for the Cretaceous of North America. Generated output graphics including paleogeographic base map plots for each Cretaceous stage.

6/85 - 2/88: BIOSTRATIGRAPHER (Petroleum Industry), Core Laboratories International, Dallas, TX. CHINA POSTING. Prepared and microscopically analyzed kerogen residue and Tertiary-aged palynomorphs (age & paleoenvironment) from borehole samples from offshore South China. Integrated palynostratigraphic studies with foraminifera and nannofossil data from the same wells. SINGAPORE POSTING. Conducted palynostratigraphic studies (Tertiary & Cretaceous) on borehole and surface samples from Indonesia, Japan, and northern China. Managed biostratigraphy lab in Guangzhou, China, including: supervision of Chinese / expatriate personnel, integration of micropaleontologic data, presentation of results and interpretation to American, Japanese and European oil company clients.

4/88 - 8/88: CONSULTING BIOSTRATIGRAPHER, Dallas, TX. Conducted palynostratigraphic and kerogen maturation studies of borehole cuttings and cores from Cretaceous and Tertiary-aged sections from Korea and Brazil.

8/88 - 5/90: GRADUATE TEACHING ASSISTANT, Geosciences Department, The Pennsylvania State University, University Park, PA. Responsible for laboratory setup / supervision as well as lecture preparation and presentation to undergraduate students in physical and historical geology courses. I taught sections for science as well as non-science majors. Additionally, I was the assistant instructor for the department's summer 1989 (8-week) field geology course conducted in the central and northern Rocky Mountains.

5/90 - 12/91: RESEARCH FELLOW, Earth Systems Science Center, The Pennsylvania State University, University Park, PA. Carried out dissertation-related research in biostratigraphic subject area utilizing SEM and light microscopes as well as multiple computer "platforms" to perform multivariate statistical analyses. I successfully executed an ambitious research plan in a compressed period of time to the satisfaction of my doctoral committee.

12/91 - Present: PETROLEUM GEOLOGIST, Chevron USA, New Orleans, LA. Primary responsibilities as a development geologist within a multidisciplinary field management team setting since 8/92. Activities have centered on subsurface mapping/interpretation aimed at prospect generation and reservoir development via new drills and workovers of existing boreholes. Tasks have included integrating multi-vintage 2-D seismic and multiple cubes of 3-D seismic data with extensive well data using numerous computer applications in a workstation environment. I have been responsible for the development of 3 offshore fields in the Gulf of Mexico and have been key in developing an operator/partner working relationship which has effectively reduced our prospect generation cycle time by a year. A significant strength has been my ability to integrate multiple interpretive applications in the workstation

environment, especially using 3-D seismic data, to generate map and cross-sectional products which improve upon existing products by reducing the geologic risks for development. Additionally, in my first 6 months with Chevron in an exploration capacity, I successfully developed a play concept to account for a competitor's very large onshore natural gas find.

#### FORMAL COURSEWORK

GEOLOGY (Undergraduate - Washington)      GEOLOGY (Graduate - Colorado)

Geol 211 Physical Geology      Geol 538 Mechanics Underground Fluids  
Geol 212 Historical Geology      Geol 552 Paleocology  
Geol 305 Crystallography      Geol 555 Palynology  
Geol 306 Mineralogy      Geol 558 Biostratigraphy  
Geol 310 Geomorphology      Geol 575 Paleobotany  
Geol 316 Paleontology      Geol 576A Depositional Environments  
Geol 317 Structural Geology      Geol 576B Cretaceous Marine Cycloth.  
Geol 319 Econ. Geol. Metallic Min.      Geol 579A Paleo-oceanography  
Geol 320 Econ. Geol. Non-Metallic Min.      Geol 579B Coal Depositional Environ.  
Geol 352 Geophysics      Geol 700 Masters Thesis  
Geol 360 Fossil Fuels      Geol 959 Paleoclimates  
Geol 399 Seminar on Geol. Lit.  
Geol 410 Field Geol./Camp  
Geol 416 Strat./Sedimentology  
Geol 418 Optical Mineralogy  
Geol 420 Petrography/Petrology  
Geol 461 Analytical Geochemistry

GEOLOGY (Graduate - Penn State)

Geosc 331 Paleontology (audit)  
Geosc 425 Fossils (independent study)  
Geosc 489 Dynamics of the Earth  
Geosc 503 Paleontology (independent study)  
Geol 526 Palynology Problems  
Geol 596 Geology Indiv. Study  
Geol 597C Frontiers in Geoscience  
Geosc 600 Thesis Research  
Geol 601 PHD Dissertation  
Geosc 602 College Teaching/Supv. Exp. for Geosc 21, Geosc 2, Geosc 112, Geosc 472  
Geol 610 Thesis Research Off Campus

===THE END OF E-MESSAGE===Tks ALFRED, Dale

Dr. Dale C. Beeson  
Chevron U.S.A.  
935 Gravier St.  
New Orleans, LA 70112  
Bus.Tel: 504-592-6951  
Bus.Fax: 504-592-6601  
Bus.E-Mail: beed@chevron.com

May 15, 1995

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

Dear Alfred,

I enjoyed our telephone conversation today. I also meant to tell you that my family and I will be in the Washington, D.C., area from June 7 to June 14. We will be helping in the wedding preparations for Suzanne's sister Lucy who is to be married on June 10. I believe that Dan Vice and possibly Carmen Moy are planning rendezvous times which we have yet to firm up. I understand from previous conversations that you will be rather occupied during that time. Do let me know if that changes however.

As I mentioned in the E-Mail message, I certainly appreciate your support in my endeavor to "land" an academic position. I am enclosing the ad copy to which I replied for the CU Boulder position. Note that it does not request letters of reference up front. The letter that I received from Paul Weimer dated May 2, however, states as follows: "Please remember that you are responsible for ensuring that your three outside letters of recommendation are received by the application deadline." I understand from a CU source that about a dozen individuals are under serious consideration for the position.

The following items <sup>are</sup> ~~should be~~ enclosed: 1) the position advertisement, 2) my application cover letter to Paul Weimer, 3) my vita. Thanks again and don't hesitate to contact me if you need any clarification.

Yours Truly,



Paul Weimer, Assistant Professor  
Energy & Minerals Applied Research Center (EMARC)  
Department of Geological Sciences

Campus Box 250  
Boulder, Colorado 80309-0250  
(303) 492-3809  
FAX (303) 492-2606

May 2, 1995

Dr. Dale C. Beeson  
1909 Mason Smith Ave.  
Metairie, LA 70003

*Traverse Copy  
- FYI*

Dear Dale:

This letter acknowledges the receipt of your application for the Reservoir Geologist position in the Energy and Minerals Applied Research Center (EMARC) at the University of Colorado at Boulder. We have already received many applications indicating that the search will be most competitive.

Deadline for applications is 31 May 1995. The search committee plans to reach decisions on applications by the end of June. You should hear from us by mid July regarding your application. Please remember that you are responsible for ensuring that your three outside letters of recommendation are received by the application deadline.

Also enclosed is an affirmative action form that the University requires us to send to all applicants. You are not required to fill out this form. If you do choose to fill it out, please send it to the address indicated on the form.

Thank you for your application.

*Paul Weimer*

Paul Weimer  
Chairman, Search Committee

Encl.

acknowl.doc

5/17/95  
Alfred,  
I'm sending along a copy of Weimer's letter dated May 2 requesting letters of recommendation be received by May 31. Thanks much,  
Dale

Date: Wed, 5 Apr 1995 15:27:16 -0500 (EST)  
From: "Alfred Traverse" <traverse@ems.psu.edu>  
To: Beedale@aol.com  
Cc:  
Bcc:  
Subject: rec letter  
X-NUPop-Charset: IBM 8-Bit

Dear Dale: Weather? Here it was 19 F. this a. m., with snow flurries.

It is good to know that you are probably on the short list for the position in NM. I have never ever before been asked to provide a copy of a rec letter, but I just read the one about you, and I have no trepidation about sending it to you and have just done so--by mail to your home.

Betty is all through--defence, etc. Bound thesis here on desk. Big party on 11-12 May. Our 7th and probably last grandchild (Julia Pearle Lerner) was born on 11 Mar. Paleobotany course in high gear for the last time.

All the best to all of you. Abovementioned tad already has ear infection at three weeks. I hope Liana can avoid tubes. Better than ruining the kidneys with ten years of antibiotics, though. As ever, Alfred.

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

12 March, 1995

Dr. Charles E. Chapin  
Director and State Geologist  
New Mexico Bureau of Mines and Mineral Resources  
Socorro, NM 87801

Dear Dr. Chapin:

This is in response to yours of 23 February regarding the application for a position of Dr. Dale Beeson.

Dale Beeson is very well known to me, as he was my last Ph. D. candidate here. During his years here he was officed in the palynological laboratories, and we were together on practically a daily basis.

We first met in Halifax, Nova Scotia. Dale had come with his wife from Singapore to talk with me about the possibility of doing a doctorate at Penn State. I was impressed with Beeson's articulate understanding of all aspects of our mutual field and with him as an obviously well organized individual.

Dale and family then came here, and his performance at Penn State was exemplary in every way. His Ph. D. dissertation was a very masterful treatment of a difficult problem. The fact that the results were displeasing to some people does not dissuade me from believing that the conclusions were correct and that they showed that the Cretaceous/Cenozoic boundary could not have been as cataclysmic for vegetation as some have predicated. I think that Dale should publish more on his ideas in this connection.

Dale is still remembered here by other faculty members for his clear presentations of ideas and his skill with all aspects of computer applications to geological problems. He was far ahead of most faculty members in such matters.

Dale is also very good company and very likable. One indication of his popularity is that graduate students and faculty who had contact with him when he was here still stop by this office regularly to ask for news of the Beesons, and I know that he is in touch with many of them.

Much of this is by way of saying that Dr. Beeson is topflight in regard to your items 2 & 3. I know from many conversations that Dale was regarded as seismically competent by his employer in

Asia before he came here to study with me. I doubt Chevron would be using his expertise in this area if he weren't competent. I can say from our contact here at Penn State that he is a superb laboratory technician and can teach others how to do things very well. His public talks here were all very good. It seems to me that Beeson's wide range of experiences, both geographically and from the point of view of employment experience make him an ideal man for the sort of position you are filling.

I recommend Dale Beeson to you without any reservation at all.

Yours very truly,

Alfred Traverse  
Professor of Palynology

Received: from mail06.mail.aol.com by pangaea.ems.psu.edu  
(4.1/PSU ESSC/GEOSC-2.02) id AA15639; Mon, 3 Apr 95 21:19:27 EDT  
Received: by mail06.mail.aol.com  
(1.37.109.11/16.2) id AA287978365; Mon, 3 Apr 1995 21:19:25 -0400  
Date: Mon, 3 Apr 1995 21:19:25 -0400  
From: BEEDALE@aol.com  
Message-Id: <950403211829\_70714923@aol.com>  
To: TRAVERSE@ems.psu.edu  
Subject: New Mexico Tech Finalist

Alfred,  
Spring and its associated abundance of pollen are in full swing in the deep South. I've had to wash the cars twice in the past two weeks as a result. However, the weather has been good for working on the outside of our house (painting and general maintenance).

Liana is still with ear infection and we are getting closer to having "tubes" installed. I understand that chronic ear problems often require "tubes" in many of the infants in this area. Sheena has avoided such problems so far.

I spoke with Ron Broadhead, assistant director of the New Mexico Bureau of Mines and Mineral Resources today. He indicated that the Petroleum Geologist search committee would probably meet this week to consider the six candidates and their references. I fully expect to be invited for an interview within about a month or so (this is a very lengthy process). If you don't mind, I would appreciate a copy of the reference letter which you sent on my behalf. Being aware of what they know can only help me in the interview process.

I will certainly keep you informed of anything that comes of this and genuinely appreciate the time that you have taken to provide a reference for me.

Greetings to Betty--hope completion of her final dissertation text is coming along smoothly.

Dale

Received: from mail02.mail.aol.com by pangaea.ems.psu.edu  
(4.1/PSU\_ESSC/GEOSC-2.02) id AA27010; Fri, 3 Mar 95 01:27:07 EST  
Received: by mail02.mail.aol.com  
(1.37.109.11/16.2) id AA197782026; Fri, 3 Mar 1995 01:27:06 -0500  
Date: Fri, 3 Mar 1995 01:27:06 -0500  
From: BEEDALE@aol.com  
Message-Id: <950303012705\_37853982@aol.com>  
To: TRAVERSE@ems.psu.edu  
Subject: New Mexico Tech is interested in Beeson

Dear Alfred,  
Greetings and happy post Mardi Gras! We (the Beeson family) saw and enjoyed many parades during carnival time. I think that Sheena and Liana will be spoiled by the "interactive" nature of catching "throws" from parades. They won't want to just watch a parade go by unless something is being given out.

I have been looking for your letter that you spoke of the last time we communicated by phone, but nothing has come. I had sent you an earlier email indicating that I was applying for a petroleum geologist position with New Mexico Tech. Well, it is actually with the Bureau of Mines & Mineral Resources which is a division of New Mexico Tech. I have learned that I am on their short list (goodie) and that they are in the process of contacting my references. The position is tenure track. I am planning to actively pursue the position and will certainly appreciate your reference when they contact you.

Spring is springing in the New Orleans area. Many of the deciduous trees are blooming and beginning to leaf out. Of course, the coming warmth will also mean insects. Too bad we can't have such lush vegetation and redesign the insects to be less of a nuisance to human beings. Actually, the bioengineers are probably working on that right now.

Hi to Betty and hope the Spring semester is going well for y'all.

Dale



Information: 505/835-5420  
Publications: 505/835-5410  
FAX: 505/835-6333

New Mexico Bureau of Mines & Mineral Resources  
Socorro, NM 87801

A DIVISION OF  
NEW MEXICO INSTITUTE OF MINING & TECHNOLOGY

February 23, 1995

Dr. Alfred Traverse  
435 Deike Building  
Geosciences Department  
Penn State  
University Park, PA 16802

Dear Dr. Traverse:

Dr. Dale Beeson has applied for a Petroleum Geologist position with the New Mexico Bureau of Mines and Mineral Resources and has given your name as a reference. A copy of the ad which appeared in the AAPG Explorer is enclosed. We would appreciate very much your candid appraisal of Dr. Beeson's qualifications for the position as advertised. This is a regular, tenure-track professional position. We would especially like your opinion as to:

- 1) experience and ability in interpretation of 3-D seismic and capacity to teach others,
- 2) potential for conducting and publishing high-quality research in petroleum geology, and
- 3) ability to interact in a pleasant and productive manner with other people.

Thank you for your assistance. Your reply will be considered confidential.

Sincerely yours,

Charles E. Chapin  
Director and State Geologist

/al

Enclosure

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

30 January, 1995

Dr. Dale C. Beeson  
2805 Bryant Drive  
Metairie, LA 70003

Dear Dale:

Hope this is the right home address. Betty is using the computer with our e-mail hookup for the final revisions of her dissertation (defense is in about 3 weeks). So I'll do this on the other computer (we now have one 486 and three 386, two each in the office and at home) in my inner office and send it to you by snail mail.

It was great to get news of the new addition, and I'm trying to imagine Sheena playing with her. I love the botanical name, as I think I've said before. Updates about everybody else also enjoyed.

I hope you get the position at NMIMT--would be great. I love that section of the country, as I've told you before. (You probably recall that Betty's attitude is like the old Vermonter about Chicago--It's too far away ever to amount to anything.)

This is the year that Betty gets her Ph. D., that I am more or less forced to retire, and that I turn 70. I still feel great, and I don't plan to change much of anything, but my pay will be coming from the SERS, not PSU, and of course I won't have any clout to prevent bad things happening to my "empire" here. I'm very relaxed about the whole thing.

Best regards to you, and also, of course, to Suzanne. Thanks again for "writing," or whatever it is that one does when he sends e-mail.

Yours very truly,

Alfred Traverse

Received: from mail02.mail.aol.com by pangaea.ems.psu.edu  
(4.1/PSU\_ESSC/GEOSC-2.02) id AA09714; Mon, 23 Jan 95 23:47:49 EST  
Received: by mail02.mail.aol.com  
(1.38.193.5/16.2) id AA28429; Mon, 23 Jan 1995 23:49:02 -0500  
Date: Mon, 23 Jan 1995 23:49:02 -0500  
From: BEEDALE@aol.com  
Message-Id: <950123231951\_4407404@aol.com>  
To: TRAVERSE@ems.psu.edu  
Subject: Salutations! Beeson Update  
Status: U

Alfred,  
Your holiday greetings with an accounting of your year past were appreciated and enjoyed. My intentions for passing on our annual holiday family update keep getting sidetracked. However, I am now putting finger to keyboard to try and bring you up to date with the Beeson clan in Louisiana. Following is our annual holiday letter as created on December 10.

December 10, 1994

Dear Friends and Family,

We enter the Christmas and New Year holiday season hoping that all of you have faired well in 1994 and wishing you all the best in the coming new year.

The highlight of 1994 for us was the birth of our second daughter Liana Antone Beeson on May 21. She started out at close to 9 lbs at birth and currently weighs in at 20 lbs. and measures 28 inches - "off the charts," we are told. She is fond of blowing "raspberries," pulling on her sister's hair, and trying to walk before she crawls.

Sheena is very fond of her baby sister and is a big help in taking care of her. Sheena continues to do well in first grade and will be starting a gifted student program this month at Airline Park Elementary. She was the only girl selected out of 3 classes of first graders and tests at almost third grade level. She enjoys make-believe, plays on a swing set I built for the girls and is a favorite friend of many children.

Suzanne was very active consulting through April. She concentrated on breast feeding and taking Sheena to day camp during the summer. As she prepared to get back to work, her major client (FAA) put a hold on its diversity program, so things are a little thin but she'll create something.

I (Dale) am doing "virtual geology" on a computer workstation these days using 3-dimensional seismic to plan for the drilling of oil and gas wells. I am still dedicated to jogging every day and will participate in the YMCA Corporate Cup Run tomorrow - one of the largest races in the New Orleans area. I purchased a Power Macintosh computer for the home and have had fun adding a CD-ROM player and using American On-Line to "drive" on the Internet information super highway.

We are definitely full-time homeowners - we have dedicated almost a month and several thousand dollars to replace our 30-year-old sewer pipe which was broken in four places. The inspection will be Tuesday and we can fill in the 30' tunnel that three helpers and I dug. We have also laid new sod front and back and painted our living room. We plan to replace a segment of our driveway and paint the exterior of the house by March - time and money allowing.

We truly enjoyed a vacation to see my side of the family in Washington state.

My brother Greg and his daughter Shaza and cousin Gail, her husband Dale and their daughter Courtney joined us for several days of hiking and backpacking in Mt. Rainier National Park. It felt really great to "get" some altitude in cool temperatures with wild mountain flowers in bloom in August. My Dad and Step-mom graciously took us on another trip to Mt. St. Helens - it was intriguing seeing how nature has recovered from the volcano eruption. We were pleased to see all other relatives excluding my step-brother Steve who was putting out forest fires in Eastern Washington - nature never quits.

We will be with Suzanne's family for the holidays. Her Mom is bravely recovering from cancer treatments to prevent the spread of colon cancer that was removed in September. The family will also be coordinating for a happy occasion - her third sister Lucy plans to marry in Washington DC on June 10.

May the holiday season find you content with your achievements, at peace with your soul and energized for the things you will change in the future. You are always welcome at our home.

Now, back to January 23, 1995

We did go to El Paso and Suzanne's mother is doing quite well in her recovery from cancer therapy at this time. The girls, Sheena and Liana, continue to be centerpieces in our lives. Suzanne is having a difficult time landing additional consulting work, but appreciates the "quality" time that she can spend with Liana. I have been pushing for information awareness at Chevron making use of CD-ROM technology as well as generating oil and gas prospects using 3-D seismic data and "computers."

I should also mention that I have sent in my application for a petroleum geologist position at New Mexico Institute of Mining and Technology (posted in the January, 1995 AAPG Explorer). What it would offer that my Chevron placement doesn't is the opportunity to do research and publish in addition to teaching. This position in New Mexico would make use the expertise that I have developed in 3-D applications and interpretation while at Chevron. I feel that I would be able to develop my interests in research and teaching which I have little opportunity to use at Chevron. The location, Socorro, New Mexico, is also within a days drive of most of Suzanne's side of the family. I used you as a reference familiar with my research abilities and I would certainly appreciate you support should you be contacted.

Please pass on my best regards to Betty. May the coming year turn out as you would wish.

Dale

Received: from portal.chevron.com by pangaea.ems.psu.edu  
(4.1/PSU\_ESSC/GEOSC-2.02) id AA20301; Tue, 16 Aug 94 10:09:03 EDT  
Received: from lhdsy1.lahabra.chevron.com by portal.chevron.com with SMTP id AA1  
(InterLock SMTP Gateway 1.1 for <TRAVERSE@ems.psu.edu>);  
Tue, 16 Aug 1994 07:08:38 -0700  
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id AA07074; Tue, 16 Aug 94 07:10:10 -0700  
Received: from CPLAN059.ION.CHEVRON.COM by SSW1.ION.CHEVRON.COM  
(Soft-Switch Central V4L380P1); 16 Aug 1994 07:08:07 PDT  
Date: 16 Aug 94 07:10:17 PDT  
From: "Beeson, D. C." <BEED@chevron.com>  
Subject: e-mail linkup  
To: TRAVERSE@ems.psu.edu  
Comment: CPLAN059 BEED 08-16-94 07:07:00 SSW1  
Status: U

FROM: Beeson, D. C.  
DATE: 08/16/94 08:02  
TO: OPEN ADDRESSING SERVI-OPENADDR

CC: Beeson, D. C.

SUBJECT: e-mail linkup  
PRIORITY: R  
ATTACHMENTS:

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Alfred,  
I enjoyed our conversation today. I thought I'd send along my email address for your files. It is a convenient way for me to make contact since I have two computers at my disposal (i.e., a desk PC and a DEC workstation for manipulating 3-D seismic data). Please just send a quick email response if this makes its way to you so that I know that I have the correct link. My email address is: beed@cplan059.ion.chevron.com

All the best, Dale

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22 July, 1994

Dr. Dale C. Beeson  
Chevron USA  
935 Grovier St.  
New Orleans, LA 70112

Dear Dale:

Enclosed correspondence copies with Dan Habib are self-explanatory. He's a very nice man and has had much to contend with, most recently a very serious heart attack.

I heard a rumor about your delightful family recently that was very interesting. The source of the rumor was a certain lady who delights in one-up-manship and the latest gossip, so I didn't necessarily credit the information.

We are very busy as usual. Our granddaughter, Anna, 10, from Memphis, flies in this weekend for a week's visit.

The department has found a very clever way to compel me to retire. Tell you about it some day.

Best to Suzanne.

Yours very truly,

Alfred Traverse

encl.:correspondence copies

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15 March, 1994

Dr. Dale C. Beeson  
Chevron USA Production  
935 Gravier St.  
New Orleans, LA 70112

Dear Dale:

Thanks for yours of 6 March, and the commented-upon copy of the Kumar paper.

As you note, we've had a winter not soon to be forgotten--still about 2 ft. of snow on the ground, a surface we've not seen completely free of the stuff since Xmas. I haven't been able to put my snowplow-truck away for over two months--simply can't reach the barn.

Regards to S-square.

Yours very truly,

Alfred Traverse



**Chevron U.S.A. Production Company**

935 Gravier Street, New Orleans, LA 70112

Dr. Dale C. Beeson

Tel: 504-592-6951

Fax: 504-592-6601

South Timbalier/South Pass Profit Center  
Gulf of Mexico Production Business Unit

March 6, 1994

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

Dear Alfred,

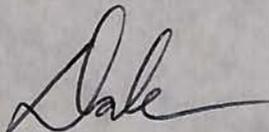
Well, I've gone through the enclosed journal article of Arun Kumar as you requested in your letter of 31 January. I appreciate you sending it along to me. I am acquainted with Arun in that both of us were employed by Core Laboratories as palynologists in SE Asia. However, Arun "left" the company to return to India about two years before I "left" the company to return to the USA and ultimately begin my studies at Penn State.

It appears that his article is an attempt to, at least partially, update and publish some of the results of his 1978 unpublished Michigan State University dissertation. You will probably gather from my comments with the enclosed photocopy that I don't consider his article to be very balanced or complete in its treatment of Texas K/T palynology. In my mind, it represents a general reconnaissance survey of Texas K/T palynology which draws far reaching conclusions based upon extremely limited information. It isn't really appropriate to compare the detail / depth of my Brazos K/T research with the more general treatment that Arun gives the subject in his article. However, I am concerned that he got very little fossil information from the five samples he look at from the Brazos locality. There may have been a problem in his sampling/processing which prevented adequate recovery of palynomorphs. I say that because he appears to have almost barren samples from parts of the section which I had no problem finding diverse palynomorphs in. In summary, Arun's data represent a coarser resolution of K/T changes which I saw in finer detail. In that sense, he isn't dealing as directly with K/T event (i.e., high chronostratigraphic resolution) dynamics as I attempted to do.

I only wish there was a better market for paleopalynology so that I could pursue its use more often. I tend to be more immersed in the challenges of 3-D seismic interpretation and risk reduction in planning of offshore horizontal wells to recover natural gas. I do find my work interesting, but I am a little saddened that the specialty which I invested so much time in at Penn State is in such a depressed state in the geosciences.

Please pass my regards on to Betty as well as Carmen. I do miss y'all, but I can say that I don't long for the kind of winter that you've been dealt this year. I hope that Spring arrives soon for you.

Yours very truly,

A handwritten signature in cursive script, appearing to read "Dale", with a long horizontal flourish extending to the right.

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31 January, 1994,

Dr. Dale Beeson  
Chevron U.S.A.  
935 Grovier St.  
New Orleans, LA 70112

Dear Dale:

The enclosed item (xerox of paper) came a couple of months ago, but I've been very behind in my reading. What do you make of it? It's surely full of typos! I'd appreciate an analysis (Doesn't mention Medus either!)

I still think you should get out a detailed paper on your results--maybe including some ~~net~~ Mac-graphs, etc.

All the best. We enjoyed your news at Christmas very much. You are greatly missed around here. Regards to both ladies.

I have a new grad student--Vicki Weintraub from USGS-Reston.

Yours very truly,

Alfred Traverse

AT/et  
encl: xerox of paper & copy of letter to Kumar

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3 August, 1993

Dr. Dale C. Beeson  
Chevron U.S.A.  
935 Grovier St.  
New Orleans, LA 70112

Dear Dale:

It just occurs to me that I never responded in detail about yours of 27 May, and the MS. We've been in orbit ever since that came, and now "Fall" Semester is about to begin (or so Penn State claims).

It seem to me that you've done a really nice job with the palynology section, and I can't add anything--didn't even find any typos. As I said earlier tho', it will hurt a lot if the PSU Palynological Lab and AT/ET are not acknowledged.

I just fired off a note to Mike Arthur, noting that in his recent K/T blurb in EMS "house organ" he never mentioned your work (because it doesn't fit?).

All the best, also to S & S.

Yours very truly,

Alfred Traverse

AT/et



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South Timbalier/South Pass Profit Center  
Gulf of Mexico Production Business Unit

May 27, 1993

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

Dear Alfred,

I had a nice telephone conversation with Doug Nichols yesterday. He said that he is no longer doing K/T palynology, but has been doing work with Cretaceous Utah coals and Tertiary Wyoming coals.

