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.

16 March, 1981

Cědok
na příkopě 18
111 35 Praha 1, Czechoslovakia

Dear Friends:

We just returned from a second visit to your lovely city. (The first time was in summer.) As a geologist, I return with a somewhat heavy heart about the terrible damage which pollutants are doing to all your gorgeous public buildings--many of them priceless heritages. For example, it was plainly observable that coal-burning locomotives are allowed within the city (I saw and smelled them at Smichov, for example), and coal-fired furnaces are spewing SO_2-laden smoke all over the city.

Could Cědok officials "lobby" with the appropriate authorities for improvement of this situation? Your future is at stake!

Yours very truly,

Alfred Traverse
Visiting Professor

(Professor of Geosciences
Pennsylvania State University, USA)

AT/et

Hunt Institute for Botanical Documentation

Central Petrographic Service, Inc.
2514 Nicholson Dr. Ave
Dallas, TX 75224 / ca. 20 May 1985

Dear Sir:

as you will notice slide No. 2 - Wendham is cracked, we tried this slide several times and it cracked each time, so this is the best we can do, there is no charge ~~for~~ for this slide.

We hope to be of service to you in the future.

C. M. Jenkins

Hunt Institute for Botanical Documentation

23 April, 1985

Central Petrographic Service Inc.
att: C.M. Jenkins
2514 Nicholson Drive
Dallas, TX 75224

Dear Sirs:

Enclosed are 22 rock samples to be made into standard thin sections. All but 5 or 6 will need to be impregnated with epoxy. We would like all samples cut perpendicular to bedding/laminations. The pre-cut samples 7, 9, 11, 12 and 13 should be sectioned parallel to the cut face. We are interested in silt-sized particles in this study so any siltstone clasts should be included when possible in the more heterogeneous samples.

Please label the samples with both the sample number and the sample name. The charges for this work as we understand it, will be as follows:

22 thin sections @ $4.95	$108.90
17 epoxy impregnations @ $1.25	21.25
total	$130.15

A Penn State purchase order for this work will be in the mail to you in a few days. Because the budget under which this work is being done expires on 30 June, 1985, the bill from you must be received and paid by that date. So, even if the work is not completed by that date, PLEASE SUBMIT A PRO FORMA INVOICE, so payment can be made before the 30 June deadline. We will appreciate this very much.

If you have any questions please contact me at the phone number on the letterhead.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et
encl: rock samples and sample list

Hunt Institute for Botanical Documentation

CENTRAL PETROGRAPHIC SERVICE, INC.
2514 NICHOLSON DRIVE
DALLAS, TEXAS 75224

Dear Sir:

Your Order No. Letter for 22 Thin Sections

was received on 4-29-85. It was OK.

I will try to deliver on or before 5-27-85.

Thank You.

C. M. Jenkins

C.M. Jenkins

Hunt Institute for Botanical Documentation

C.M. JENKINS

PHONE 942-0644

CENTRAL PETROGRAPHIC SERVICE, INC.

2514 NICHOLSON DRIVE

DALLAS, TEXAS 75224

4-30-85

Alfred Traverse
The Pennsylvania State University
Dear Sir:

Thanks for your order of thin Sections, I believe that you have one of our older price list, We are inclosing one of our latest list, if you should have any questions please contact us. We are proud to be of service to you know and we hope in the future.

We will deliver your order before your stated date.

Yours Truly

C. M. Jenkins

C.M. Jenkins

Hunt Institute for Botanical Documentation

THE PENNSYLVANIA STATE UNIVERSITY
COLLEGE OF EARTH AND MINERAL SCIENCES
UNIVERSITY PARK, PENNSYLVANIA 16802

Department of Geosciences
Palynological Laboratories

Area Code 814
865-2342

25 September, 1978

"Junior Editors' Quiz"
c/o Centre Daily Times
3400 E. College Ave.
State College, PA 16801

Dear friends:

I always read your little quizzes with great interest. In fact, years ago my son, now a doctor, won a set of encyclopedias for his question! Usually you are very accurate scientifically speaking, but you really blew your answer to "What are conifers?" I enclose a xerox copy of the item in question. The process of fertilization is explained entirely incorrectly, and will unfortunately perpetrate some of the misinformation around about conifers. Pollination of the female cone takes place while the cone is on the "parent plant". The mature seed is sometimes not produced within even a year, but that's not the important point. The pollen, by the way, is even more interesting than the seed from my point of view as a palynologist! Pollen of some conifers such as pine can get into the upper atmosphere and circle the globe several times. It is frequently found in sediment on the mid-Atlantic ridge!

I suggest you get some botanist to write you a correction for that dumb statement that pollen drops to the ground and adheres to the seeds, etc.!

Yours very truly,

Not tactful, Prof.! Alfred Traverse

Alfred Traverse
Professor of Palynology

AT/et
encl: xerox of article

Dear Dr. Traverse: Thanks for writing, and please excuse the informality of this note. I am sadly aware of the error made in the column on conifers as some forestry research lab in S.C. has already brought it to my attention. The error is due in part to the fact that my source material suggested that fertilization takes place on the ground. It was my fault for not checking it out with other sources, but since I know nothing about trees, I took my original source without dispute. I have learned a lesson for the future, and hopefully, my readers will be informed of the correct fertilization procedure at a future date.

P.S. It's sort of nice to know that the column is not read only by children!

Sincerely,
Ron Berthel 10-10-78

Hunt Institute for Botanical Documentation

25 September, 1978

The Editor
Centre Daily Times
3400 E. College Ave.
State College, PA 16801

N.B.

Not for publication

Dear Sir:

A recent edition of your paper (one day late last week) had two enormous botanical clangers. One was in the Junior Editors' Quiz about which I have written separately hoping that you will forward the letter. The other was a picture of your "unusual cactus" (see enclosed xerox). That plant is not a cactus in any way, shape or form. It is in fact no relation whatsoever to cactuses. The plant in question is a carrion flower (Stapelia sp.). You could check these things out with the Botany Department, particularly Dr. Carl Keener in Buckhout Building, any time you like. This is not nit-picking at all--this is a very important matter of accuracy. Thanks for reading. Watch your botanical accuracy!

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et
cc: Carl Keener
encl: xerox of article

P.S. I noted after dictating this letter that Dr. C. J. Hillson, Professor of Botany, has already picked you up on the carrion flower--so you see that a number of us read the CDT very critically.

Good Evening

Hunt Institute for Botanical Documentation

25 September, 1978

"Junior Editors' Quiz"
c/o Centre Daily Times
3400 E. College Ave.
State College, PA 16801

Dear friends:

I always read your little quizzes with greatiinterest. In fact, years ago my son, now a doctor, won a set of encyclopedias for his question! Usually you are very accurate scientifically speaking, but you really blew your answer to "What are conifers?" I enclose a xerox copy of the item in question. The process of fertilization is explained entirely incorrectly, and will unfortunately perpetrate some of the misinformation around about conifers. Pollination of the female cone takes place while the cone is on the "parent plant". The mature seed is sometimes not produced within even a year, but that's not the important point. The pollen, by the way, is even more interesting than the seed from my point of view as a palynologist! Pollen of some conifers such as pine can get into the upper atmosphere and circle the globe several times. It is frequently found in sediment on the mid-Atlantic ridge!

I suggest you get some botanist to write you a correction for that dumb statement that pollen drops to the ground and adheres to the seeds, etc.!

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et
encl: xerox of article

Hunt Institute for Botanical Documentation

Junior Editors' Quiz on TREES

QUESTION: What are conifers?

ANSWER: Trees that have cones and bear evergreen leaves or needles are called conifers. Conifers are found in nearly all parts of the world, usually in temperate climates. They make up about one-third of the world's forest.

Conifers are important commercially and have been so for thousands of years. Their wood offers an excellent combination of light weight and strength. They have long been used for fuel and for building timber, and have long been become the chief source of wood pulp. Resins which flow through conifers are used in manufacturing turpentine and similar products.

Conifers regenerate by means of the separate male and female cones the trees bear. Pollen from the male cone drops to the ground and adheres to seeds which the female cone has dropped. The male pollen grows a tube which fertilizes the female seed. The time this remarkable procedure takes varies from a few weeks to over a year.

Among the most familiar members of the conifer family are the pine and spruce, which are often used as Christmas trees, and the giant redwoods found in the Pacific Northwest.

(Tony Bentley of Waterloo, N.Y., wins a prize for this question. You can win $10 cash plus AP's handsome World Yearbook if your question, mailed on a postcard to Junior Editors, in care of this newspaper, is selected for a prize.)

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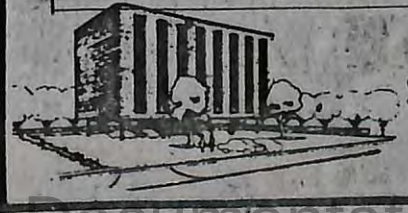

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13

NO!

Hunt Institute for Botanical Documentation

(For publication, if possible)

809 Cornwall Drive
State College, Pa. 16801

16 Jan., 1973

The Editor
Centre Daily Times
State College, Pa. 16801

Dear Sir:

While going through a stack of CDTs on return from a recent trip I was somewhat startled to read Preston Hammer's inexplicably harsh attack on Harvard and certain other universities--mostly on Harvard. What prompted Dr. Hammer's letter is unclear. The gist of the letter seems to be that Penn State has nothing to learn about academic excellence from Harvard. This is whimsy. As whimsy, the attack would perhaps best be ignored, but on the small chance that somebody in the CDT distribution area might change his educational plans because of it, I would like to respond briefly, as the local representative of Harvard's admissions and scholarship committee.

There are gross errors in the Hammer letter. The letter faults Harvard for not having a college of agriculture. He does not note that Harvard has a number of other practically oriented schools, such as the Law School, the School of Business Administration, the J.F. Kennedy School of Government, the School of Public Health, the School of Design, and others, which are perhaps as pertinent to the needs of this largely urban society. These schools have produced thousands of leaders for this country. Besides, it isn't really true that Harvard has no work in agriculture, though the number of people involved is small. The Arnold Arboretum and the Bussey Institution, for example, have made contributions to agriculture known throughout the world and vital to America. Hybrid corn was originally developed partly at Bussey and partly by Bussey graduates elsewhere.

Hammer states that Harvard is "negligible" in the field of education, but I believe the school of education at Harvard produces its share of doctor's and master's degrees for working teachers in many parts of the country. He also says that Ivy League universities have made little contribution to the education of women--by implication including Harvard. Surely Hammer must have heard of Radcliffe College, an integral part of Harvard University for close to a century. Radcliffe has educated Gertrude Stein, Helen Keller, and a host of other noted women down to President Nixon's economic adviser, Marina von N. Whitman.

Dr. Hammer says that Harvard's educational procedures are disastrous and biased. He doesn't make it clear what he is talking about--perhaps abolition of spring practice in football? The proof of the pudding is in the eating. Harvard is only a fraction as large as the average state university--yet check the number of Harvard men and women graduates who are productive members of society as measured by any reasonable standard. That is what counts.

Yours very truly,

Alfred Traverse

Hunt Institute for Botanical Documentation

March 7, 1969

The Editor
Letters to the Editor Section
The Centre Daily Times
119 South Fraser Street
State College, Pennsylvania 16801

Dear Sir:

We are deeply concerned about the direction which many university matters have begun to take recently, here at The Pennsylvania State University. We therefore wish to place our ideas before the university community, in order to encourage the emergence of views alternative to the disruptive ones expressed so vigorously in the past weeks. We are appalled at the incipient development here of an atmosphere of intellectual intimidation, as the result of actions taken by those loudly proclaiming themselves in favor of freedom of speech. The time has come for those concerned with the future of the university to speak out in favor of calm, rational, and orderly consideration of intellectual issues.

At the center of the campus controversies today is the basic issue of the purpose or function of universities in general. Certainly, a major part of their function is to provide young adults with an education, by furnishing the proper facilities and atmosphere for the students to learn and consider--calmly and rationally--the great variety of ideas which have been and are now important in human activities. Equally certainly, another major part of their function is to provide an open forum for the free and rational consideration--unimpeded by any form of sociopolitical pressure (regardless of the legitimacy or illegitimacy of the sources of pressure)--of ideas potentially relevant to the betterment of human activities. Obviously, therefore, fulfillment of a university's function depends upon quiet, rational, and thorough examination of ideas and their possible ramifications; the strong tradition of responsible academic freedom which has accompanied significant scholarly attainments has grown up in parallel with successful achievement of that ideal. No one, judging from the numerous pronouncements made on this matter, seems to disagree seriously with this definition of a university's functions.

Hunt Institute for Botanical Documentation

March 7, 1969

The Editor
Faculty Forum or
Letters to the Editor Section
The Daily Collegian
20 Sackett Building
University Park, Pennsylvania 16802

Dear Sir:

We are deeply concerned about the direction which many university matters have begun to take recently, here at The Pennsylvania State University. We therefore wish to place our ideas before the university community, in order to encourage the emergence of views alternative to the disruptive ones expressed so vigorously in the past weeks. We are appalled at the incipient development here of an atmosphere of intellectual intimidation, as the result of actions taken by those loudly proclaiming themselves in favor of freedom of speech. The time has come for those concerned with the future of the university to speak out in favor of calm, rational, and orderly consideration of intellectual issues.

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Hunt Institute for Botanical Documentation

March 4, 1969

AN OPEN LETTER TO THE UNIVERSITY FACULTY SENATE:

We are deeply concerned about the direction which many university matters have begun to take recently, here at The Pennsylvania State University. We therefore wish to place our ideas before the university community, in order to encourage the emergence of views alternative to the disruptive ones expressed so vigorously in the past weeks. We are appalled at the incipient development here of an atmosphere of intellectual intimidation, as the result of actions taken by those loudly proclaiming themselves in favor of freedom of speech. The time has come for those concerned with the future of the university to speak out in favor of calm, rational, and orderly consideration of intellectual issues.

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Hunt Institute for Botanical Documentation

In recent months, we have seen the great growth of student-faculty protest movements which utilize tactics of disruptive action to force particular views or behavior upon their colleagues, in the ostensible cause of "academic freedom" or "freedom of speech." Reference to the generally accepted concept of what a university should provide betrays the hypocrisy of these movements, a hypocrisy which is undoubtedly in the long run worse than that of the "establishment" which they are allegedly trying to improve. It is obvious that (as many activist leaders themselves have openly stated) the real and only issue involved is whether the university shall continue to serve society as a place in which to examine ideas dispassionately and freely, or whether the university as an intellectual community will be destroyed. How can blocking university facilities, shouting down speakers with opposing views, presenting "non-negotiable demands," and possibly intimidating non-activist students and faculty contribute in any constructive way to fulfilling the purpose of the university? The answer is obvious--they cannot! "Free speech" seemingly means freedom for activists to agitate, but not freedom for opponents to react in order to preserve a free forum in which many alternative views can be expressed without intimidation.

Most students and faculty do <u>not</u> come to the university to participate in socio-political activist groups, but to learn. Such persons do not want their learning (whether in formal courses as a student, or in research activities as an investigator) disrupted, nor their educational opportunities destroyed. We believe that the disruptive climate engendered by the activist protestors very seriously threatens the rights of these people to freely pursue their intellectual concerns. In this country, we have been concerned with the rights of <u>all</u> people; in the present climate, the rights of many people are more critically endangered than are the equivalent rights of a few dissenters. History has too often shown that abridgment of or infringement on the intellectual rights of some persons (whether a minority or--as in this case--a majority) leads to curtailment of the intellectual rights of <u>all</u> people.

Hunt Institute for Botanical Documentation

We appeal, therefore, to the many hitherto silent students and faculty to stand up for their rights and make themselves heard in the current debate. To date, many students have not become involved because they are too busy trying to gain an education in spite of the disruption around them; we hope that those students will recognize the seriousness of the current situation and will form an effective antidote to the disease of disruptive activism threatening to destroy the university. We hope, moreover, that such students will receive the encouragement of responsible faculty members who share their views.

We also urge the university's administration to take a much firmer stand against those students and faculty trying to suppress free pursuit of learning by attempted disruption of university activities. The main responsibility of the administration in this situation is to permit as many students and faculty as possible to pursue educational objectives here, by taking whatever action is necessary to prevent thwarting of the legitimate goals of the many by the disruptive activities of the few, even if such action includes the complete and forcible severance of those disruptive few from the university. If humanity is to progress, we cannot permit the destruction of the educational opportunities of many people in order to satisfy the unreasonable demands of a few who are dissatisfied because those educational opportunities--like everything else in life--are not perfect. Issues like the free-speech-and-obscenity issue (already decided long ago by due legal process) should not be allowed to be expanded out of all proportion to the basic issue of continued existence of the university; the fallacious abuse and misuse of academic freedom to permit irresponsible activities should be recognized and treated for what it is. Students and faculty will have to live and move within society in order to improve it eventually by correcting real (not imagined) grievances. The university should not be overly protective of students who (intentionally) transgress society's standards; otherwise, those students will be unprepared for any productive role in that society. Obviously, society has correctable faults; however, influencing legislators--rather than university presidents--has proven the more effective way to achieve sociopolitical improvements.

Hunt Institute for Botanical Documentation

In conclusion, we emphasize that universities in general are not perfect and can be legitimately improved in various ways. However, some individuals have attempted to disrupt the normal intellectual activities of the university by actual or threatened action or intimidation. We believe that the main functions of this--or any--university cannot be fulfilled until this type of pressure is removed from the scene. Consequently, we urge all concerned with university affairs--students, faculty, and administrators--to join in repudiating disruptive activism as a legitimate means of influencing intellectual questions, and to resoundingly affirm the role of the university as a free forum for the calm and rational consideration of intellectual issues.

Sincerely yours,

Roger J. Cuffey
Roger J. Cuffey
Department of Geology and Geophysics

David P. Gold
David P. Gold
Department of Geology and Geophysics

Shelton S. Alexander
Shelton S. Alexander
Department of Geology and Geophysics

Russell R. Dutcher
Russell R. Dutcher
Department of Geology and Geophysics

H. Reginald Hardy, Jr.
H. Reginald Hardy, Jr.
Department of Mining

Robert Stefanko
Robert Stefanko
Department of Mining

Alfred Traverse
Alfred Traverse
Department of Geology and Geophysics

Hunt Institute for Botanical Documentation

file

26 January, 1981

Ceskoslovenska akademie von Ustav geologie a geotechniky
Praha 8 - Liben, V Holesovickach 41
Czechoslovakia

Dear Colleagues:

I am spending most of this academic year in Switzerland as a visiting professor here at the Swiss Federal Technical Institute, Zürich. Several of my professional colleagues are located in Prague, and my wife (who is also my technical assistant) and I would like very much to visit them to discuss problems of mutual interest. The people inqquestion are Dr. Blanka Pacltová (Paleont. Inst., Karls Univ.), Dr. Milada Kalibová-Kaiserová (State Geological Survey), and Dr. Magda Konzalová of your institute.

We would like to come (by train) on Monday, 9 March. We would stay two full days, returning to Zürich on Thursday, 12 March. Please inform as soon as possible what further steps I need to take to secure official approval for such a visit.

Thank you for your help.

Yours very truly,

Alfred Traverse
Visiting Professor

AT/ett

Hunt Institute for Botanical Documentation

Dr. Alfred Traverse
PenneState University
University Park Penna.

Feb. 8, 1974

Dear Dr.Traverse:

Thanks for your understanding my necessity to have financial support partially determine my re-location. The possibility of outside support which I might have mentioned, at the moment seems rather dim. This is partially due to Dr. Cramer's preoccupation with his efforts to secure some measure of justice from this department and university. His time and much of mine is currently tied up indirectly or directly in the above process, and the time necessary for grant organizing is simply not available. Positive interference is also run against Dr. Cramer's efforts to secure support on behalf of his students.

I know that Dr. Cramer appreciates your concern about his situation here, and he will ~~have~~ call when he has a moment free from this nightmarish task here.

Best wishes from all of us here. Hope we will soon be able to be writing of more pleasant circumstances and palynology.

Sincerely yours,
Mike Chaiffetz

Hunt Institute for Botanical Documentation

Department of Geology
The Florida State University
Tallahassee, Florida 32306

January 14, 1974

Dr. A. Traverse
Palynological Laboratories
529 Deike Bldg.
Penn State University
University Park, Penna.

Dear Dr. Traverse:

Very good to hear from you! I'm sorry my mail took so long to reach you. It was mailed just before Christmas, I believe.

Dr. Cramer has just returned from Europe, and I will soon discuss my plans with him. Many of the projects I am interested in continuing are ones we have worked on together. Thus, you see it is vital I talk with him first before I can tell you of my specific interests and plans.

It is possible that I will be able to find support for myself, and that it will be connected with a palynological study of recent coastal lagoonal sediments from this area. I hope that no matter how my relocation works out, I will be able to have your assistance and advice on this project. At the moment, I feel that it (the project) is more certain than my location for the next school year.

As you can see from my assorted records, I am what the education people term an erratic student. I hope the admissions office at Penn State will feel that I'm doctoral program material.

Can you possibly tell me the something of the school employment situation at University Park? The financial problem may be partially alleviated if my wife, who has a B. Ed. in Elementary and Early Childhood Education, can find work. In an essentially university town such as Tallahassee, it is very difficult to find such a job. All the student and faculty wives are looking for one. I'd expect University Park to be likewise.....correct?

I'll be writing again soon, when I've a better idea of my position and plans. Thank you very much for your consideration and help.

Sincerely,

Mike

Mike Chaiffetz

Hunt Institute for Botanical Documentation

January 8, 1974

Mr. Michael S. Chaiffetz
Department of Geology
Florida State University
Tallahassee, Florida 32306

Dear Mike:

Thanks for yours of 19 December, which unbelievably just arrived. I was not too surprised by the contents of the letter, having discussed the matter earlier with you over the phone. I have asked the people in our graduate admissions office to send you all of the appropriate forms, etc., for application, and we would be glad to consider an application from you for transfer into our program in palynology. However, I can make absolutely no guarantee at all regarding support, and we would just have to see what happened in that area. I am continually trying to get National Science Foundation and other support for graduate students here, and there is always some teaching, but I simply can't make any guarantee at this point.

Best wishes to you in your efforts to get relocated, and my sympathy for what must be a difficult situation for you all.

Yours very truly,

Alfred Traverse
Professor of Geology & Biology

AT/vsi
cc Ms. G. Pringle

Hunt Institute for Botanical Documentation

Department of Geology
The Florida State University
Tallahassee, Florida 32306

December 19, 1973

Dr. Alfred Traverse
529 Deike Building
Penn State University
University Park, Penna.

Dear Dr. Traverse:

Hope all is well at Penn State, and that you are enjoying a pleasant holiday season.

Here at Florida State there are difficulties of a magnitude which has caused Dr. Cramer-Diez recommend that his students, myself included, go elsewhere to pursue their degree programs. I have enclosed a copy of a letter from Dr. Cramer-Diez to myself to that effect, with references to the situation here deleted. I think it best for me to have Dr. Cramer relate that information.

Please find enclosed xerox copies of all records I have so far been able to locate. I will be writing a detailed description of my current work, interests, plans, aspirations, etc. very soon. Will you please then let me know if I would be acceptable to you, your department, and the graduate school as a graduate student pursuing a doctorate in geology, and particularly if you would be interested in supervising my work which may be somewhat at odds to your current interests in palynology.

I would also appreciate knowing of what the student support situation might be for the Fall semester 1974. I would be unable to continue school without some financial assistance, and am at the moment following all leads on possible "outside" support.

Dr. Cramer-Diez has recommended you as a first choice, but he doesn't have to tell me that I would gain very much from your instruction and supervision.

Thank you very much for your consideration.

Sincerely yours,

Michael S. Chaiffetz

Michael S. Chaiffetz

Hunt Institute for Botanical Documentation

Department of Geology

The Florida State University
Tallahassee, Florida 32306

Dec. 4, 1973

Mr. Michael S. Chaiffetz:

2. Although it pains me to say so, I cannot, therefore, in good conscience take on the supervision of the research leading to your Ph. D.

3. If you intend to continue in palynology, I, with great regrets, must strongly support that you immediatly apply to another university with an environment that is more conducive to palynological research. I will give you a list of such places.

4. On account of your past outstanding work, I trust that you will find no difficulties to relocate.

5. I am sorry that your career has been harmed in the process.

Sincerely yours,

Fritz H. Cramer-Diez, Associate Professor

Hunt Institute for Botanical Documentation

12 September, 1978

Dr. A. Chandrasekharam
#2505, 1135 - 83rd Ave.
Edmonton, Alberta, Canada
T6G 2C6

Dear Dr. Chandrasekharam:

Thank you for your prospectus, etc., mailed to me on 31 August. I do not intentionally take candidates at the present time for Masters Degrees, only for doctorates, and besides I believe that it would be difficult to get you admitted to our program since you already have a Ph.D. I can understand your discouragement at the lack of positions in megafossil paleobotany, but can only suggest that you keep trying. Surely there is a university somewhere who would hire you for their botany program and provide you with the possibility of doing paleobotany in your research time.

Best wishes to you.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

August 31, 1978

Dr. A. Chandrasekharam
#2505, 11135 - 83rd Avenue
Edmonton, Alberta, Canada.
T6G 2C6

Dr. Alfred Traverse
529, Deike Building
Pennsylvania State University
University Park, PA 16802
U. S. A.

Dear Dr. Traverse:

I am writing this regarding the possibility of obtaining a Master's degree in stratigraphic palynology in your lab. I received my Ph.D degree in paleobotany under the supervision of Dr. Wilson N. Stewart, professor of botany, University of Alberta, Canada in 1972. The subject matter of my thesis was an analysis of a megafossil flora of Paleocene age. Ever since I completed my graduate studies my attempts at finding suitable employment in my field have been unsuccessful. The only area in Cretaceous-Tertiary paleobotany in which employment opportunities exist now is in applied palynology related to coal and oil industries. Employers in these industries do not consider applicants trained in paleobotany without specialization in palynology. These reasons prompted me to write to you regarding the possibility of taking up a Master's program with specialization in palynology. My thesis work was published in reputed journals like Science, Palaeontographica and Canadian Journal of Botany. I am attaching a brief résumé of my academic career to give you an idea of my background.

I'd appreciate hearing from you in this regard. Thank you.

Yours sincerely,

A. Chandrasekharam

Hunt Institute for Botanical Documentation

17 March, 1980

Professor Chang King-Teng
Institute of Botany
Academia Sinica
141 Hsi Chih Men Wai Ta Chie
Peking, China

Dear Professor Chang:

It was so good of you to send me the two marvellous books, Chinese Angiosperm Pollen Morphology and Chinese Pteridophyte Plant Spore Morphology! Of course, if I could read Chinese, I would do even better, but with the index, the pictures, and some imagination, I have done quite well. Your paper, "The spore and pollen morphology...some plant groups", which came separately, is an interesting contribution to palynological taxonomy.

Thank you very much for thinking of me.

I am sending you a few reprints that may be of some interest--all I have at the moment.

Best wishes.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

as cover

Chang, L. C.

CURRICULUM VITAE OF LU CHIN CHANG family name

NAME: Lu Chin Chang (i.e. Lu Jin Zhang) (female)

DATE AND PLACE OF BIRTH: 20 March, 1932. Shanghai, China

NATIONALITY: The People's Republic of China

MARITAL STATUS: married, three childen

EDUCATION:

1950-1953 Department of Geology, National Nanjing University, Nanjing , China and graduated from the Nanjing University in 1953

1953-1955 Department of Foreign Languages, National Nanjing University, Nanjing, China (advanced study of German)

1955-1956 National Beijing University of Russian Languages,Beijing, China (advanced study of Russian)

1956-1957 Department of Geology, Moscow University, Moscow, USSR (advanced study of palynology)

PRESENT POSITION: Professor, Nanjing Institute of Geology and Palaeontology, Academia Sinica

ADDRESS: Nanjing Institute of Geology and Palaeontology, Academia Sinica, Chi-Ming-Ssu, Nanjing, P.O.Box: 210008, People's Republic of China

EXPERIENCE:

1953-1963 Assistant Researcher, Nanjing Institute of Geology and Palaeontology, Academia Sinica

1963-1980 Associate researcher, Nanjing Institute of Geology and Palaeontology, Academia Sinica

1980-1986 Associate Professor, Nanjing Institute of Geology and Palaeontology, Academia Sinica

1986-present Full Professor, Nanjing Institute of Geology and Palaeontology, Academia Sinica

1973-1984 In charge of the 1st section of the Institute of Geology and Palaeontology, Academia Sinica

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1984-present Member of the Palaeontological Committee of the All-China Committee for Determination of Terminology in Natural Sciences

PROFESSIONAL ACTIVITIES:

1959-1960 In charge of the research project "Cretaceous-Tertiary Spores and Pollen in Jiangsu Province"

1961-1962 In charge of the research project "Jurassic Spores and Pollen in Henan Province"

1962-1963 Member of the research project "Jurassic-Cretaceous Boundary in Zhejiang Province"

1963-1965 Chief member of the research project "Mesozoic Palynostratigraphical Study in Northeastern China"

1965-1966 Chief member of the research project "Mesozoic Biostratigraphical Study in Sichuan Province", entrusted by the Sichuan Petroleum Administration of China

1973-1976 In charge of the research project "Mesozoic Palynostratigraphical study in Provinces Shanxi, Gansu and Ningxia (i.e. Ordas Basin)",entrusted by the Bereau of Changqing Oil-field and the Chinese Academy of Sciences

1979-1989 In charge of the research project "Late Palaeozoic and Mesozoic Palynostratigraphical Study and Their Application to the Exploration of energy resources in Xinjiang Province" , entrusted by the Karamay Academy of the Xinjiang Petroleum Administration of China; the Company of Xinjiang Coal-field Geological Exploration of China and the Chinese Academy of Sciences

1980-present In charge of the research project "Triassic and Jurassic Palynostratigraphic Study with Application to Solution of Some Difficult Problems in Division and Correlation of Gas- and Oil-bearing Strata in Sichuan Province", entrusted by the Sichuan Petroleum Administration of China.