I also spoke with Martin Farley on a number of occasions at the recent AAPG convention in New Orleans. He appears to have made a good choice of employment with Exxon--he still enjoys his work.

My work at Chevron continues to challenge and interest me. I'm in the process of completing my first workover (a money maker also) since starting with the production group. By mid July, I expect to be generating hydrocarbon prospects on a computer workstation using 3-D seismic data. Suzanne, Sheena and I will be moving into a 32 year old home that we've applied to purchase by the beginning of July. Sheena will be starting kindergarten in the Fall and recently wowed an audience at a ballet recital entitled "Sleeping Beauty."

I'm enclosing a copy of the multiauthored manuscript "Multidisciplinary stratigraphy and depositional environment across the Cretaceous/Tertiary boundary at the Brazos River, Falls County, Texas," as I sent it to David Bottjer at USC for publication consideration in the journal *Palaios*. Please have a look at it and let me know if you have any comments. The palynology represents only part of what my dissertation contains. I avoided getting too heavily into the statistical iterations that I used since that would not have been appropriate for this type of paper.

Please give my regards to Betty and Carmen.

Cheers,

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16 June, 1993

Dr. Dale C. Beeson  
Chevron U. S. A.  
935 Gravier St.  
New Orleans, LA 70112

Dear Dale:

Yours of 27 May arrived while we were out of town--picking up the last installment of the Insley antique furniture. The ancient cousin who had been storing it for us had a stroke and/or heart attack and had to go to a nursing home. Her home was sold. Now Betty is for the first time in her 65 years without a home in Indy, and we stayed three nights in a motel. We took one piece to John and family in Memphis, etc.

Before he called you, DJN called me. Among other things he requested loan of a copy of your thesis. I have sent him the departmental copy. I will have to monitor that--it's signed out to me!

Good to know that you like your work. Jobs are hard to come by, and you are very fortunate in at least that respect. Bruce Cornet is giving late night TV interviews about his "research" with UFOs and estraterrestrial "forces" and must have decided to give up any hope of employment! I've heard he's also into "angels," but I haven't seen public notice of the matter (yet).

Regarding your MS, I'll get to it a little later--I have several other things at the moment that are more urgent. I can say right off, however, that I really object to the acknowledgment section. It's true that E. Barron came up with some money to help you, but the general funds of the Palynological Laboratory helped too, and the casual reader would assume that Traverse had absolutely nothing to do with the project, which is at least a slight exaggeration. Furthermore, I am sure that EIT helped at least occasionally. You'd be the first student ever who didn't think so. I believe I was helpful in some of the laboratory business too--such as with installation of the famous "Beeson shelves," to take one example that comes to mind. Most professors expect to be co-authors of at least some paper by a doctoral candidate. What else is there in it for him? However, I have never insisted on that and usually haven't got it. But even Dunay and Cornet acknowledged the contribution of my laboratory to establishing and encouraging their projects. Etc. It could be argued that Chevron should be acknowledged too.

Will pass on the greetings to the two ladies you mention. I would like also to be remembered to the distaff members of your family.

Yours very truly,

Alfred Traverse

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25 January, 1993

Dr. Dale C. Beeson  
Chevron Production Co.  
935 Gravier St.  
New Orleans, LA 70112

Dear Dale:

Thanks for yours of 18 Jan. Re Martha Wells' speculations on size of the specimens, she suggested it was something operative during the sedimentation, perhaps a result of the marine environment, as opposed to the fresh-water origin of most of the described specimens in the literature. Actually, this grew out of discussions between the two of us. I would think we could sneak that into our proposed paper.

Speaking of which, I would be thinking in terms of a paper for, say, Grana. As you say, I can write the general parts. If you give me leave, I'll do a draft of it and send on to you for further work, and so forth.

You are still remembered with fondness here. I'm not sure Dan Vice has found a substitute sounding board. He tries me occasionally.

I'm still resisting the modern world, though as you can see I now am very proficient with WP5.1. John (our son) gave me an answering machine for Xmas 3 yrs. ago. It was taken out of its box last week and set up with Roy G.'s help. After 15 mins. of feeling uncomfortable about it, I disconnected it and put it back in the box. I hate it that 3 of our 6 grandchildren are Nintendo-nitwits. Progress, my eye. Etc.

All the best to S. and s. (who probably doesn't remember me now.).

Yours very truly,

Alfred Traverse



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South Timbalier/South Pass Profit Center  
Gulf of Mexico Production Business Unit

January 18, 1993

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

Dear Alfred,

I enjoyed our recent telephone conversation as well as your letter dated 3 January. I'm happy that Martha Wells did such a swell job on the Brazos K/T sample in your 423 class. By the way, what was her speculation as to the reason for the reduced size of the sample taxa relative to the descriptions in the literature?

My multi-author paper is coming along OK. The length of the paper will probably be too great for *Earth and Planetary Science Letters*. Gerta Keller has mentioned *Palaios* as an option since rapidity of publication is also a consideration. While preparing my parts of the paper, I've noticed that Daniel Habib et al. (*Geology*, v. 20, p.165-168) made use of dinocyst diversity (number of species) at the K/T section near Braggs, Alabama, to infer sea-level change. They've made an effort to tie their biostrat correlations to a sequence stratigraphic framework--that Vail curve stuff. Keller is all psyched to plug our Brazos event bed ("tsunami bed") into such a framework. I think she wants to put a lid on the K/T impactors at the Brazos section. It's interesting seeing all of this go on while my main job is to locate economic hydrocarbons and make money for Chevron stockholders.

I still need to publish the contents of my thesis appendix D dealing with the bolting cloth snafu. I think that your previous work with the cloth as well as your communication with the distributor would help flesh out the experimental results which I've presented in the thesis. As you've suggested in the past, this information should be got out as a caveat to others who would place too much confidence in the cloth's ability to retain particles larger than the rated pore size. How would you suggest the paper be prepared? I basically wish to present the results of my sieve cloth tests and their implications. You could probably provide the historical perspective/background to set the stage. What do you think?

Hi to Betty. Please also pass my regards on to Carmen.

All the best,



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3 January, 1993

Dr. Dale C. Beeson  
2805 Bryant Dr.  
Metairie, LA 70003

Dear Dale:

It was fun to get your seasonal message with much interesting news. Happy 1993 to all three of you!

It was interesting to hear about plans to publish aspects of your thesis as a joint paper with others. However, I am not convinced you shouldn't have got out a paper somewhere under your own name, summarizing the results.

Furthermore, I really would like it if we could think of something that we could get out jointly, as Beeson and Traverse. In retrospect I regret that I didn't try to work out something like that with all of my students, at least once.

What about something to do with the bolting cloth experiments? Could I still make enough of a contribution to deserve co-authorship? It is a technique that I feel some responsibility for, as I promoted it heavily at one stage. Subject still interests me.

All the best.

Yours very truly,

Alfred Traverse

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3 January, 1993

Dr. Dale C. Beeson  
Chevron  
935 Grovier St.  
New Orleans, LA 70112

Dear Dale:

Just a quick report. You may recall that in 1991 you gave me a sample from your thesis work to be used as an unknown. It was sample Bl-90-28, and the student was Bill Taylor, as you also may recall. He did a fair job with it. This year I assigned the other half of it again, by mistake. In the back of my mind I thought it was another Beeson sample. In any case, by the luck of the draw, the best undergrad student (Martha Wells, member of the womens' golf team, among other things) drew your sample. She turned in a fascinating report, coming to the correct conclusion that the sample is late Maastrichtian, in the Aquil.-Wodeh. province, etc. She was especially interested in the fact that the specimens were smaller than literature descriptions of the taxa and speculated what might have caused this. 423 is a fun course.

Greetings to all.

Yours very truly,

Alfred Traverse

Dale Beeson  
1201 Ridgelake Drive  
Metairie, LA 70001  
(504) 837-0071

March 17, 1992

Dear Alfred and Betty,

Sorry for having been so remiss in letting you know how we're doing. It was good to get your postcard and to know that things are going well. I imagine your time in Germany will seem to go quickly as you try to accomplish everything that you set out to do.

My family and I arrived at our hotel lodging in New Orleans on the night before Christmas. We were given lodging on the executive floor of the hotel and made to feel quite at home for the 8 days that we called the Holiday Inn "home." Sheena still refers to it as our first new home in New Orleans whenever we happen to drive by. She had a keen memory.

We are renting a 3 bedroom house with enclosed yard in Metairie, 15 minutes by automobile from my office in the New Orleans central business district. It's a pleasant enough house, but a little expensive (I think) at \$850 per month. A physician owns the house and would like to sell it, but the rental market is far better than home sales for home owners at present. I don't anticipate that that will change over the next year as the local oil-fueled economy goes through some more shocks.

Suzanne has been a big help getting us settled into our new home. She has begun her business networking and will attend a governor's conference on women at the governor's mansion in Baton Rouge later this week. Sheena is making new buddies and is connected to a couple of different daycare situations that she enjoys. The three of us went to 8 of the 40-50 parades in this area during the Mardi Gras festivities. All businesses were closed on Mardi Gras itself, including Chevron. I suppose the most enjoyable part of the parades is catching the "throws" (i.e., doubloons, cups, beads, etc.) that are tossed to the crowd along the parade routes. It took almost no time for Sheena to get the hang of using the phrase "throw me something mister." A huge box full of throws at our home is proof of that.

I've jumped onto another steep learning curve in my work at Chevron. I'm enjoying the learning process of becoming a subsurface interpreter and synthesizing geoscientific data, but Chevron (as well as most other companies in the oil industry) is in the process of cutting back the number of its earth scientists by about 30-40%. I am told that I'm immune to being cut because I'm so new, but you can imagine how unsettled the work environment is as workers await the details of the new organization. The reason for this big change goes back to the poor financial performance of the oil industry in 1991 and a shift from exploration spending in the U.S. to spending overseas. It appears that this will be an irreversible trend as the cost of exploration in the United States (political and economic) is expected to remain high. Remaining petroleum geologists domestically are likely to shift into development and exploitation capacities in service to the petroleum engineer. Of course these events will also impact the future of the AASP membership.

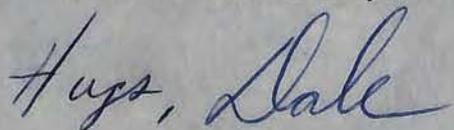
I received a nice letter from Dr. Barbara Mohr of Zurich. She said that you had spoken to her of my work and of the occurrence of *Kuylisporites* in some of my Texas samples. I'll be sending her some information shortly in support of her research.

My thesis has gone through what I believe should be the final revision for the Graduate School thesis office. After making revisions / additions recommended by the thesis committee, I sent in a version of the thesis which the thesis office essentially accepted with a few minor format revisions which I completed recently. I can now spend more time at trying to get the results of my research published. I'm considering writing a technical note for the AASP newsletter to initially get the word out as I anticipate a longer wait when I send it in to a more widely distributed publication. Do you have any recommendations?

There will be a debate on the question of mass extinction at the K/T boundary at the AAPG annual meeting in Calgary in June. Chevron is funding part of the proceedings, but I've been denied the opportunity to go. Alan Hildebrand (and others) will take the pro-extinction side of the debate while Gerta Keller (and others) will take the anti-extinction side of the debate. I'll have to get updates by letter I suppose.

Hope all is well. Take care and stay in touch.

All the Best Always,

A handwritten signature in blue ink that reads "Hugs, Dale". The signature is written in a cursive, flowing style.

Beethovenstr. 36/25—  
6000 Frankfurt a.M. /  
Germany  
11. IV. 92

Dear Dale & Suzanne,

Warning! Betty is using the computer for her Term paper - but I'll try to print! (The laptop has worked fine after we discovered that W.P.S. 1 doesn't exist at the Museum, so we couldn't use their printers - we bought a printer which will give to the Museum when we leave - it's 220V, of course.)

Your letter of 17 March was just read today, because we've been on the road most of the time since it apparently arrived. Just back from 10 do. in Berlin. Very interesting - conference of all Fulbright profs. Even Sen Fulbright came - he's now 87. Unfortunately I broke a tooth on a stone in the stone-ground wheel bread. Fulbright people found a dentist for me, and he saved what was left of tooth - inserted pins and made a temp. crown to get me home. Swelled up 3 days, tho'! I did learn some new German vocabulary: "open wide," etc.

Sounds as if all three of you are getting settled. Suzanne will soon be a factor in LA! The Mardi Gras stories were interesting - it's also big here ("Fastnacht"), and the "thru" are also a factor - Betty got flowers at one of them, and I got a false parchment scroll at another.

As the Germans say, I'm "holding my thumbs  
for you" as far as the job goes.

Thanks for the photos - interesting keepsakes! One  
of these years I'm going to say "no more photos" though! -  
I look much older than I feel.

Glad you heard from Dy. I haven't yet  
to speak a word of English with her. Her  
husband is American (Minnesota). She should  
be an interesting contact for you - and you for her!

Heavens, I thought your dicta was "old business" -  
it was a shock to learn that the people in Kern  
were still on your back! Your idea of a note for  
Nature is ok., but I'd consider also a  
short article for Science - That's maximum impact,  
and they are hunting for geology and probably  
would take it. A detailed article could go later  
to Palaeobotany.

Sorry about the Calgary meeting. From Cherron's  
pt. of view it's a good idea to keep you home,  
I suppose. (Incidentally, I put a stop on  
my Cherron work when I left home, and it kicked  
in at a substantial loss! Hum.)

Repair on me - the book was finally finally  
shipped a month ago. I am now writing a chapter  
for Jansonius' book. The Javanian species are getting  
shorter & shorter! (I'm the best part to Science!)  
Alfred (Beth, sister!)

XXXXXX  
863-3419

30 November, 1981

Mr. S.Y. El Beialy  
Department of Geology  
Faculty of Science  
Mansoura University  
Mansoura, Egypt

Dear Mr. El Beialy:

Thanks for yours of 9 and 11 November, which came today. Yes, you do have to take the GRE for admission to Penn State--there are no exceptions. If you have heard from others that they were firmly admitted without this test, I would be very much surprised. Taking the test should not be a barrier for you, if you're reasonably well prepared, and it does not ordinarily require special studying. The basic two parts have to do with verbal and arithmetic comprehension, and these are the most important parts. The other part is advanced geology, and anybody with a basic education in geology should do all right. Besides, what would you have to lose by trying?--the worst that could happen would be that you did poorly, and nobody need know. However, that is your affair.

As far as I know, all quality American universities require the GRE for firm admission as a degree candidate. Many European universities have no entrance requirements, and they would appear to be best for you if you decline to be examined--e.g., Sheffield University in England.

Once more I must emphasize, as I have in my previous letters to you, that despite the guarantee of your government that all your fees will be covered, you must still compete with other applicants for admission to our graduate program. Until we have both the TOEFL and GRE scores, we cannot evaluate your application..

Best wishes.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et

cc: Ms. Gruhn, Graduate Admissions, Department of Geosciences

Prof. A. TRAVERSE  
The Pennsylvania State University  
University Park, Pennsylvania 16802

Dept. of Geology  
Faculty of Science,  
Mansoura University,  
Mansoura, Egypt  
Nov. 9<sup>th</sup>, 1981

Dear Prof. Traverse

It is a great pleasure to write to you hoping that you will facilitate my task. Briefly, I have sent all my credentials to the Graduate Admissions Department, in order to process my application, a twenty-dollar fee is required. I included you find a copy signed by the general director, Missions department, Cairo, Egypt indicating that all the fees, tuition, as well as <sup>the</sup> living allowances will be paid by the Egyptian Educational Bureau, 2200 Kalorama Rd. Washington D.C. N.W. 20008, U.S.A. Also a copy of this letter is sent to the Graduate Admissions, 201 Kern Graduate Building, University Park, Pennsylvania 16802 to contact the Egyptian Educational Bureau to pay the required fees. The Egyptian Educational Bureau in U.S.A has received all my documents on 30/9/1981 to make the necessary requirements. Concerning the TOEFL, the exam will be on Nov. 21<sup>st</sup> 1981. The score report will be available at the beginning of January 1982. All what I need now my Prof (please): -

1. In order to come to the U.S.A, you must send me an admission letter within 30 days
2. Postpone the GRE exam until I join and meet you in the department, where it is now very difficult to prepare for that test.

All Egyptian students who obtained and awarded their

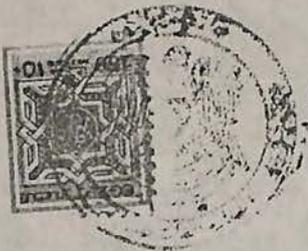
(P.T.O)

Ph. D degrees from that university especially in the Zoology Department have emphasized that the Professors are the backbone in their departments, I mean now, you can accept my admission or not whether the University regulations can allow or not.

I look forward to hearing from you. Thank you in advance.

Sincerely yours

S. Y. El Beialy



Ministry of Higher Education  
Missions Department  
Cairo - Egypt.

Mr. Salah Yousef Mahmoud El Beialy who is an assistant lecturer in Faculty of science, Mansoura University, has been granted a scholarship ( mission ) for post graduate study in America for Ph.D. degree .

The Egyptian Missions Department will sponsor him during his study period .

The required fees and tuition as well as the living allowances will be paid by the Egyptian cultural and Educational Bureau, 2200 Kalorama Rd. Washington D.C.N.W. 20008, U.S.A.

Yours Sincerely

*Salah Yousef Mahmoud El Beialy*  
*Salah Yousef Mahmoud El Beialy*  
General Director

7-11-1981



*Salah Yousef Mahmoud El Beialy*

Prof. A. Traverse  
The Pennsylvania State University  
University Park, Pennsylvania 16802

Dept. of Geology  
Faculty of Science  
Mansoura University  
Mansoura, Egypt

Nov. 11th, 1981

Thanks for your letter of 22 sept., 1981 which I delivered very late on Nov., 10th. I have sent you a letter dated 9 November, 81 before I receive your fascinating letter. Every word in your letter is clear and understandable.

Frankly, I can say, GRE exam will be a barricade now, the reason is mainly due to the long period required to revise all the subjects I have studied during my study period in Secondary schools. The exam is strongly related to those who are specialists in Mathematics and Physics, if it is related to anyone who will in the future begin a palynological studies, it is likely to begin studying courses in the Penn. State followed by GRE exam in the field of Palynology.

As regards the TOEFL exam, I have the feeling that I will pass, the exam will be in Egypt on Nov. 21, 1981.

My dear Professor

if you do insist on taking the GRE exam, it will be impossible to join the Penn. State University and at the same time be deprived of working under your supervision.

In case you did not agree to be a graduate student in Penn. State University, please, give me advice to contact specialists in palynology in other Universities whose requirements need no GRE exam.

Please, write me soon as regards this critical matter.

Best wishes.

Sincerely yours

S. Y. El Beialy

28 May, 1981

Mr. S. Y. El Beialy  
Faculty of Science  
Mansoura University  
Mansoura, Egypt

Dear Mr. El Beialy:

Sorry it has taken me so long to answer your fascinating letter of 14 April. I have been on sabbatical leave in Switzerland and then in the hospital with an appendectomy.

Your M.Sci. thesis sounds very interesting, and I would much like to see it! It would be fine to have you work on your Ph.D. here, and I'd like to have you as a student.

However, you must apply for admission and compete with other applicants—a University requirement. I am sending your letter directly to Ms. Linda J. Gruhn, Secretary for Geosciences Graduate Programs, who will send you the necessary forms and instructions for completing them. When did you want to start?

All the best.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et  
cc: L. Gruhn



**Amoco Production Company**

4502 East 41st Street  
P.O. Box 591  
Tulsa, Oklahoma 74102

Research Center  
918-627-3400

Dec. 4, 1974

Dear Professor Traverse,

I acknowledge with thanks the receipt of your paper "Palynologic investigation of Two Black Sea Cores".

I appreciate having it, the more as my personal library is still at my last location.

If you decide to visit Nikolas, please be so kind and let me know it.

Yours sincerely,

San Tejin

can't read name → Beju

(return to file box)

(behave or not)

KLARA BELKIN  
2077 Wallace Ave. Apt. 352  
Bronx, N.Y. 10462  
(212) 931-3278

FIELD: Pollen Analysis: spores, pollen (Mesozoic & Cenozoic), and dinoflagellates (Mesozoic).  
Palynomorphology.  
Biostratigraphy.

EDUCATION:

- 1981- Queens College of the City University of New York, Department of Earth and Environmental Sciences, New York. Stratigraphic training, specializing in the investigation of Dinoflagellates, biostratigraphy, and chronostratigraphy. Special work done on the stratigraphic distribution of Dinoflagellate cysts in the Jurassic of Portugal. Advisor: Dr. Daniel Habib.
- 1969-1973 USSR Academy of Sciences Botanical Institute, Leningrad.  
Kandidat (doctoral) degree in biology, specializing in palynology and palynomorphology.  
Advisor: Professor L.A. Kuprianova, Ph.D.  
Dissertation: "Pollen Morphology of Sympetalae using examples of pollen of Tubiflorae Yakutia flora."
- 1955-1964 Leningrad University, Department of Geography, Leningrad.  
Degree in Botany and Geography, specializing in plant taxonomy, geography, and palynology.  
Thesis: "Pollen morphology of some species of Family Polemoniaceae."
- 1960-1962 Charles University, Department of Paleontology, Prague, Czechoslovakia.  
Palynological training, specializing in palynology, geology, and paleontology.  
Advisor: Dr. Blanka Pacltova.

EXPERIENCE:

- 1975-1979 USSR Academy of Sciences Botanical Institute, Leningrad.  
Research Scientist-  
Conducted research on pollen of various families of Sympetalae, e.g. Lamiaceae (Labiatae), Scrophylariaceae, Asteraceae, Borraginaceae, etc., of Yakutia flora.  
-Studied pollen dimorphism, especially dimorphism according to size of highly evolved sixcolpate pollen of ten species of five genera of Family Labiatae.  
-During study of pollen morphology of 20 species of genus Pedicularis of Yakutia flora, I discovered a new morphological structure - pseudoleptoma. This discovery helped in pollen classification: Pedicularis pollen are subdivided into three types and four subtypes based on number of colpi and their characteristics, pollen size, and presence or absence of pseudoleptomae.  
-Research on structure of apertures of pollen in some species of Family Asteraceae of Yakutia flora demonstrated much greater complexity of structure than earlier thought. I discovered a new morphological structure, -infracolpa. I have also characterized individual elements of apertures and traced four types of structure: Type I- tricolporate, Type II- tricolporate, Type III - tricolporate, Type IV - tricolpate-infracolporate.
- 1973-1975 USSR Academy of Sciences Geological Institute, Yakutsk.  
Research Scientist - studied pollen of recent plants of Yakutia Sympetalae and fossil pollen in Quaternary sediments of Yakutia.
- 1965-1969 Yakutsk Territorial-Geological Office, Yakutsk.  
Palynologist, studied pollen preserved in geological regions in Mesozoic and Quaternary sediments of Yakutia.

PUBLICATIONS:

15 articles on pollen morphology of recent plants published in USSR, Czechoslovakia, Sweden, India. See attached.

LANGUAGES:

Russian (native), English, Czech, Polish.

PERSONAL DATA:

Born in Yakutsk, USSR. Married, two children. Immigrated to U. S. August 1980. Employment Authorized by U. S. Immigration and Naturalization Service.

LIST OF PUBLICATIONS

1. "Pollen morphology of some species of family Polemoniaceae." Izd. Sibirskoye Otdeleniye Akademii Nauk v SSSR (Publication of the Siberian Branch of the Academy of Sciences of the USSR), Yakutsk, 1970.
2. "New palynological data on taxonomy of genera Pedicularis." Trudy III Mezhdunarodnoi Konferentsii (Works of the III International Palynological Conference), Leningrad, 1971.
3. "Dimorphism of pollen Labiatae of Yakutia flora." Botanicheski Zhurnal (Botanical Journal), Leningrad, 1972.
4. "New palynological data on taxonomy of genera Pedicularis." Ibid., 1972.
5. "Morphological criterion for determining pollen Tubiflorae in Quaternary sediments of Yakutia." Izd. Sibir. Otdel. Akad. Nauk SSSR, Yakutsk, 1975.
6. "Pollen dimorphism of Lamiaceae of Yakutia flora." Trudy Mezhdunarodnoi Konferentsii Evolyutsionnaya Biologiya (Works of the International Conference on Evolutionary Biology), Prague, 1974.
7. "Structure of aperture of family Asteraceae of Yakutia flora." Trudy XXII Mezhdunarodnoro Botanicheskoro Kongressa (Works of the XXII International Botanical Congress), Leningrad, 1975.
8. "Pollen morphology of family Polemoniaceae of Yakutia flora." Trudy Palinologicheskoi Konferentsii (Works of the Palynological Conference), Magadan, 1976.
9. "Pollen morphology of family Lamiaceae of Yakutia flora." Trudy Geologicheskoi Konferentsii (Works of the Geological Conference), Yakutsk, 1976.
10. "Structure of aperture of family Asteraceae of Yakutia flora." Botan. Zh., Leningrad, 1975.
11. "The significance of palynomorphology." Nauka Sibiri (The Science of Siberia ((newspaper)), Novosibirsk, 1976.
12. "Pollen morphology of Tubiflorae of Yakutia flora." Trudy IV Mezhdunarodnoi Konferentsii v Indii (Works of the IV International Conference in India), Moscow, 1977.
13. "Pollen morphology of family Borraginaceae of Yakutia flora." Trudy Palinologicheskoi Konferentsii (Works of the Palynological Conference), Vladivostok, 1978.

cited in:

"India- Bibliography of Published Work on Palynology." Vol.2" (ed. Taikaimoni), 1973.

"Sweden- Bibliography of Published Work on Palynology." (ed. Nilsson). To be published, Stockholm.

Naturhistoriska Riksmuseet  
PALYNOLOGISKA LABORATORIET  
104 05 STOCKHOLM 50

Tel. 08 - 15 43 31 (sekretariat)  
08 - 15 84 14 (föreståndare)



Swedish Museum of Natural History  
PALYNOLOGICAL LABORATORY  
S-104 05 STOCKHOLM 50  
SWEDEN

To whom it might concern

CERTIFICATE

Mrs. Klara Belkina is wellknown in the field of palynology through her publications of the Yakutian (USSR) pollen flora. She has been working in the Palynological Laboratory of the Komarov Botanical Institute, Leningrad under the guidance of Professor L.A. Kuprianova. Professor Kuprianova has made pioneering research in palynology throughout the years, which has also been quite profitable to Mrs. Belkina in her studies of various families, e.g. Asteraceae, Lamiaceae, Scrophulariaceae etc. Mrs. Belkina has shown good scientific ability and qualifications and will undoubtedly be capable of contributing greatly to palynology in future.

With reference to this I can only strongly recommend Mrs. Belkina.

Yours sincerely

Siwert Nilsson

Ass.Prof., Head Palynological  
Laboratory, Stockholm (Sweden)

**Division of Biology**

Ackert Hall  
Manhattan, Kansas 66506  
913-532-6615

To whom it may concern:

I met Mrs. Klara Belkin in 1975 during the Leningrad Botanical Congress. She is a former student of Professor L. A. Kuprianova, the Soviet Union's most distinguished palynologist. Mrs. Belkin has a Kandidat degree in Biology from the Komarov Botanical Institute, Leningrad. This degree is roughly equivalent to our Ph.D. It is a research degree requiring a thesis with original research. Her undergraduate work was done at the University of Leningrad. (I visited the University of Leningrad 2½ years ago and their undergraduate program in botany is superb--better by far than anything we have in the U.S.A. for undergraduates and it is my understanding that they have had this strong program for many years.)