OTHER PROFESSIONAL ACTIVITIES:

1. Visit to British Geological Survey and the Royal Society of England, 1985

2. Attend the "International Symposium of Paleozoic Biogeography and Paleogeography",Oxford, England, 1988

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SOCIETY AFFILIATIONS:

1. Palynological Society of China
2. Geological Society of China
3. Geological Society of Jiangsu Province
4. Palaeontological Society of China
5. Palaeontological Society of Jiangsu Province
6. International Palynological Society
7. Commission Internationale de Microflore du Paleozoique
8. American Association of Stratigraphic Palynologists

RESEARCH INTERESTS:

1. Late Palaeozoic and Mesozoic palynostratigraphy
2. Late Palaeozoic and Early Mesozoic biogeography
3. Application of palynostratigraphy to the exploration of energy resources
4. Late Palaeozoic and Early Mesozoic geology and tectonics

TITLES OF LECTURE FOR POSSIBLE PRESENTATIONS:

1. Aspects of palynological study in China
2. Late Palaeozoic spores and pollen in China
3. Mesozoic spores and pollen in China
4. New contributions and experiences of palynostratigraphy to the exploration of energy resources in western China
5. New results of chronology and stratigraphy in Xinjiang, China
6. Probe of palynostratigraphy and phytogeography into the paleogeography and paleocontinental plates

MAIN PUBLICATIONS:

1. 1984. Late Triassic Spores and Pollen from Central Sichuan. Palaeontologia Sinica (Monograph), New Series A, No.8, Whole No.167, PP. 1-100. Science Press, Beijing, (In Chinese with English abstract)

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2. 1955. An additional specimen of forked frond of Protoblechnum wongii Halle. Acta Palaeontologica Sinica. Vol. 3, No.3, PP.167-171. Science Press,Beijing. (In Chinese with English abstract) (with T.Y.Chou and S.J.Chang)

3. 1963. Nomenclature and Distribution of Several Mesozoic Gymnospermous pollen. Acta Palaeontologica Sinica, Vol. 11, No.3, PP.443-442. Sience Press,Beijing. (In Chinese with Russian abstract) (Reprinted in "Catalog of Fossil Spores and Pollen",1969, Vol.31, published by Pennsylvania State University, USA, Editors: A. Traverse, H.T. Ames and W.Spackman)

4. 1965. Pollen Assemblages and Their Significance in Yima Coal-bearing Series from Mianchi,Honan Province of China. Ibid., Vol.13, No.1, PP.160-196. In Chinese with English abstract).(Reprinted ibid., Vol.26, 1967)

5. 1965 Spore-Pollen analysis (book), Science Press, Beijing. (In Chinese) (with Z.C.Song et al.)

6. 1978. Mesozoic Spores and Pollen Grains from the Volcanic Sedimentary Rocks in Zhejiang Province, with Their Stratigraphic Significance. Acta Palaeontologica Sinica, Vol.17, No.2, PP.180-194. Science Press, Beijing. (In Chinese with English abstract)

7. 1979. Relationship of the Triassic Spores and Pollen between Central Sichuan, China and Europe. Paper for 12th Annual Conference and 3rd National Congress of the Palaeontological Society of China, held in Suchou. (In Chinese with English abstract)

8. 1980. Late Triassic Spores and Pollen from Regions to the North and South of Qinling Range. Paper for the 5th International Palynological Conference. (In English)

9. 1980. Palynological Contribution to the Chronology and Stratigraphy of Xinjiang (Part 1), Ibid. (In English)

10. 1980. Study on the Late Mesozoic Continental Strata in Yanbian Region of Eastern Jilin Province, China. Bulletin of Nanjing Institute of Geology and Palaeontology, Academia Sinica. No.1, PP.1-21. Science Press, Beijing. (In Chinese) (with Z.Y.Zhou et al.)

11. 1980. Study on the Late Mesozoic Continental Strata in Western Liaoning Province, China. Ibid., PP.22-55. (In Chinese) (with P.J.Chen et al.)

12. 1982. On the Age and Botanical Characters of Urho Group in Karamay Region of Xinjiang,China. Paper for "Petroleum Academic Symposium", held in Karamay.(In Chinese)

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13. 1982. The Botanical Characters of Badaowan Palynological assemblage in Junggar Basin of Xinjiang, China. Paper for "Petroleum Academic Symposium", held in Karamay of Xinjiang,China. (In Chinese)

14. 1983. On the Age of Badaowan Formation in Northern Xinjiang. Scientia Sinica, Series B, Chinese edition, No.4, PP.366-374; English edition, Vol.26, No.7, PP. 774-784. Science Press, Beijing.

15. A Discussion of Palynological Characters and Geological Age of Several New Localities in Eastern Heilongjiang Province. Middle-Jurassic and Cretaceous Fossils in Eastern Heilongjiang Province, China (Monograph). PP.51-72. Heilongjiang Science and Technology Press. (In Chinese with English abstract)

16. 1983. On the Characters of the Permian Microflora in the Junggar Basin of Xinjiang. Palaeontologia Cathayana, Vol.1, PP.327-367. Science Press, Beijing. (In English)

17. 1983. On the Age and Sequence of Main Oil-bearing Strata (Carboniferous-Permian) of Northern Xinjiang. Paper for "Petroleum Academic Symposium",held in Karamay of Xinjiang, China (In Chinese)

18. 1984. Subdivision and Comparison of Early Mesozoic Oil-bearing Strata in Sichuan, China. Paper for 13th Annual Conference of the Palaeontological Society of China, held in Shaoxing,China. (In Chinese)

19. 1984.The Application of Palynostratigraphy and Its Effectiveness. Selected Papers from the Symposium of Palaeontological Society of Jiangsu, China. PP.18-19.(In Chinese)

20. 1986. The Application of Palynostratigraphy to the Prospecting of Energy Resources in Sichuan, China. Palaeontologia Cathayana. Vol.3, PP.317-365. Science Press, Beijing. (In English)

21. 1987. On the Classification and Nomenclature of Mesozoic Spores and Pollen. Palaeontologia Cathayana. Vol.4, PP.435-437. Science Press, Beijing. (In English)

22. 1988. The Relation between the Late Palaeozoic Palynofloras of Northern and Southern Continents. Handbook of "International Symposium on Circum-Mediterranean Palynology", held in Zeist, The Netherlands.(In English)

23. 1988. The Relationship of the Permian Palynofloras between the Northern and Southern Continents. "International Palaeozoic Biogeography and Palaeogeography Symposium". Oxford, England. (In English)

Hunt Institute for Botanical Documentation

24. 1990. Permian Spores and Pollen from Karamay Region of Xinjing,China. Palaeontologia Cathayana. Vol.5, PP.181-204. Science Press, Beijing. (In English)

HONORS AND AWARDS:

My biography have been officially placed on record as below:

1. "Who's Who of Chinese Women". PP.577-578. Cathaysian Press, Beijing. 1988.

2. "Who's Who in Earth Scientists of the Chinese Academy of Sciences". PP.551-552. Science and Technology Press of Kansu, China. 1990.

3. "Who's Who of Scientists of the Chinese Academy of Sciences". PP.835-836. Science Press, Beijing. 1990.

4. Brief Introduction of the Full Professors, Awarded by the Chinese Academy of Sciences in 1986 for the First Batch of Middle-aged women Scientists. News Paper of Sciences. Science Press of Beijing. 8th March, 1988.

5. A prize for my scientific research in Xinjiang, awarded by the Xinjiang Petroleum Administration of China. 1983.

6. An officially appreciation was given by the Sichuan Petroleum Administration of China for my achievements in Palynostratigraphic research and outstanding contribution to solution of difficult problems for oil and gas exploration in Sichuan province. 1992.

Hunt Institute for Botanical Documentation

June 2, 1970

Miss Joan Zimmerman
Assistant Editor
Chemistry
1155 16th St. N.W.
Washington, D.C. 20036

file

Dear Miss Zimmerman:

Enclosed are the pictures you requested. I have numbered them as if they were on a plate in a palynological publication.

The pictures are as follows: (Magnification is 1000x in all cases.)

1. Pinus heterophylla = pine. Pine has large grains with bladders, which decrease the specific gravity and enable pine pollen to float well in air and water.

2. Ulmus serotina = elm. A polar view showing the ridged surface and the four pores, one, at six o'clock, showing face-up.

3. Fagus silvatica = beech. Polar view of three furrowed grain.

4. Another view of beech pollen, as above, to illustrate that pollen grains do not look the same from different directions. This one is an equatorial view.

5. Quercus alba = oak. Oak is in the same family as beech, and the pollen grains show the relationship--another somewhat warty, three furrowed type. This is an equatorial view, as no. 4.

6. Alnus incana = alder. Polar view of a smooth, four-pored pollen grain with thickened bands of wall material connectigg the pores.

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The Latin names should be used, as well as the English names, as above. Another note--the term "pollen spores", per your letter, is incorrect. Pollen are pollen and spores are spores (the latter are produced by ferns, for example). Also note that "pollen" is a collective plural only. The singular is "pollen grain".

Hope this is what you wanted. Don't bother to return.

Yours very truly,

Alfred Traverse
Professor of Geology & Biology

AT:kc

Enclosure: photographs

Hunt Institute for Botanical Documentation

Photos for "Chemistry"

(Polaroid)

1-VI-70 all × 1000

Pinus heterophylla

TR 355

(w. slide upside-down)

36.0 × 115.0

Ulmus serotina

TR 517

42.3 × 115.2

Fagus silvatica

TRI-868

several views to illustrate diff. of aspect

1. 47.0 × 114.7

2. 50° × 110.5 equatorial

+

Juniperus alba

31.7 × 115.4

-

Alnus incana

34.8 × 112.0

Hunt Institute for Botanical Documentation

3 March, 1981

Charles University
Faculty of Nat. Science
Albertov 6
12800 Praha 2
Czechoslovakia

Dear Sirs:

As you can see from the enclosed, I have been granted permission to visit the palynological laboratories of the Czechoslovak Academy of Sciences, during the period 9-11 March.

Although Dr. B. Pacltová of your University knows of my visit from correspondence, I had not realized that I needed to get separate permission to visit Dr. Pacltová.

There is not time for a return letter from you, but perhaps if you are agreeable, you could inform Dr. Pacltová that my visit is approved, and she can inform Dr. Konzalová, who is integrating my visit.

Yours very truly,

Alfred Traverse
Visiting Professor

AT/et
cc: Dr. Konzalová
Dr. Pacltová
enclosure: xerox of permission letter from C.A.S.

Hunt Institute for Botanical Documentation

April 14, 1969

Dr. Richard Charmatz
American Museum of Natural History
79th Street at Central Park West
New York, New York 10024

Dear Dick:

The conference on information processing previously set up for 29-30 April has been moved to 15-16 May, as we have discussed by phone. We are expecting that you will arrive sometime on Thursday, 15 May. We will all have dinner together somewhere that evening. The conference-proper will be held Friday morning in the palynological laboratories of Penn State. We can continue over into the afternoon and evening, if desired. You hold a reservation at the Nittany Lion Inn for Thursday and Friday nights, 15-16 May. Spackman, Sanders and I look forward to seeing you.

Yours very truly,

Alfred Traverse
Associate Professor of Geology
and Botany

AT:kwc

cc: R.B. Sanders
W. Spackman

Hunt Institute for Botanical Documentation

La France d'après les données du satellite U.S. NOAA7.
Date : 15 avril 1983 - Résolution : 1 km^2 - Altitude : 900 km.
Distribution par le centre de la météorologie nationale de Lannion.
Pré-traitement par le centre national d'études spatiales de Toulouse.
Traitement par le centre de télédétection du BRGM d'Orléans-La Source.

Many thanks for your wishes.

Happy New year for you and your Colleges of A. Traverse Laboratory

De la part et avec les compliments de Chateauneuf J.J

Sincerely yours

Département carte géologique
et géologie générale
division télédétection

Bureau de Recherches Géologiques et Minières
TÉL. (38) 63.80.01 - TÉLEX BRGM A 780258 F
B.P. 6009 - 45060 ORLÉANS CEDEX
FRANCE

Hunt Institute for Botanical Documentation

December 17, 1969

Biól. Rodolfo Palacios Chávez
Instituto Politecnico Nacional
Escuela Nacional de Ciencias Biologicias
México 17, D.F., Mexico

Dear Sir:

Thank you for your nice letter of 10 October, and I'm sorry it has taken so long to answer it. With regard to exchange of pollen slides, I can only honestly say that I don't have the technical assistance at the moment to make slides for exchange. Perhaps this situation will improve in the future.

I very much appreciate your invitation for us to visit Mexico, and I hope that it can be accomplished some day.

Best wishes to you for the holiday and for a happy 1970.

Yours very truly,

Alfred Traverse
Associate Professor of Geology
and Biology

AT:kc

Hunt Institute for Botanical Documentation

INSTITUTO POLITECNICO NACIONAL

ESCUELA NACIONAL DE CIENCIAS BIOLOGICAS

SECRETARIA
DE
EDUCACION PUBLICA

DEPARTAMENTO DE BOTANICA

MÉXICO 17, D.F. 10 de Octubre de 1969

Dr. Alfred Traverse
Associate Professor of Geology and
Biology
Catalog of fossil Spores and pollen
Deike Building
The Pennsylvania State University
University Park, Pennsylvania

Dear Dr. Traverse:

I take the pleasure in informing you that I have received some reprints of your available papers on Palynology.

I am very grateful for its, too I would like know if you are interested to interchange slides of acetolyzed pollen. Awaiting your reply I remain very truly yours.

If you and your wife come to México will be welcome in this City.

Biol. Rodolfo Palacios Chávez

Hunt Institute for Botanical Documentation

THE BOTANICAL SOCIETY OF AMERICA, INC.
OFFICE OF THE PRESIDENT

File
Cheadle

August 2, 1961

Dr. Alfred Traverse
Shell Development Company
P. O. Box 481
Houston 1, Texas

Dear Al:

I am happy that you will serve as a member of the "thinking" group. Bill Jensen will be getting in touch with you. I have heard about the restiveness of some members of the paleobotanical section and hope that their judgment will not prevail as far as formation of another society is concerned. It seems to me that we need to take whatever action seems desirable to keep all members of the Society as contented as possible without destroying the Society itself. In the past few years the Paleobotanical Section has been an excellent example of the importance of Sections within the Society and what these Sections can do to maintain interest. And I know you have had a significant part in this.

Many thanks for your interest.

Sincerely,

Vernon

Vernon I. Cheadle
Botany Department
University of California, Davis

VIC:br

cc: Dr. W. G. Jensen
Dr. B. L. Turner

AIRMAIL

Hunt Institute for Botanical Documentation

July 28, 1961

Dr. V. I. Cheadle
Botany Department
University of California
Davis, California

Dear Vernon:

Sorry to be a little late answering yours of July 10, 1961. We have been on vacation.

Regarding the committee--of course, I am willing to help in whatever way would be helpful to the Society. I guess my "devotion" to the Paleobotanical Section is well known by now. It follows that the parent society must be in good shape if the Section is to remain in its present healthy condition, as a Section. There are those, as you may have heard, who wish to lead the Section (or at least a large part of it) into the wilderness of independent minor societies.

Yours very truly,

AT

Alfred Traverse, Chairman
Paleobotanical Section
Botanical Society of America

AT:mlb

bc: Technical Files

Information Copies:
Mr. Purcell's Binder
Dr. D. V. Higgs
Dr. A. Traverse

Shell Development Company
Exploration and Production Research Division

Hunt Institute for Botanical Documentation

THE BOTANICAL SOCIETY OF AMERICA, INC.

OFFICE OF THE PRESIDENT

July 10, 1961

Dr. Alfred Traverse
Shell Development Company
P. O. Box 481
Houston 1, Texas

Dear Dr. Traverse:

You may recall having had a little memorandum from me in May concerning some aspects of botany and of the Botanical Society of America. I am happy to announce that Dr. William A. Jensen of Berkeley will chair a committee to do a little thinking for us on how we might proceed in stirring up that dust mentioned in my memorandum. Would you serve on the committee with him? I realize that there is not much time left for the committee's work, but we are looking for ideas now and not a finished product. I know how much you have done for the Paleobotanical Section and you may have invaluable ideas about what might be done for the Society as a whole. Can I count on you? If so, I shall inform Bill Jensen at once and he can send you along some of the comments that were returned to me as a result of my memorandum.

Sincerely yours,

Vernon

V. I. Cheadle
Botany Department
University of California, Davis

VIC:br

cc: B. L. Turner

AIR MAIL

Hunt Institute for Botanical Documentation

July 21, 1970

Miss Joan Zimmerman
Assistant Editor
Chemistry Magazine
1155 16th Street, NW
Washington, D. C. 20036

Dear Miss Zimmerman:

Thank you very much for the reprint of the page from Chemistry containing the reproductions of the pollen photographs which I sent you. I think they came out very well indeed and apparently served your purposes well. Glad that we could be mutually of assistance!

Best wishes.

Yours very truly,

Alfred Traverse
Professor of Geology and Biology

AT/mrw

Hunt Institute for Botanical Documentation

CHEMISTRY

1155 SIXTEENTH STREET, N.W., WASHINGTON, D.C. 20036 202-737-3337
ONE OF THE AMERICAN CHEMICAL SOCIETY PUBLICATIONS

May 27, 1970

SPECIAL DELIVERY

Dr. Alfred Traverse
Department of Palynology
University of Pennsylvania
University Park, Pennsylvania 16802

Dear Dr. Traverse:

Confirming our telephone conversation, we would appreciate your sending us some black and white glossy prints of pollen spores to illustrate an article on pollen dating in the July-August issue of CHEMISTRY. We are particularly interested in having pine, elm, beech, oak, and alder, but please send substitutes if these are unavailable. Of course proper credit will be given and photos will be returned if you wish. To meet our deadline we would appreciate having them as soon as possible.

Thank you.

Sincerely,

Joan Zimmerman

(Miss) Joan Zimmerman
Assistant Editor

JZ/hlk

Hunt Institute for Botanical Documentation

From: cchbll@pub2ms.pku.edu.cn
Date: Thu, 24 Oct 1996 16:14:25 +0800 (bjt)
To: traverse@ems.psu.edu
Subject: Forwarded mail.... (fwd)

Chen, Baolu

Dear Mr.Traverse:
I am very interested in your study.Also my thesis is on the palynology of the Quaternary studies of the North China.I have great interest in my study.From the palyontology,I can deducethe enviroment and the climate. So I want to further my study in yourinesteemed university.Can you accept me as one of your students?The following is my brief introduction.

I am a senior in the Paleontoly Section of the Geology Department at Peking University,Beijing ,China.
Also,I am interested in pursuing my graduate studies at your esteemed institute toward Ph.D degree in Geology and related sciences.I am planning to apply a graduate program in your university for the entrance of the Fall Semester,1997.Could you let me know what is the necessities to do to become one of your students?Maybe you have known some Chinese students. They generlly diligent,persevent and creative.

I have been interested in nature for a long time.Owing to the strong interest in the wonderful world,I study hard and took a variety of observation and experiment activies,alway ranking first in the class of my elementary school and secondary school.

I began my undergraduate study in the Department of Geology at Peking University in Sept.1992.During the four years,I devoted myself to the mathematics,physics and computer courses and so on.I hope I would be able to build a solid foundation for my future research.My undergraduate was so successful and my GPA was the top 5% in my class.

That is my general introduction of myself.Thanks.
My addr:
Baolu Chen
31/412,Peking University
Beijing,100871
P.R.China
E-mail:cchbll@pub2ms.pku.edu.cn

Secerely Yours
Baolu Chen

Hunt Institute for Botanical Documentation

9 November, 1978

Dr. Peter W. Chen
12 Willow Drive
Englewood Cliffs, NJ 07632

Dear Dr. Chen:

Thank you so much for forwarding the paper from L. C. Chang at the Nanking Institute. The circumstances surrounding the exchange of the papers would be very interesting, but I do appreciate your kindness in being the courier!

Best wishes to you.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

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

21 March, 1990

Chen Song-bo
Department of Paleobotany
Hortus Botanicus Pekinensis
Instituti Botanici Academiae Sinicae
Xiangshan, Beijing, China 100093

Dear Mr. Chen:

Thanks for yours of 10 March 1990.

At this university, the individual professors do not admit new graduate students. You must apply, take GRE and TOEFL exams and compete with others for admission. I am asking the appropriate person in the department to see that you are sent materials in order to complete the application.

One problem is financial support. I have no funds for research assistantships at present, and our experience has been that most Chinese students are not sufficiently fluent in English to be able to teach (i.e., to secure a teaching assistantship), at least for the first year. Occasionally, the department can provide some support, if your credentials are impressive enough. Your training sounds good. I would be willing to supervise your work here if you are a successful applicant.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et
cc: L. Gruhn

Hunt Institute for Botanical Documentation

Chen Song-bo
Dept. of Paleobotany
中国科学院植物研究所
北京植物园
HORTUS BOTANICUS PEKINENSIS
INSTITUTI BOTANICI ACADEMIAE SINICAE
Xiangshan, Beijing, China 100093

10-3-1990

Dr. Alfred Traverse
Pennsylvania State University
Dept. of Geology and Geophysics
Deike Building
University Park, Pennsylvania 16802
U.S.A.

Dear Dr. Traverse

My name is Chen Song-bo. I am writing to you about the possibilition of a PH.D. degree's appointment in your Department. I am very interesting in Palynology. So I hope to get a chance for further studies and work under your direction. Mr. Elsik (Exxon Company) whom I once wrote to suggested that I write to you.

Enclosed please find a brief resume of my education, publication and reference.

I wish I could find words to express the importance of the above, for I know how much I could learn in your Dept.

Thank you for your consideration. I look forward to hearing from you soon.

With best wishes!

Yours sincerely

Chen Songbo 陈松波

Chen Song-bo

Hunt Institute for Botanical Documentation

Resume:

1. Name: Chen Song-bo
2. Sex: Male
3. Date of birth: May 10, 1963
4. Place of birth: Henan, China
5. Nationality: Chinese
6. Health: excellent

Education:

1980,9-1984,7: Fudan University, Shanghai, China
Department of Biology
Speciality: Botnay
Degree: B.A.

1984,9-1987,7: Institute of Botany, Academia Sinica, China
Department of Paleobotany
Degree: M.Sc.
Speciality: Palynology

Publication:

1. Study on Pollen Morphology of Artemisia L.
(to be published soon)
2. Study on Pollen Morphology of Some Genera of Trib. Anthemideae Cass.
(to be published soon)

My current work is mostly in studing on Pollen Flora of chinese Frigid and Dry Area.

Reference:

Chang King-tan, Prof. of Paleobotany Dept.
Institute of Botany, Academia Sinica, China.

Hunt Institute for Botanical Documentation

THE PENNSYLVANIA STATE UNIVERSITY
COLLEGE OF EARTH AND MINERAL SCIENCES
UNIVERSITY PARK, PENNSYLVANIA 16802

Department of Geosciences
435 Deike Building

Area Code 814
865-2342

July 23, 1981

Mr. Chen Yin-Shuo
P. O. Box 7706
Peking University
10080 Beijing
China

Dear Mr. Chen:

Thanks for yours of 11 July. We thought you would have received all necessary forms. However, I enclose a set of the forms needed - including, "Application for assistantship or fellowship", about which you asked.

"E. I. Traverse" is my wife (and assistant!).

Best wishes.

Yours very truly,

Alfred Traverse
Professor of Palynology

P.S. You should arrange to take "GRE" and "TOEFL" exams as soon as possible. In many countries the American Embassy is helpful in this regard. I don't know about PRC.

enclosures: forms, etc.
cc: Graduate Programs Office

/jb

AN EQUAL OPPORTUNITY UNIVERSITY

Hunt Institute for Botanical Documentation

9 November, 1978

Dr. L. C. Chang
Nanking Institute of Geology & Paleontology
Academia Sinica
Chi-ming-ssu, Nanking
People's Republic of China

Dear Dr. Chang:

Thank you very much for the interesting paper, "Mesozoic spores and pollen grains from the volcanic clastic....". I have read the paper's abstract with interest and am certainly pleased to be in touch with you.

Under separate cover I am sending you available reprints of my work. Unfortunately, most of my things have all been sent out.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

30 Nov., 1966

Dr. L. C. Chang
Institute of Paleontology
Academia Sinica
1 Chi-Ming-Sze
Nanking, Chinga

Dear Dr. Chang:

We intend to cover your publication, "Pollen assemblages and their significance in the Yima coal-bearing series from Mnchi Hsien, Honan Province." Acta. Palaeo. Sinica, 1965. in the next (26th) volume of the Catalog of Fossil Spores and Pollen.

Though no author has ever refused us permission to use material for the Catalog we do like to inform authors of our intention to republish fossil spores and pollen from their papers in this way. As you probably know, the fossil spores and pollen so treated are republished in the Catalog exactly as they appear in the original publication.

Needless to say, it would be interesting to us to receive copies of your and your colleagues' publications on palynology, and we shall be happy to reciprocate.

Yours very truly,

Alfred Traverse

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

Hunt Institute for Botanical Documentation

Chen Yin-Shuo
P.O.B. 7706
Peking University
100080 Beijing
China

11 July, 1981

Professor A. Traverse
The Pennsylvania State University
Palynological Laboratories
435 Deike Building
University Park, Pennsylvania 16802
U.S.A.

Respected Professor A. Traverse,

I have the honour to recieve the letter written by Mr. E.I. Traverse during you were out of the office. At the same time, I also recieved the application material as well. I should pay my heatfelt thanks to you for your solicitude for me.

In order to study in your University, I have to apply for assistantship. I am sure my experience on Palynology will make me to be qualified for a post in your laboratory. But I am not clear how to apply for a post and the assistantship. The application forms that have been sent to me do not include that of financial aid. Would you be so kind to clarify these questions for me?

In my last letter, I had given you some information about my study and experience. I hope the materials that I am going to send to the Office of the Graduate School will prove it in more detail.

Only from your great achivement on Palynology, I learnt your name. I haveto ask for your help more again, because I am anxiously looking forward to studying in your University and work under your guide. I hope I could repay you with my hard work in your laboratory someday after.

Please give Mr. E.I. Traverse my hearty thanks and best regards.

Sincerely yours

陈, 阴硕

Chen Yin-Shuo
Senior of Peking University

Hunt Institute for Botanical Documentation

23 June, 1981

Mr. Chen Yin-Shuo
No. 105, Apartment 10
Zhong-guang-cun
100080 Beijing, China

Dear Mr. Chen:

Dr. Traverse is out of the office until mid-July, so I am taking the liberty of responding to your interesting letter of 11 June.

I have turned over your letter of application to the Graduate Admissions Office of the Department of Geosciences, and soon you should receive all the necessary application material with instructions for completing it. Should there be anything you don't understand, please write to Dr. Traverse for clarification.

Each year the Department receives a number of requests for admission and financial aid, so you will be competing with others for a limited number of spaces. However, your obvious dedication to and interest in palynology and your willingness to work hard as indicated in your letter should help your application, as should your facility with the English language.

I know Dr. Traverse will look forward to hearing from you again when you receive your application materials.

Yours very truly,

Elizabeth I. Traverse
Research Assistant, Palynology

Hunt Institute for Botanical Documentation

Chen Yin-Shuo
No. 105 Apartment 10
Zhong-guang-cun
100080 Beijing
China

June 11, 1981

Professor Alfred. Traverse
Palynological Laboratories
College of Earth and Mineral Science
The Pennsyvania State University
University Park Penn.16802
U.S.A.

Respected Professor Alfred. Traverse,

I venture to write to you to ask whether you could offer me a post in your palynological laboratory as a research assistant.

For quite a few years I have been reading your papers on palynology and admiring your achievement in this field very much. I have special interest in your work and woul like to be a research assistant in your laboratory. At the same time, I hope I could be able to study, under your direction, in your University for both a M.Sc. and Ph.D. degree.

I am a sneior of the department of geology, Peking University. My speciality is Paleontology. For over three years I have made good marks, straight A's in my major and almost in other courses. In English competition of Peking University held last year, I was taken at the superior rank and won a prize.

Palynology has been interesting me quite a long time. Ten years ago when I was twenty, I had been hired in Tibet geological team. A few years later, I began to learn and take part in palynological study of Cenozoic in Tibet. From 1975-1977 I was working in palynological laboratory of the Institute of Botany, Academja Sinica, led by Professor Hsu Jen. There I participated in a Palynological study of Paleogen and Neogen in Kwangtung province. Under instruction of Professor Hsu I worked there until the entrance examination and entered Peking University on the beginning of 1978.

I shall finish my study in Peking University and earn B.Sc. degree in half a year. Then I woul like to have a chance to study my speciality in your University and do some practical work on palynology as well. So I take the liberty to make a request directly for your kind and available help. I am confident that I will be able to study well in your University and to work properly in your laboatory both as a student and a research assistant.

If my application mentioned above would be accepted and regarded favourably, I will endeavour to justify the confidence you may response in me.

Enclosed you will find my formal application to the University. I would much appreciate to you if you would give your kindness to hand it to the head of department or the office concerned. I keenly look forward to haering from you soon.

Sincerely yours
陈因硕
Chen Yin-Shuo
Senior of Peking University

Hunt Institute for Botanical Documentation

Chevron U.S.A. Inc.
2003 Diamond Boulevard, Concord, California
Mail Address: P.O. Box 8100, Concord, CA 94524

Exploration Department
Western Region

V file

April 16, 1982

Professor Alfred Traverse
Department of Geosciences
The Pennsylvania State University
University Park, PA 16802

Dear Al:

I submitted your recent letter concerning monetary or other types of support from Chevron through our organization, and found that no help is available here. However, I am submitting your plea to our Eastern Region people in New Orleans, as they are more directly concerned with your area. Hopefully, they can help you.

Sincerely,

Virgil

Virgil D. Wiggins
Staff Palynologist
Western Region

VDW:sjw

Hunt Institute for Botanical Documentation

7 September, 1981

Chi

Dr. Wen-Rong Chi
Exploration & Development Research Center
Chinese Petroleum Corporation
51 Wei Kung Road, Miaoli
Taiwan 360, Republic of China

Dear Dr. Chi:

Thanks for yours of 7 August, which came while I was at the International Botanical Congress in Australia. (I saw Dr. T. C. Huang from your country while there.)

Regarding your request for publications--

(1) Catalog of Fossil Spores and Pollen is a sales publication of this University. You or your company could purchase Volume 41 (or any other volume available) by writing to the Catalog, c/o Ms. Karen Kopenhaver, Business Manager, 517 Deike Building, University Park, PA 16802.

(2)-(3) Xerox copy of my DSDP contribution--sent herewith.

(4) Reprint ot Paleobotanist paper sent herewith.

(5)-(8) Various papers in Geoscience & Man--many out of print. Those available sent herewith.

(9) Brandon Lignite monograph--out of print for years.

Copies of a few other papers that are available are being included.

Best regards for your and your work.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

EXPLORATION AND DEVELOPMENT RESEARCH CENTER
CHINESE PETROLEUM CORPORATION
51 WEI KUNG ROAD, MIAOLI
TAIWAN 360, REPUBLIC OF CHINA
TEL:(037)322140-3
CABLE:3222MIAOLI
REF. NO.

August 7, 1981

Dear Dr. Traverse:

If it is possible, may I have your reprints as follows:

1) Late Cretaceous and Early Tertiary spores and pollen from the U.S.A. and the U.S.S.R: Catalog of fossil spores and pollen. Pennsylvania State University, University Park, 41, 168 p. 1979.

2) Supplementary palynological informations from site reports for DSDP Leg 42B: In « Initial Rep. D.S.D.P., 1975, Istanbul, Turkey to Istanbul, Turkey » U.S. Govt Print Office, Washington, 42 part 2, 11 p., 10 fig. 1978.