Mrs. Belkin's publications are all on structure and morphology of Tubifloræ pollen and the taxonomic implications of pollen morphology. Her work is almost totally based on careful light microscopic study and is of the quality one would expect from the Komarov Institute. She also has several years of experience working with fossil pollen.

I have no doubt that once she secures a suitable position she will continue to make significant contributions to palynology.

Sincerely,

*A. Spencer Tomb*

A. Spencer Tomb  
Associate Professor  
(913) 5326640

16 January, 1981

Dr. Klara Belkin  
414 E. 204th St., Apt. 6E  
Bronx, NY 10467

Dear Dr. Belkin:

Thankyou for your form-letter of 23 December, which was forwarded to me here.

Unfortunately, I am not able to help you directly--we have no positions available. However, I am sure that a Russian-speaking palynologist should have good possibilities in North America. New York, however, is not where you should be as a palynologist. In Houston, Tulsa, Los Angeles, Calgary, and other of the palynological centers, you would do better. For example, Dr. Jansonius in ~~66~~lgary could certainly use your help. I presume you have looked up Dr. Calvin J. Heusser (Dept. of Biology, New York University, Sterling Forest, P.O. Box 608, Tuxedo, NY 10987) and Dr. Daniel Habib (Dept. of Earth & Environmental Sciences, Queens College of C.U.N.Y., Flushing, NX 11367), already? They could advise you better. I do wish you all the best.

Yours very truly,

Alfred Traverse  
Visiting Professor

AT/et

*file*  
414 E. 204th St., Apt. 6E  
Bronx, N.Y. 10467

December 23, 1980

Dr. Alfred Traverse  
529 Deilse Building  
Pennsylvania State University  
University Park, PA 16802

Dear Dr. Traverse:

I would like to apply for a position as palynologist in your department. I specialized in pollen of various families of Sympetalae of Yakutia flora, and discovered two new morphological structures - pseudoleptoma and infracolpa. I also studied dimorphism of Lamiceae, and fossil pollen in Mezozoic and Quaternary sediments of Yakutia.

I immigrated to the U.S. from the Soviet Union several months ago. For the last five years I worked at the USSR Academy of Sciences Botanical Institute in Leningrad, with Professor Kuprianova. Before that, I worked for ten years in Yakutsk in the above-mentioned fields. I have a doctoral degree in biology, specializing in botany, from the USSR Academy of Sciences Botanical Institute, and an M.S. in botany and geography from Leningrad University.

Whether or not there are any openings at present in your department, I would appreciate any advice or suggestions you may have for me in my search for professional contacts and employment.

My vita are enclosed. Thank you.

Sincerely,

*Klara Belkin*

Klara Belkin

Naturhistoriska Riksmuseet  
PALYNOLOGISKA LABORATORIET  
S-104 05 STOCKHOLM 50

Tel. 08 - 15 43 31 (sekretariat)  
08 - 15 84 14 (föreståndare)



Swedish Museum of Natural History  
PALYNOLOGICAL LABORATORY  
S-104 05 STOCKHOLM 50  
SWEDEN

To whom it might concern

CERTIFICATE

Mrs. Klara Belkina is wellknown in the field of palynology through her publications of the Yakutian (USSR) pollen flora. She has been working in the Palynological Laboratory of the Komarov Botanical Institute, Leningrad under the guidance of Professor L.A. Kuprianova. Professor Kuprianova has made pioneering research in palynology throughout the years, which has also been quite profitable to Mrs. Belkina in her studies of various families, e.g. Asteraceae, Lamiaceae, Scrophulariaceae etc. Mrs. Belkina has shown good scientific ability and qualifications and will undoubtedly be capable of contributing greatly to palynology in future.

With reference to this I can only strongly recommend Mrs. Belkina.

Yours sincerely

*Siwert Nilsson*

Siwert Nilsson

Ass.Prof., Head Palynological  
Laboratory, Stockholm (Sweden)

September 20, 1973

Alfred Traverse

Dean M.E. Bell  
118 Mineral Science Bldg.

Dear Dr. Bell:

About a year ago I was funded by the National Science Foundation for a project of ours in research on Triassic rocks of Eastern North America. One of the items in the grant was for accessory microscopical equipment for our present microscopes in order to enable us to carry out a particular kind of microscopy. The amount of money requested and granted for this purpose was \$2,900. However, since the grant was made I have discovered in attempting to purchase the equipment that it now costs approximately \$3,500. I have corresponded to no avail with the National Science Foundation regarding the possibility of the NSF picking up the increase in tab. In Dick Ray's most recent letter on the subject he suggests that perhaps Penn State might be willing to help out in this matter. I have no reason to expect that this is possible, but the purpose of this memorandum is to call the matter to your attention in case there should be funds available for equipment sometime during the coming year which might be applied to this purpose.

19 Nov., 1971

Dr. M. E. Bell  
118 Mineral Science Building

Dear Maury:

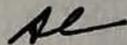
This is to get something in writing regarding the paleozoic palynology short course at LSU in January. I believe that I should attend this in order to be 100% on top of the field, as I should be.

Transportation will cost about \$280; fee for the course is \$100; expenses while in Baton Rouge would be about \$100.

Could you find \$150 in some fund or other to assist me in this endeavor? I am working on the geology department (whoops, section) for an equivalent amount. If I can get it, that would leave about \$200 to get from some other source, personal or otherwise.

Hoping to hear from you about this, I am

Yours very truly,



Alfred Traverse

B-256.

If we get some funding from NSF for a "skeleton crew" maintenance of this project we will continue the work of abstracting certain parts of the palynological literature for eventual storage of the information in computer-processable form for use by the palynological community. On the basis of recent conversations with the other principal group doing this sort of work (Univ. of Arizona), it seems likely that Penn State will assume responsibility for certain aspects of the total project, probably the ~~morphological~~ input re morphological features of Cenozoic pollen and for ~~information~~ information ~~already recorded in the~~ Catalog of Fossil Spores and Pollen (see B-50).

no-number ~~Triassic~~ Triassic project:

This project concerns field work in the Triassic areas of Texas and adjacent parts of New Mexico, aimed at discovering new and more productive ~~localities~~ localities of Triassic plant remains, especially shales ~~pr~~ yielding spore-pollen floras. The project also provides for ~~the~~ studying of the floras so discovered, in order to determine the paleoecological implications of the plant communities represented and with the subsidiary hope that observations concerning the evolution of Mesozoic plants ~~may~~ may result.

TRAVERSE, ALFRED

B-50 CATALOG OF FOSSIL SPORES AND POLLEN. W. Spackman, A. Traverse, H. T. Ames, Jane P. Dolson, and D. L. Krebs. ~~Various Oil Companies and Subscriptions.~~ 424-04 Catalog (2355).

*Continuity Vol. 33 in preparation*

B-223 FOSSIL FLORAS AND LITHOLOGIC FACIES IN ~~THE~~ AND EOCENE ROCKS OF TWO AREAS OF TEXAS. A. Traverse and D. J. Nichols. National Science Foundation Grant GA-646. 424-14 NSF Paly. Facies (6611). \$28,900 for 2 years beginning September 1, 1966; 424-14 NSF Wilcox (6967). ~~\$28,900 for 2 years beginning September 1, 1966.~~

*Completed*

B-256 COMPILATION OF A COMPREHENSIVE INDEX OF TAXONOMIC, STRATIGRAPHIC, MORPHOLOGICAL AND BIBLIOGRAPHIC DATA FOR PALYNOLOGY. A. ~~Traverse~~ ~~W. Sanders~~ and ~~H. T. Ames~~. ~~NSF GN-782. 424-04 NSF Paly. Data (6610).~~ ~~42,500 NSF Paly Ames I (6612).~~ ~~83,900 increase in estimate of time to date 1970.~~

*Continuing, but probably will reduce funding for 1970-71*

B-291 STUDY OF FOSSIL FLORAS. A. Traverse. Central Fund for Research, E&MS 6-69. \$400 for 1 year beginning July 1969.

*Continuing project - General collecting study.*

*Paleoecology of*

*Triassic Palynefloras of Northwest Texas. A. Traverse*  
*NSF, Grant GA-23408, for 2 years beginning*  
*OCT. 1, 1970.*

*Bob - This is an I mentioned  
fig - I see it's already in  
sheet but without no.*

File: JR. M. E. BELL

THE PENNSYLVANIA STATE UNIVERSITY  
University Park, Pennsylvania

APPLICATION FOR GRANT FROM THE CENTRAL FUND FOR RESEARCH

Date: 5 Feb., 1971 Department: Geology & Geophysics  
From: Alfred Traverse College: EMS  
Name  
Professor Campus: V.P.  
Position

Application is hereby made for a grant in the amount of \$500.00 for fiscal year 1971 or (shorter period) \_\_\_\_\_ to \_\_\_\_\_.

I. Title of Project: Study of fossil floras

II. Objective(s) (please be specific):

Over a long period of time (1948 - present) I have been conducting studies of fossil plants, both megafossil and microfossil to elucidate problems of sedimentation and also of paleo environment and evolution — The money requested here is for herbarium cases for our research collection.

III. Brief plan of investigation (Be as specific as possible regarding the procedures you plan to follow. Give a brief justification of the amounts you plan to spend for wages, travel, supplies, and equipment. (State these amounts in Item V as well). List cooperating colleges, departments, individuals, etc., and comment, if it is relevant to do so, on the adequacy of existing facilities, and on the possibility of the development of your research proposal for support by outside agencies, etc.).

Money will all be spent for two (2) herbarium cases at \$250 each. These will provide insect-proof, lockable, easily managed storage for our invaluable collection of herbarium materials of recent plants for use in the sort of study described above.

THE PENNSYLVANIA STATE UNIVERSITY

*File Bell*

Date: August 10, 1970

From:

M. E. Bell

To:

Faculty Members who received grants from the Central Fund for Research

*A. Dravner*

Subj:

Final Report on the Central Fund for Research Grants for Fiscal Year  
1969-1970

Enclosed are an original and two copies of the final report for the Central Fund for Research for 1969-70. This report should be filled in so that a record may be kept of the results on these special projects.

After completion, please sign all copies and have them approved by your Department Head, who will retain one copy for his files and forward the other copy to us.

We would appreciate having these forms in our office by August 21 so that we may ascertain the status of the Central Fund for Research for this year.

MEB:jmk

Enc.



Major Results (continued):

Publications in process or completed during current fiscal year resulting from this investigation:

Dunay, R.E., & A. Traverse, 1970. Preliminary report on Triassic spores and pollen of the Dockum Group, Texas Panhandle: Proc. 2nd Annual Conv. Amer. Assoc. Strat. Palynologists, Oct., 1969, to be published ca. 1971.

Nichols, D.J., & A. Traverse, 1970. Palynology, petrology & depositional environments of some early Tertiary lignites in Texas: Proc. 2nd Annual Conv. Amer. Assoc. Strat. Palynologists, Oct., 1969, to be published ca. 1971.

Plans for ensuing year:

Continue research on spores & pollen of Dockum Group, per above.

Complete palynological studies of cores of sediment from Black Sea.

A. Traverse  
Investigator

14-18-70  
Date

---

Comments by Department Head or Dean:

Approved: \_\_\_\_\_  
Head of Department Date

Approved: \_\_\_\_\_  
Dean Date

Jule - Bell

THE PENNSYLVANIA STATE UNIVERSITY  
INTER-OFFICE CORRESPONDENCE

Date: December 17, 1969

From: M. E. Bell *MEB*

To: Mr. R. E. Montgomery *RM*

*no*

The Woods Hole Oceanographic Institution recently approached Dr. Alfred Traverse of the Coal Research Section to do a modest amount of research in connection with a research project proposed by Woods Hole Oceanographic Institution, Dr. John Hunt, Principal Investigator, to the National Science Foundation. Dr. Traverse has been notified that this proposal is about to be granted and that an item of \$4,000 has been included in the grant to recompense Dr. Traverse and this institution for their part in the research. Dr. Traverse would very much prefer to receive this amount in the form of a new research microscope with built-in automatic photomicrographic apparatus to be used in this and other research in Dr. Traverse's operation. Enclosed is a letter addressed to Dr. Newman of the National Science Foundation, the Program Director concerned, informing him that the \$4,000 item in the proposed grant is for the purpose described above. If it is appropriate I would appreciate it if you would affix Dr. Osborn's signature to this letter and forward it to Dr. Newman.

MEB:dfb

enclosure

cc: C. L. Hosler ✓  
A. Traverse

*COPIES SENT TO*  
*STATIONER*

November 5, 1969

Alfred Traverse

Dr. Bell

Dear Dr. Bell:

Based on our expenditures during the last year for "Paly Data", plus my best guesses on how we would like to operate in the coming months, I feel that we can make a good case that in addition to the money that has been provided for us to spend from Paly Data's budget, we should have \$2,000 more made available for Wages and \$5,000 more made available for Other Expense. As I understand what has been provided in the most recent "juggling", we would have no money at all available for part-time wages although this particular project depends largely on such personnel at certain times. We would also have very little money available for Other Expense, and our experience is that this project is a rather heavy utilizer of such monies.

In summary, I believe that we should have \$7,000 more released for our use from the funds that were unexpended last year.

Alfred Traverse

THE PENNSYLVANIA STATE UNIVERSITY

INTER-OFFICE CORRESPONDENCE

Date: July 25, 1969

From: Alfred Traverse

To: Dr. Bell

Dear Dr. Bell:

Lauren Wright has suggested that you might be willing to cover a portion of the expenses for my forthcoming trip to a palynological conference at Louisiana State University in Baton Rouge. I estimate that the expenses will be as follows:

1. Air Fare	\$150.00
2. Registration	50.00
3. Lodging & Meals	<u>50.00</u>
TOTAL	<u>\$250.00</u>

If you could cover say \$100 of that expense, it would be much appreciated by the Department of Geology.

*u*  
Alfred Traverse  
Associate Professor of Geology & Biology

AT:kwc

*Dr. Traverse*

*I will provide up to \$100 toward the above request. Please prepare a separate*

*~~the~~ expense report for my budget, transmit it to this office & we will insert the budget number.*

*M. Bell*

July 25, 1969

Alfred Traverse

Dr. Bell

Dear Dr. Bell:

Lauren Wright has suggested that you might be willing to cover a portion of the expenses for my forthcoming trip to a palynological conference at Louisiana State University in Baton Rouge. I estimate that the expenses will be as follows:

1. Air Fare	\$150.00
2. Registration	50.00
3. Lodging & Meals	<u>50.00</u>
TOTAL	<u><u>\$250.00</u></u>

If you could cover say \$100 of that expense, it would be much appreciated by the Department of Geology.

Alfred Traverse  
Associate Professor of Geology & Biology

AT:kwc

February 27, 1968

M. E. Bell *MEB*

Mr. R. M. Rodgers

Confirming my telephone conversation, enclosed is a request from Professor Traverse to straighten out the situation with the hoods in room 432 Delke or thereabouts. When Professor Traverse began having classes in this room which involved chemical reactions producing noxious gases, the gases leaked out into the room and the corridor. I reported this to Mr. Bjalme during your absence and he in turn contacted representatives from Maintenance and Utilities to come over and see if they could get the hoods going properly. They came over and succeeded in getting the hoods to exhaust properly, but according to Professor Traverse's enclosed memo, they ordered him to leave the hoods on 24 hours a day with the understanding that if they were turned off, the original condition would return.

This, I agree, is an intolerable situation and we ought to find out what can be done to remedy it. I would like to go to work on this right away. Would you see if M&U can put the hoods into working condition so that they can be controlled by the switches in the room, as soon as possible.

MEB:gjk  
Enclosure

cc: Dean Hosler  
Prof. Traverse *[initials]*

February 15, 1968

A. Traverse

Dr. Bell ✓

Re: hoods in 432

Since I last wrote you, there has been some action on the subject hoods--they now work pretty well, but we are paying quite a price: The folks who have done the work have ordered us to leave the hoods (all three of them) on 24 hrs. a day, alleging, as I understand it, that if they are turned off it is impossible to get them going again without major work. In other words, the switches that seem to control them really don't.

This is an intolerable situation if it is really permanent because the noise level with all three hoods going is distressingly bad--quite fatiguing. One sometimes likes to work at things in there that do not require the hoods and would like to be able to do so without them on at all.

I wonder if you could inquire for me about whether this situation really is necessary--from my level. I have so far been unable to get any satisfaction. Thanks.

Yours very truly,

AT

Alfred Traverse

AT:kwc

February 6, 1968

Alfred Traverse

Maurice Bell

RE: hoods in 432

As I reported to you over the phone last Friday, the subject hoods are a serious health hazard not only to palynologists but to anybody else without SCUBA apparatus in the same general sector of Deike as the subject room.

The problem in a nutshell is that the hoods do not evacuate air fast enough to prevent a percentage of the gases produced in the hood from escaping into the room. At times (because of outside atmospheric conditions?) the problem seems more acute than at others. Also, the various hoods do not seem to function (malfunction?) in unison--sometimes the large, central hood moves almost enough air to be rated satisfactory while the side hoods are not working at all.

This morning (Monday) workmen appeared to investigate the problem, and I hope I succeeded in impressing on them that nothing short of 100% is really satisfactory in this case. There seems to be some leakage of the hood gases into the fifth floor--through the general ventilation system of the building? This is intolerable when it is considered that the gases in question are HF, HCl, Cl<sub>2</sub>, ClO<sub>2</sub>, etc.

Yours very truly,

Alfred Traverse  
Associate Professor of Geology

AT:kwc

January 13, 1967

A. Traverse

M. E. Bell

Dear Dr. Bell:

I heard about the equipment money that is available and would like to be considered for a couple of needs.

As you may know, I had an NSF grant in my pocket when I came here. It provided for a certain amount of equipment, but the provisions were aimed at the situation at the University of Texas, for which I wrote the proposal. It turned out that several items that were available to me at the U. T. are not here, and yet the NSF grant will not pay for them--I used it to buy a centrifuge and photomicrographic equipment. I still need: 1) an analytical balance for quantitative pollen determination 2) a counter for making pollen counts from the microscope.

In detail, these are:

- 1) Mettler H16 Semi-Micro balance, \$895
- 2) Veeder-Root Vary Tally-S (Hartford, Conn. 06102) #KF-14900 (6 tiers high, 6 units wide), \$324.65

Yours very truly,

Alfred Traverse  
Associate Professor of Geology

File: M. Bell

as a sample

THE PENNSYLVANIA STATE UNIVERSITY  
UNIVERSITY PARK, PENNSYLVANIA  
COLLEGE OF EARTH AND MINERAL SCIENCES

APPLICATION FOR GRANT FROM THE FACULTY RESEARCH FUND

Date: 23 June, 1972

Department: Geosciences (Coal Research Sect.)

From: Alfred Traverse  
Name  
Professor  
Position

Application is hereby made for a grant in the amount of \$ 500 for fiscal year 1972-73 or (shorter period) \_\_\_\_\_ to \_\_\_\_\_.

I. Title of Project: Palynology of Devonian-Mississippian boundary rocks, Centre County, Pa.

II. Objective(s) (please be specific):

Processing by palynological methods and study of rocks exposed by recent highway work along US 322 near Port Matilda; Purpose of this work is to expand results already obtained from a similar study a student and I have recently completed (in press, Geoscience & Man) on a sequence exposed on highway I-80, near Snowshoe. The work is of importance and interest because palynology is the best (for parts of the section involved, the only) key to dating the rocks. Stratigraphy of the Devonian-Mississippian boundary of this area is being studied by Dr. E. G. Williams and students, as well as by personnel of the Pennsylvania Geological Survey.

III. Brief plan of investigation (Be as specific as possible regarding the procedures you plan to follow.) List cooperating colleges, departments, individuals, etc., and comment, if it is relevant to do so, on the adequacy of existing facilities, and on the possibility of the development of your research proposal for support by outside agencies, etc.).

Using samples already obtained, plus new ones obtained from time to time as indicated by results of investigations as they develop, study spore-floras and compare assemblages with Devonian-Mississippian floras known from other parts of the world. Facilities existing are adequate, except that new electric stirrers are required to replace worn-out equipment. The money would be used partly for this purpose, partly for field-work and related travel. The proposal is one I would rather not submit for outside funding because I have other, much larger, requests pending for funding for work in other parts of the country. I believe that completion of this work on the basis of local help definitely enhances my chances of continued support from NSF. In time, I am hopeful that good results will encourage the state survey to assist in funding my work.

IV. Present Status if Project is now in Progress:

Some samples collected. Laboratory work just getting underway.

V. (X) New Application

\_\_\_\_\_ Years required to complete the study

( ) Renewal

( ) Number of prior years of support of this research by the Faculty Research Fund.

? (3) Number of prior years of support by Faculty Research Fund for other research  
(guess)

Anticipated use of funds will involve expenditures for:

\$ \_\_\_\_\_ Wages \$ 250 Travel \$ \_\_\_\_\_ Supplies \$ 250 Equipment

Is other financial aid anticipated during the grant year? ( ) yes ( ) no  
uncertain

If yes, insert amount \$ \_\_\_\_\_ Source \_\_\_\_\_

Your signature below will indicate that, if your request is granted, you will make a brief final report of the accomplishments resulting from this grant, on or before October 1 following the grant fiscal year, or make a progress report on or before June 30 of the grant fiscal year if applying for another grant to continue substantially the same line of research.

23-VI-72  
Date

Alfred Travers  
Signature of Applicant

Comments by Department Head: \_\_\_\_\_

\_\_\_\_\_  
Signature of Department Head Date

Approved: \_\_\_\_\_ Grant No. \_\_\_\_\_ \$ \_\_\_\_\_  
Amount Date

Applications should be TYPED and SUBMITTED IMMEDIATELY.  
Supply two (2) copies to your Department Head who in turn will submit one (1) copy to the Earth and Mineral Science Experiment Station.

November 7, 1966

A. Traverse

Dr. M. E. Bell ✓

Leitz equipment is necessary for this order of materials being purchased for NSF project #GA-646 because the existing equipment with which it must be compatible is of Leitz manufacture. No other manufacturer's product would be completely compatible.

Yours truly,



Alfred Traverse,  
Associate Professor of Geology

AT/ej

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF MINES  
Region V  
Box LL, University Station  
Grand Forks, North Dakota

December 10, 1951

Dr. W. A. Bell  
Chief, Geological Survey of Canada  
Ottawa, Ontario  
Canada

Dear Dr. Bell:

The copy of your monograph on the "Uppermost Cretaceous and Paleocene Floras of Western Alberta" was waiting for me here when I arrived from the East. I certainly am grateful to have it. I am hoping to be able to keep my hand in paleobotanically, and am making an effort to keep abreast of the literature, at least for the Cretaceous and Tertiary. My official work here is coal petrography, but of course the boundary lines are arbitrary.

I saw you across the room in Detroit as you were leaving the Coal Committee meeting, and I was sorry that I was unable to leave at that moment. I should like to have told you something about my proposed work here in this new lignite research laboratory.

Sincerely yours,

ALFRED TRAVERSE  
Coal Technologist

cc Region V  
A. Traverse ✓  
File

U. S. Bureau of Mines  
Grand Forks, North Dakota

19 July, 1951

Dr. W. A. Bell, Chief  
Geological Survey of Canada  
Ottawa, Ontario, Canada

Dear Dr. Bell:

I should like to express my appreciation for the courtesy extended me by you and others at the Museum during my recent short visit to Ottawa. I found the collections very interesting, clean and well labelled. I could only regret that my time was necessarily so short as to preclude all but very rapid browsing. I do believe that I have a fair notion of what there is, which will stand me in good stead when I have more time at my disposal.

The above will serve as my address, should you want it for your files. For the next few months, however, the Bureau is sending me around to various laboratories in the country as part of my indoctrination.

My thesis work on the pollen and spores of the Brandon lignite is in the course of preparation for publication. I shall send you a copy when it is ready to explain perhaps more fully what I have been doing. I wish I could have had more time to discuss your work on the Cretaceous with you. Darrah had told me about it, I remember, but as you may have guessed I was on my wedding trip when I saw you and not at full scientific efficiency. Incidentally, I find that I have none of your papers. If they may be purchased from the Survey, may I be sent a list?

Yours sincerely,

Alfred Traverse

17 October, 1966

Dr. C. Y. Belsky  
Laboratoires Exploration  
E. R. A. P.  
72 Gde-Rue  
78- Chambourey  
FRANCE

Dear Dr. Belsky:

I appreciate getting a copy of your interesting paper on Cretaceous spores from Africa, and your nice letter of 10 Oct., 1966.

Under separate cover I have sent you a package of the reprints that I have available at the moment, and I would appreciate it if we could make the exchange between my laboratory and yours permanent.

Yours very truly,

Alfred Traverse

C.Y. BELSKY  
Laboratoires Exploration  
E. R. A. P.  
72, Gde-Rue

78 - CHAMBOURCY (France)

D-50-P n° 6-1173

CHAMBOURCY, le 10 octobre 1966

Dr. A. TRAVERSE  
Dept. of Geology & Geophysics  
Pennsylvania State University

University Park

PENNSYLVANIA 16.802

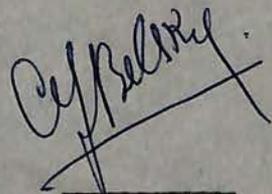
U. S. A.

Monsieur,

Je vous adresse le texte de la publication demandée. En échange, notre laboratoire souhaiterait recevoir copie de vos travaux palynologiques.

L'adresse à laquelle vous m'avez fait parvenir votre lettre du 20 septembre 1966 est celle de mon domicile personnel à PARIS. Mon adresse professionnelle est à CHAMBOURCY, Laboratoires E.R.A.P. (cf. en-tête). Il serait préférable que vous m'envoyiez le courrier à cette dernière adresse.

Croyez bien, cher Dr. TRAVERSE, à mes meilleurs sentiments.

  
C.Y. BELSKY

TO AT  
DATE 23-II-90 TIME 1:50 p.m.

WHILE YOU WERE OUT

M. Edward Bell  
Of Amherst  
Phone \_\_\_\_\_

TELEPHONED  PLEASE RETURN CALL   
CALLED TO SEE YOU  WILL CALL AGAIN   
RETURNED YOUR CALL  RUSH

MESSAGE Palynol. Zonation  
of Upper Freeport  
low-lying peat  
swamp or raised  
log?

Signed BT

(see me for more) The Standard Register Company

Called again on 25 &  
— Informed him to  
Pfefferkorn, Pepper  
Phillips

It called my attention  
to lack of palynology  
here or Freeport!

Juno e-mail printed Fri, 30 Jan 1998 08:59:42 , page 1

From: Mendocino Botanical Gardens <mcbg@mcn.org>  
Return-path: <mcbg@mcn.org>  
To: <traverse@ems.psu.edu>  
Date: Thu, 29 Jan 1998 20:32:28 -0800 (PST)  
Subject: Letter of Rec  
Message-ID: <199801300432.UAA00182@dns1.mcn.org>  
X-Status: Read  
X-Mailer: Windows Eudora Light Version 1.5.2

*Benesi*

Dear Dr. Traverse, did you get the envelope I sent you with the new address at Humboldt to receive the letter of rec?? I sent it the middle of Jan. The letter is supposed to be postmarked by Feb 1. Please advise, I will send another if you didn't get it. And if you haven't gotten the envelope could you fax a copy to the Humboldt Natural Resources Graduate Program (707) 826-3526, for them to use until they get hard copy. Thankyou, Nate Benesi  
mcbg@mcn.org (707)964-4352

P.S. I've settled on Humboldt because they offer great grass classes, one world class agronomist is there. It's important for a grassland ecologist.