3) Palynological analysis of DSDP Leg 42B (1975) cores from the Black Sea: In « Initial Rep. D.S.D.P., 1975, Istanbul, Turkey to Istanbul, Turkey » U.S. Govt Print Office, Washington, 42, part 2, p. 993~1015, 3 fig., 3 tabl., 2 pl. 1978.

4) Application of simple arithmetic ratios to study of DSDP Black Sea cores: Palaeobotanist, Lucknow, 25, p. 525~528, 1 fig., 1 tabl. 1978.

Hunt Institute for Botanical Documentation

P.O. Box 3044
Galveston, Texas
December 8, 1961

Dr. Alfred Traverse
1428 Adkins Road
Houston 24, Texas

Dear Al,

Just a brief note to thank you for reminding me of my obligations. Will send in the form as soon as I dig it out from under the disaster area sometimes referred to as my desk. Just recently changed offices and can't find a thing.

Please feel free to drop in and visit when you're in Galveston. I am making motions like a marine biologist for the Bureau of Commercial Fisheries, and work out at the lab next to the relatively new Henke and Pillot near 45th Street and the beach front. It consists of a group of blistering green-painted buildings (some of the old Fort Crockett barracks) surrounded by an enormous cyclone fence. You should have no difficulty in finding it. Drop in and we'll lunch together.

Looking forward to meeting you.

Best wishes,

Ed

Edward Chin

Hunt Institute for Botanical Documentation

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

6 May, 1987

Mr. Zhang Yi Cheng
China Geology News
Ministry of Geology and Mineral Resources
Xisi, Beijing
People's Republic of China

Dear Mr. Zhang:

Thank you for your letter of 22 April re Prof. Kenneth J. Hsü. We first met when we were both geologists for Shell Development Co., Houston, Texas, in 1955, and have been very good friends ever since. We were together on the Glomar Challenger in 1975, and I was a guest professor in Switzerland at the Swiss Federal Technical Institute in 1980-81, under his direction. He has visited us here several times.

I would be very interested in writing about Professor Hsü, as you suggest, but could not do so until October or November, because of other committments. My contribution would include several good photos of Professor Hsü.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

Dr. Zhang Yicheng
China Geology News
Ministry of Geology and Mineral Resources
Xisi, Beijing, China

Alfred Traverse
Department of Geology
Pennsylvania State University
State university, Pennsylvania
U.S.A.

April 22, 1987

Dear Professor Alfred Traverse;

I have been assigned the task of writing the biography of Professor Kenneth Hsu, for the Chinese Publishing House of Literature. The book will be one of the series for oversea Chinese who are distinguished industriatists, scientists, artists, and celebrities. This will be a full-length book and literature for general readers. I would like to collect material for this big task.

Prof. Hsu mentioned that you are his good friend and gave me your address. I would like to ask you if you could, at your earliest conveniente write an article (of any length) of the "Kenneth Hsu as I remember him" or detailed information about him. Besides, I would be very grateful to you if you could send me any writings by him or pictures of him.

This series of biography will be widely distributed in China and oversea. Prof. Hsu is the only geologist selected to have his biography included. I would appreciate greatly your help to make this opus we can all be proud of. Naturally your contribution will be acknowledged.

Would you please write to me about yourself, i.e. your occupation, position, professional interest and the experience of cooperation with Prof. Kennneth Hsu.

With best regards,

Sincerely yours,

Zhang Yi Cheng
Writer and Geologist

Hunt Institute for Botanical Documentation

THE CLEVELAND MUSEUM OF NATURAL HISTORY

FAX

1 Wade Oval Drive, University Circle, Cleveland, Ohio 44106-1767
Telephone (216) 231-4600
FAX (216) 231-5919

TO: PROFESSOR ALFRED TRAVERSE Phone -(814) 863-3419
DEPART OF GEOSCIENCES
PENNSYLVANIA STATE UNIVERSITY UNIVERSITY PARK PENN 16802
FAX -(814) 863-7823

2
NUMBER OF PAGES (including this page)

FROM: DR SHUA CHITALEY
CURATOR OF PALEOBOTANY

Dear Al,

Attached herewith (second page) is a copy of the letter to you enclosed in the big packet mailed today.

Yours
Shuja
11-4-91

Hunt Institute for Botanical Documentation

THE CLEVELAND MUSEUM OF NATURAL HISTORY
1 WADE OVAL DRIVE, UNIVERSITY CIRCLE, CLEVELAND, OHIO 44106-1767 USA
(216) 231-4600 FAX (216) 231-5919

October 24, 1991

Professor Alfred Traverse
Department of Geosciences, Palynological Laboratories
PENNSYLVANIA STATE UNIVERSITY
435 Deike Building
University Park, Pennsylvania 16802

Dear Al:

please find enclosed under a separate cover, the manuscript of my paper with four text figures and three plates. I would appreciate it very much if you would please take this packet with you as I requested by phone and deliver it to Dr. Shyam C. Srivastava, Secretary, Birbal-Savitri Sahni Foundation, Lucknow, India.

I am sure you would highly enjoy your trip to India. I am anxious to get all the news about the Sahni celebrations from you after your return!

Wishing you bon voyage.

Yours,

Shya 11-1-91

Shya Chitaley, Ph.D.
Curator and Head
Department of Paleobotany

SC:smp

I have also enclosed a letter to Dr. Venkatachala. Would you please give it to him? Thanks

Shya 11-1-91

Hunt Institute for Botanical Documentation

THE CLEVELAND MUSEUM OF NATURAL HISTORY

1 Wade Oval Drive, University Circle, Cleveland, Ohio 44106-1767
Telephone (216) 231-4600
FAX (216) 231-5919

October 31 st 1991

TO: Professor Al Traverse, Department of Geosciences

503 Deike Building, The Pennsylvania State University

UNIVERSITY PARK Pennsylvania 16802 FAX No. (814) 863 - 7823
Phone (814) 863 - 3419

FROM: Dr. Shya Chitaley

NUMBER OF PAGES (including this page) ONE

Dear Al,

I shall mail the manuscript of my paper to you on Monday the 4 th of this month. I trust that you would receive it in time, before you leave for India.
I would appreciate it very much if you please hand it over to Dr. Shyam C. Srivastava at BSIP Lucknow India. Please confirm after you receive it.

Don Tidwell read ir for me.

Bon Voyage!

Yours

Shya

Hunt Institute for Botanical Documentation

TO _____ at _____

DATE 9.X.91 TIME 10:30 a.m.

WHILE YOU WERE OUT

M Shya Chitaley

Of Cleveland Museum

Phone _____

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

MESSAGE She's sending you a MS of hers for the Birbal Sahni Mem. Volume. Wants you to read it, comment, send back, then she will fix up if necessary and return to you in time for you to take it to India when you go. (she gave you no option as to whether or not you would be willing to do this. Signed BT

The Standard Register Company

Hunt Institute for Botanical Documentation

PENNSTATE

The Pennsylvania State University
Department of Geosciences
503 Deike Building
(814) 863-7823 [FAX]
Date: 10/10/91

☐ Marked here if urgent reply is requested.

Fax Transmission to:

Name: Dr. Shya Chitaley
Company/Institution: Cleveland Museum of Natural History
Department: Paleobotany
Fax Number: 216-231-5919
Phone Number: 216-231-4600

Transmission from:

Name: Dr. Alfred Traverse
Phone Number: 814-863-3419

Total Number of Pages (Including Cover Page): 1

Message:

Dear Shya:

There's nobody I'd more gladly do a favor for, but with my course in full swing, trying to get ready for the India trip, as well as for a lecture at Harvard next week, and to go to Germany in December on a 6-month sabbatical, I really can't take on even one more thing at the moment. I simply don't have time to read your paper.

Sorry.

Best wishes.

AL

*If any portion of this transmission is unclear, please call _____.

Hunt Institute for Botanical Documentation

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

3 July, 1991

Dr. Shya Chitaley
The Cleveland Museum of Natural History
Wade Oval, University Circle
Cleveland, OH 44106

Dear Shya:

After we talked this a.m. I opened your package and letter of 12 June 91, and reexamined your plates and compared them with critic's comments. I believe there is some truth to his/her criticism, but he/she has carried it too far. I would suggest that you comproise a bit by changing language, not the plates! I believe the best way for me to proceed is to go down the list:

Plate I, figs. 5-6. I believe the critic is emphasizing that this is not necessarily a natural grouping of four tubes. The grouping is there, but it's perhaps accidental. Why not say: "there seems to be some tendency for tubes to occur in clusters of 2^s, 3^s, 4^s." I don't believe the critic means to challenge the situation itself, but he/she holds that it's accidental, i.e. "antifact."

Plate II, fig. 1. The critic is saying that : a. the cracks are just that, not a natural phenomenon for the living organism; b. the grouping of three is accidental. I believe you can get around this by similar qualifying language to that recommended above. I believe the critic is right in asserting that you don't want to be seeming to claim that Prototaxites is always or naturally that way.

fig. 2. Here I don't agree at all with the critic. That looks like a real juncture to me.

fig. 3. The critic has a point. I'd say: "Some tubes seem to have septa." [singular septum, pl. septa; not septa, septae].

fig. 4. I'd say: "the cross-bands may represent septa, although these features could be preservational phenomena."

Plate III, fig. 1. I believe I'd say: "The fine crack is perhaps the initial stage of branch-formation."

fig. 2. here I just don't agree with the critic. Looks o.k. as a branching to me.

Hunt Institute for Botanical Documentation

fig. 5. It is not possible to see in the picture if the branchings are real or not--could be interpreted as crossed tubes. You could say that your microscopy convinces you that the branchings are real, though it cannot be proven in the photos.

Plate IV, fig. 1. Here I don't understand the critic. You have described what is there.
fig. 5. Ditto. "Stick to your guns."
fig. 6. Ditto. You described what's there.

Hope this is helpful. All the best. I return the plates and captions herewith.

Yours very truly,

Alfred Traverse

AT/et
enclosure

Hunt Institute for Botanical Documentation

THE CLEVELAND MUSEUM OF
•NATURAL HISTORY•

1 WADE OVAL DRIVE, UNIVERSITY CIRCLE, CLEVELAND, OHIO 44106-1767 USA
(216) 231-4600 FAX (216) 231-5919

June 12, 1991

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

Dear Al:

Please find enclosed the four plates and their explanations. You will see the comment "artifact" wherever it was made! I need your opinion on this comment, because I value it more.

I am trying to resolve the nature of the content whether mineral or organic by using electroprobe as suggested by you.

With warm regards,

Yours,

Shya

Shya Chitaley,
Curator and Head
Department of Paleobotany

SC:smp

Enclosures

Hunt Institute for Botanical Documentation

PENNSTATE

1855

The Pennsylvania State University
Department of Geosciences
503 Deike Building
(814) 863-7823 [FAX]

Date: 18-April-91

FAX TRANSMISSION

☐ Marked here if urgent reply is requested.

Transmission to:

Name: Dr. Shya Chitaley
Company/Institution: Cleveland Museum of Natural History
Department: Paleobotany
Fax Number: 216-231-5919
Phone Number: 216-231-4600

Transmission from:

Name: Alfred Traverse
Company/Institution: Penn State Univ.
Department: Geosciences
Phone Number: 814-863-3419

Total Number of Pages (Including Cover Page): 1

Message:

Coming tomorrow as scheduled. Have obligations here until afternoon. Should arrive at Esther's by 6:00 as previously arranged. See you on Saturday to go over your MS, etc.

*If any portion of this transmission is unclear, please call 814-863-3419

Hunt Institute for Botanical Documentation

THE CLEVELAND MUSEUM OF
•NATURAL HISTORY•

WADE OVAL, UNIVERSITY CIRCLE, CLEVELAND, OHIO USA 44106
(216) 231-4600 FAX (216) 231-5919

April 2, 1991

Ray Gault
216-321-6908
I-271 → US 322 = West Mayfield
pass Severance Shop. Ctr.
N. on Taylor Rd.
To Mayfield W. a ↑ Hanford Rd. 2 mi → 1108 Hanford Rd.

Professor Alfred Traverse
Department of Geosciences
Palynological Laboratories
Pennsylvania State University
435 Deike Building
University Park, Pennsylvania 16802

Dear Al:

Please find enclosed the manuscript of my paper on "Prototaxites" from the Cleveland shale. I would appreciate it very much if you would please read it and let me have your comments. The paper is for publication in the journal, Review of Paleobotany and Palynology. The plates will be improved in looks and marked by arrows and stars as noted in "Explanation of Plates."

Shall be meeting you soon. Why don't you come early on Friday to have a tour of our museum which closes at 5 P.M.

With warm regards,

Yours,

Shya

Shya Chitaley, Ph.D.
Curator and Head
Department of Paleobotany

SC:smp

Hunt Institute for Botanical Documentation

Hunt Institute for Botanical Documentation

TO AT

DATE 27.III.91 TIME 11:30

WHILE YOU WERE OUT

M. Shiya Chitaley

Of

Phone 216-231-4600

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

MESSAGE

Signed BT

The Standard Register Company

1) wanted my new title for track
2) "can Betty come?" — Yo
3) need & remember Photostat. for paper? — ok

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

28 November, 1990

Dr. Shya Chitaley, Paleobotanist
The Cleveland Museum of Natural History
Wade Oval, University Circle
Cleveland, OH 44106

Dear Shya:

Your flattering invitation message of 19 November reached me, and I tried to return the call, but you were out.

My paleobotany course is in progress next semester. We always have at least one field trip (last year we had <u>two</u>), and the only time available when the weather is (sometimes) ok is late April (semester ends about 1 May). So, I have to have 20 and 27 April open for that possibility. I already know there will be about 12 in the class. So, I am sorry, but I can't come. Do you ever have a slot open in May-July?

Best regards.

Yours very truly,

Alfred Traverse

AT/et

Hunt Institute for Botanical Documentation

TO AT

DATE 18.XI.90 TIME 10:35

WHILE YOU WERE OUT

M. S. Chitaley

Of

Phone 216-231-4600

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

MESSAGE Cleveland -
in april -
Fossil Society
3rd Sat. - 9 a.m.
(pay for gas only)

Signed BT

The Standard Register Company

Hunt Institute for Botanical Documentation

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

22 February, 1989

Dr. Shya Chitaley
Cleveland Museum of Natural History
Wade Oval, University Circle
Cleveland, OH 44106

Dear Shya:

Congratulaitions on organizing a fine program for 19-21 May! I just got the registration info. I really am sorry that I can't be there.

All the best.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

file ● corresp.
Chitaley

THE CLEVELAND MUSEUM OF NATURAL HISTORY

WADE OVAL, UNIVERSITY CIRCLE, CLEVELAND, OHIO 44106
(216) 231-4600

SEVENTH MID-CONTINENT PALEOBOTANICAL COLLOQUIUM
MAY 19-21, 1989

REGISTRATION INFORMATION

Happy New Year dear Colleagues!

You are cordially invited to attend the Seventh Mid-Continent Paleobotanical Colloquium at The Cleveland Museum of Natural History.

Following the general format of the previous mid-continent meetings, there will be a social evening meal on Friday, ending with a talk from Dr. T.N. Taylor, Professor of Botany, Ohio State University, Columbus, Ohio.

There will be paper and poster presentations and demonstrations on Saturday morning extending into early afternoon.

From 4-6 p.m. on Saturday the Education Division and the Collections Division of the Museum will give tours of the Museum exhibits and behind-the-scenes respectively.

Following cocktails and dinner Saturday evening, the keynote speech will be by Dr. Harlan P. Banks, Emeritus Professor of Botany, Cornell University, Ithaca, New York.