File Benesi!

Embassy Park 509  
16416 US.19.N  
Clearwater, FL 33764

e-mail: bettyandal@juno.com

27 Jan., 1998

Ms. Carla Douglas  
College of Natural Resource Science  
1 Harpst Street  
Humboldt State University  
Arcata, CA 95521

Dear Ms. Douglas:

This has to do with the application for admission to your program of Nate Benesi. Nate wrote me about his need for a recommendation letter several weeks ago, but his letter to my office at Penn State just yesterday finally found me--here.

I wrote a letter for Nate months ago to a different department at Humboldt State, but I can't remember its name, and Nate doesn't enlighten me in his letter. I wrote it with all of Nate's records in front of me, and that is better than depending only on my memory, although Nate is a person who has frequently visited me in my lab since he finished at PSU. He now says that he has changed his mind and wants to be with you. I wonder if in this computer age, the other letter could be found? The department was another with a botanical thrust.

Nate took two of my small enrollment courses (palynology and paleobotany) about three or four years ago. I recall that he was one of the top students in both classes. In fact, from the point of view of keen interest in the subject matter and incisive thinking about the research problems that the students were assigned, he was the best. Nate is, or perhaps better put, was then a rather free spirit, and he sometimes lost points on technicalities such as late submission of results. Nevertheless, I found him to be a very interesting young man, and were I still in the business of taking graduate students I would be glad to have Nate with me. He has very interesting ideas and genuine enthusiasm for plants.

I found Mr. Benesi to be absolutely honest and trustworthy. He is good company and was always popular in our lab. I would heartily recommend Nate for your program.

Very truly yours,

Alfred Traverse  
Professor Emeritus of Palynology

Alfred Traverse  
Embassy Park 509  
16416 US.19.N  
Clearwater, FL 33764  
USA

e-mail: bettyandal@juno.com

27 Jan., 1998

Nate Benesi  
18220 N. Highway ONE  
Fort Bragg, CA 95437

Dear Nate:

Betty and I are spending Jan. and Feb. here in Florida. Yours to me at PSU postmarked 17 Jan. was forwarded here, arriving yesterday.

In writing a letter of recommendation I am handicapped by lack of my files, but I'll do the best I can and am firing off a letter today.

It might have been better to get the wrong department at Humboldt State to forward your letter to the right department?

We are finding it fun to harvest grapefruit and oranges from our own trees while reading in the CDT about the horrid weather in Centre County, PA!

Good luck.

Very truly yours,

Alfred Traverse  
Professor Emeritus of Palynology

Juno e-mail printed Mon, 9 Mar 1998 10:41:47 , page 1

From: Jacob Steven Benner <jsbenner@mines.utah.edu>  
Return-path: <jsbenner@mines.utah.edu>  
To: traverse@ems.psu.edu  
Date: Mon, 2 Mar 1998 14:21:41 -0700 (MST)  
Subject: paleokarst..  
Message-ID: <199803022121.OAA10486@lab00.mines.utah.edu>  
X-Status: Read

Dr. Traverse,

I wrote about a month ago concerning possible Paleozoic vertebrate remains in paleokarst along the Mississippi River in Iowa. I had told you that I would send you a draft of the manuscript if you were interested in working on the plant fossils found in the paleokarst, and you stated in your reply that you were. Somehow, in the shuffle of email, I have lost the address to which you preferred to have the draft sent. If you would send it again, I will get a copy out to you ASAP.

Thanks,

Jake Benner

---

Jacob S. Benner  
University of Utah  
7th Floor, William Browning Building  
Salt Lake City, UT 84111

jsbenner@mines.utah.edu

*ans'd  
10.11-98*

Juno e-mail printed Wed, 14 Jan 1998 16:53:53 , page 1

From: Jacob Steven Benner <jsbenner@mines.utah.edu>  
Return-path: <jsbenner@mines.utah.edu>  
To: traverse@ems.psu.edu  
Date: Wed, 14 Jan 1998 13:30:00 -0700 (MST)  
Subject: paleokarst  
Message-ID: <199801142030.NAA13706@lab04.gg.utah.edu>  
X-Status: Read

Dr. Traverse,

Thanks for the prompt response to my inquiry about the paleokarst. Yes, some people have worked on flora from the Pennsylvanian unconformity in that region in the past, but most studies have focused on filled river channels and karst across the river in Illinois, and not in Iowa. Even though the paleokarst exposed in the Linwood limestone mine LOOKS like some filled caves in other places, it would be very nice to be able to date this locality, especially when we are dealing with unidentified vertebrate fossils. The bedrock is a Middle Devonian (Davenport Mbr. of the Wapsipinicon Fm.) dolostone that is commonly brecciated.

As soon as I update the draft of the paper, I'll send you a copy and we can take it from there if you are still interested.

Thanks again,

Jake Benner

Junio e-mail printed Wed, 14 Jan 1998 11:55:06 , page 1

From: Jacob Steven Benner <jsbenner@mines.utah.edu>  
Return-path: <jsbenner@mines.utah.edu>  
To: traverse@ems.psu.edu  
Date: Tue, 13 Jan 1998 14:37:39 -0700 (MST)  
Subject: spores in paleokarst infillings  
Message-ID: <Pine.GSO.3.95.980113141007.12924A-100000@zippy.mines.utah.edu>  
X-Status: Read

Dr. Traverse,

Dr. Sid Ash at Weber State University recommended that I write to you concerning a particular problem that I am trying to solve for a paper about some occurrences of paleokarst in Iowa that I studied while I was an undergraduate student at Cornell College in Mount Vernon, Iowa.

The paleokarst is exposed (and in excellent preservation) in the walls of an underground limestone mine on the Mississippi River. We believe the karst-filling sediments (mostly stratified fine sand and clay) are Pennsylvanian, but that is based upon some weak evidence of association with similar paleokarst in the Upper Mississippi Valley region. Within the paleokarst deposits, several fossil elements have been found including tetrapod limbs and vertebra, and abundant seeds and spores. It is a rare occurrence to be able to sample early tetrapods in North America, and these finds strengthen Iowa's position as an early tetrapod "hot spot" on the continent (John Bolt's Mississippian tetrapod locality at Delta, Iowa, also in a karst depression, being the most famous).

The project was originally my senior thesis and my former adviser has recently expressed interest in getting it published. Currently we are searching for someone willing to join the project who would be able to give more precise information on the flora found in the karst fills, with the ultimate hope that a reliable age range may be resolved. Your work in early Paleozoic flora is the reason Dr. Ash recommended you as a person who might be interested—or, at least, know someone who might be—in joining Dr. Paul Garvin and myself on this project.

I would be glad to give you more information on the project if you are interested. Thank you very much for your time and feel free to write, call, or e-mail me.

Sincerely,

Jake Benner

Jacob S. Benner

office: (801) 581-5030

Department of Geology and Geophysics

home: (801) 799-0185

7th Floor, William Browning Building

email:

jsbenner@mines.utah.edu

University of Utah

Salt Lake City, UT 84112

---

25 July, 1980

Dr. J. E. Bennett  
ARCO Research & Development  
P.O. Box 2819  
Dallas, TX 75221

Dear John:

Your very gracious letter of 17 July was awaiting our return from the (terrific!) post-Conference field trip to Scotland. Your kind statement is very heartening--it has been quite a lot of work to guide ICP from comparative infancy to a going concern, and I do feel a sense of accomplishment. I hope Claude and Roger will do a good job now too.

Thanks so much. See you in ±Denver (I hope).

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et

ARCO Oil and Gas Company  
Research & Development Department  
Post Office Box 2819  
Dallas, Texas 75221  
Telephone 214 651 5151  
Geological Science Research



July 17, 1980

Dr. Alfred Traverse  
435 Deike Building  
Pennsylvania State University  
University Park, PA 16802

Dear Al,

I would once again like to express my appreciation to you for the excellent job you did while serving as President of ICP. The success of the organization under your direction should fill you with a great sense of pride. It is only fitting that your last official act as President was hosting such a successful meeting as the Fifth International Palynological Conference.

Best of luck to you on your future endeavors.

Sincerely,

J. E. Bennett

JEB/ga

THE PENNSYLVANIA STATE UNIVERSITY  
DEPARTMENT OF GEOSCIENCES  
PALYNOLOGICAL LABORATORIES  
435 DEIKE BUILDING  
UNIVERSITY PARK, PA 16802  
Phone: (814)863-3419; Fax: 814-863-7823

19 November, 1992

Dr. Keith D. Bennett  
Quaternary Research  
Botany School, University of Cambridge  
Downing St.  
Cambridge, England CB2 3EA

Dear Keith:

Many thanks for your recent note and xerox copy of your paper on the pocket computer. I am looking into getting such a thing for my counting activities, but I have a couple of questions on which I'd appreciate your comment.

I use a large bank mechanical counter next to the scope--has enormous buttons and works super. I transcribe the data onto a form, and my assistant then plugs the data into Grimm's "TILIA" program on my PC, which calculates % and produces a diagram automatically. The transfer of the data from my analytical sheets onto a TILIA spreadsheet seems to go very fast (i.e., not especially "time consuming"). Do you think that I could go directly from the pocket computer record to TILIA? If not, I guess the saving of effort would be that I wouldn't have to make my analytical sheets at all, but the assistant would read off the data from the pocket computer into the PC. Is that right?

Thanks again and best regards.

Yours very truly,

Alfred Traverse

AT/et

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

29 November, 1988

Dr. William S. Benninghoff  
Department of Biology  
Natural Science Building  
University of Michigan  
Ann Arbor, MI 48109

Dear Bill:

I have just gone through the batch of reprints you recently sent. Thanks very much. The studies of electrostatic effects were especially interesting, as I had of course read Bill Chaloner's stuff about that. Now I know that you have been at such studies for years and on at least two continents! "Imprints of Quaternary history and human action..." was of special interest to me, as "pauciversant" species probably are a sort of model of species that would survive great crises, such as the "K-T winter" (if any!).

All the best. I still remember with pleasure the help with pollen you gave me 41 years ago.

Yours very truly,

Alfred Traverse

AT/et

Department of  
**BOTANY**

THE UNIVERSITY OF MICHIGAN, ANN ARBOR <sup>48109</sup>~~48104~~ 2039 NATURAL SCIENCE/TEL. 313-764-1440

6 September 1976

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

Dear Al:

Last month Rog McVaugh sent over to my office two slides of acetolyzed pollen preparations of two species of Dorsteinia, explaining that he had sent you some pollen from our collections. Many thanks for the slides. They are now filed in our reference pollen collection. I had been curious about the pollen, because the plants Bill Graham, one of Rog's students, was culturing in our greenhouses were so strange; however, I did not find them in anthesis when I looked.

To answer your question of about a year ago concerning developments with the Nikko sugi (Cryptomeria japonica) after my little essay of 1971, that reprint in both languages was distributed to the public and was introduced as a major piece of evidence in suit brought by conservationists against the Ministry of Transport in 1972. The conservationists won in 1973, and succeeded in getting most of my plan adopted. In May of 1974 I happened to visit Nikko with the Excursion '74 of the Internationale Vereinigung für Vegetationskunde. As we entered Nikko village, I was taken off the excursion bus by a delegation of priests, along with Mr. Saito, reporter from the Yomiuri Shimbun and some photographers. In a good-humored but very sincere ceremony I was posed with the largest and oldest sugi tree, the taro sugi, for photographs. These trees whose lives I had saved were now "my sons", in keeping with oriental tradition. All of this was on the front page of the Tokyo Yomiuri Shimbun the next morning. Anne and I hope to stop in Japan again for several days in late October, and I hope some one arranges for me to re-visit "my sons."

I hope we may get together in the near future; it was been quite a while since we had a chance to visit.

Warmest regards,

Cordially,

*Bill*

William S. Benninghoff

WSB/asb

100% COTTON  
Fidelity Onion Skin  
Eliel  
August 4, 1972

Dr. William S. Benninghoff  
Department of Botany  
University of Michigan  
Ann Arbor, Michigan 48104

Dear Bill:

Thanks for your letter of 10 July regarding the somewhat complicated business of the University of Michigan's payment for Volume 31 of the Catalog of Fossil Spores and Pollen. I am not sure at this late date whether we will be able to extract our \$27.40 from the University Press account. I certainly am going to try but without much hope of success!

I suppose the major thing this points up is the fact that the Catalog has nothing whatsoever to do with the University Press and that checks for us should be made payable directly to the Catalog of Fossil Spores and Pollen, not to the University Press or any other part of the University.

Thanks for the comforting remarks about the floods, which had been very bad in this general area. However, State College escaped almost completely unscathed as a result of our being a politically located town, not put here with reference to bodies of water.

Best wishes.

Yours very truly,

Alfred Traverse  
Professor of Geology & Biology

AT/vsi

*Gladys Holmgren*

THE UNIVERSITY OF MICHIGAN  
DEPARTMENT OF BOTANY  
ANN ARBOR, MICHIGAN 48104

AREA CODE 313  
764-1440

10 July 1972

Dr. Alfred Traverse  
Catalog of Fossil Pollen and Spores  
Beike Building  
The Pennsylvania State University  
University Park, Penna. 16802

Dear Al:

I am sorry to be so long in answering your letter of May 15, but I have had to be away from my office for more than a month at other duties.

Mrs. Harriet Fordyce, the secretary in our Department who handles our accounts, obtained the information you wanted regarding the payment for volume 31 of the Catalog. It happened that the University of Michigan check was in payment of a \$2.00 bill for a Chaucer publication in addition to the \$27.40 for volume 31 of the Catalog. That detail may help you to trace the matter in the books of your institution.

I hope the enclosed documents clears up this matter for you.

We hope you are making some recovery from the devastating floods in your area. Rick Schein told me on the telephone several days ago about some of the problems in the central part of the state.

Sincerely,

*William S. Benninghoff*  
*em*

William S. Benninghoff

WSB:em  
Enclosures

May 15, 1972

Dr. William S. Benninghoff  
Department of Botany  
University of Michigan  
Ann Arbor, Michigan 48104

Dear Bill:

Thanks for yours of 21 April, and Spackman and I are both embarrassed that it always seems to be our old friend, Benninghoff, who gets the bad treatment on bills and so forth--or maybe it happens to everybody, and you're the only one who comments.

The problem basically is that we have very marginal billing operation for the Catalog because of lack of funds. There is no way that the present girl can check up on what happened in 1969 other than to note that our records kept by the previous girl do not show payment for Volume 31. I really hate to trouble you further on this, but I wonder if I could prevail as an old friend on you to contact your Accounting Office and ask them whether they have the cancelled check. If they do, let me know and we will simply mark your account paid. There is a possibility that the money could have been sent to Penn State and put into the wrong account, but there is no way that we can check that, unfortunately. So just let me know about the cancelled check, and I'll take it from there.

Jim Doyle should be an interesting guy to have around, and it certainly seems as if Ann Arbor is one of the big palynological centers at the moment. We are feeling the funds pinch pretty severely at the moment, and I am a trifle discouraged about it. Looking forward to seeing you one of these days and with best wishes, I am

Yours very truly,

Alfred Traverse  
Professor of Geology & Biology

AT/vsi

THE UNIVERSITY OF MICHIGAN

DEPARTMENT OF BOTANY

ANN ARBOR, MICHIGAN 48104

21 April 1972

AREA CODE 313  
764-1440

Dr. Alfred Traverse  
529 Deike Building  
Pennsylvania State University  
University Park, Pennsylvania 16802

Dear Al:

On the invoice for Volume 34 of the Catalog of Fossil Pollen and Spores recently submitted to us for payment there is the note that payment had not been received for Volume 31.

I turned this information over to Mrs. Harriet Fordyce, who handles Department of Botany accounts. She checked her records and found that she had sent a purchase order request to our University Accounting Office in 1969 for payment of \$ 27.40, the billed amount for Volume 31. The Accounting Office records also show that the \$ 27.40 was disbursed in payment of the invoice.

It would seem likely that, if the University of Michigan check had not reached you and would have been outstanding for a year or so, this would have come to the attention of our Accounting Office. I hesitate to ask our Accounting Office to inquire further into this until you have established at your end that the check was not received and how it happened that the indication of non-receipt in your records was not brought to our attention earlier. Let me know what you find.

We are pleased to have Jim Doyle on our faculty, and perhaps I can learn a little about pre-Quaternary palynology. The IBP Aerobiology Program is going well, and we are trying to attract more interest in paleoecological analyses of microfossil assemblages as a means of extending baselines of biological and environmental change back into the past.

Best regards,

Sincerely,

*Bell*

William S. Benninghoff  
Professor of Botany

WSB/asb

July 24, 1970

Dr. William S. Benninghoff  
International Biological Program  
4037 Natural Science (Botany)  
University of Michigan  
Ann Arbor, Michigan 48104

Dear Bill:

Thank you so much for the xerox copies of my missing numbers of the Pollen and Spore Circular. Now, at long last, I can have the whole thing permanently bound.

I am enclosing a check for \$2.05 to cover the cost of the copying, but I guess that all I can do for the labor is to thank you profusely!

It was interesting to hear about the IBP work. I knew that my friend, Rick Schein, was involved in some way, though I never could understand how he could do it with the multiple things he had going here in administration.

Best wishes to you as ever.

Yours very truly,

Alfred Traverse  
Professor of Geology and Biology

AT/mrw

Enclosure: check for \$2.05

# INTERNATIONAL BIOLOGICAL PROGRAM

## UNITED STATES NATIONAL COMMITTEE AEROBIOLOGY PROGRAM

### PROGRAM OFFICE

WM. S. BENNINGHOFF, DIRECTOR  
4037 NATURAL SCIENCE (BOTANY)  
UNIVERSITY OF MICHIGAN  
ANN ARBOR, MICHIGAN 48104  
TELEPHONE (313) 764-1488, 763-3471

20 July 1970

### LIAISON OFFICE

ERWIN L. LECLERG,  
SENIOR SCIENTIST  
PLANT INDUSTRY STATION  
BELTSVILLE, MARYLAND 20705  
TELEPHONE (301) 345-6444

Dr. Alfred Traverse  
The International Compendium  
of Palynological Systematics  
Deike Building  
The Pennsylvania State University  
University Park, Pennsylvania 16802

### AEROBIOLOGY ADVISORY COMMITTEE

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WILLIAM C. SNYDER  
• PLANT DISEASE LOSSES (P-3)  
LUCAS CALPOUZOS

#### POLLEN & SPORES (PS)

WM. S. BENNINGHOFF

Dear Al:

Your letter of June 18 requesting copies of certain issues of the Pollen and Spore Circular arrived while I was in Texas for some meetings on polar research, and it also took me several tries at finding my yellowed and brittle file of the Circular. Chester Arnold had borrowed it recently, and I had failed to return it to the usual place.

My secretary made Xerox copies at my personal expense (\$2.05), and these are enclosed. At this moment my working budgets are at low ebb so I could not run these through on a courtesy basis for your program.

The Aerobiology Program under the International Biological Program is gathering momentum, but we are having a devil of a time getting funds for the special research we consider necessary. I will be sending you some literature shortly, and soon thereafter some material for the AASP Newsletter, because I have been making a plea to the people organizing the Global Network for Environmental Monitoring that the sedimentation of microfossils is a critical tool for the very recent past as well as the primary means of extending baselines of environmental studies back in time. Rick Schein was the Chairman of the Aerobiology Advisory Committee until the beginning of this month, and now we have Dr. F. A. (Al) Wood of your Phytopathology Department as Chairman, with the benefit of Rick's advice continuing. I will ask Al Wood to contact you and fill you in on developments with the Aerobiology Program.

With best personal regards,

Sincerely,

William S. Benninghoff

Enclosures  
cc: Dr. F. A. Wood  
WSB:jtg

June 18, 1970

Dr. William S. Benninghoff  
Department of Botany  
University of Michigan  
Ann Arbor, Michigan 48104

Dear Bill:

Is there any chance that you have a complete file of the original Pollen and Spore Circular, as issued in mimeographed form by Sears et al.? I have a relatively complete file, but am missing certain numbers and would like to obtain photocopies in order to make my bound copy complete. I am aware that the Pollen and Spore Circular is being reprinted by the Indian palynological journal, but I want to have for historical reasons a complete file of the original version. If you do have the original thing available, could you either lend me nos. 7, 8, 9, 10, 14, and numbers after 18 if there any, which would be returned to you by return mail--or have them copied at Michigan for me at our expense?

Hoping to hear from you about this before too long, I am with best wishes

Yours very truly,

Alfred Traverse  
Professor of Geology & Biology

AT:kc

March 5, 1969

Dr. William S. Benninghoff  
Department of Botany  
University of Michigan  
Ann Arbor, Michigan 48104

Dear Bill:

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

October 15, 1968

Dr. William S. Benninghoff  
Department of Botany  
University of Michigan  
Ann Arbor, Michigan 48104

Dear Bill:

Glad to have you aboard in the AASP. Actually, it will take a little while for the Executive Committee to act upon your application, but you should be notified of your (automatic) election in a couple of weeks.

Sorry about the continued difficulty re the billing for the Catalog of Fossil Spores and Pollen. I thought I had this matter cleared up when you wrote previously, but "there's many a slip twix the cup and the lip". I think we have the matter corrected to everybody satisfaction now, and I am sorry for the difficulty it has caused you. Best wishes as always.

Yours very truly,

Alfred Traverse  
Secretary-Treasurer

AT:kwc

June 15, 1967

Dr. William S. Benninghoff  
Department of Botany  
University of Michigan  
Ann Arbor, Michigan 48104

Dear Bill:

Sorry that you are still having "account problems" with us--and just when I thought we had it all straightened out! We have carefully checked the files here and find that we do indeed have a record of invoicing you all for Volume 2 of the Index, but have no record of the mailing of the item. It all happened long before either the secretary in charge of these matters or I came here, but I think the only rational conclusion is as you suggest--that you were never sent the missing volume. Under separate cover, therefore, we are sending it to you. Unless you object, we shall continue to carry the original invoice on the book for payment, instead of re-billing.

Very interesting to hear of the "task force" which you and Rick Schein will head. I have met him several times around here and find him quite a likable person.

Yours very truly,

Alfred Traverse  
Editor  
Catalog of Fossil Spores and Pollen

AT:kaw

THE UNIVERSITY OF MICHIGAN  
DEPARTMENT OF BOTANY  
ANN ARBOR, MICHIGAN 48104

5 June 1967

Dr. Alfred Traverse  
Palynological Laboratories  
College of Mineral Industries  
The Pennsylvania State University  
University Park, Pennsylvania 16802

Dear Al:

This letter makes reference to Catalog of Fossil Spores and Pollen Invoice No. D-42, dated May 22, 1967, billing the Department of Botany \$24.00 for Volume 26 of the Catalog in option D<sub>6</sub> Typed on that invoice is the following:

REMINDER:

This account is in arrears for \$1034 for vol. 2 of cumulative index.

I have carefully checked our complete file of the Catalog without finding a trace of Volume 2 of the Cumulative Index, although we do have Volume 1 of the Index. I have also checked our file of invoice copies without finding any reference to Volume 2 of the Index. Can you give us information about the approximate date of mailing of the invoice for that volume and your record of mailing the volume.

We do want to have the Cumulative Index complete, of course, and will appreciate any help you can provide in straightening out the above discrepancy.

Within the U. S. National Program of the International Biological Program we have established a "Task Force on Atmospheric Dispersal of Biologically Significant Materials" in which palynologists will have some interest, I believe. The way nominations stand just now, Dr. Richard Schein, Associate Dean of Science at Penn State, is to be Vice-Chairman, and I have been asked to be Chairman. We will be putting out some information about the work of this group within a few weeks.

Sincerely,

*Bill*

William S. Benninghoff  
Professor of Botany

cc: Mrs. Fordyce,  
Department of Botany,

WSB/jd



W. S. BENNINGHOFF  
2705 PROVINCIAL DRIVE  
ANN ARBOR, MICHIGAN 48104

24 September 1966

Dear Al,

It is wonderful to hear from you again, and in a familiar context. You startled us at first, the way you dropped out of the professional group in which you were a key figure; and now we are envious because you had the nerve to do the kind of thing most of us day-dream about. Remembering some of the philosophical discussions we used to have I look forward to catching up on your thinking.

Yes, I was sorry to miss Utrecht — and I had to cancel other travel as well. In early August while taking immunization booster shots, I had an anaphylactic shock — darn near died — and have had to fake it easy for a while. Am in good shape

now again.

I assume you are on the Staff  
in Bill Speckman's set-up. When  
you have some time, let me hear from  
you.

Sincerely,  
Bill

File under  
Correspondence  
Benninghoff

UNIVERSITY OF MICHIGAN  
Department of Botany

Reference Pollen Slide List No. 1  
15 August 1958

Address to which slides and correspondence should be sent.	Name: . . . . .
	Institution: . . . . .
	Mail address: . . . . .
	Date this list returned:

The Department of Botany of the University of Michigan desires to exchange reference pollen slides with other institutions and individuals. Slides made in the Pollen Laboratory of this department are vouchered by herbarium specimens deposited in the University of Michigan Herbarium or, in a few instances, other herbaria. Pollen samples are processed by the Erdtman acetolysis technique and mounted in glycerine jelly without stain. Cover glasses are tinged with a cement made of beeswax, lanolin, and rosin in xylol. A reserve of each stock preparation is kept in a storage vial in event of need for further slides of the same material. Each slide label carries a record of the voucher herbarium specimen (e.g. MICH Hermann #7113) and a record of the preparation number (e.g. 58.6.10.3 is the number 3 preparation made on 10 June 1958).

At the University of Michigan reference pollen slides for exchange are made primarily from plants of the Great Lakes region and boreal areas of North America, but occasionally pollen is prepared from certain exotics cultured at the Botanical Gardens of the University. We are interested in receiving in exchange pollen slides of any species from any region, preferably in preparations made by one of the "standard techniques", so that measurements and other characters can be compared with material of other preparations.

Slides listed below are currently in stock for exchange. Check at the left-hand side the items desired, enter your name and address in the upper right-hand corner, and return this sheet to W. S. Benninghoff, Department of Botany, University of Michigan, Ann Arbor, Michigan.

- Potamogeton filiformis Pers. MICH Crum 7/1/47, 57.3.8.1
- Potamogeton natans L., MICH K. Wilson 677, 57.3.11.1
- Potamogeton illinoensis Marong, MICH Wilson 349, 57.3.11.2
- Potamogeton epihydrus Raf., MICH Crum 7/31/47, 57.3.8.2
- Potamogeton gramineus L., MICH Crum 7/31/47, 58.3.8.3
- Triglochin maritima L., MICH Hermann 1713, 57.3.11.3
- Lyonia mariana (L) D. Don, MICH 6/13/13, 57.3.11.4
- Rudbeckia hirta L., MICH (Wagner) Hardin 772, 57.4.19.1
- Coreopsis lanceolata L., MICH (Wagner) Ehlers 3181, 57.4.15.1
- Eupatorium purpureum L., MICH (Wagner) Ehlers 3735, 57.4.15.2
- Solidago graminifolia (L) Salisb., MICH Ehlers 3141, 57.4.22.1
- Solidago speciosa Nutt., MICH (Wagner) Ehlers 3758, 57.4.18.1
- Erigeron pulchellus Michx., MICH (Wagner) Hermann 157, 57.4.15.3
- Hechtia rosea (Bromeliaceae), U M Bot. Gard. #18398 (Mexico), 58.5.6.14
- Casuarina equisetifolia Blanco, U M Bot. Gard. 11/1v/58, 58.5.6.13
- Taxus canadensis Marsh, MICH Benninghoff 10085, 57.5.9.14
- Equisetum arvense L., MICH Benninghoff 10055, 57.6.4.14
- Carya ovata (Mill.) K. Koch, MICH Benninghoff 10157, 57.6.4.33
- Juniperus communis L. var. depressa Pursh, MICH Benninghoff 10125, 57.6.4.45
- Solanum verbascifolium J.Sm., U M Bot. Gard. #12852, 58.5.6.5
- Zamia floridana A. DC., U M Bot. Gard. #2039, 58.5.6.7
- Dioon edule Lindl., U M Bot. Gard. #1131, 58.5.6.12

Reference Pollen List No. 1 (cont.)

Monstera deliciosa Liebm., U M Bot. Gard. 15/x1/58, 58.5.6.11  
Cryptomeria japonica (L.f.)D.Don, U M Bot. Gard. #11698, 58.5.6.10  
Podocarpus macrophylla (Thunb.)Lamb, U M Bot. Gard. #14132, 58.5.6.9

June 18, 1957

Dr. William S. Bemninghoff  
Department of Botany  
University of Michigan  
Ann Arbor, Michigan

Dear Bill:

Since I wrote you the new B. S. A. Yearbook has come through with the answer to my question. I suspected that you were in the Society but had no way of checking. This is one of the difficulties of being a section of a parent society. Liaison gets to be a bad problem. I am currently checking a list of about a hundred whose status is doubtful. Some are listed by us but not by the Society. Others are listed by us but have a "P" after their names in the Yearbook, etc.

When we get down to cases on preparing reference slides we would certainly be interested in exchange, providing that you haven't changed your preparation method too drastically. (After all, my technique came indirectly from yours.) For the moment I am pretty much preoccupied with running samples of sediment and am struggling along with my Harvard collection, which ran to about 1000 species by the time I left there. I am interested in the problems that you encounter in bryophyte material, since this is one real loophole in my collection, and I have been contemplating beginning the enlargement of my set with a group of Bryophyta. What's the problem? Could you send a few slides of bryophyte types? What would you like in exchange? You may remember that my collection runs heavily to the southeast United States and Gulf Coast. This coincidence is coming in very handy. My work here is primarily with Recent sediments.

I, too, am looking forward to the chance of chewing with you on the field trip. It looks to me as if we have much of mutual interest to discuss. I think so even more after having seen the sheet on your activities at Michigan that you kindly sent along.

Very truly yours,

  
Alfred Traverse, Secretary  
Paleobotanical Section, B. S. A.

AT:ml

Shell Development Company  
Exploration and Production Research Division

17 October, 1966

Dr. William S. Benninghoff  
Department of Botany  
University of Michigan  
Ann Arbor, Michigan

Dear Bill:

Many thanks for the nice packet of reprints, which I am enjoying wading through at lunch hour.

It was interesting to see Stoutamire's name. He used to live next door to my parents in Cranbrook when my dad was for a time the Episcopal priest in those parts. (You may not have known that I was raised in Michigan. My parents now live in retirement in St. Joseph, on Lake Michigan. That is where I went through public school.)

I am especially interested in "Atmospheric particulate matter of plant origin". It gets very near to some of my special interests. At the moment I am working on a paper that I hope to publish in Micropaleontology that is, in part, a comment on Davis' and Davis and Deevey's writings on theoretical palynology. I find myself very doubtful that the elegant corrective factors suggested by Davis really will work in any but very special circumstances. In other words, I doubt that palynology really can be used for the purpose of reconstructing vegetation--differential production and preservation and reworking and recycling are just too significant.

Better get back to work on the Catalog and other matters.  
Good to hear from you again.

Yours very truly,

*Alfred Traverse* - absent-minded  
Alfred Traverse

*AL*

UNIVERSITY OF MICHIGAN  
ANN ARBOR  
DEPARTMENT OF BOTANY

14 June 1957

Dr. Alfred Traverse, Secretary  
Paleobotanical Section  
Botanical Society of America  
Shell Development Company  
Exploration and Production Research Division  
3737 Bellaire Boulevard  
Houston 25, Texas

Dear Al:

I am very grateful to you for looking after my application for the Paleobotanical Section Field Trip and my title for the pollen conference. Your instructions of June 10 concerning the Field Trip arrived today; they are very clear. It should be a wonderful trip.

In answer to your question about my status in the Botanical Society, I have been a member for two or three years and have during that time indicated my principal allegiance with the Paleobotanical Section. However, for eight or ten years before I was a full-fledged member of the Society I was carried as some kind of an associate by paying one dollar per annum to the Paleobotanical Section.

Sorry I was late in getting my abstract in to Henry Hansen; I mislaid his circular calling for papers and did not realize his deadline was so much earlier than that of the Ecological Society. I am glad the two of you have been able to promote this pollen conference, and I hope Estella Leopold and Cal Heusser will be on the program.

This has been a somewhat hectic winter for me, but our Pollen Laboratory is now a functioning reality, our pollen and spore collection already has over two hundred species (with voucher herbarium sheets, card indexes, and duplicates for exchange), and we have begun work on some very promising Pleistocene material. Incidentally are you interested in exchanging reference slides of modern pollen? If you want any particular species that is in our flora here, just let me know and I will get if for you whether or not you want to exchange slides. We are trying to include some bryophytes and fungi/spores too, but find all kinds of special problems with them.

I hope that I can talk with you about the possibilities of training some young palynologists in regular course work here. We have several good candidates on hand, and I wonder what chances they would have of getting positions with petroleum exploration concerns.

See you in Berkeley!

Sincerely,

*Bill*

William S. Benninghoff  
Associate Professor

*P.S. I have requested a reservation at the new Cardinal in Palo Alto.*

*Oh, this is just between us girls but it will give you some idea of what we are doing here. MRS*

FACILITIES AND ACTIVITIES IN PLANT ECOLOGY

<u>Major areas</u>	<u>Principal activities</u>	<u>Programs and facilities</u>	<u>Remarks</u>
PHYTO-SOCIOLOGY	1. Vegetation mapping	a. <u>Collection of Vegetation Maps</u> b. Field mapping of vegetation, mostly on air photo bases (1:50,000 and larger)	Collection and classification of basic data on geographic aspects of vegetation; partly as service to land-classification agencies.
	2. Phytosociological investigations	a. <u>Phytosociological Records File</u> b. Phytosociological field surveys c. Synthesis of plant community relationships d. Applied phytosociology	Objectives: useful descriptions of plant communities, contrib. to phytosoc. theory, and (eventually) quantitative studies of ecosystems.
	3. Studies in geomorphic ecology	Field and laboratory studies of plants and plant communities in relation to geomorphic processes	Cooperation with geologists and soil scientists
AUTECOLOGY	4. Autecological investigations	a. <u>Ecological Life Histories File</u> b. Field and laboratory autecological studies	Study of organism--environment relationships and single species as basic elements in community metabolism.
	5. Paleocological investigations	a. Interpretation of fossil plants and reconstruction of past communities b. <u>Quaternary History Records File</u>	For E. United States and boreal N. Amer.
QUATERNARY HISTORY	6. Palynological investigations	a. <u>Pollen and Spore Collection</u> b. Investigations of Quaternary sediments	Primarily for floras of E. United States and boreal N. Amer. with representation from other floras.
	7. Applied palynology	a. Stratigraphic studies in Quaternary and Tertiary deposits b. Studies in aerobiology of pollen and spores c. Studies of insect--pollen relationships	With coop. of Paleobotanical Laboratory and Geology Dept. Primarily as service to other organizations Jointly with entomologists

University of Michigan  
Department of Botany  
10 June 1957

June 4, 1957

Dr. William S. Benninghoff  
Department of Botany  
University of Michigan  
Ann Arbor, Michigan

Dear Bill:

Your title for the pollen conference reached me too late for submission for the formal program. That I much regret. I had to submit the program on May 22. However, I have added the title to the program that will be presented, and it will be listed on the informal program that will be sent out to the membership of the Section. The only difference is that your paper will not be listed in the A. I. B. S. glossy covered deal.

Could you let me know what your status is in the B. S. A.? You should be a member, if you aren't. I have been carrying you on the Paleobotanical Section mailing list, though I have no reliable information that you belong to B. S. A.

Yours very truly,

  
Alfred Traverse, Secretary  
Paleobotanical Section, B. S. A.

AT:rlg

Shell Development Company  
Exploration and Production Research Division

Region V  
Box LL, University Station  
Grand Forks, North Dakota

March 5, 1954

Dr. William S. Benninghoff  
Alaska Terrain and Permafrost Section  
U. S. Geological Survey  
Washington 25, D. C.

Dear Bill,

Some time ago I promised to send you a copy of the paper I gave in Boston. We have had a stenographic bottleneck here due to publication and other pressures, and the job of typing copies of the paper was naturally well down the priority list. Anyway, here's a copy, minus illustrations. I have no plans for publishing the thing, since nearly all of it will be in my Brandon monograph, which should be ready for publication soon.

It was good to have a chance to talk with you, even if briefly, in Boston. Won't you stop off in Grand Forks enroute to Alaska sometime?

Very truly yours,

*AT*

Alfred Traverse  
Coal Technologist

ATraverse:dm  
Enclosure  
cc: Region V  
Lankford  
✓ Traverse  
File 635.1  
C File

Washington, D.C.  
25 February 1956

Dear Al,

Many thanks for the reprint of your Botryococcus paper and the notice about the Brandon Lignite Pollen paper. The latter has arrived, and I am very pleased to have it. This is a very fine piece of work and one that will be very useful. I hope you are situated where you can devote full time to such research now.

Grace Brush is in town, and I am trying to hire her for several months to help break my pollen analysis backlog. Best wishes,  
Thanks also for the paper by Kuyhl, Moller, and Waterbolk.  
Bill Benninghoff

THE PENNSYLVANIA STATE UNIVERSITY  
DEPARTMENT OF GEOSCIENCES  
PALYNOLOGICAL LABORATORIES  
435 Deike Building  
University Park, PA 16802  
(814)863-3419 or (814)865-6393

16 February, 1988

Dr. Don G. Benson  
Amoco Production Co.  
P.O. Box 50879  
New Orleans, LA 70150

Dear Don:

Enclosed is a late-breaking item relative to my claim for consideration re an NSF travel grant to Australia. Perhaps there is some way it could be added to my dossier.

I am a little disturbed by the "abstract competition." In my case, it is overall contribution that is the argument, not any one paper.

I sympathize with those who are administering the thing.

Yours very truly,

Alfred Traverse

AT/et  
enclosure

THE PENNSYLVANIA STATE UNIVERSITY  
DEPARTMENT OF GEOSCIENCES  
PALYNOLOGICAL LABORATORIES  
435 Deike Building  
University Park, PA 16802  
(814)863-3419 or (814)865-6393

11 March, 1988

Dr. Don G. Benson  
Amoco Production Co.  
P.O. Box 50879  
New Orleans, LA 70150

Dear Don:

Just a further item from Brisbane about my invited lecture for 7IPC--the info was not available at the time of application for NSF travel grant. If possible, this should go in my dossier.

Thanks.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et  
encl



**Amoco Production Company**

New Orleans Region  
Amoco Building  
Post Office Box 50879  
New Orleans, Louisiana 70150

November 12, 1985

Dr. A. Traverse  
Department of Geo. Sciences  
Penn. State University  
University Park, PA 16802

Dear Al:

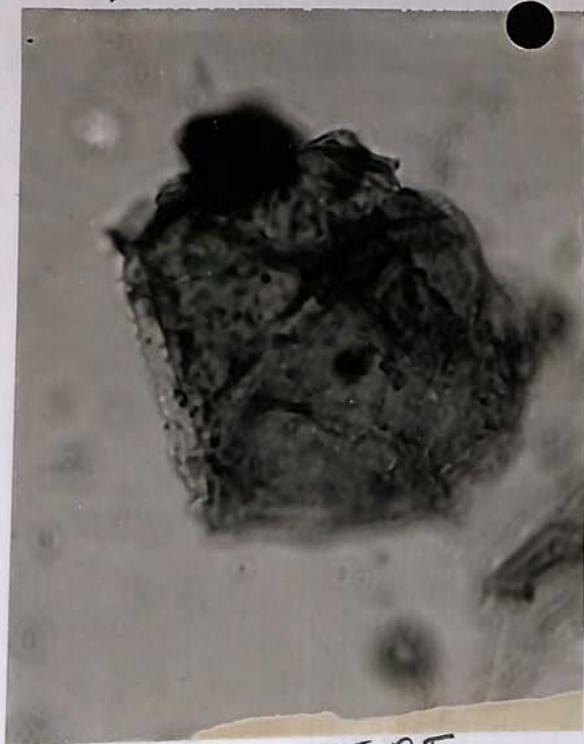
Returned herewith are your "Eagle Mills" slides. None of the specimens indicated on the slides are of Triassic age. I scanned slide #12 and observed a few Dichadogonyaulax sp. B (U. Jurassic) and several other dinocysts indicative of section as young as upper Cretaceous. This mixing suggests caving or uphole contamination as I suspected from seeing your kodachromes at the El Paso meeting.

Specimens 1, 3, 5, 6, and 9 are representatives of the genus Cribroperidinium, possibly of the orthoceras complex, although most are poorly preserved and/or poorly oriented thereby precluding specific identification. Specimens 2 and 7 are species assignable to ?Leptodinium and numbers 4 and 8 are indeterminate; however, #4 is definitely not a Suessia or any other Triassic dinocyst with which I'm familiar.

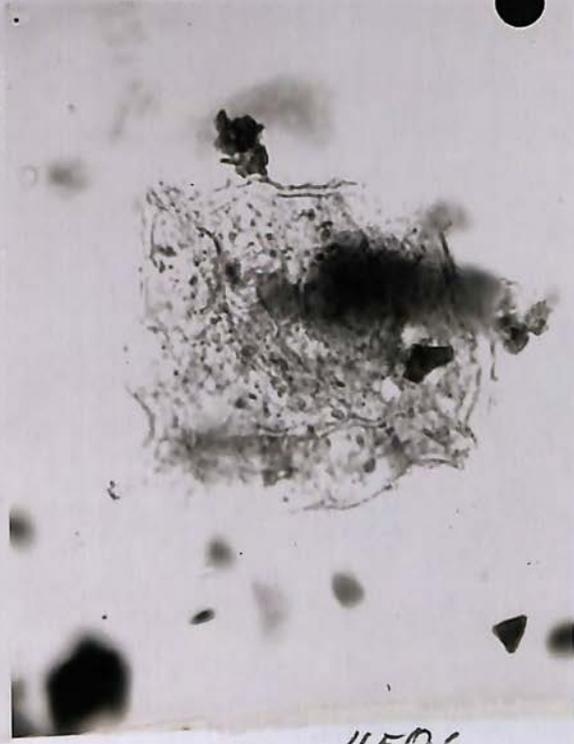
These forms are mid to Lower Cretaceous in age. In the absence of uphole samples I'd be very cautious about making any age statements based on Classopollis torosus. I've seen too many floods of this critter in various parts of the section in the several thousand samples I've examined in the Gulf Coast to make any statements without additional supporting flora. Hope this information is of use to you in revising your paper.

Sincerely,

Don G. Benson, Jr.  
Sr. Staff Paleontologist



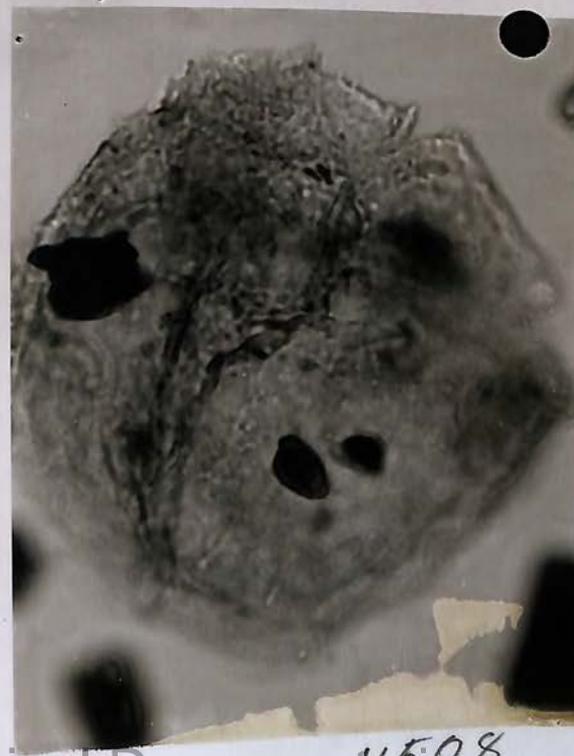
4505



4506



4507



4508

23 October, 1985

Dr. Don G. Benson  
Amoco Production Co.  
P.O. Box 50879  
New Orleans, LA 70150

Dear Don:

Under separate cover I have sent you the slides. Nine specimens are marked for your comments, using little gummed pointers. Only specimen 9 was a problem with the writing on the pointer, but it is really not difficult to locate it. Two of the specimens are those of which you've seen photos already.

We hope you can get this back to us as soon as possible, so that we can use the info (for which you will be lavishly credited) in revising the paper. I really do appreciate your help! It was critical! (We need the slides back, as there is no surplus sample.)

Just phoned Gordon Wood, who expressed interest in exchange of info about the Eagle Mills.

Looking forward to hearing back from you.

Best wishes.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et  
encl: list; (slides sent separately in a box)

List of Eagle Mills slides sent to D. Benson, 23-X-85

<u>Specimen #</u>	<u>Out Negative #</u>	<u>On Slide #</u>
1	3853	19 (8450')
2	4505	"
3	3851	"
4	3857	36 (8650')
5	4506	"
6	4507	28 (8550')
7	4508	"
8	3842	12 (8400')
9	4509	13 (8400') (left coverslip)

20 November, 1984

Dr. Don G. Benson, Jr.  
Amoco Production Co.  
P.O. Box 50879  
New Orleans, LA 70150

Dear Don:

Here are the pp. from 1983 Code with all the info about the question we discussed:

1. (Art. 47) If the type remains the same (and it almost always does), it is not necessary to cite the emending author at all (see example under Art. 51), though it is permissible as Myosotis L. emend.R. Br.

2. A parenthetical author's name after a generic name means alteration of rank (Art. 49).

Good to get to know you a little better at DC meeting.

Best wishes.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et  
encl

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

8 March, 1999

Dr. Richard N. Benson  
Delaware Geological Survey  
University of Delaware  
DGS Bldg.  
Newark, DE 19716-7501

Dear Dr. Benson:

Finally found a free day to complete my review of the paper by Groot and Jordan.

I find the paper a useful compilation of the present status of the palynological analysis of sediments from the late Cenozoic deposits discussed, and as a standard to shoot at I am sure the paper will be much quoted in the years to come.

Dr. Groot is well known to me, though I haven't seen him since the dedication ceremony for the DGS building (quite) a while back. I hope he is still o. k.

Groot has a way of getting a lot of mileage out of relatively sparse data, and it usually turns out to be a useful contribution. Sometimes the broad stroke of it worries me—such as interpreting grass pollen as indicative of marshes! (Like the High Plains, for example?)

I have red panned many pages where I have found errors of one kind or another that need to be corrected. The pages should be examined carefully, as sometimes there is only one small mark on a whole page.

There are some general questions I beg leave to mention:

1. Bill Berggren, the world authority on the subject, long ago convinced me that we are not in the Holocene, but in the Pleistocene, and that "Tertiary and Quaternary should join the Primary and Secondary on the scrap heap of geology." So, this paper gives me trouble by assuming that we are in the Holocene, etc., but I suppose readers will make appropriate adjustments.
2. Please do a global search for "microflora," and change it to

palynoflora. I know many authors use "microflora," but it is nevertheless wrong in this sense. "Microflora" refers to a flora of microscopic plants, such as in an animal gut. A flora of fossil pollen, spores, dinocysts, etc., is a "palynoflora."

3. "Pollen" is a collective singular like "flour" or "dust" (and, indeed comes from the Greek word for those substances). Thus, "The pollen of oak is...." (Not "are".)

4. I have big problems with the illustrations in this paper, as follows:

a. The innumerable location maps for the various formations would not be useful in finding the localities from which samples come. That would better be handled by one appendix listing the samples and giving exact descriptions: Highway so and so, x km. S of x, 350 m. W of y, etc. Lat. and long. for use with automatic positioners would be very modern!

b. On the other hand, one map right at the beginning with a series of patterns showing the distribution in DE of the formations would be conceptually helpful. For the same sort of reason, I would put Fig. 12 right up front along with that "geological map."

c. The plates are really not satisfactory, though in part my reaction could be due to the quality of the xerox copying. Some of the photos are much too gray, others are too dark. All are much too closely cropped (we used to do that 40 years ago, but modern, better convention is to cut the photos as polygons, usually rectangles, so that cropping does not confuse the situation at the edges of the spores or pollen grains.) Some of the grains are not mounted in the internationally accepted erdtmanian orientation. For example, Pl. 1, fig. 1, should be rotated 90 degrees. So should figs. 10-12, same plate, and 13-14 on the next plate. In Pl. 2, fig. 19, I am not at all convinced that the form is correctly identified. Holly pollen is clavate, and the photo seems to be of a reticulate form, simulating clavae on the margin. The cropping and poor definition make it hard to be sure what is going on, but I am practically certain that the illustration is not of *Ilex*.

In sum, this paper needs to be published, but it still needs some work here and there.

Best regards to you and to everybody at the Delaware Survey.

Alfred Traverse

PENNSTATE



Department of Geosciences

(814) 865-6711

503 Deike Building  
The Pennsylvania State University  
University Park, PA 16802

November 21, 1989

Dr. Richard N. Benson  
Delaware Geologic Survey  
Newark, Delaware 19711

Dear Dr. Benson:

Upon the suggestion of Professor Traverse I am forwarding the enclosed RFP concerning radiolarian samples which may be of interest to you.

Sincerely,

*Shelton S. Alexander (jsi)*

Shelton S. Alexander, Head  
Department of Geosciences

SSA:jsi

✓ c.c. A. Traverse

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

18 October, 1989

Dr. Richard N. Benson  
Delaware Geological Survey  
University of Delaware  
Newark, Delaware 19716

Dear Richard:

Here's the MS. I read it carefully and with great interest. It seems to me that Johan has done as good a job as could be done on the subject samples as far as palynostratigraphy is concerned. (The slides also contain a wealth of palynodebris and other information about environment of deposition and other matters!) The only caveat I could imagine raising is that perhaps the possibility of first interglacial ought to be discussed for the lower Omar Fm. I believe JG is right with Pliocene, but Aftonian Interglacial should be considered.

There are a few typos. One recurring one is T. edmundii. The second "i" is a correction required by the present Code. Two German references in the bibliography need to be corrected. I have indicated all such in red right on the MS. They are really very few in number for a MS of this length.

Best regards.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et  
encl: MS

# THE PENNSYLVANIA STATE UNIVERSITY

DEIKE BUILDING  
UNIVERSITY PARK, PENNSYLVANIA 16802

College of Earth and Mineral Sciences  
Department of Geosciences  
Palynological Laboratories

Area Code 814  
865-6543  
865-2342

May 24, 1976

Ms. Sandra R. Benz  
Department of Geology  
Museum of Northern Arizona  
Flagstaff, Arizona 86001

Dear Ms. Benz:

I have received yours of 28 April and the sample. I suspect that palynology will indeed be helpful in solving the stratigraphic problems of the Navajo Sandstone, but the pertinent sampling will have to be done by a skilled palynologist, because sample lithology is critical.

Your sample of limestone was a poor bet on several scores--  
1. red color which is seldom encouraging (indicates oxidation usually),  
2. limestone--usually but not always barren because of the effect of both high pH and crystallization processes. The sample contains only carbonized organic fragments. Sorry.

How about some pieces of palyniferous rock from the Mocakopi, per your letter's indication that you have such--just for our collections.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT:kc

cc: Bruch Cornet



# Museum of Northern Arizona

ls.  
carbonized fragments

April 28, 1976

Dr. Alfred Traverse  
Dept. of Geosciences  
Palynological Laboratories  
Pennsylvania State University  
Deike Building  
University Park, Penn 16802

Dear Dr. Traverse:

Enclose is a sample of the limestone from the Navajo Sandstone which I wrote to you about some time ago. The Navajo Sandstone is considered to be Triassic-Jurassic in age, and we are wondering if the boundary could be worked out using pollen as a criteria.

If you find any pollen or spores in the sample please let me know. If there are some and they turn out to be Triassic, I would especially be interested as I am working on some pollen from the Moenkopi Formation (Triassic Age).

Sorry that we took so long in getting the sample to you. I do hope that you will be able to take a look at the sample sometime in the near future.

Thank you.

Sincerely,

*Sandra R. Benz*

Sandra R. Benz  
Department of Geology

From William J. Breed  
NORTHERN ARIZONA SOCIETY  
OF SCIENCE AND ART, INC.

FLAGSTAFF, ARIZONA 86001

RECEIVED 1976

Rt. 4, Box 720



Department of Geology  
*Museum* OF NORTHERN ARIZONA

March 17, 1976

Dr. Alfred Traverse  
Department of Geosciences  
The Pennsylvania State  
University  
College Station, PA 16820

Dear Dr. Traverse:

I saw your abstract entitled, "Further information on the palynological stratigraphy of Devonian-Carboniferous rocks of central Pennsylvania" in GEOSCIENCE AND MAN, Vol. XI. I would appreciate receiving any further information you may have in connection with your abstract (ie-reprints, etc.).

Thanks.

Sincerely,

*Sandra Benz*

Sandra Benz  
Palynologist

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

26 Sept., 1995

Dr. S. K. Bera  
Birbal Sahni Institute of Palaeobotany  
53 University Road  
Lucknow 226007, India

Dear Dr. Bera:

Just read your article, "Pollen dispersal...Madya Pradesh," from Geophytology 23:2:235-241 (1994).

There's a problem: as far as I can find out, you don't explain anywhere what "sal forest" is, and I found that extremely frustrating. Should have been explained in first paragraph. You tell me all sorts of interesting things about the % of sal," etc., but what is it?

Hoping to hear from you.

Yours very truly,

Alfred Traverse

Abd N. Berbakhesh  
Geology Department  
College of Science  
Baghdad university  
Baghdad, Jaderiyah, Iraq, 12915

Prof. Dr. Alfred Traverse  
the Pennsylvania State University  
Department of Geosciences  
Palynological Laboratories  
435 Deike Building  
University Park, PA 16802

Dear Dr. Traverse

I received your package in 20/2/1993 and I am grateful  
thanks for your kindness and assistance. Sir I wonder  
if you could kindly send to me any papers from you  
or any authors related to Palynomorphs of oligocene -  
and I never forget your favour to me accept my best  
wishes and regards

P. S:- If you could kindly send to me your book "Paleopalynology"  
if you could. I don't have any money and I could send to you any  
money because I am student.