Titles of Talks

Prof. T.N. Taylor, "The Lush Vegetation of Antarctica"

Prof. H.P. Banks, "Of This and That"

Please fill in the attached registration form and return it to Shya Chitaley with fees before March 15, 1989.

Shya Chitaley
Department of Paleobotany
The Cleveland Museum of Natural History
Cleveland, OH 44106

Gar Rothwell
Department of Botany
Ohio University
Athens, OH 45701

Hunt Institute for Botanical Documentation

SEVENTH MID-CONTINENT PALEOBOTANICAL COLLOQUIUM
MAY 19-21, 1989
THE CLEVELAND MUSEUM OF NATURAL HISTORY

Registration fees include single occupancy rooms for Friday and Saturday nights (May 19-20), five meals (Friday social evening; Saturday breakfast, lunch and dinner; breakfast on Sunday).

Those not requiring lodging are charged as local registrants:

Make Checks payable to The Cleveland Museum of Natural History - Paleobotany
Deadline for registration - March 15, 1989

Mail to: Dr. Shya Chitaley
Department of Paleobotany
The Cleveland Museum of Natural History
Wade Oval - University Circle
Cleveland, Ohio 44106

- -

SEVENTH MID-CONTINENT PALEOBOTANICAL COLLOQUIUM
REGISTRATION FORM

Name and mailing address:

_____

_____

_____

_____

( ) Faculty - $90 (includes room and board)
( ) Student - $65 (includes room and board)
( ) Local - $15 (includes Friday evening social)
( ) $15 (Saturday evening dinner - OPTIONAL)
( ) Parking permit needed
( ) Arriving by airplane
( ) Participating in field trip on Sunday (Fast food lunch on own)
Anyone wanting to leave early may do so.

( ) Presenting a paper
( ) Presenting poster
( ) Presenting demonstration

Authors and title of paper or poster or demonstration

_____

_____

_____

Standard 2 x 2 projectors will be available
( ) Other type of projector needed

_____

Hunt Institute for Botanical Documentation

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

26 August, 1987

Dr. Shya Chitaley
The Cleveland Museum of Natural History
Wade Oval, University Circle
Cleveland, OH 44106

Dear Shya:

Your and Colin's MS and your letter of 14 August were here when I got back from the Devonian meeting a couple of days ago. I wish I had seen it before Calgary, as I made a public statement there about the Archaeopteris-affinity of Geminospora that I would have modified had I read your paper!

The paper is obviously important, and you found a "neat" fossil!

I have read the paper, perhaps not as fine-toothy as I sometimes do because of lack of time (Fall Semester starts today!). I have red-penned some corrections and suggestions directly on the MS. In addition, I have the following comments:

1. Title: I would change to "Late" Devonian, because elsewhere in the paper you use "early-late" talk, not "upper-lower" talk, and they should not be mixed.
2. Abstract: The last sentence should be expanded to give the exact age--as suggested in red. Many people will only read the abstract; the affinity of the microspore should be stated specifically: Geminospora lemurata Balme; I object to "cigar-shaped"--seek a descriptive term: long-oval? The formal description doesn't seem to give th shape?
3. p. 6: I would omit all the quibbling from Beug. The statement that it's "...close to the contact...." etc. is enough!
4. pp. 13-15: I would much prefer use of "description". "Diagnosis" really refers to an abbreviated summary of the description (for modern plants in Latin). Jansonius has been mostly responsible ofor the indescriminate use of "diagnosis" because of the J-H cards. In my opinion it is nevertheless wrong. Your description of the species on 14-15 is certainly not a diagnosis, and the generic description is really not a diagnosis either. Only a description or diagnosis is required per Code.
5. Mistakes in specific endings must be corrected, regardless of how the original author has them (schopfi schopfii, etc.)

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6. p. 19: The lycopsid affinity for G. lemurata is so hot and important that (in my opinion) it should be stressed more, including citation of the paper where in situ identifications of G. lemurata to Archaeopteris were given (see Gensel & Andrews '84). Some more information about why the Archaeopteris identity wasn't good needs to be given.

Best wishes.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et
encl: MS
cc: D.C. McGregor

Hunt Institute for Botanical Documentation

THE CLEVELAND MUSEUM OF
•NATURAL HISTORY•

WADE OVAL, UNIVERSITY CIRCLE, CLEVELAND, OHIO 44106
(216) 231-4600

15 September 1987

Dr. Alfred Traverse
Professor of Palynology
The Pennsylvania State University
435 Deike Building
University Park, PA 16802

Dear Al,

Thank you very much indeed for reading through our MS on B. harrisii. It was so prompt of you to return it with good suggestions. I appreciate it very much. I have incorporated all the corrections you made. It is a great help.

I know that it would have been much better if you had seen this MS before the Devonian meeting! You might change your statement about the Archaeopteris-affinity of Geminospora at the next meeting in Brisbane. Hopefully our paper might be out by then! I mailed one copy of the MS received from you to Colin last month.

With best regards,

Yours,

Shya

Dr. Shya Chitaley
Curator and Head
Paleobotany

SC/eh

Hunt Institute for Botanical Documentation

THE CLEVELAND MUSEUM OF
•NATURAL HISTORY•

WADE OVAL, UNIVERSITY CIRCLE, CLEVELAND, OHIO 44106
(216) 231-4600

14 August 1987

Dr. Alfred Traverse
Professor of Palynology
College of Earth and Mineral Sciences
The Pennsylvania State University
Deike Building
University Park, PA 16802

Dear Al,

I know you must be very busy at this time of the year, involved in various meetings and conferences. Please pardon me for encroaching on your time for reading the manuscript of my joint paper on "Bisporangiostrobus harrissii gen.et.sp.nov. with Duosporites megaspores and Geminospora microspores form the Upper Devonian of Pennsylvania, U.S.A."

I would appreciate it very much if I could have your suggestions and comments on the paper. The manuscript is almost 99% complete except for some minor inclusions and brushing ups. The geological cross section of the exposure at the Union City Dam on the French Creek is getting ready. Also a blow-up of part of the map showing the locality and topography with an inset of Pennsylvania will be ready soon.

Enclosed

I am sure you would be happy to read through the manuscript.

With the greetings of the season,

Yours,

Shya

Dr. Shya Chitaley
Curator and Head
Paleobotany

SC/eh

Hunt Institute for Botanical Documentation

18 February, 1985

Dr. Shya Chitaley
Paleobotany
Cleveland Museum of Natural History
Wade Oval, University Circle
Cleveland, OH 44106

Dear Dr. Chitaley:

Unfortunately, yours of 7 February did not come to my attention until 15 February. As the figures to which you refer in my semi-popular paper were (never) made into slides, there is no way to get such slides made for you on time. It takes at least a week. If you would give me more lead time, I'm always glad to help--but two weeks from the time you write until you need the item back and in hand is very optimistic! Sometimes things are so hectic here that I don't even open mail for a week; or, I may be out of town, etc. A phone call in thiw case might have worked. Best time to call: 10 a.m. - 4 p.m.

Once again, sorry. Best wishes.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

THE CLEVELAND MUSEUM OF
•NATURAL HISTORY•

WADE OVAL, UNIVERSITY CIRCLE, CLEVELAND, OHIO 44106
(216) 231-4600

February 7, 1985

Dr. Alfred Traverse
Palynological Laboratories
College of Earth & Mineral Sciences
435 Deike Building
Pennsylvania State University
University Park, PA 16802

Dear Professor Traverse:

Thank you very much for sending to me the article "About those 100,000,000-year-old clues" and others. I wanted to have this paper for a popular talk.

Now I need something more. Could you possibly send to me a couple of slides of Figures 1, 3, and 4 from the above publication to illustrate my talk? It is scheduled for the 24th of this month and I am referring to the use of palynological knowledge in oil and coal exploration.

With warm regards,

Yours sincerely,

Shya

Dr. Shya Chitaley
Curator and Head
Dept. of Paleobotany

SC:hb

Hunt Institute for Botanical Documentation

12 July, 1982

Dr. Shya Chitaley, Paleobotanist
The Cleveland Museum of Natural History
Wade Oval, University Circle
Cleveland, OH 44106

Dear Dr. Chitaley:

Your inquiry to Dr. Spackman about registration for the upcoming AIBS meeting here at Penn State in August has filtered down to me. I contacted Dr. Paul Grun (202 Buckhout Lab, phone 814-865-6641),* who tells me that the Botanical Society has been "swamped" with registrations for the meeting and has been delayed in processing them. However, Dr. Grun assureddme that all is in order, and that you shouldn't worry about confirmation of your registration.

I will be the unofficial paleobotanical host at the meeting and look forward to seeing you at one or another of the affairs we have arranged for the Paleobotanical Section. However, any further inquiries regarding general arrangements for the meeting should be addressed to Dr. Grun. (Dr. Spackman will be out of town and is not involved in the meeting.)

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

* Dr. Grun is the local representative of the Botanical Society, in charge of arrangements for all of us in that society.

Hunt Institute for Botanical Documentation

28 May, 1981

Dr. Shya Chitaley, Paleobotanist
The Cleveland Museum of Natural History
Wade Oval, University Circle
Cleveland, OH 44106

Dear Dr. Chitaley:

In response to your request for my reprints, I am sending under separate cover copies of all papers presently available. Many of my papers are out of print, including, unfortunately, the one you especially requested (Warg & Traverse, 1973). However, since you particularly wanted it, I have made a xerox copy from my single remaining copy. I will put you on my mailing list for future reprints.

Thank you for your interest.

Youts very truly,

Alfred Traverse
Professor of Palynology

ATet

Hunt Institute for Botanical Documentation

THE CLEVELAND MUSEUM OF
•NATURAL HISTORY•

WADE OVAL, UNIVERSITY CIRCLE, CLEVELAND, OHIO 44106
(216) 231-4600

28 May '81
Sent what was available
made card

April 28, 1981

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

Dear Dr. Traverse,

Could you please send to me a set of your reprints? They would be useful to me and to the Museum.

I need particularly the following one - Warg and Traverse, 1973 - "A Palynological Study----------Shales and "Coals" of a Devonian-Mississippian Transition Zone," Central Pennsylvania.

With warm regards.

Sincerely,

Shya Chitaley

Dr. Shya Chitaley
Paleobotanist

SC/cc

Hunt Institute for Botanical Documentation

Department of Geology-Geophysics
Pennsylvania State University
University Park, Pennsylvania 16802

26 July, 1966

Mr. Arthur Ben Chitty
President, Association of Episcopal Colleges
815 Second Ave.
New York, N. Y. 10017

Dear Mr. Chitty:

Just came across a copy of the "Association of Episcopal Colleges Report," for April, 1966, the first copy of the journal that I have seen. As one who is both an Episcopal priest and college professor, I would be interested in receiving future copies of this report.

May I register one small caveat? On page 3, in your paper, "Growth of Episcopal Colleges Traced," which I found fascinating reading, there is the statement:

...Nashotah (now our Anglo-Catholic seminary in Wisdonsin)....

I regard it as very undesirable to introduce such a divisive note in a semi-official publication of the church--there is only one Episcopal Church. Besides, it smacks of discrimination--would you refer to the seminary in Cambridge as "our liberal Evangelical seminary"? or the one in Austin as "our far-out, Left-wing seminary"? In brief, how about just, "our seminary" for each one?

Yours faithfully,

Alfred Traverse

(The Rev.)Alfred Traverse
Associate Professor of Geology

Hunt Institute for Botanical Documentation

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

20 October, 1988

Dr. A. F. Chlonova
Institute of Geology and Geophysics
Novosibirsk 90, USSR 630090

Dear Dr. Chlonova:

Many thanks for , which came recently. We are back from the 7-ICP, where Valentin Krassilov made a very fine impression. We were sorry that more of you could not attend. I have learned much from the book.

One of these days I am going back to my efforts to learn Russian. (My German is now good enough--I am more or less fluent.)

Yours very truly,

Alfred Traverse

AT/et

Hunt Institute for Botanical Documentation

To d[redacted] Traverse

With my best wishes
for a marry Christmas
and a happy New Year

A. Chlonova

I hoped to see you
at the Conference in
Novosibirsk this summer.
It was a very great
chargin you didn't come.

A. Ch.

Hunt Institute for Botanical Documentation

Received: from felix.geog.mcgill.ca by pangaea.ems.psu.edu
(4.1/PSU_ESSC/GEOSC-2.02) id AA22054; Mon, 13 Feb 95 21:21:24 EST
Received: from [132.206.251.35] (chmura.Geog.McGill.CA [132.206.251.35]) by feli
Date: Mon, 13 Feb 1995 21:22:57 -0500
Message-Id: <199502140222.VAA10278@felix.geog.mcgill.ca>
From: "Gail Chmura" <chmura@felix.geog.mcgill.ca>
Reply-To: "Gail Chmura" <chmura@felix.geog.mcgill.ca>
To: traverse@ems.psu.edu
Subject: mail received

Dear Al,
Thank you for sending the table of contents and the reprints - only one is a duplicate. The waiting period for the book is not due to the publisher, but our own library bureaucracy (order approval, cataloging, etc.). In the mean time the table of contents is of great help. The most appropriate paper is by Holmes and I believe that I have got him covered. Thanks so much.

Yours truly,
Gail Chmura

--*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*
Gail Chmura
Department of Geography
McGill University
805 Sherbrooke St., W
Montreal, QC H3A 2K6
Canada

Phone: (514)398-4958
FAX: (514)398-7437
Email: chmura@felix.geog.mcgill.ca
--*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*

Hunt Institute for Botanical Documentation

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Université McGill
Pavillon Burnside
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Montréal, QC, Canada H3A 2K6

Telephone (514) 398-4111
Fax: (514) 398-7437

10 January 1994

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

Dear Dr. Traverse,

Knowing your interest in these topics I am sending you a pre-print of my manuscript "Palynomorph Distribution in Marsh Environments in the Modern Mississippi Delta Plain," accepted for publication in the GSA Bulletin.

The paper notes that recognition of river transport of pollen is critical to interpretation of assemblages in many environments. In the near future I hope to see what information can be gained from the fluvial deposits of the delta, making use of a core I have here at my lab. Thanks for your assistance and support.

Yours truly,

Gail Chmura

Gail Chmura
Assistant Professor

GC/tb

Hunt Institute for Botanical Documentation

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

14 March, 1994

Dr. Gail Chmura
Department of Geography
McGill University
Burnside Hall
805 Sherbrooke St. W.
Montreal, Quebec, Canada
H3A 2K6

Dear Dr. Chmura:

Thanks for your letter of 10 January and the preprint of your paper. I finally had a chance to read it yesterday.

You've done a nice job in the paper. From my point of view, of course, it's disappointing that none of my work on that sort of stuff (not Traverse and Ginsburg, not any of the papers on the Trinity River, not the lengthy chapter on such matters in Paleopalynology) were worth even a passing mention.

I do hope you are still able to correct the spelling of Jan Muller's name in your biblio (and elsewhere?)--it has no umlaut. Also, in Table 3, col. 3, item 6, there is no genus "Plantanus"--must be Platanus, I suppose, as Plantago is already on the list. The name Melastomia on same table is also wrong. Should be Melastoma. Also same table, what is "Ceralia?" Perhaps cereal grasses? = Cerealia?

All the best.

Yours very truly,

Alfred Traverse

AT/et

Hunt Institute for Botanical Documentation

15 February, 1982

Dr. Carol A. Chmura
Chevron Oil Field Research Co.
P.O. Box 446
La Habra, CA 90631

Dear Carol Ann:

As you doubtless have heard and read, government sources of funding for university research, and thus for graduate student support, have shrivelled or even in some instances disappeared. Because undergrad enrollment is dropping, the backup source of funding for graduate students, which is teaching-assistantships, is also shrinking.