THE PENNSYLVANIA STATE UNIVERSITY  
DEPARTMENT OF GEOSCIENCES  
PALYNOLOGICAL LABORATORIES  
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Phone: (814)863-3419; Fax: 814-863-7823

1 February, 1993

Mr. Ahmed N. Berbackesh  
Geology Department  
College of Science  
Baghdad University  
Baghdad jaderiyah, Iraq

Dear Mr. Berbackesh:

Thank you for your interesting letter of 16 Jan. I fully understand your situation, of course. I send you herewith the reprints I happen to have available. What you really need is a copy of my textbook, "Paleopalynology." It sells for \$90 in the bookstores. I have a copy I acquired at author's price that I would be willing to sell you for \$30, postpaid. I can't afford at this time to give it to you free.

Best regards to you. I hope we all live to see a better time when travel to Iraq will again be feasible.

Yours very truly,

Alfred Traverse

enclosure: reprints

Ahmad N. Berbackesh  
geology Department  
college of science  
Baghdad university  
Baghdad jaderiyah  
Iraq, 12915

Dear sir

I am post graduate student preparing ph.D dissertation on Biostratigraphy of tertiary rocks in Iraq especially [eocene, oligocene, miocene] sir you know the blockade on Iraq for this reason sir I will be very much appreciate if you could send to me papers related to palynology [Dinoflagellate, spores, pollens] and foramenifera biozonation, on tertiary only if you could sir finally accept my regards and grateful thanks in advance for your assistance .

yours faithfully

  
AHMAD N . BERBAKHESH

29/3/1993

11 May, 1983

Dr. Thomas M. Berg  
PA Topographic and Geological Survey  
P.O. Box 2357  
Harrisburg, PA 17120

Dear Tom:

Many thanks for yours of 23 April. I have read your I.C. 83 with great interest. It looks from your Fig. 24 that both my work with Warg at Snowshoe and my work with Streeb at Horseshoe Curve (copies enclosed) were in the Huntley Mountain and that if we wanted to find the boundary in the Rockwell we should look at southern PA. Could you suggest good sections to sample? They should be as far west as possible, because of the geothermal maturation problem.

As to the Spechty Kopf--when time and a willing co-worker develop, I'll collect that too, but because of the aforementioned geothermal maturation problem, I am concerned that we'll find only carbonized wrecks --worth looking though. Incidentally, I am an adjunct professor at Juniata College. The other day I mentioned the Spechty Kopf in my annual D-C boundary lecture, and discovered afterwards that Pete Trexler (Chairman of Geology Department at Juniata) was one of the original proposers of same. Maybe I can get him involved too!

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et

DR. ALFRED TRAVERSE  
529 Deike Building  
Pennsylvania State University  
University Park, Pa. 16802

30 July, 1975

Dr. Robert Bergad  
Citgo  
Exploration & Production Research  
Box 50408  
Tulsa, OK 74150

Dear Bob:

Thanks for your recent letter. It awaited my return from the Congress in Leningrad and subsequent excursions. That took all the travel money and time. Hence, no trip to Oregon.

Sent you the reprint you wanted. Sorry you didn't get one the first time around. I had lost track of you. Hope you like Citgo and will be interested to hear about it.

Best wishes.

Yours cordially,

Alfred Traverse

7 April, 1983

Dr. Thomas M. Berg  
Pennsylvania Geological Survey  
Box 2357  
Harrisburg, PA 17120

Dear Dr. Berg:

Hope I got your name right. You may recall our conversation in the PA Survey booth at NE. GSA a couple of weeks ago about the Devonian-Mississippian boundary and our occasional contributions about the problem in central Pennsylvania. You mentioned that we might with profit look at the Spechty Kopf regarding the problem, and one day I'd like to get a student to follow up on that. Any further information as to suggested sections and whatnot?

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et

Received: from email.univie.ac.at by pangaea.ems.psu.edu  
(4.1/PSU\_ESSC/GEOSC-2.02) id AA07518; Mon, 27 Mar 95 03:29:40 EST  
Received: from [131.130.67.160] (actually 131.130.67.160) by email.univie.ac.at  
with SMTP (PP); Mon, 27 Mar 1995 10:28:58 +0200  
Message-Id: <ab9c13b002021004fffd0@[131.130.67.160]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Mon, 27 Mar 1995 09:29:58 +0200  
To: traverse@ems.psu.edu  
From: wberggren@shad.whoj.edu (william berggren)  
Subject: Re: "Holocene," etc.

al,

french wife-Marie Pierre Aubry, the calcareous nannoplankton  
specialist- (CNRS) since 1982 but we knew each other since 1977/1978.  
Holocene seems entrenched in the literature I am afraid although I agree we  
are in the latest interglacial of the Pleistocene in reality as Emiliani  
pointed out 15 years ago already. Will try and get a copy of your book  
when I return to woods hole in mid April. meanwhile greetings from vienna.  
bill

Date: Wed, 22 Mar 1995 09:56:09 -0500 (EST)  
From: "Alfred Traverse" <traverse@ems.psu.edu>  
To: wberggren@shad.who.edu  
Cc:  
Bcc:  
Subject: "Holocene," etc.  
X-NUPop-Charset: IBM 8-Bit

Dear Bill: It was great to hear from you. French wife? Since when? Wow!

Only thing that was disappointing was to learn that I can't quote you on "down with the Holocene because we're only in the most recent interglacial of the Pleistocene." Hope you can find a few minutes to read the passages about Neogene/Paleogene, Cenozoic, Pleistocene, etc., in my book "Paleopalynology." If it isn't in the WHOI library or if there is any other reason it is inconvenient, I'll send xerox copies of the pertinent pages. I'd like to be sure the version in the new edition I'm preparing agrees with WB. All the best. Al.

Received: from aqua.who.edu by pangaea.ems.psu.edu  
(4.1/PSU\_ESSC/GEOSC-2.02) id AA04855; Tue, 21 Mar 95 09:52:31 EST  
Received: by aqua.who.edu (5.57/Ultrix3.0-C)  
id AA26812; Tue, 21 Mar 95 09:52:29 -0500  
Received: from by shad.who.edu (4.1/SMI-4.1)  
id AB13031; Tue, 21 Mar 95 10:10:00 EST  
Date: Tue, 21 Mar 95 10:10:00 EST  
X-Sender: wberggren@shad.who.edu  
Message-Id: <ab944d4707021004c31e@[128.128.16.186]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
To: traverse@ems.psu.edu  
From: wberggren@aqua  
Subject: yours of 14 March

how are you al, never thought i would hear from you. thought you had retired by now. i retired a year ago in oder to free myself up from nsf proposal writing and to have moe time chasing after my french wife who works for cnrs in France. we have a home in the Luberon near Aix and spend half time there. Best thing i ever did even if my reduced inclome retsrictes me to ne, rather than two, martinis in the evening.

speaking of martin farley, i saw him two weeks ago in exxons offices in houston where i was at appg-sepm. I am coediting a large sepm volume on geochonology, times scales etc due out in jukly and exxon is adapting our time scale to their revised cycle charts so i had occason to visit them with jan hardenbol his (former) supervisor. martin comes to woods hole on occasion to our annual review meetngs for the oil company sponsodred projects we do and he enjoys the lobster-clambake and chocolate mousse banquest we provide our happy supporters. he is a bright guy but a bit of a dilettante. hioe he lasts at exxon, the future is not bright for long carres in industry unless you carve out a distinct niche for yourself early on.

as for the late Neogene we have a paper in press with gsa dealing with astronomical and paleomag time scale update and a setion on chronostratigraphy authored by yours truly urging once again supplanting tertiary and Quaternary with Paleogene and Neogene. I have reluctantly agreed to retain Holocene but that is as far as I am willing to compromise. should be out by autumn hopefully.

i am off to vienna tomorrow where my wife is teaching a 5 week course in nannoplankton and then easter at our house in the Luberon and back here m if April in time for the National Acadmy annual meeting where I am the presenter for the Mary Clark Thompson medal this year... never thought a little benthic foram student at shell in 1955-57 would end up in the NAS... but then we never know wheher we will end up.. cheers and all best wishes, bill

Bill Berggren  
Woods Hole Oceanographic Institution  
Woods Hole, MA 02543  
tel: 508-548-1400 X2593 (operator assisted) or 508-289-2593 (direct)  
fax: 508-457-2187  
email: wberggren@shad.who.edu

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

14 March, 1995

Dr. W. A. Berggren  
Dept. of Geology & Geophysics  
Woods Hole Oceanographic Institution  
Woods Hole, MA 02543

Dear Bill:

I often think of you and the great conversations we had in Houston so very long ago.

You may recall that when I did my book, Paleopalynology, I sought your counsel about "Tertiary", "Quaternary," etc. In the book I quoted you and discussed the matter in several places. I don't think I blamed you for my stand against "Holocene." I am now doing a second edition of the book, and if you think I need to correct these matters please let me know. The index to the book is very good and should enable you to find the pertinent sections easily.

Anyhow, I thought you might be amused by e-mail correspondence between me and a former doctoral student about the subject.

All the best.

Yours very truly,

Alfred Traverse

encl.:xeroxes

THE PENNSYLVANIA STATE UNIVERSITY  
DEPARTMENT OF GEOSCIENCES  
PALYNOLOGICAL LABORATORIES  
435 Deike Building  
University Park, PA 16802  
(814)863-3419 or (814)865-6393

2 December, 1987

Dr. W. A. Berggren  
Dept. of Geology & Geophysics  
Woods Hole Oceanographic Institute  
Woods Hole, MA 02543

Dear Bill:

Martin Farley, a student of mine, has just completed his Ph.D. with a thesis on palynomorph sedimentation in the Paleocene/Eocene of the Bighorn Basin, Wyoming. I believe the results of the Wyoming work are quite innovative. Martin shares my interest in the sedimentation of palynomorphs generally. I got him on WHOI's Westward, in the Caribbean a couple of years ago, and the result of that research has just come out in Micropaleontology. In addition to being a good geologist and palynologist, Martin is a very accomplished mathematician and computer wizard, and his approach to palynology is to take advantage of massive numbers of specimens to do some sophisticated forms of statistics relating to environments of deposition and vegetational ecology.

Would you or somebody at WHOI have a post-doc position for which Farley could apply for the coming year? I think that would make a lot of sense if it could be arranged.

Best regards, as ever.

Yours very truly,



Alfred Traverse  
Professor of Palynology

AT/et

*Just leave tomorrow for Paris*  
*True Jan. 1988.*  
*How are you? No one here - miss Dan*  
*in Birkbeck contact w. Dept. - miss Dan*  
*Smith's get in Barry*  
*How about Barry*  
*Do you have a student?*  
*Love you*  
*What is it?*

10 December, 1986

Dr. W. A. Berggren  
Dept. of Geology & Geophysics  
Woods Hole Oceanographic Institution  
Woods Hole, MA 02543

Dear Bill:

That was a really thoughtful Xmas gift! RI 5151 has been out of print for years, and I'm still getting requests--I've made a bunch of xeroxes, but this is clearly better. Thanks very much.

Just gave the Pleistocene segment of my palynology course and felt really good that I had some solid support in teaching that we're still in the Pl. and dismissing Quaternary, Holocene, Recent, Post-glacial, the works!

Best wishes.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et

WOODS HOLE OCEANOGRAPHIC INSTITUTION

WOODS HOLE, MASSACHUSETTS 02543

~~~~~  
Phone (617) 548-1400  
TWX 710-346-6601

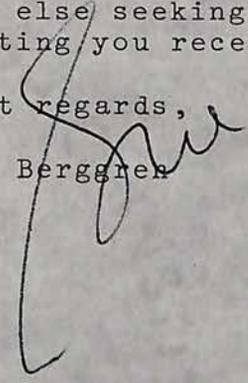
20 November 1986

Dear Al, In cleaning out some reprints the other day I came across this from your past. Peggie Rainwater gave me Rainey's entire reprint collection upon his death and this included many things outside of marine micropaleo. Thought you might like to have it inasmuch as I know that our old papers are sometimes hard to come by and might be of use to someone else seeking them.

Dennis Kent said he enjoyed meeting you recently. Saw him at SA San Antonio last week.

Best regards,

W A Berggren



13 October, 1986

Dr. W. A. Berggren  
Dept. of Geology & Geophysics  
Woods Hole Oceanographic Institution  
Woods, Hole, MA 02543

Dear Bill:

Thanks for further news, etc. I had forgotten about your Dickinson connection. One of my former students (Paul Strother, now at Boston Univ.) was there on a one-year contract a couple of years ago, and I was really hoping he'd catch on, but it didn't happen. We've done some interesting Ord.-sil. work together.

Please do visit us if it's ever possible. If I'm ever in Mattapoisett again I'll reciprocate (I used to go there in the summer when I was at Harvard).

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et

Woods Hole Oceanographic Institution

Woods Hole, MA 02543

Phone: (617) 548-1400

Telex: 951679



6 October 1986

Dear Al,

Thanks for the letter. Just returned from two weeks much needed rest after our Paleocceanography conference. Glad to be of (some) help in the Pleistocene-Quaternary ongoing debate. Just got the second circular for the next "Quaternary" Congress in Canada in 1987....

Stenzel died some years ago. Had been living with one of his daughters I believe in Beeville, Texas. He went to LSU after leaving Shell in Houston. I learned discipline and careful observation with him. In the Sputnik era I exploited opportunities to get to the Soviet Union as a student so as to get Russian scientific literature for our institution and for my own research. It paid off well and I have been able to use my knowledge of Russian to bridge the gap in knowledge that most paleontologists have because of language problems. I made a few nice friends then and still have them-some of them anyway-you tend to lose track of people over there since they write so seldom. I still think that the people (some of them) are the salt of the earth-genuinely real friends- but in my mellow years I am much more critical of the nasty politics and disregard for simple basic human rights that is so obvious when one travels there. Pity: the cultural heritage is rich and diverse; the everyday realities are awful and I do not see them getting much better in the future, Mr Gorbachev notwithstanding. No one seems to know how to

I spent a summer mapping around Penn State while at Cornell U field  
camp... if I get that way again I will drop by. I was  
in Carlisle visiting Dickinson my undergraduate alma mater  
two weeks ago with Marie Pierre my (second) wife who had never  
been in that part of the world... improved greatly since I was a  
student there.

Best regards,

Bru

Berggren

26 Sept., 1986

Dr. W. A. Berggren, etc.

Dear Bill!

This one is self-typed, so watch out!

Great to hear from you, for lots of reasons.

I sure wish I'd appealed to you long ago. I might not have given in the the reviewer of the Cenozoic parts of my text (C. W. Barnosky, Carnegie Museum, Phg.) I had wanted to avoid "Quaternary" altogether and to use the Pleistocene and Neogene as both running up to the present. It makes sense! Further, I wanted to avoid "Holocene" and "Postglacial"--a plague on both their houses. The only substitute term I could find for the last 10,000 yrs. that has any currency (used quite a bit in western Europe) is "Flandrian interglacial". However, CB really came unglued about the general use of that, and it is a bit jarring in, Iowa, for example. I'd really prefer "Post-W", for post-Wisconsinan, post-Würm, post-Weichselian--or how about "present interglacial"? The former is better, because it doesn't imply that there will be another glaciation, or that any humans will observe it anyway. Well, I respect CB's judgment, and who is very knowledgeable about Cenozoic paleobotany in general and helped me a log. I caved in.

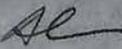
Woods Hole isn't right in Boston. Our family once camped nearby when I was visiting Barrie Dale and Dave Wall years ago. But I guess I'd have to agree about the remoteness of PSU. However, if you ever drive west, to say Chicago, to Cleveland, or what have you, a good route (I-80) takes you right through here. It would be great to see you again.

I recall some wonderful arguments about all sorts of things when you were studying with (I believe) Stenzel. And I have still have the letters you wrote from Sweden. They were partly written about the time of sputnik. You certainly weren't anti-Soviet then. Hmmm.

Thanks for the reprints. I had seen the papers, but it's helpful to have my own copies.

All the best.

Yours very truly, etc., etc.

  
Alfred Traverse. etc/

October 10, 1975

Dr. W. A. Berggren  
Woods Hole Ouanographic Institute  
Woods Hole, MA 02543

Dear Bill:

Thanks for the note from Olga!--what an unforgettable person!

It was good to hear even briefly from such a good old friend.

Last time I saw you, you introduced me to the Calvert Cafe (Syrian)  
in D.C.--I have returned many times. Thanks.

Best wishes.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT:jb

September 15, 1975

Al.

Just returned from a year in France.  
Spent last 4 days in meetings in  
Bratislava where I met Olga Cerna -  
Zukaa who said she spent a  
very nice time w. you recently in  
Penn State. She asked me to give  
you this clause - for you wife  
presumably! w. her best regards -  
see you at SSA maybe!

Bill Bengger

from W. A. Bengger  
Woods Hole

13 October, 1978

Mrs. Tim M. Berra  
Rt. 2, Belleville-Johnsville Rd.  
Bellville, OH 44813

Dear Rita:

Thank you so much for yours of 1 October and the interesting information about a platinum craftsperson. One of these days I will drop him a line and see what we can get going. It was marvelous of you to remember and follow through on our discussion. Thank you so much. Best wishes to you until we meet again.

Yours very truly,

A

Pt. 2  
Bellville, Oh. 44813  
1 Oct. 1978

Dear Al,

Hope I am not too late with this bit of information, but I did check on the possibility of someone solving the "platinum problem," and, only yesterday, got a vague address for you from Esther.

The architect who designed our solar house, assures me that he can melt down platinum. Though I know that he has worked with jewelry for many years, I cannot vouch for the quality of his work, as we've never requested such services. However, as an architect, we have no complaints!

Should you want to pursue the matter, the following addresses may be of some help:

Tom Zaugg

(home) 2356 Marion Ave.  
Mansfield, Oh. 44903  
(419) 529-6850

(office) Zaugg & Zaugg Architects Inc.  
60 So. Main St.  
Mansfield, Oh. 44903  
(419) 524-8054

Perhaps, by now, you have found someone closer to home, but, if not, I do hope Tom can help.

Sincerely,

Peta Bowers  
(Mrs. Tom)



26 March, 1966

Dr. William Berry  
Bituminous Coal Research, Inc.  
350 Hochberg Road  
Monroeville, Pennsylvania 15146

Dear Bill:

The enclosed copy of letter to Donald Cole may be of interest. Your letter earlier in the year had given me the impression that the epoxy junk should be an adequate substitute for marine-glue-balsam, even for lignites. (I don't have my copy here, but I believe you did say that.) Lakeside 70 was in 1950-55 when I was in the business and still is, a poor substitute. Can be used on an emergency basis, but definitely inferior. For bituminous coal, my students have also been having trouble with Biggs etc. But I now reckon that their troubles are probably due at least partly to failing to follow instructions. The stuff doesn't really like to adhere to glass. I am also looking forward to hearing from Don why, if Lakeside 70 is considered o. k. for lignites, he doesn't just go ahead and use it for bituminous coal too. I really regard it as a small tragedy that we can't come up with a thermoplastic, modern equivalent to the old marine glue-balsam stuff.

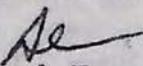
I was amused by Don's being unaware of my work with thin-sectioning of crushed lignite and sent him a reprint. I really think my melmac technique was an improvement over

plain plaster of paris.

Did I ever tell you the upshot of the Old Ben Coal Co. affair? They came down all right, and I had a very pleasant day with them. I pulled out all the stops to be sure that they got all the info such a flying visit could yield. I later had a call from Chicago indicating they were still thinking about the proposition, but I suppose that the long silence now indicates waning or at least quiescent interest. I am so busy with trying to find a job for next year, that I doubt that I would now have time for the field work that would be necessary to get lined up to mine the North Texas coal anyway. But I am still interested.

Looking forward to seeing you one of these months, I am

Yours faithfully,

  
Alfred Traverse

22 March, 1966

Dr. W. F. Berry  
Bituminous Coal Research, Inc.  
Etc.

Dear Bill:

Latest flash--my students and I have made a few rather crumbly sections using ordinary thermoplastic resin, but its melting point is, of course, too high--the heat is too much for the lignite. I have personally tried the Biggs Bonding Agent several more times with the same result: the BBA gets nice and hard (30 drops of hardener to 12 ml. of BBA) but it peels off the slide as slick as could be. In other words, it doesn't adhere to glass. I have tried cleaning the slides with everything imaginable (though the slides are billed as "pre-cleaned"), but this doesn't seem to help. Comments?

Unrelated other comment--since I was last in the business of making coal slides, the glass companies have apparently made their product thinner and worsen--the slides we purchased are not much more than  $\frac{1}{2}$  as thick as those I used to use (actual measurement), and they crack under temperature stress, a thing I never experienced in "The Good Old Days".

Regards as ever,

*Alfred Trause*

17 March, 1966

Dr. W. F. Berry  
Bituminous Coal Research Inc.  
Pittsburgh, Pennsylvania

Dear Bill:

We have been trying to use your instructions for sectioning coal on Texas lignites, using Biggs Bonding Agent R-313 (that's what they said was the correct one--your instructions, which I do not have here, do not say, as far as I can remember).

One of the problems may be moisture. With lignites it is not possible to air dry the surface, or you lose your lignite. You can wipe the blocks dry and even wipe the surface with acetone to get free water sopped up, and this we have done.

The problem is that the film of Biggs Bonding Agent does not stick to the glass slides, for whatever reason--moisture? Also, the Bonding Agent does not cure really hard (it is a little leathery, even after several days, in the part of the slide farthest from the edge of the coverslip). We cured at room temperature because heating would disintegrate the lignite. I notice that the instructions from Biggs say that room temperature cure is o. k. for the first few hours but should be followed by higher temperature cure for two hours in an oven. What do you think?

Are the proportions of agent and hardener correct? We have from you the following proportions: 12 milliliters of agent, 30 drops of hardener "B".

Sorry to bother you, old friend, but I hope you can elucidate before my students run me out of town!!

Best wishes as ever,

Alfred Traverse



22 Dec., 1965

Dr. W. F. Berry  
Bituminous Coal Research, Inc.  
350 Hochberg Road  
Monroeville, Pennsylvania

Dear Bill:

In November I lodged a little query with you that may have got buried on your desk. Only trouble is that my need is desperate. So, I decided to try again. Question was--could you provide any info on adhesives for fastening coal to slides for sectioning? Especially, is there any substitute for the marine glue-balsam thing for lignites? If not, where the devil does one get marine glue these days?

Best wishes for 1966.

Yours very truly,

Alfred Traverse

9 Nov., 1965

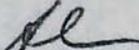
Dr. W. F. Berry  
Bituminous Coal Research, Inc.  
350 Hochberg Road  
Monaca, Pennsylvania

Dear Bill:

I have a note from the G. S. A. meetings from somebody that you have a very superior technician who is a master craftsman at making thin sections of coal. Would you be willing to share with me what his procedure re adhesives is? I am currently in the Lakeside 70 and Marine glue-balsam stage that I was in back in U. S. B. M. days. Schopf wrote something about epoxy resins being just the thing. How about it?

Missed you at the meetings. But I couldn't have taken much more reunioning. So, I saved you for next time!

Yours as ever, with best wishes,

  
Alfred Traverse

1 September 1965

Mr. W. F. Berry  
Bituminous Coal Research, Inc.  
350 Hochberg Road  
Monroeville, Pennsylvania

Dear Bill:

Many thanks for "Preparation and Polishing of Coal and Coke for Petrographic Analysis," which will be a useful addition to my library. I can imagine your consternation at the reversed figures--but it really was quite obvious and didn't matter.

Hope you and your family are well. I am working on Tertiary pollen and coals again.

Yours very truly,



Alfred Traverse  
Geologist

AT:jt

558 N. Audubon Rd.  
Indianapolis 19, Ind.

3 June, 1960

Mr. William F. Berry  
Department of Geology  
College of Mineral Industries  
Pennsylvania State University  
University Park, Pennsylvania

Dear Bill:

Yours of 24 May, re the Catalog, was forwarded to me here, whence we have repaired to visit relatives, see the 500 mile car race, etc., etc.

My comments are:

1. p. 11-73: regarding the footnote—this footnote should be deleted, if the editors are not to appear nomenclaturally uninformed. In creating varieties within a species, such as A. lasius var. major, no provision need be made for A. lasius var. lasius; in fact, it is incorrect to make such provision. The taxon A. lasius var. lasius is automatically created on the creation of any variety of the species. If one wishes to create a variety of a species he is supposed only to state what distinguishes the variety; the variety with the same name as the species is automatically what is left, so to speak.  
(footnote)
2. p. 11-109: /as explained above, in creating B. foveolatus var. minor, the author automatically created B. foveolatus var. foveolatus. I feel that the situation described in this footnote is the result of an error. Probably the majors and the minors were mixed up in writing the caption.

(Incidentally, in writing a name such as B. foveolatus var. for one does not cite an author, since there is none—the name is automatic—i. e., B. foveolatus Naumova var. foveolatus.)

3. About translations: just to express my opinion--I do not favor them. The time and space could be better used in some other way. As a possible exception, Chinese, Japanese, or another language with characters instead of an alphabet, might be translated. Translation of Russian seems not to be called for, and I feel the same way about any of the major languages that have an alphabet. This is just a comment on the introduction to this volume.

Glad to hear the news you convey. You certainly are a late blooming perennial in all respects, if you know what I mean.

Looking forward to seeing you one of these years.

Yrs. sincerely,

Alfred Traverse

THE PENNSYLVANIA STATE UNIVERSITY

UNIVERSITY PARK • PENNSYLVANIA

College of Mineral Industries  
Department of Geology

May 24, 1960

Dr. Alfred Traverse  
3737 Bellaire Blvd.  
Houston 25, Texas

Dear Al:

Volume 11, Option D, of the Catalog of Fossil Spores and Pollen has been sent to you for review. The tentative distribution date has been set as June 10, 1960, so we would appreciate having your comments and corrections in our hands by this date if at all possible.

Your assistance in this effort is appreciated.

Sincerely yours,

*Bell*

William F. Berry  
Research Assistant

WFB:cms

P.S. I have passed all my PhD exams.  
It won't be long now. B.

April 7, 1960

Mr. William Berry  
Department of Geology  
School of Mineral Industries  
Pennsylvania State University  
University Park, Pennsylvania

Dear Bill:

Volume 10 seems to be in order. I would like to compliment Dr. Spackman and you on the decision to add some taxonomic opinions on the entities. I feel very strongly that the value of the Catalog could be increased mightily if this practice were extended. In fact, it is not too late to do this ex post facto. The job could be farmed out to specialists, published by you, under their names, in such form as to be inserted in the appropriate volumes. The Catalog could become really important as the recognized taxonomic and nomenclatural clearing house. Would you pass the suggestion on to the Great White Father?

Best wishes to all the gang.

Very truly yours,



Alfred Traverse

AT:mpd

Shell Development Company  
Exploration and Production Research Division

THE PENNSYLVANIA STATE UNIVERSITY

UNIVERSITY PARK • PENNSYLVANIA

College of Mineral Industries  
Department of Geology

March 30, 1960

Catalog of Fossil Spores and Pollen

Dr. Alfred Traverse  
3737 Bellaire Boulevard  
Houston 25, Texas

Dear Al:

Volume 10 of the Catalog of Fossil Spores and Pollen has been mailed to you. As we are still slightly behind schedule, I would like to request that it be reviewed as soon as possible. We would like to set the distribution date for this volume as April 10, 1960.

Volume 11 is scheduled to go to the printer on April 1, 1960 and it should be in your hands for review by April 15.

Sincerely yours,

*Bill*

William F. Berry  
Research Assistant

WFB: cms

THE PENNSYLVANIA STATE UNIVERSITY  
UNIVERSITY PARK, PENNSYLVANIA

COLLEGE OF MINERAL INDUSTRIES  
DEPARTMENT OF GEOLOGY

March 28, 1960

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

Dear Al:

Thank you for your kind comments on Volume 9. Volume 10 should be in your hands for review in a week or so.

In reference to the credits dealing with Leschik or Kraüsel & Leschik we recorded them as we did because:

1. The entire paper under discussion is "Die Keuperflora von Neuwelt bei Basel" by R. Kraüsel und G. Leschik; but the subtitle and that part with which we were concerned is "II. Die Iso- und Mikrosporen" by Georg Leschik.

2. In view of this the species credit went to Leschik (top of page) and the citation of literature went to Kraüsel and Leschik.

Al, I think this is correct to use the citations in this manner but I must confess that I'm not sure. I am enclosing a copy of the cover page of the original publication. If there is, in your opinion, a better way of doing it please write and let me know.

I told Dr. Spackman about Jonathan Barghoorn and he was shocked. This was the first he had heard about it.

Enclosed is a picture of David Wayne Berry - thought you might want to review this production.

Sincerely yours,

*Bill*

William F. Berry

March 25, 1960

Mr. William F. Berry  
Department of Geology  
College of Mineral Industries  
Pennsylvania State University  
University Park, Pennsylvania

Dear Bill:

I have checked Volume 9 fairly carefully and with considerable interest. I would like to congratulate you on what looks to be one of the most useful volumes so far.

The only comment I have is to inquire whether a thorough study has been made as to whether the specific name credits should read Leschik or Kraüsel and Leschik. Although I haven't seen the original paper, from the title given, I have my doubts.

I have been wondering if Dr. Spackman has heard about Jonathan Barghoorn's death and, if so, if he has more details than I have.

Very truly yours,



Alfred Traverse

AT:pjd

Shell Development Company  
Exploration and Production Research Division

THE PENNSYLVANIA STATE UNIVERSITY  
UNIVERSITY PARK, PENNSYLVANIA

COLLEGE OF MINERAL INDUSTRIES  
DEPARTMENT OF GEOLOGY

March 15, 1960

Catalog of Fossil Spores and Pollen

Dr. Alfred Traverse  
3737 Bellaire Boulevard  
Houston 25, Texas

Dear Al:

Under separate cover we have mailed to you Volume 9 of the Catalog of Fossil Spores and Pollen. As we are behind schedule in the compilation of this volume we would like to request that it be reviewed and your comments returned as soon as it is possible for you to do so. We would like to set the distribution date as Friday, March 25, 1960.

I am happy to be able to report that Volume 10 is at the printer and should be ready for review in two to three weeks. Volume 11 is being prepared with a completion date of approximately April 15th. Re-runs of Volumes 2 and 3 have been completed to satisfy the needs of new subscribers. Volume 1 is scheduled for re-run on March 15th. The tentative completion date of Volume 12 is set for May 15, 1960.

Cordially yours,



William F. Berry  
For William Spackman

WFB: cms

*Good job!*

*Esbeck*

March 10, 1975

Dr. Albert A. Berti  
Chevron Standard Limited  
400 - 5th Ave. S.W.  
Calgary, Alberta T2P 0L7

Dear Dr. Berti:

Dr. Traverse is out of his office for several weeks, having undergone knee surgery. He is recuperating in the hospital and expects to be out in a few days. He asked me to write you concerning your letter of February 4 about the damaged binder for volume 13 of the Catalog.

Under separate cover, we are sending you a stiff cover as you requested. These covers were not used until volume 28, as you probably know, and we have no blank ones. However, I have doctored a recent binder, so that the spine reads correctly for volume 13. ~~DEhs~~ is the best we can do with the stiff binder. If it doesn't suit your purposes, be sure to let us know and we will have to send another volume 13 limp binder.

Our apologies for the inconvenience. The limp binders were frequently damaged in the mail and that's one reason we switched to the stiffer ones.

Yours very truly,

Betty Traverse  
Mrs. Alfred)



**Chevron Standard Limited**  
400 - Fifth Ave. S.W., Calgary, Alberta T2P 0L7

*So we have  
blank ones in  
stiff covers.*

D. W. Organ  
Chief Geologist

February 4, 1975

Dr. A. Traverse  
529 Deike Building  
The Pennsylvania State University  
University Park, Pennsylvania

Dear Al:

Thank you for the copy of volume 13 of the catalogue. Overall, Huon, Bert and I are pleased with the volume. We checked some of the sheets against the original publication, and of course many of the originals are less than excellent. Naturally also, there is always room for improvement with a copier.

Unfortunately, the binder was damaged when it arrived, such that the metal ring part pulled out of the cover. Could you supply us with another? If so we would prefer one of the newer type with the stiffer cover.

All the best.

Sincerely,

*A.*

ALBERT A. BERTI

AAB/lw

December 20, 1974

Dr. Alberta A. Berti  
Chevron Standard Ltd.  
440 Fifth Avenue S.W.  
Calgary, Alberta  
Canada T2P 0L7

Dear Al:

Yes, yes, of course it was van Helden whom I called Bert. Just a lapse on my part, of course, I don't know either of you very well. I'm sorry it has taken me so long to respond to yours of 7 November. It came at a very bad time in terms of the work here at Penn State. We can now get on right away with your request for an IBM copy of Volume 13 of CFSP. We will indeed punch and bind it and will bill it as you suggested. Glad you liked Volume 33.

Best wishes of the season.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/vsi



**Chevron Standard Limited**  
400 - Fifth Ave. S.W., Calgary, Alberta T2P 0L7

D. W. Organ  
Chief Geologist

November 7, 1974

Dr. A. Traverse  
Department of Geological Sciences  
Deike Building  
University Park, Pennsylvania 16802

Dear Al:

You were calling Van Helden, Bert, but I can't recall you calling me by that name. And in any case, Bert is part of Albert so I'll answer to that name also.

As far as the catalog is concerned, we are interested solely in an (IBM) copy of volume 13 of CFSP. We do not have any of the card options. The quality of the IBM copy is very good and we are willing to pay the regular price for the volume, that is, \$35 as part of a standing order. For that price we would appreciate as good a copy as possible, one where you change the density setting to compensate for variations in the original. Could you also punch and bind the copy in one of your regular bindings? Not being able to copy on the back does not really matter, but it would have been nice. The bill could be sent to our librarian as is done with regular volumes, or you could enclose it with the volume and send it all to me directly.

Yesterday we received V.38 in good order. Always good to see additions to the CFSP.

Yours sincerely,

ALBERT A. BERTI

AAB/vs

October 31, 1974

Dr. Albert A. Berti  
Chevron Standard Limited  
400 Fifth Avenue S.W.  
Calgary, Alberta  
Canada T2P 0L7

Dear Al:

How embarrassing--I am pretty ~~sure~~ that I was calling you Bert at the meetings, thinking for some reason that that's what you went by. Must have talking when I should have been listening.

Regarding the proposed "xerox" copy of Volume 13 of CFSP-- we have never done this before, but my suggestion was that we could in this case do it in order to provide you with a complete run of the Catalog. I understood that what you wanted was a card version, and by combining the volumes available in Option A (plain card), with those available in C (punch card) option] a little bit smaller, but not much smaller than the plain card) but not available in the plain cards, all we would have to do is make a xerox copy of Volume 13, and you would be in business. Our machine is an IBM machine, and it is not possible to print on the back of the pages, but the quality of reproduction is sensational, as I think you will admit. Besides, practically no pages in Volume 13 are printed front and back anyway. You asked for a range of photographs, and that brings up the question of 13:71. When printed at normal density, the photographs are almost lost, because they are very poor in the original. However, if the machine is set for dark, everything (or essentially everything) that is in the original volume is visible. However, this does result in a gray background on the sheet. You could specify that that's what you want us to do on the few pages which have light photographs. Needless to say, if you were to include this in your order, the registration of the sheets would be better than in these samples. I didn't bother to take my copy of Volume 13 apart to make these, but I would if we were trying to set up a complete copy for you.

Regarding the charge, I would say that is negotiable. It would be nice from the point of view of our operation, which is definitely marginal, if we could get the same price for that volume as for the other volumes. On the other hand, if you think that is unreasonable, we could discuss it. The charge for the use of the machine is five cents a page, and there is some labor involved. Furthermore, we really don't like to be in a position of providing a cut-rate copy of our own publication, which we will eventually be trying to sell in the reprinted version.

Thank you for your continuing interest. It was good to see you at the meeting. Best wishes.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/vsi

Enclosure: representative pages of  
CFSP, Vol. 13



**Chevron Standard Limited**  
400 - Fifth Ave. S.W., Calgary, Alberta T2P 0L7

D. W. Organ  
Chief Geologist

October 22, 1974

Dr. A. Traverse  
529 Deike Building  
The Pennsylvania State University  
University Park, Pennsylvania 16802

Dear Al:

As you know, we are interested in obtaining Volume 13 of the Catalog of Fossil Spores and Pollen. We would appreciate "Xerox" copies of two or three pages from this volume so that we can evaluate the quality of the copy. Could you ensure that the examples include more or less the full range of dark-light photographs included in the volume. Some copies, such as 3M, can copy onto both sides. Can you do this also? Would you also quote us a price for this volume.

Yours sincerely,

A handwritten signature in black ink, appearing to be "Al Berti".

ALBERT A. BERTI

AAB/mff

THE PENNSYLVANIA STATE UNIVERSITY  
DEPARTMENT OF GEOSCIENCES  
PALYNOLOGICAL LABORATORIES  
435 DEIKE BUILDING  
UNIVERSITY PARK, PA 16802, USA  
Phone: (814)863-3419; Fax: 814-863-7823

30 January, 1995

Dr. Remo Bertoldi  
Istituto Botanico  
Universita' di Parma  
v.le delle Scienze  
43100 Parma, Italy

Dear Dr. Bertoldi:

Thanks so much for the very interesting group of reprints received a while back from you.

Itea is an old friend, from my Brandon lignite studies! Enjoyed reading about it at Sarzana.

I also found all three reports of Neogene palynofloras as they reflect the vegetation of the time very informative. Thank you for thinking of me.

I enclose a few reprints that might be of interest.

Best wishes.

Yours very truly,

Alfred Traverse

encl.:reprints

THE PENNSYLVANIA STATE UNIVERSITY  
DEPARTMENT OF GEOSCIENCES  
PALYNOLOGICAL LABORATORIES  
435 Deike Building  
University Park, PA 16802  
phone: 814-863-3419; fax: 814-865-3191

Herrn  
Prof. Dr. Hans-Jürgen Beug  
Institut für Palynologie und  
Quartärwissenschaften  
Universität Göttingen  
Wilhelm-Weber-Str. 2  
D-3400 Göttingen, BRD

den 24. August 1990

Sehr geehrter Prof. Dr. Beug,

ich möchte mich herzlich bedanken für die <sup>ü</sup>Überreichung der fünf  
Sonderabdrücke über afrikanische Pollensedimentation, die ich mit  
großem Interesse gelesen habe. Das Bericht des Instituts habe  
ich auch bekommen. Über Ihre Fleißigkeit muß man sehr  
beeindruckt werden! Ich gratuliere!

mit besten Grüßen

Ihr

Alfred Traverse  
Professor für Palynologie

AT/et

*as corrigendum: Beug*  
*frei*  
*Schneider*  
*pag. 1*

10. Arbeitsbericht (1978 - 1979)

ALLGEMEINES

An der Abteilung für Palynologie waren in den Jahren 1978-1979 tätig:  
Prof. Dr. Hans-Jürgen Beug (Leiter der Abteilung), Dr. Eberhard Grüger  
(Akademischer Oberrat), Dipl.Ing. Irmtraud Henrion (wissenschaftliche Mit-  
arbeiterin, bis August 1978), cand.nat.Raija-Liisa Tikkanen (wiss. Mit-  
arbeiterin, seit März 1979), Ursula Jaschinski (technische Assistentin),  
Dipl.Biol. Ute Riede (wiss. Hilfskraft, bis März 1978), Dipl.Biol. Sonja  
Julius (wiss. Hilfskraft, 1.6.78 - 31.3.79), ferner als wiss. Hilfskräfte  
(DFG): Annekathrin Waechter (bis 31.12.78), Hartmut Schlachter und Michael  
Weyh (seit 1.4.79).

Studentische Mitarbeiter: Caroline Villagran (bis Februar 1978), Dipl.  
Biol. Charles Agwu (bis März 1979), Su-hwa Chen (seit 1.10.78), Anne-  
kathrin Waechter (seit 15.10.79)

Als Gast und Stipendiatin der Alexander von Humboldt-Stiftung: Dr. Ruth  
Schneider (Bern) bis 31.12.1978.

Frau Henrion trat im August 1978 die Stelle einer wiss. Assistentin am  
Institut für Vegetationskunde an der Technischen Universität Hannover an.

Die Abteilung für Palynologie steht in enger Beziehung mit den auswärtigen  
Dozenten Prof. Dr. K.-E. Behre (Wilhelmshaven) und Prof. Dr. U. Willerding  
(Göttingen), deren Lehrtätigkeit in diesen Arbeitsbericht aufgenommen ist.

Dr. Grüger habilitierte sich im Dezember 1978 für das Fach Botanik. Zum  
Dr. rer. nat. wurden promoviert: C. Villagran im Februar 1978, Dipl.Biol.  
Charles Agwu im Februar 1979.

Prof. Beug beendete seine Amtszeit als Rektor der Georg-August-Universität  
am 31.3.78 und als Vizepräsident der Universität am 30.4.79.

Am 1.10.1979 wurde das 10jährige Bestehen der Abteilung für Palynologie  
gefeiert.

VEGETATIONSGESCHICHTLICHE UNTERSUCHUNGEN

Deutschland. Das von der DFG geförderte Projekt "Entwicklungsgeschichte  
der Vermoorungen im Oberharz" steht vor dem Abschluß. Im Verlauf der 1975  
begonnenen Untersuchungen wurde 8 große Moore systematisch und 10 weitere  
übersichtsweise bearbeitet. Die Untersuchung der großen Sattelmoores  
(Henrion) konnte bereits 1978 beendet werden. Für das Kammoor am Bruchberg  
stehen noch abschließende Geländearbeiten im Jahr 1980 aus (Beug). Ein

Hangmoor am Oderteich in einer besonders komplizierten hydrologischen Situation bearbeitet Tikkanen. Eine Studie über Hohlformen auf den Mooren des Oberharzes, insbesondere über Kolke und hangparallele Schlenken wurde von Waechter in Angriff genommen (Diplomarbeit).

Frau Chen arbeitet an einem Dissertationsthema über die spät- und nach-eiszeitliche Vegetationsgeschichte in dem Gebiet zwischen Leinebergland und Harz (Raum Göttingen - Untereichsfeld - Bad Sachsa - Seesen).

Vermutlich eemzeitliche Ablagerungen aus dem Gebiet bei Osterode (Harzvorland) werden von Grüger bearbeitet.

Südeuropa. Nacheiszeitliche Vegetationsgeschichte von Süd-Kalabrien (Italien) durch R. Schneider.

Abgeschlossen wurden die Untersuchungen an jungpleistozänen Ablagerungen am Samerberg bei Nußdorf/Inn und des nacheiszeitlichen Erlenbruches "Fiekers Busch" bei Todemann/Rinteln (Grüger), ferner die Untersuchungen am Pérez Rosales Nationalpark in Chile (Villagran) und an Tiefseesedimenten vor der westafrikanischen Küste im Rahmen der von Agwu durchgeführten Studien.

UNTERRICHT

Sommersemester 1978

BEUG, BEHRE  
WILLERDING

Moorkundliche Exkursionen  
Einführung in die paläo-ethnobotanische Arbeitsweise

Wintersemester 1978/79

BEUG  
BEUG  
BEUG, BEHRE  
BEUG, BEHRE, GRÜGER  
WAGENITZ, GRÜGER  
WILLERDING

Literaturkolloquium für Palynologie und Vegetationsgeschichte  
Einführung in die Vegetationsgeschichte  
Vegetationsgeschichtliches Geländepraktikum  
Pollenanalytisches Praktikum  
Praktikum für Fortgeschrittene in systematischer Botanik und Palynologie/Vegetationsgeschichte  
Paläo-ethnobotanisches Seminar: Die Entwicklung der Landwirtschaft seit dem Frühneolithikum

Sommersemester 1979

BEHRE, GRÜGER  
WILLERDING

Moorkundliche Exkursionen  
Paläoethnobotanik

Wintersemester 1979/80

BEUG  
BEUG  
BEHRE  
BEUG, GRÜGER, HOFMANN, WAGENITZ  
WILLERDING

Literaturkolloquium für Palynologie und Vegetationsgeschichte  
Florengeschichte  
Morphologie und Geschichte der europäischen Kulturpflanzen  
Praktikum für Fortgeschrittene in systematischer Botanik und Palynologie/Vegetationsgeschichte  
Paläo-ethnobotanisches Seminar: Paläo-ethnobotanik des Mittelalters

## TAGUNGEN

- GRÜGER Umweltgeschichte des Vorderen Orients vom Hochglazial bis heute. Tübingen. 20.-23.2.78  
- Werden und Vergehen von Pflanzengesellschaften. Rinteln. 20.-23.3.78  
GRÜGER, HEN- Jahrestagung der Deutschen Quartärvereinigung.  
RION, SCHNEIDER Wien. 27.8.-5.9.78  
GRÜGER Kommission für Quartärstratigraphie. Stuttgart. 4.-6.10.79.

## VORTRÄGE

- BEUG Wie wachsen Moore? Universitätstage Lemgo. 17.1.79  
GRÜGER Die Seeablagerungen von Samerberg/Obb. und ihre Stellung im Jungpleistozän. DEUQUA Wien 1978, desgl. in Bern, Botan.Inst. am 14.2.79  
- Vegetationsgeschichte des Göttinger Raumes seit der letzten Eiszeit. Naturforsch.Freunde Göttingen. 8.11.79  
- Die Pollenmorphologie und ihre Bedeutung für die Phylogenie. Antrittsvorlesung 8.12.78

## VERÖFFENTLICHUNGEN

- BEUG, H.-J., 1979: Vegetationsgeschichtlich-pollenanalytische Untersuchungen am Riß/Würm-Interglazial von Eurach am Starnberger See/Obb. Geologica Bavarica 80: 91-106.  
GRÜGER, E., 1979: Comment on "Grnade Pile Peat Bog: a continuous pollen record for the last 140,000 years" by G.M. Woillard. Quaternary Research 12: 152-153  
GRÜGER, E., 1979: Die Seeablagerungen von Samerberg/Obb. und ihre Stellung im Jungpleistozän. Eiszeitalter u. Gegenwart 29: 23-34.  
GRÜGER, E., 1979: Spättriß, Riß/Würm und Frühwürm am Samerberg in Oberbayern - ein vegetationsgeschichtlicher Beitrag zur Gliederung des Jungpleistozäns. Geologica Bavarica 80: 5-64

## HABILITATIONSSCHRIFT

- GRÜGER, E. 1978: Spättriß, Riß/Würm und Frühwürm in Oberbayern - ein vegetationsgeschichtlicher Beitrag zur Gliederung des Jungpleistozäns. Göttingen. 90 S.

## EXAMENARBEITEN

- VILLAGRAN, C., 1978: Vegetationsgeschichtliche und pflanzensoziologische Untersuchungen im Vicente Pérez Rosales Nationalpark (Chile). Dissertation Göttingen. 181 S.  
AGWU, Ch., 1979: Vegetations- und klimageschichtliche Untersuchungen an marinen Sedimenten vor der westafrikanischen Küste. Dissertation Göttingen. 119 S.

## AUSWÄRTIGE BESUCHER

- u.a.: Prof. Neustadt (Moskau), Prof. Meusel (Halle), Prof. Watts (Dublin), M. O'Connell (Galway), Prof. Schirmer (Düsseldorf), Dr. Stuchlik (Krakau), Dr. d'Antoni (Tucson), Dr. H. Müller (Bannover).

September 8, 1972

Dr. H.-J. Beug  
Abt. Palynologie der Universität  
D34 Göttingen, Untere Karspüle 2  
Germany

Dear Dr. Beug:

Thank **you** so much for your recent reprint regarding pollen analysis of sediment cores from the Persian Gulf and the Gulf of Oman. I am doing some work from time to time on pollen content of cores from the Black Sea, and your work will be quite interesting for comparison.

Best wishes.

Yours very truly,

Alfred Traverse  
Professor of Geology & Biology

AT/vsi

March 3, 1975

Dr. Edward C. Beutner  
Department of Geology  
Franklin & Marshall College  
Lancaster, PA 17604

Dear Mr. Beutner:

Please disregard the letter I sent to you on the 27th. I checked with Al and found the item you were to have. Here it is.

Al is doing well in the hospital. The surgery was more extensive than he had anticipated, but he should be back in the office next week.

Yours very truly,

Betty Traverse  
(Mrs. Alfred)

encl

FRANKLIN and MARSHALL COLLEGE  
LANCASTER, PENNSYLVANIA 17604

DEPARTMENT of GEOLOGY

October 16, 1974

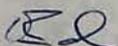
Dr. A. L. Traverse  
Dept. of Geol & Geophysics  
Pennsylvania State University  
University Park, Pa. 16802

Dear Al:

With reference to the sample confusion on R-4-A and R4A. Both are from the same location, one representing the coarse and the other representing the fine portion of a graded siltstone bed. The samples are from the eastern edge of the Coastal Franciscan outcrop belt and I wanted to make sure we got some usable material, so I sampled both fractions. Would you add a C (for coarse) and an F (fine) to the proper samples?

Hope the map and brief statement I sent with Duff Gold satisfied your requirements.

Regards,



ECB/h

Edward C. Beutner

809 Cornwall Drive  
State College, PA  
16801

October 7, 1974

Dr. Edward C. Beutner  
Department of Geology  
Franklin & Marshall College  
Lancaster, PA 17604

Dear Ed:

While processing your third batch of samples, we have discovered a problem in sample numbering which we hope you can clear up.