Inasmuch as my Ph.D. and M.Sc. students more often than not end up as employees of companies such as yours, I write to inquire whether it would not be appropriate for Chevron to help in some way with this problem. For example, could Chevron provide a grant-in-aid for graduate student research, or fund a research project that would provide among other things an assistantship for a student, or fund a graduate fellowship? Also important, could Chevron provide help for our lab toward the purchase of pieces of equipment that during my 16 years here almost always have come from the National Science Foundation: centrifuges, microscopes, etc.? It may surprise you to learn that most universities are not able to provide such things for the reaearch of the faculty. In fact, about all the university does regularly provide is teaching equipment, a place with heat and light, and a (however inadequate) salary. Given the mood of state legislators, one must be grateful even for these favors.

Well, do let me hear about what if anything your company could do, and to whom and how application should be made.

Thanks very much.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

August 9, 1973

Dr. Carol Ann Chmura
Mobil Oil Corporation
P.O. Box 900
Dallas, Texas 75221

Dear Carol Ann:

I believe I previously thanked you for the copy of your fine monograph which you sent me earlier this year. If I did not take care of my bread and butter letter at that time, I do so now. I have been reading the paper in more detail recently and am prompted to remind you that you once told me you might be abletto come up with one of two of those "phosphatic nodules" which are so rich in Cretaceous pollen for use in our reference collections. If this still is a possibility--and I seem to remember that there might be some problem--I would very much appreciate the favor.

Looking forward to seeing you in Anaheim, I am

Yours very truly,

Alfred Traverse
Professor of Geology & Biology

AT/vsi

Hunt Institute for Botanical Documentation

November 23, 1970

Chmura

Dr. Carol A. ~~McLeroy~~
Dept. of Geological Sciences
Lehigh University
Bethlehem, Pennsylvania 18015

Dear Carol Ann:

In a letter I recently had from Harry Leffingwell, he says that you have obtained "a large number of Proteacidites from the Franciscan ~~period~~". I had not realized that the material you worked with was "Franciscan". Was it? I certainly should have that information to quote when I get around to writing up my small communication for the Toronto meetings for the AASP Proceedings. Hoping to hear from you about this and with best wishes for a Happy Thanksgiving, I am

Yours very truly,

Alfred Traverse
Professor of Geology & Biology

AT/vsi

Hunt Institute for Botanical Documentation

LEHIGH UNIVERSITY
BETHLEHEM, PENNSYLVANIA 18015

DEPARTMENT OF GEOLOGICAL SCIENCES

now Chmura

R. T. GALLAGHER
G. KULLERUD
D. F. MCLEROY
P. B. MYERS
J. M. PARKS
J. D. RYAN, *Chairman*
T. J. M. SCHOPF
C. B. SCLAR
D. R. SIMPSON

Feb. 10, 1969

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

Dear Al:

Somewhat belatedly, thank you for all you did to make my visit to Penn State profitable and pleasantly memorable. My work there answered a lot of my questions concerning my thesis and inevitably generated some new ones. Even without those benefits, meeting you and your group and seeing your facilities would have made the trip an enjoyable and an informative one.

May I ask you to pass along some information to Doug Nichols? Specifically, Leffingwell (in press) is erecting a new genus, Maceoipolipollenites, for triporate grains with polar thinnings in various regular patterns. In addition to several new species, he places in it Momipites tenuipolus Anderson, 1960, a species which is generally similar to several of Doug's types.

If Bethlehem is en route for you on any of your eastward treks, or even if it isn't, do stop by to visit us. We're only about a half-mile south of Route 22. If you give me some notice, I'll make lasagna and zupa inglese for you.

Sincerely,

Carol

Carol Ann McLeroy
Research Associate in Geology

Hunt Institute for Botanical Documentation

Special Delivery — The original of this was sent out earlier without postage — I sure hope it returns to us rather than being delivered to you. "C.O.D."

January 2, 1969

Chmura

Mrs. Carol Ann ~~Meleroy~~
Department of Geological Sciences
Lehigh University
Bethlehem, Pennsylvania 18015

Dear Carol:

Glad to hear you are coming. Please let us know what arrangements you want us to make (if any) regarding reservations, etc.

You didn't say in your letter whether (as I hope) you would be willing for the graduate students and the palynologists here (about 8 people altogether) to assemble some evening while you are inttown to have you tell us a little about what you are doing. You need not be threatened by the prospect--just have a few slides or maps or whatever and be willing to share some ideas with us. As I mentioned earlier, if you would do this, I could then find it easy to pay your expenses. How about it?

Yours very truly,

Alfred Traverse

Alfred Traverse
Associate Professor of Geology

AT:kwc

Hunt Institute for Botanical Documentation

LEHIGH UNIVERSITY
BETHLEHEM, PENNSYLVANIA 18015

DEPARTMENT OF GEOLOGICAL SCIENCES

R. T. GALLAGHER
G. KULLERUD
D. F. MCLEROY
P. B. MYERS
J. M. PARKS
J. D. RYAN, *Chairman*
T. J. M. SCHOPF
C. B. SCLAR
D. R. SIMPSON

now Chmura

Dec. 12, 1968

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

Dear Dr. Traverse:

Thank you for your letter of December 4.

I am planning to make the trip to State College to peruse your modern pollen collection, but at the moment I cannot be certain of the date. Because of my teaching commitment the trip would have to be made during the holiday break or during our reading period, exam period, or semester break, that is, sometime after December 20 and before January 26. I anticipate that I would need at least two days to look at slides, but maybe that is an unrealistic estimate. In any case, I shall call you as soon as I know the approximate date and check its convenience with you.

Thank you for your offer of help. I am looking forward to the visit.

Sincerely,

Carol

Carol Ann McLeroy
Research Associate in Geology

Hunt Institute for Botanical Documentation

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
6 February, 1995

Dr. Gail Chmura
Department of Geography
McGill University
805 Sherbrooke St., W.
Montreal, QC H3A 2K6
Canada

Dear Gail:

Yours of 31 Jan. via e-mail is in hand. I guess to send you a xerox of the table of contents of Sedimentation of Organic Particles I need to respond via snail mail. I have no reprints of chapters (none was provided). I wonder why the library says it will take months to get a copy from CUP?

Best wishes.

Yours very truly,

Alfred Traverse

encl.:xerox, reprints

Hunt Institute for Botanical Documentation

Received: from felix.geog.mcgill.ca by pangaea.ems.psu.edu
(4.1/PSU_ESSC/GEOSC-2.02) id AA03325; Tue, 31 Jan 95 16:54:48 EST
Received: from [132.206.251.35] (chmura.Geog.McGill.CA [132.206.251.35]) by feli
Date: Tue, 31 Jan 1995 16:56:13 -0500
Message-Id: <199501312156.QAA11276@felix.geog.mcgill.ca>
From: "Gail Chmura" <chmura@felix.geog.mcgill.ca>
Reply-To: "Gail Chmura" <chmura@felix.geog.mcgill.ca>
To: traverse@ems.psu.edu
Subject: your new book

Dear Al,

A potential student (using the library at Yale) told me that he saw your citation of my work in your new book (thanks). My grants and personal budget are all presently in the hole, but I asked our library to get a copy. They say it may take a few months. In the mean time I am sending out 3 papers on river pollen and transport, and would not want to miss any critical material that has been published. Could you send me a table of contents and if you have reprints available on any critical chapters dealing with suspended pollen they would be most appreciated, and likely to be cited.

Yours truly,
Gail Chmura

--*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*
Gail Chmura
Department of Geography
McGill University
805 Sherbrooke St., W
Montreal, QC H3A 2K6
Canada

Phone: (514)398-4958
FAX: (514)398-7437
Email: chmura@felix.geog.mcgill.ca
--*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*

Hunt Institute for Botanical Documentation

McGill

Department of Geography
McGill University
Burnside Hall
805 Sherbrooke Street West
Montreal, QC, Canada H3A 2K6

Département de géographie
Université McGill
Pavillon Burnside
805 ouest, rue Sherbrooke
Montréal, QC, Canada H3A 2K6

Telephone (514) 398-4111
Fax: (514) 398-7437

December 29, 1992

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

Dear Dr. Traverse,

We met at the IPC in Australia when I presented my Ph.D. research on pollen in the Mississippi River. I missed you at the IPC meeting this year - perhaps I'll see you in Houston... At this last meeting I had two presentations on fluvial pollen, one regarded the Atchafalaya River, the other tributaries of the Mississippi.

Ian Campbell (who spent a semester as a post-doc here) and I are just finishing a manuscript regarding Atchafalaya River pollen. It is to be submitted with others from the marine palynology symposium to the journal Marine Geology. Linda Heusser is coordinating and suggested that time would be best served if I find two reviewers. Knowing your keen interest in fluvial transport I thought you would be an appropriate choice. Would you consider it? Please tell me or Linda before January 15 if you have the time to review it.

Yours truly,

Gail Chmura

Gail Chmura
Assistant Professor

cc: L. Heusser
I. Campbell

Hunt Institute for Botanical Documentation

23 October, 1984

Dr. Khalilur R. Chowdhury
Department of Geography
Jahangirnagar University
Savar, Dhaka
Bangladesh

Dear Dr. Chowdhury:

Many thanks for your nice letter of 1 October, with the smashing Bangladesh stamps (I especially liked the floral stamp!)

The lime filter idea is interesting, and surely works well. However, we have recently begun using commercially available silica filter "papers" for filtration of sea water, and they work fine--they can be dissolved in HF, of course, and there is no need to use a paper filter under them.

Nevertheless, I think it would be helpful to put your ideas into print. I would be glad to read the manuscript for you.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

Khalilur R. Chowdhury

Department of Geography
Jahangirnagar University
Savar, Dhaka
Bangladesh

October 1, 1984

Prof. Alfred Traverse
The Pennsylavania State University
Palynological Laboratories
435 Deike Building
University Park, Pennsylvania 16802
U.S.A.

Dear sir,

Thank you for your letter of August 14, 1984 which I received only last week. The lime filters can only be prepared in the laboratory. In the following I am giving you a description on how and when these filters are prepared while separating the palynomorphs:

> ..... Prepare a thick paste in a beaker with calcium carbonate and distilled water. Put a filter funnel with fused-in sintered filter disc (no. 1) on a suction flask connected with a water jet pump. Fit an appropriate round filter paper (Trade Mark MN615, 3.5 cm Ø of Mercherey-Nagel & Co.) on the sintered filter disc of the funnel. The round filter paper moistened with a few distilled water to be sucked with water jet pump. Now pour the lime paste (1-2 cm thick) on the round filter and dehydrate the lime paste carefully with the water jet pump so that the surface remains smooth and without any fissure or hole. Pour the rest, found on the heavy solution, on the lime filter and keep for a day until the residue is almost dehydrated. Remove the lime filter containing the residue and put into a glass beaker. Treat the residue with 10% HCl until the lime filter is completely dissolved. Remove the round filter paper before transferring the solution into 15 ml plastic centrifuge tube for further treatment. .....

Recently I have prepared a manuscript on the procedure of separation of palynomorphs from fine to coarse grained sediments. I would be glad send you the manuscript soon for your kind comments. I would like to publish it in a journal, if possible, somewhere in the U.S.A.

Wishing you all the best.

Very truly yours,

(Khalilur R. Chowdhury)

Hunt Institute for Botanical Documentation

14 August, 1984

Dr. Khalilur R. Chowdhury
Geography Department
Jahangirnagar University
Savar, Dhaka
Bangladesh

Dear Dr. Chowdhury:

Recently I wrote to thank you for your most interesting "Distribution of recent and fossil...(German Bay)".

However, I cannot recall whether I asked you, as I intended to, about (p. 91, lower half, #4): "lime filters".

We are using glass filters which must be HFpdigested. Lime would be better, if otherwise comparable. Can you tell me where they can be obtained, etc.?

Best wishes.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

Dr. Khalilur R. Chowdhury

165-B Tejkunipara (1st Floor)
Tejgaon, Dhaka-15
BANGLADESH

Dhaka, May 7, 1983

Prof. A. Traverse
Department of Geosciences
College of Earth and Mineral Sciences
The Pennsylvania State University
Deike Building
University Park, Pennsylvania 16802
U. S. A.

Dear Prof. Traverse:

Thank you very much for your kind letter of April 8, 1983. Unfortunately, I have not yet recieved the reprints of my work on the southeastern North Sea from Frankfurt. As soon as they arrive here I would be glad to send you a copy.

I am very pleased to have your kind seggestions regarding my future research opportunities in the U.S.A. I am going to write Dr. N.O. Frederiksen of the USGS very soon for an advertisement.

Could you please keep it in your mind and inform me at your convenience whether there is any possiblities of carrying out my proposed research works on the Bengal Basin at an well equipped institute? I do believe that it would be a great contribution not only for scientific purposes but also for the petroleum and mineral exploration works in my country.

With very best wishes.

Yours sincerely,

(Khalilur R. Chowdhury)

Hunt Institute for Botanical Documentation

8 April, 1983

Dr. Khalil R. Chowdhury
165-B Tejkunipara (ist Floor)
Tejgaon, Dhaka
Bangladesh

Dear Dr. Chowdhury:

Dr. Burnham, our Chairman, has asked me to reply to yours of 11 March to him. I have, of course, heard of you, most recently from colleagues at Kiel, Göttingen and Frankfurt (Senckenberg, etc.). They mentioned your work on the southeastern North Sea, and I would very much appreciate a reprint of that work, if at all possible.

We are sorry that things are rather bleak for you in terms of research opportunigy. However, I know of no openin, for you in North America at the moment, though I'll certainly keep the matter in mind. You would be well qualified for a couple of positions that are open now with the U.S. Geological Survey, but one must be a U.S. national to qualify. Beyond that I can only suggest that you advertise in the Newsletter of the American Association of Stratigraphic Palynologists that you are available (c/o Dr. No O. Frederiksen, U.S. Geological Survey, 971 National Center, Reston, VA 22092).

Best wishes.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et
cc: C.W. Burnham

Hunt Institute for Botanical Documentation

Dr. Khalil R. Chowdhury

165-B Nejkunipara (1st Floor)
Tejgaon, Dhaka
Bangladesh

ভূগোল বিভাগ
জাহাঙ্গীরনগর বিশ্ববিদ্যালয়
সাভার ঢাকা। ফোন : ৩১৬০৭১ এক্স : অফিস ১৪ বাসা ৬

March 11, 1983

The Chairman
Department of Geosciences
Pennsylvania State University
University Park, PA 16802

U.S.A.

Dear sir,

I have the honour to inform you that I am working as Assistant Professor of Geology at Jahangirnagar University, Savar, Dhaka in Bangladesh. Last year I returned back from West Germany after completing different research projects on Quaternary palynology and sedimentology under the Professors Dr. U. Jux of the Geological Institute, University of Cologne and Dr. H.E. Reineck of the Senckenberg-Institute of Marine Geology and Marine Biology, Wilhelmshaven respectively. I also earned the degrees of Diplom-Geologe (M.S.) and Ph.D. from the University of Cologne. My Ph.D. Thesis entitled "Distribution of Recent and fossil palynomorphs in the south-eastern North Sea (German Bay)" has been published in the Senckenbergiana maritima, vol. 14(3/4), Frankfurt a.M., 1982, where the pollen assemblages, their origin, distribution, deposition, redeposition, and their relationship to the clastic sediments have been discussed.