Batch two has a fine grey siltstone sample, numbered R4A, which yields a finely divided residue with spores, as you might expect. Batch three has a coarse grey siltstone with some sand, numbered R-4-A, which yields a coarse black residue with few, if any, spores.

Since these two samples appear to have the same number (unless the presence or absence of dashes is of significance), but are obviously not the same sample, what should we do about it? We have plenty of original sample of each, plus slides, which we will not assign final numbers to until we hear from you.

Yours very truly,

Alfred Traverse

AT/et

September 14, 1970

Mrs. Reginald Birch  
Port Hill  
Tyne Valley R.R.  
Prince Edward Island  
Canada

Dear Mrs. Birch:

Please excuse this somewhat formal manner of correspondence! It does have the advantage of being fast, and if I waited for an opportunity to write longhand, it might be Christmas before I got around to it.

I am enclosing herewith the copy of the historical paper on Port Hill, which you loaned me, along with a couple of photocopies thereof which you might find useful.

To my considerable surprise, the Penn State University Library had a copy of the book by Basil Greenhill and Ann Giffard, "Westcountrymen in Prince Edward's Isle". I have found it such interesting reading that I am going to try and buy a copy for myself. We had no idea while camped at Green Park of the rich history of the place until we visited the old house on the last day. I note that much of the information exhibited in the house is also in the book.

I spent a day with my parents in Michigan about a week ago, told them all about our experiences in Port Hill and so forth. They were fascinated of course, and it brought much reminiscing, even from my father, who is getting deaf and feeble. They both obviously have fond memories of Prince Edward Island, and they asked to be sure to send their greetings if I were to write.

Now that our appetite has been whetted, we hope to make it back "home" before too much time has elapsed. My wife and I greatly appreciated your husband's and your kindness in visiting us at our campsite, and we send you our personal best wishes.

Yours very truly,

Alfred Traverse  
Professor of Geology & Biology

Enclosures: publications

December 11, 1958

Dear Al,  
Greetings from Sweden! and a Merry Xmas season to you & family.

Thanks for the book. I am somewhat surprised at the "review" you gave it. Apparently the unitary principle underlies nearly all modern physics, chemistry & biology - & is of course epitomized in the Copenhagen school (Bohr, et al) of nuclear physics. The very structure of unitary thought emanates from a recognition of the fundamental unity which underlies organic & inorganic ~~life~~ matter -

When his did graduate work in Columbia Univ in psychology in 1953 whyte was practically the textbook - she said many of the grad. students (+ the prof also) were quite concerned over unitary thought, but that at the time it was too deep for her - a funny thing - we now have an American living w. us - came from Stan-Vac. in India to do Geochemistry work for a doctorate here in S'holm - he is a Harvard grad. too - said he had really found a great deal in whyte too, but that being weak in phil. nomenclature he had not got the most out of it. I have a disciple to practice on. Yum yum!

We now have a lovely modern Swedish house - 1 of 11 in a row - connected - cement floors - well-built to withstand the winters - all electric kitchen - wash-room w. autom. wash. machine - garage (which we converted into study & playroom) - 3 bedrooms & liv. room, 1/2 baths - Really a nice find - rent from a very nice American who asks for god year - have 2 year contract here on the house - & probably 3 more if I want it. Your prediction about

our staying is coming true - it appears. Lais now lives it here - apparently we are both working at the inst now & pulling in good money (in Swedish terms & for students) (pay is much better here for the comparable job in USA college).

She says she'll be happy if she never hears another pop-tune, rock & roll, advertising, TV show, noisy American tourist, etc. again - (but the tourists, alas, are with us here in Europe every summer). - We are really content now. I continue research in several fields now - & am given free reign in all work & free hand & support in all eggs I need.

in the Spring - which is good future training. Greenland is taking leave of absence in the Spring - probably going to Russia to see what they are doing in their institutes. Lois & I have been taking Russian - not so bad as I thought. Use it quite a bit already in my work - will have to stop of necessity - (no more paper). Regards to Lawrence & the gang from us both - Even his' father likes Sweden! He flew over again - This time he's tracking down Botan stone culture migration & spent 4 days at local museums. Then went to England to see Stenhouse for himself! Many times to you & family love Bill & Ann - Lisa

**AEROGRAM**

**FLYPOST  
PAR AVION**

DR. ALFRED TRAPPESE  
SHEU Development Co.  
3737 Bellaire Blvd  
Houston 25, TEXAS  
USA

SENDER / EXPÉDITEUR

Bergaren  
Soilentunavägen 95F  
TJERBERG, Sweden.

RYGBEFORDRAS ÖVER HELA VÄRDEN UTAN TILLÄGGSAVGIFT.  
BEFORDRAS ICKE SOM AEROGRAM, OM NÅGOT LÄGGES INUTI.

GODKÄNT AV RINGL. GENERALPOSTSTYRELSEN

TO OPEN CUT HERE / OUVRIRE ICI

-2-

We have just latched on to an artist who's to do my plates for a popular planktonic fauna - his technique is superior to anything we've seen anywhere - we have 1 well-known sci. illustration workshop was found - an Estonian woman - but she is exceptional - will send you some papers from air series w. the illustrations later - so what more <sup>can</sup> you ask for - I have a course in micrographs in Swedish



GEOLOGISKA INSTITUTIONEN

KUNGSTENSGATAN 45, STOCKHOLM VA

TELEFON: 34 08 60

*Berggren*

April 26/62

Dear Al -

Thanks for the letter. Congratulations on #4 - we were ahead of you for a while, but hois (fortunately or unfortunately) lost "it" - a boy - last December - in her 4<sup>th</sup> month -

I have been waiting 6 years to hear you say those words - (re Shee) - Why did you go with them in the first place - if you wanted "academic association" - you certainly don't get it with the characters there - The whole business of producing - & not publishing is pretty bad - particularly w. a so-called "Research & Development Co" - where is the research if knowledge is not shared for the benefit of man - (other colleagues, etc... who are also trying to reach the same "Truth") - phooey! The Calif. job really surprised me. - don't they pay more than \$7500 per annum? It's quite a place though - I looked over the new geology building last year - & was really impressed - (if you like wakis w. a staff of 25 other paleontologists & stratigraphers). Remembered me somewhere of a factory - in its size - Berkeley is also congested! Stanford was much nicer. It would take much to get me there. - But Jim Stree partial to the last pin apaid - particularly Princeton - Harvard - Yale - we have sent you 'files' to sound out my 'spies' there as to the job situation in the University at home etc. apparently a



# GEOLOGISKA INSTITUTIONEN

KUNGSTENSGATAN 45, STOCKHOLM VA

TELEFON: 34 08 60

2

pretty good time just now from what I hear.  
Then there are the oil companies - if I found a  
progressive group that would do no look at  
pelagic fossils at all & publish on what I see  
down the microscope - I would jump. There are  
a few such people in the world - 2 with B.P.  
in England & Loeblich in W. Calif. Research Corp. -  
There must be at least one more progressive  
oil company. - somewhere. - One is torn  
between the real problem of needing to reorganise  
financial state of affairs (in our case. They never  
rested) and continue w. a decent degree of  
freedom in our work & to publish as one wants.  
Seems if you're going to work w. an oil co.  
may as well go all the way - & take the best  
paying job you can get for a short time, do a  
good job & then get out when you are financially  
stable - I have heard of a couple of such  
short term jobs - at over 15,000 a year -  
but there would be little time over for  
'my pretties' -

Anything less would be temporary - &  
the longer I wait the harder it may be to  
land something at home - so, reluctantly, we  
have begun looking home wards. - Difficult  
as the Swedish mentality is to just up w. at  
times, life in Europe is very pleasant in



GEOLOGISKA INSTITUTIONEN

KUNGSTENSGATAN 45, STOCKHOLM VA

TELEFON: 34 08 60

4.

a reorientation of our social outlook - a moral revolution (but not the kind that horrible bunch of moral Rearmament-ists would foster upon us) --

The use of man by man - expression of the value system of capitalism - has to be replaced by the use of capital by man for the service of others - (not primarily for capital gain) - only then will we arrive at an evolutionary state of which we can be proud - The new Humanism, new Socialism, call it what you will - it's the only alternative to gradual automation or robotization of the human race -

gress will have to push that out over a few minutes some time. Be at home next time I come to Houston !!

Best regards,

Bill Bergman

March 21, 1958

Mr. William Berggren  
Geologiska Institutet  
c/o Professor Hessland  
Universitet 1 Stockholm  
Stockholm Va, Sweden

Dear Bill:

Enjoyed your nice long letter which, I believe, still leaves me owing you for the last long one I received. Oddly, your letter was written on the same day that I had a visitor here from Stockholm, one of Erdtman's co-workers, Barbro Gullvag (used to be Barbro Afzelius before she remarried). She was more or less returning the visit I paid her in 1955. She apparently had not met you yet. This is also by way of introducing the subject of Clair Brown, as she was here on her way to California from Louisiana, where she had been visiting Professor Brown. He is well known in Erdtman's laboratory, since he spent a month there, or something like that, a few years ago. Also, I presume Professor Hessland remembers him from L.S.U. days. He is the best known botanist in these general parts. However, since you've asked for my opinion, I must honestly report that it's too bad he didn't stick to straight botany. He's not an exceptional palynologist--got to it too late in life or had no talent in the first place, or something. I was never able to understand how he had made such a favorable impression on Erdtman as a pollen man. Don't get me wrong, he's personable and interesting, and as far as I know, a pretty good botanist (some useful publications on the botany of Louisiana), but his palynological work is poor and not voluminous. On the other hand, he is very well connected in European pollen circles, mostly because he has been able to get an amazing number of grants, fellowships, etc. for foreign travel, and he's also pretty well fixed financially in his own right, so he's been over a number of times. There are a number of people in the country who would profit more from a trip to Sweden at this time than C. B., but it wouldn't surprise me a bit to hear that he has pulled it off. That seems to be a special talent of his--getting grants. This straight from the shoulder stuff is, of course, highly confidential.

The possible job with Johnson Company is most intriguing. I think you ought to investigate pretty carefully about probable security and that sort of thing. But, if all looks well, you could surely do a lot worse. I wouldn't worry about bringing my kids up as little internationalists. I had several friends in college with just such a background, and I could never see that it had done anything but good. You could send the children to the States for secondary school at age 12 or so.

William Berggren

2

I would advise you not to be too demanding about publication. In my experience you'll have no trouble publishing really good scientific matter--new species, etc. The company won't want you to publish correlation charts, etc.--but what matter? Only at a university would you have completely free publication.

Why doesn't Lois make her own cream cheese? It's not difficult, and as I remember, there is a recipe in "Joy of Cooking", a tome which she surely has or knows about. Bet she could make a fortune by introducing cheese cake on the Swedish market.

All goes well and pretty much according to routine here. Lawrence and I will go on a collecting trip to Florida in April. The paleobotanical meetings are in Indiana this year. Aside from those two excursions and probably some museum visits, etc., it'll be a pretty steady diet of palynology at this address, and gardening, carpentry, electrical work, cabinet making and general auto repair at 1428 Adkins Road for me for the balance of 1958. I am getting to like like in Houston pretty well. It always takes me a couple of years to get my feet under me (everywhere but in California--I liked that the minute I stepped off the train).

I'm having lunch with Doc Stenzel today and will remember you to him per request. Apparently you are a great favorite of his, which speaks well for you--he seems pretty critical. You can tell Professor Hessland that nowhere in Europe was I more warmly received than in his home and at his office; I must say this was in pretty sharp contrast to my general impression of Swedish coolness. (I liked Copenhagen and Norway much better!)

Best regards.

Sincerely,

  
Alfred Traverse

AT:hmp

Shell Development Company  
Exploration and Production Research Division

March 14, 1958

Dear AP:-

Hello again! How are you braving the "rough" Houston winter? Winter here is no worse than in NY or Boston - just more persistent. Spring comes in May I am told. Nice thought it being only mid-March now.

We are doing well. I get tired of thraving on the anthracite in the heater - (particularly at 7AM), but otherwise I can't complain too much. It has been a bit hard on Lois lately. Now she has to wash clothes & rinse them in cold (!!) water - but we recently discovered an (what must be the only) automatic washing machine establishment so we take some things there now. The apt. itself, otherwise, is spacious and nicely furnished - very "home like" - and when you consider nearly everyone here lives in overcrowded conditions - you have to be thankful for what you have.

Kirk continues in a play school 3x a week - & learns Swedish rapidly. Our daughter (it was a daughter wasn't it - ?) just eats & sleeps - so unlike her brother who was a noisy baby.

I am really enjoying my work at the Univ. Am working on my straddles but have 3 or 4 projects going all the time - describing farms from the Dan-Pal-Escove also of Scandinavia - & plan to get out several papers periodically on them - It is a good feeling to be stimulated - few people are - & then not for long - but I feel now as though I could go on forever. I never get home on time - just work late every day with no regard to time - that must be love!

Hold your hat on this one! Remember you once said, "you might like it and stay over there?" Well, it's not that definite, but I had the best job offer I am ever likely to get - recently. Perhaps you've heard of the Johnson here - big shipping co - Stockholm - Calif (San Francisco, etc.) - owned by a filthy rich Swede name Axel Johnson - 80+ years old - also owns big iron mines, & shipbuilding interests. One of the 2 vice-presidents of the co - had lunch with Dr. Hesseland recently - seems they're gone in for oil too - Sweden's only oil co - working currently in Portugal - he got to talking with Hesseland - & wanted to know if he (Hesseland) had any likely prospects to go to work for them - to which Hesseland of course said no - but then he told him of me & my work here - so here

Hesseland will do so necessary to appreciate it - I can scarcely do justice to it. Suffice it that

when Hessland told me to look a) an American working at the Univ or b) micropaleo of the K-T boundary & that said Amen. c) had worked for Shell at Co - the fellow looked like a prancing dog waiting for a bone - licking his chops. Hessland's description is really priceless. Anyway later the fellow came up to see me next day & proved to be very nice & friendly. Had worked briefly in the oil patch near Lake Pontchartrain in '28-29 & knew Houston like a book - with a name like Nordstrom one would never think he had been in the oil fields. But here he was Vice-Pres. of Johnson Co - & a really sharp bug on geology & politics. To make a long story short he offered me a job with their Co - (when I am there here in '60 or so) as geologist coordinating their exploration work - & doing research in micropaleo - (Ostracods - mainly Jurassic - which is where they currently had their production in Portugal). After Portugal is proved either successful or a flop - it will be Africa (Senegal) or S. America - & then anywhere - a lifetime job - with an home in Sweden benefit - and a paid vacation to USA for 3 months every 3 years - as he pointed out I will be starting in right up near the top - which has its obvious advantages. He has asked me to go to Portugal this Sept to look over their area - & work for them all next summer on micropaleo - (family along of course) & then in 60-61 step right into a beautiful job - at good pay - (same or rather I should say - equivalent to what I could make in USA) - It's all very tempting - We've debated it but have reached no conclusions. Biggest "score-points" within are 1) necessity of bringing up kids in Europe - which were not too keen on - there's no substitute for the American way of life 2) seeing USA <sup>only</sup> every 3 years 3) publication rights - I will insist on rights to publish new work in mind & before I agree to do anything for them - It's all in the embryonic stage - but it's a big decision that will have to be made soon - I've lost 10 lbs since I came over here - & this long northern winter has given us all colds - sore throats - & a general run-down condition. Seeing Portugal, at moments like this, looks better all the time.

has got the idea that it would be good to train some  
micro paleontologists at the inst. & turn them out for Johnson  
Co. - in a few years - then if I go to work for them - he says -  
I can have them working with me - a good working arrange-  
ment. We are currently running a micro course for students  
& it's going very well. so much for that -!

Dr. Hesselund would like some dope on Dr. Clair Brawn HSD -  
Botany dept seems he's written us for some samples - Newman  
& Mastrichtian - claims to have new methods for releasing pollen  
grains from hard chalks etc - he has also written about  
his desire to come over Sweden of Mr. Hesselund "Can Sweden a  
State dept. grant" - these are his "infamous" words Hesselund  
got a hitch out of his letter & said he expected "to see the  
man here in Stockholm any day" - Hesselund would like  
to know what you know about him & what you think of  
his work - you can include it in a note to me - (a  
note him) - makes no difference - it's just curiosity on  
his part. -

We had the Hesselunds + Reymont to dinner recently - no chesecate -  
but has managed to wow them with some crab carotoni,  
fried chicken & fancy veal cooked in Benedictine fondesent -  
she's frustrated because they don't sell cream- cheese here -  
which you need for chesecate - gorgonzola is a delicacy  
here - imported at 200 for a 6oz bottle (Canada Dry) -  
thus we can't even make a high ball! - have taken to  
never drinking along with other Swedes - The govt. subsidizes  
the liquor stores to reduce wine prices - to encourage its  
consumption - rather than heavy liquor - "Björnörn" (  
Swedish whisky - a more aptly brandy) - etc - drinking is  
a big social problem here & the Swedes believe in calmly  
putting the squeeze on everyone to deter the worst offenders -

will close before you fall asleep my best regard to Lawrence -  
Have you (all) been to any book sales at Rice lately, Lois  
asks? I'll never forget those series of incidents (or doubt if  
they will either) - A special hello to Doc Barber & Stenzel  
when you see them - I hear Eric telling me to come  
in & say goodbye (not asking, telling!) so I'd better go  
in & say goodbye - & best wishes from us all  
Bue - Berggren



STOCKHOLMS HÖGSKOLAS GEOLOGISKA INSTITUTION  
POSTADRESS: STOCKHOLM 6

November 6, 1957

Dear Al-fred:-

This letter is in answer to your "epistolary prolificness" of August 7th which just arrived several days ago. Seems it arrived at Lois' house the day we left for Sweden and found its way to a peaceful haven atop the Albee mantle over the fireplace, until it was "discovered" by recent housecleaning and sent over with due apologies. Incidentally, Lois' father has decided to take the big plunge and come to Europe. In fact, he was to have left yesterday for Egypt and Greece where he plans to do some amateur archaeology (his pet passion), Then he will fly to Stockholm and see his new grandson (due this Sunday) and then off to New York.

Life continues here as usual despite speeding Sputniks and cries from American papers at the Administration's inefficiency. They are really raking Eisenhower over the coals are they not? Here they expect the NATO bunch to break up any day now what with England quivering in her long johns at the prospect of Russian missiles pinpointed on English cities. The Swedes are sitting back somewhat complacently and saying "we told you so". (They do not belong to NATO or any other so called treaty or pact). Just how far ahead the Russians are in technological advancement is still probably not realized by the American public. Every day here new films on TV from Russia show how the missile is constructed, how the satellite circles the earth, and just last nite they had official films of the launching of the missile, showing how it is launched, not from the ground, but as the Nike interceptor missile, dropped from ~~from~~ a monster of a launching plane that takes off from the ground and goes high up, The missile falls momentarily and rights itself vertically by means of a gyroscope and then "blasts off" straight up and out into space. The latest pronouncements that the moon is next and that there will be a mobile tank on board that will roll out onto the moonscape and send back TV pictures was no less startling than the subsequent statement



STOCKHOLMS HÖGSKOLAS GEOLOGISKA INSTITUTION  
POSTADRESS: STOCKHOLM 6

that Mars and Venus are next and within several months. Seems like we have sort of been lost in the rush somewhere. All of which proves to my mind that Americans have to realize that Russia is a country undergoing fantastic technological development and is now the leading power country in the world and to stop pointing accusing fingers at them and saying naughty-naughty, or playing such dangerous games of politics in the middle-east. People must recognize Russia for what it is—a world power with a government that is essentially dynamic and appealing to a great many people in the world—unfortunate as it may be. The typically idealistic form of American foreign policy had better be replaced soon by some realistic, down-to-earth thinking. You would never dream how much anti-American sentiment there is all over Europe. Even here in Sweden, which has incorporated more Americanisms than any other European country, there is great disapproval and outright dislike for many facets of contemporary American society. Chief among these are:— advertising that demon of the mass-culture, automation, which has reduced the value of the individual in an industrialized society to little more than that of a statistic, gadgets and luxuries which rob the individual of the ability and incentive to do any creative thinking or construction. These are serious observations but heralded brilliantly by Aldous Huxley in several penetrating essays collected under the title "Do As You Will" (This World's A Fiction) (William Blake) and published in 1928. I understand there is quite a book out now called "Mass Culture" which critically examines our contemporary society with some acrid results. I think we are seeing the last phases of a tradition working their own destruction to consummation in a last furious burst of energy and that when the tradition has exhausted itself a new and vigorous outlook and evaluation of the life-process may be realized. It's a strange age we live in, but one so important, I think, that I have taken to cutting out and saving in a scrapbook, clippings of the world's news as it happens. These will be days to remember.



STOCKHOLMS HÖGSKOLAS GEOLOGISKA INSTITUTION  
POSTADRESS: STOCKHOLM 6

Son number two is due Sunday or any time now that he chooses to put in an appearance. If things do not slow down a bit in the world a bit I may advise to get back in and wait a while and thus save him from almost sure neurosis of one sort or another, We have not decided whether it shall be Karl or Lars, but the latter seems to have priority now. If it turns up as a girl we shall be at a loss what to do - perhaps a trip to the moon? It will be Anna-Bisa (after an Aunt of mine who died in 51) but Lois is making no pretensions about her preference. Meanwhile the sewing goes on furiously. She runs into town to sew at the Singer Sewing Co. store on the winter overcoats, pants, etc. she is making. Lovely things with built in hoods like our mackinaws. We just hope she gets it all done before B-day.

Everyone here has had the flu except 2 people and I am one of them. In fact neither Lois or Erik have had it yet. Knock wood. Speaking of wood, the furniture here, and more particularly, Denmark, is enough to make one sick (with envy). It's delicious and Lois has already seen the table in N.K. (Stockholm's largest dept. store). It's of jacaranda (rosewood) . Looks sort of like cheery and the grain of the wood is brought out in a most startling beautiful pattern thru the handrubbing it has undergone. Only 495 kronor (100 dollars). For 100 dollars in America you get a fancy wrought iron-formica top table. We may make monthly payments on it and pick it up when we leave here. Incidentally, about degree plans . I have talked to Dr. Hessland about it and it will work out O.K. but will involve time-but time well spent I feel. I will be working on all my American material plus material from Scandinavia and Europe and publishing on several aspects of the problem as they are studied. This work will lead to a Licentiate here at the Univ. and Hessland has said that I can then use the work at Columbia or other place for an American PhD. This will involve 2-2 1/2 years, but inasmuch as the Congress will be here in Denmark in 1960 I'd be an ass not to stay and take part in it. Especially when trips to Greenland



STOCKHOLMS HÖGSKOLAS GEOLOGISKA INSTITUTION  
POSTADRESS: STOCKHOLM 6

Iceland, and Finland look good for us here at the Högskola. It is an interesting situation. A small country with only a few geologists and micropaleontologists. Thus the chances of getting in on trips and money for research are always better than in America where there are always more aspirants than there are funds. A stipendia for me to live on the coast of Denmark with the family for a month next summer is in the offing. While there I can collect all over Denmark for our work.

If there is one refreshing thing over here it is the positivistic attitude towards education and culture. You just do not see the anti-intellectualism here so common to parts of our contemporary society. It was one thing that used to annoy Lois more than anything-when-for instance- we joined the Great Books discussion group- many people would say you were "going intellectual" or that you were "queer". It is a strange and sad thing when one has to defend one's desire to learn more about the great ideas that have characterized the development of man through the conversational method. Is it any wonder Europeans regard Americans as "funny paper readers" and "accelerator-foot" weary. This last one is a favorite of Dick Reymont with whom I work. It refers to the necessity placed upon Americans to use the family car to go to the front of the driveway to get the morning papers. Oh well-*c'est la vie*. My best wishes to all at the lab-and a special warm greeting to Lawrence to whom I shall endeavor to write very soon. What with using a type writer this has been a major effort if you remember how I used to zoom away for Farrott. My sympathies if you ever get Blair out to look at the painting-though I confess I do not have to keen an interest of cubist art. The extreme "geometrification" of art forms representative of the early part of this century was just one further and deeper step into that oblivion of rejection of life in its natural state ushered in by contemporary and post war impressionism and, later, surrealism.



STOCKHOLMS HÖGSKOLAS GEOLOGISKA INSTITUTION  
POSTADRESS: STOCKHOLM 6

Attempting to get at the very essence of reality in its naked geometric form, something else was lost- a sense of continuity with the past or with surrounding reality. It is difficult to express but nevertheless something I feel deeply. The idea that the emotion itself is not valid for the artist is what gets me (as Blair would have it). It is tantamount to saying that he has had the same experience and rejected it. It should be obvious to anyone of scientific constitution that the experiences of true artists are far closer to the Real in that they represent a strange blend of the intuitional and mystical, and <sup>that</sup> the only criterion we have for an emotion is its genuineness. The scientist concerned with measuring finite processes in time has hardly a conception of what the artist's life is like. Art has always provided the best, most accurate and acute interpretation of history. Its message is immediate to the sympathetic reader. Its content and form expressive of the age. The flowery saints and angels of Filippo Lipi, the bass-relief wood cuts of later medieval Germany, the voluptuous nudes of Titian- all would be as out of place today as would Picasso's Guernica or Mondrain in a medieval setting. Why people do not make a more conscious attempt to understand the form and content of art and to see in it a reflection of their development is beyond me. But then people never have been fast to pursue anything involving intellectual endeavor.

I have gone on too long and you must be properly bored. Needless to say, you can see I enjoy writing. Perhaps next time we can discuss the (de) merits of Christianity. Your steadfast Christianity is a source of amazement to me. Anyway- best wishes to you and keep up the good work. Read your paper in Micropaleontology. Very interesting and acute observations. I remember we spoke of your ideas of form genera one day. Write.

Sincerely,

Hunt Institute for Botanical Documentation

*Bull*  
Berggren

February 25, 1960

Dr. John F. Bergmann  
Department of Geography  
Southern Methodist University  
Dallas 5, Texas

Dear Dr. Bergmann:

Your letter of 8 February was very interesting. I'll answer the last part first. You should begin your search with the publication, Lamotte, R. S. Catalogue of the Cenozoic Plants of North America through 1950. The Geological Society of America Memoir 51. 1952. I note a considerable list of Sterculia there, but no Theobroma or Herrania. The London Clay Flora (Eocene), by Reid, E. M., and Chandler, M. E. J. British Museum, 1933, has some discussion of Sterculiaceae in that famous deposit. No Theobroma, though. There are a number of Fremontia in well authenticated Tertiary floras. You will find them in Lamotte. You must be careful about accepting determinations in the older papers, e.g., those of Knowlton. But the more modern determinations are quite reliable, e.g., those of Axelrod.

The idea that all modern families were well established in the Cretaceous is not, in my opinion, acceptable. The Compositae, to take one example, did not arrive on the scene until the Miocene. However, the Sterculiaceae-Tiliaceae crowd seem to be among the older groups, and I would say that some sort of Eo-Sterculiaceae-Tiliaceae - etc. plexus did exist in the upper Cretaceous.

Hoping that this is the sort of comment you wanted, and that it will at least provide a jumping off point, I am

Yours,

  
Alfred Traverse

AT:bsj

Shell Development Company  
A Division of Shell Oil Company  
Exploration and Production Research Division

# SOUTHERN METHODIST UNIVERSITY

DALLAS, TEXAS

DEPARTMENT OF GEOGRAPHY

February 8, 1960

Dr. Alfred Traverse  
Shell Development Company  
3535 Bellaire Blvd.  
Houston 25, Texas

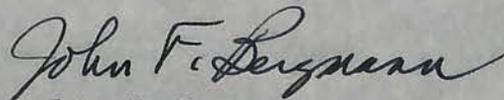
Dear Dr. Traverse:

Dr. Lloyd Shimmers of this University has suggested that I write you to inquire after any evidence you may know for the antiquity of Theobroma cacao. I have made a study of the historical and cultural geography of cacao in Middle America and have become interested in the problem of the center of origin of cacao.

Recent botanical opinion concerning the age of the angiosperms seems to invalidate the hypothesis of the late British botanist, E. E. Cheesman (Tropical Agriculture, 1944), to the effect that cacao originated in the Amazon Basin near the foot of the Andes Mountains and subsequently crossed the Andes in some manner not yet clearly understood. If Nemejc is correct (Acta Musei Naturalis Prague, III(1956), No. 2-3, p. 71) that by "the middle phase of the Cretaceous...all families which have persisted up to now seem to have been entirely fixed," then Theobroma probably had a much wider distribution than the region of the modern Amazon Basin. There would have been no Andean barrier to dispersal at that time.

Your comments on this problem would be most welcome, and I should be much obliged if you could tell me of any evidence that may appertain to the subject, such as some fossil record of Theobroma, Herrania or other of the Sterculiaceae.

Sincerely,



John F. Bergmann  
Assistant Professor

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

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DIVISION OF NATURAL SCIENCES  
APPLIED SCIENCES BUILDING

SANTA CRUZ, CALIFORNIA 95064

October 15, 1976

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

Dear Al:

I am preparing to jump into print on the Coastal Franciscan and have a few questions which linger. A number of samples described in the "preliminary final" report were given tentative ages pending work in progress, most often involving the fungal spores, and an assignment to either the Paleocene or Eocene. Did anything get resolved by the fungal spores? From dates (Coniacian or younger) on pelagic forams in limestones, which I believe stratigraphically underlies the Coastal Belt, I am sorely tempted to guess that all of the "older" samples among the first batches (and in Kleist's samples) represent reworked resistant Jurassic and Cretaceous palynomorphs, and that the Coastal Belt is completely Paleocene and Eocene. How does that sit with you? All of the samples worked (largely for dinoflagellates) by Evitt from the area between Kleist and our area were called either Eocene or Lower Tertiary; is it possible that all of the material is Eocene? or are there some definite Paleocene forms in my samples or Kleist's?

I am presently on leave (note address above), in part recovering from a health problem which pretty well flattened me all of last year, and in part to get this material written up; somehow I write better when I can look out my window at a redwood tree!

Best regards,

Ed Beutner

EB:sh

July 17, 1974

Dr. E.C. Beutner  
Box 76  
Lima, Montana 59739

Dear Ed:

Just a brief note to acknowledge yours of 3 July. I am in the midst of writing the final report on the first batch of samples, and should get it off to you in the next day or so. You will find that I am shifting my ground slightly on what I said stratigraphically regarding the two samples which yielded workable floras but you can get that out of the report. I also have received now the two boxes which you mentioned in your letter, making four sets of samples altogether. We are working up the report on the second set also and should get that off to you before too long. The second set contains some samples with fairly carbonate content, and perhaps I should hasten to warn you, if I have not already, that high carbonate is not particularly good news, and since Franciscan material is such bad news generally, it is best to minimize our difficulties! Another a

Another thing I should say about the samples in general is that you have been sending far more sample than is necessary, and hence unnecessarily increasing your postage bill! A hundred grams or so is a great plenty. In other words, a chunk about the size of a large apricot almost always suffices. You have been sending samples more on the order of a small grapefruit!

Regarding your need for a foram expert, you have come to the wrong man. I know a few such people, but they would not be available since they work for the federal government. I would suggest that a good place to ask for such advice would be the Micropaleontology Department of the American Museum of Natural History in New York City. If you don't have the address for that outfit it is 79th Street & Central Park West, New York, New York, 10024.

Best wishes to you for the rest of the summer and assurances  
that you will be hearing from us in more detail.

Yours very truly,

Alfred Traverse  
Professor of Palynology

-  
AT/vsi

100% Cotton  
Fidelity Union Skin  
Garlock

Box 76

Lima, Mont 59739

July 3

Dear Al,

I have just arrived back in Montana after finishing up the California work (at least for this summer). Just before leaving I shipped two boxes of samples to you. I believe these should be much better material - most are clean, fresh siltstones. There are a couple of ugly-looking ones; hope springs eternal ---

I have had favorable news from NSF; my grant has been extended until next spring & I can shift some unspent money from other categories into paleo consulting fees, so up to ~\$1500 is available.

A question which, although obviously not exactly in your area, you might be able to help with: I would very much like to get someone to look at some samples for forams, and would appreciate any suggestions of people who might have the time & expertise to work on a consulting basis on some samples. I had a retired shell paleontologist lined up to do some, but it was apparent from his first batch that he had not kept up, so I shied off that.

Any ideas? I can be reached at the above address for the rest of the summer. Best regards, Ted Beutner