My intention of joining in an university in Bangladesh was to get the opportunity to continue my palynological research works and to do a comprehensive study on the palyno-stratigraphy of the Tertiary and Quaternary sequences of the Bengal Basin. It may be mentioned here that very few has yet been carried out on the stratigraphic divisions of these deposits (more than 12000 m thick in the geosynclinal part of the Basin), especially of the Bangladesh part. Fossil faunas are almost absent in these sediments.

But unfortunately it is not possible for me to fulfill my desire at this moment, as the financial and other facilities are very limited for the project.

It will, therefore, be very much helpful for me if I could get such opportunities in your Department. Further, I will also be ready to work for any other research projects, your Department is already engaged with. I would be very grateful to you if you kindly give your valuable suggestions in this matter. I will be glad to send you my detailed curriculum-vitae and a statement of my research plan, if necessary.

Thanking you very much.

Very truly yours,

(Dr. Khalil R. Chowdhury)

Department of Geography Jahangirnagar University Savar Dhaka. Phone : 816071 Ext : Off 14 Res 6

Hunt Institute for Botanical Documentation

April 30, 1969

A. Traverse

W. Christoffers

Dear Mr. Christoffers:

As provided by a letter from the appropriate NSF officials, dated August 27, 1968, we have permission to pay scientists who assist us in our data-processing work on grant GN-782.

We propose to pay to Dr. Wilhelm Klaus, of the Paleontological Institute of the University of Vienna, for a day's work for us, 2 May, 1969. I herewith request that a check be drawn, payable to Dr. Klaus in the amount of $100, and charged to Budget 424-04 NSF Paly Data (6610). It would be appreciated if the check could be ready on Friday, 2 May, 1969.

Thank you.

Alfred Traverse
Associate Professor of Geology & Biology

AT:kwc

Approved:

_____
M.E. Bell, Director
E & MS Experiment Station

Hunt Institute for Botanical Documentation

From: Ray Christopher <christ7@CLEMSON.EDU>
Return-path: <christ7@CLEMSON.EDU>
To: bettyandal@juno.com
Date: Fri, 30 Jan 1998 16:28:49 -0500
Subject: Jan's Response
Message-ID: <2.2.32.19980130212849.006a7610@mail.clemson.edu>
X-Status: Read
X-Mailer: Windows Eudora Pro Version 2.2 (32)

Dear Al,

After sending my email earlier today, I got to wondering if I should have mentioned that the attachment was prepared in Microsoft Word version 7. I,
too, have had the problem of attachments containing page after page of jibberish.

Rather than mail a copy of Jan's response, I'll just retype it here . . .
hope you don't mind the typos.

"You sure got the right address for your question -- and I'll regurgitate the crow that I ate more publicly already some years ago, and down it again
for your amusement.

"When I looked at the Code (and plant names in general), I found that, generally, plant names in -is are feminine; trees are always (99%) feminine,
regardless of their ending. Because so many differences had been evident in
this matter, I proposed (and practised in the Genera File) the notion that
palynomorph names in -is should be uniformly considered as feminine in gender, including those in -pollis and -sporis. Those in -sporites, really
ending in -ites, were masculine for that reason. I ran into resistance on
this matter, partly from people who considered it a political sin to have "male organs" be assigned a female gender; and, partly, from people who reminded me that the Code says that assignment of the gender is always done
by the first author. In this case, they considered that the suffix of the
name ...sporis was not "-is," but rather "-sporis" and that Potonie, the first to use this suffix, had assigned it a masculine gender. The same argument holds for the suffix "-pollis." I bowed to these arguments, that
seemed to follow general practise, anyway, and I didn't want to be more catholic than the pope on this matter. So, I did, by now several years back, write a brief explanation on this matter, and its history, and ate crow and admitted that all the cases in the Genera File where I had used the
female gender, were actually incorrect.

"So, your colleagues are right. (A propos, if we were to use "abditus" in a
female genus, it would become "adbita;" however, "endocuspis," ending in -is, would remain "endocuspis" in combination with a female generic name. In
combination with a neuter name, the two would be declined resp. as "abditum"
and "endocuspe.")"

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Funny thing, Al, but as I reread Jan's response, I can actually hear his voice, accent and all.

I hope this proves useful. Please give my best to Betty.

Regards,

Ray Christopher

Department of Geological Sciences
Clemson University
Clemson, SC 29634-1908
Tel: (864) 656-1897
Fax: (864) 656-1041
email: christ7@mail.clemson.edu

Hunt Institute for Botanical Documentation

From: Ray Christopher <christ7@CLE[redacted]ON.EDU>
Return-path: <christ7@CLEMSON.EDU>
To: bettyandal@juno.com
Date: Fri, 30 Jan 1998 07:19:21 -0500
Subject: A Word of Thanks
Message-ID: <2.2.32.19980130121921.006a678c@mail.clemson.edu>
X-Status: Read
X-Mailer: Windows Eudora Pro Version 2.2 (32)

--=====================_886180761==_
Content-Type: text/plain; charset="us-ascii"

Dear Al,

Thanks so much for your quick response to my S.O.S. We're especially relieved to know that the fossil flowers will not be saddled for all eternity with the name given to their pollen.

Jan provided a great deal of help in straightening out the questions regarding orthography, and I'm appending his response to this message, as I
thought you might find it useful.

>From my correspondence with Rick Luppia and Hallie Sims, I gather that the
current manuscript may be the first of several that deal with fossil flowers, as they have recovered a considerable number of very well preserved
flowers from just a few localities. I don't know why, but I've become quite
excited about my work; maybe it's because I'm once again involved in broadly
applicable, truly multidisciplinary endeavors, or perhaps the apparent enthusiasm on the part of my colleagues is contagious. But whatever the reason, I'm sure enjoying it.

Once again, Al, thanks for your help. Knowing I can lean on old friends may
also kindle those flames of enthusiasm.

Regards,

--=====================_886180761==_
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Content-Transfer-Encoding: base64
Content-Disposition: attachment; filename="Jansonius 1-30-98.doc"

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Hunt Institute for Botanical Documentation

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WjlCWjlCWjlCWjlCWjExUjExUjExUjExUjExUjExUhgQCBgQCBgQCBgQCBgQCBgQCAglIQgl
IQglIQglIQglI

From: Ray Christopher <christ7@CLEMSON.EDU>
Return-path: <christ7@CLEMSON.EDU>
To: traverse@ems.psu.edu
Date: Thu, 22 Jan 1998 12:07:13 -0500
Subject: Request for Nomenclatural Help
Message-ID: <2.2.32.19980122170713.0069d618@mail.clemson.edu>
X-Status: Read
X-Mailer: Windows Eudora Pro Version 2.2 (32)

Dear Al,

You have probably heard by now that I returned to academia a couple of years ago after 15 years in the oil patch. It certainly feels good to be surrounded by youth and energy once again, but it was a bit of a shock when I tried to adjust to the changes that have taken place in higher education during the past 25 years. It appears that the inmates are now running the asylum, and not only do students have the right to attend college, they apparently have (and demand) the right to succeed.

But as to my reason for contacting you . . . A few months back, I became involved with a couple of paleobotanists (Rick Luppia, post-doc at the Field Museum of Chicago, and Pat Herendeen of George Washington University), who have recovered numerous fossil flowers from the Cretaceous of the Coastal Plain of Georgia and South Carolina. Their request of me was twofold: 1) provide age information and stratigraphic control for their samples; and 2) examine the pollen extracted from the anthers of their flowers and determine if a valid name exists for the pollen. The palynomorph recovery was so good that I had no trouble placing the samples stratigraphically, and to my surprise, the pollen from two of the flowers can be assigned to validly published palynomorph taxa. These findings are, of course, quite exciting, and I've been extended an invitation to co-author the manuscript. But before we forge ahead, I would like to clarify a couple of taxonomic issues, and toward this end I am soliciting your help.

The palynomorph species that were extracted from the anthers are: Complexiopollis abditus Tschudy 1973 and Pseudoplicapollis endocuspis Tschudy 1975. Our questions regarding the taxonomy of these findings are as follows:

1. Should the specific epithets be spelled "abdita" and "endocuspa," respectively? I believe that the gender suggested by "_pollis" is female, and if so, the specific epithet should conform accordingly. Am I also correct that if we change the spelling of the specific epithet to reflect conformity of gender, we do not have to modify citation of the author?

2. Should the name of the flower equate with the name assigned to the pollen? Both Complexiopollis and Pseudoplicapollis are form-genera, and I'm

Hunt Institute for Botanical Documentation

unsure how the current Code treats form-genera vis-a-vis flowers.

We sure would welcome your comments on both issue, Al. I gather that Rick
has his part of the manuscipt pretty much completed, but I have another couple of weeks of measuring, documenting, and photographing the pollen before I'm ready to write-up my part, so we are in no special hurry to finalize our thoughts.

On a more personal note, one of our recent graduates is pursuring his graduate work at Penn State. The student's name is Jody Gibson, and he was
graduated from Clemson with high honors. I believe his research involves meteorological modeling, so your paths may not cross, but I thought I'd pass
on the information that he's one hard-working student. If you ever have the
chance to get him involved in your work, I'm confident he will exceed your
expectations.

Well, tempus fugit, Al, and I've fugited away enough of your tempus for now.
I look forward to hearing from you, and thank you in advance for your help.

Regards,

Ray Christopher

Department of Geological Sciences
Clemson University
Clemson, SC 29634-1908
Tel: (864) 656-1897
Fax: (864) 656-1041
email: christ7@mail.clemson.edu

Hunt Institute for Botanical Documentation

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

26 October, 1987

Dr. Raymond A. Christopher
Arco Oil & Gas Co.

P.O. Box 2819
Dallas, TX 75221

Dear Ray:

I have a note to myself from your interesting demo at Halifax (Dartmouth?) to write for more info on the Hurta Board (sp.?) that you demonstrated as a link to the computer for recording occurrence. That looked to be something I should try to get.

Thanks for the ride back to the hotel!

Yours very truly,

Alfred Traverse

AT/et

Hunt Institute for Botanical Documentation

14 August, 1984

Dr. Raymond A. Christopher
Arco E & P Research
P.O. Box 2819
Dallas, TX 75221

Dear Ray:

Thanks for info re course(s?). I am somewhat torn, as the SEPM deal is a bird-in-the-hand. Nevertheless I'll write ol' George immediately.

I'll see you in DC in October if you're there.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

ARCO Oil and Gas Company
Exploration and Production Research
Post Office Box 2819
Dallas, Texas 75221
Telephone 214 422 3000
Plano, Texas

Geological Research

August 8, 1984

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

Dear Al:

The short course on Quantitative Biostratigraphy will be held at the Marriott Hotel in New Orleans on Saturday and Sunday, March 23, 24, 1985. The course is sponsored by NAMS and will be held immediately prior to the AAPG-SEPM meeting. Details regarding registration have not been finalized, but should appear in the next SEPM Newsletter; I gather that the registration fee will be approximately $125 per peron, and the enrollment will be limited to 35 participants.

Because of your interest in the course, you might want to contact George Hart, as he is interested in running the course again as part of the LSU Short Course Program. The LSU "version" is a three-day workshop that provides hands-on exposure to a number of techniques, whereas the NAMS "version" is a two-day show-and-tell coupled with several presentations on how the techniques have been applied to actual situations. From a learning standpoint, I think the LSU version would be more beneficial, but, unfortunately, its scheduling is still up in the air.

I will forward you any additional information I receive, Al. Hope to see you in October.

Yours truly,

Ray

Raymond A. Christopher

RAC/rb

Hunt Institute for Botanical Documentation

11 July, 1984

Dr. Ray Christopher
Arco
P.O. Box 2819
Dallas, TX 75221

Dear Ray:

This may be redundant, but I just got another blurb re AAPG 1885 short course in N.O. I will attend, if humanly possible! (The exact date is not included with the info--presumably May?)

Best.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

THE PENNSYLVANIA STATE UNIVERSITY
DEIKE BUILDING
UNIVERSITY PARK, PENNSYLVANIA 16802

College of Earth and Mineral Sciences
Department of Geosciences
Palynological Laboratories

Area Code 814
863-3419

1 September, 1983

Dr. Ray Christopher
Arco Exploration
P.O. Box 5590
Denver, CO 80217

Dear Ray:

Just saw news of possible new quantitative short course--
I want to be in that when it occurs!

Best.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

10/10/83

Al:

Plans call for a 2-day course to be held in conjunction with the 1985 meeting of the North American Micropaleo Society, June, New Orleans. I will see to it that you are informed.

Ray

Hunt Institute for Botanical Documentation

1 September, 1983

Dr. Ray Christopher
Arco Exploration
P.O. Box 5590
Denver, CO 80217

Dear Ray:

Just saw news of possible new quantitative short course--
I want to be in that when it occurs!

Best.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

ARCO Oil and Gas Company
Exploration and Production Research
Post Office Box 2819
Dallas, Texas 75221
Telephone 214 422 3000
Plano, Texas

Geological Research

December 21, 1982

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

Dear Al:

Your letter of November 30 arrived just a few days before I left for Alaska; hence my delay in answering you.

The short course was designed as a hands-on workshop on quantitative biostratigraphy, and included step-by-step instructions on graphic correlation, no-space graphs, probabilistic biostratigraphy, similarity coefficient matrix contouring, cluster analysis, principal coordinates analysis, and biostratigraphic fidelity. Also included were discussions of univariate tests of hypotheses, discriminant function, unitary associations, and several other techniques. The handouts for each of the techniques that were covered in-depth included a cookbook outline of the procedures, the data base to be analyzed, work sheets, a list of references, the "major" article describing that technique, and a computer program for the technique.

I do not know how useful the course notes would be to you, considering their outline and work sheet nature. However, if you would like a copy of the notes, contact George Hart at 644 Leeward Drive, Baton Rouge, Louisiana 70808.

I do not have a copy of the "student" notes; all I have is the "instructor's" copy.

Several people have inquired about the possibility of a second offering of the short course, including Dewey McLean, Graham Williams, and Reed Wicander. I don't know what George's plans are at present, but if enough interest is generated, I am sure he will consider sponsoring it again.

Have a Happy Holiday Season, Al, and I hope to see you in San Francisco come October, if not before.

Yours truly,

Ray

Raymond A. Christopher

RAC:cs

Hunt Institute for Botanical Documentation

30 November, 1982

Dr. Raymond A. Christopher
Arco Oil and Gas Company
P.O. Box 2819
Dallas, TX 75221

Dear Ray:

One of my major disappointments for 1982 was that I couldn't take part in your short course at LSU on "data management". I was already signed up for Evitt's dino short course for June-July at Stanford and couldn't justify another course in the same approximate time-frame. Besides, I couldn't have left PSU, because our Spring Term was still in session.

Any chance of having something to read about it--or is that impractical?

Hope all goes well with you. Happy holidays.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

United States Department of the Interior

GEOLOGICAL SURVEY
RESTON, VA. 22092

November 9, 1981

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

Dear Al:

The "key to Normapolles" manuscript that Dave Batten and I put together is now in press (Rev. Palaeobot. Palynol.), and should be published this spring in a special issue devoted to the Normapolles Symposium held in conjunction with the ICP. I don't know if I previously sent you a copy of the manuscript, but enclosed is the version that will be published. I hope you can make use of it.

Give my best to all at Penn State, and my sympathies to Joe Paterno.

Yours truly,

Kay

Raymond A. Christopher

Hunt Institute for Botanical Documentation

29 October, 1981

Dr. Raymond A. Christopher
U.S. Geological Survey
National Center
MS 971
Reston, VA 22092

Dear Ray:

I had a note to myself to use your "key to Normapolles" for my palynology course this year (because of sabbatical, the course was last given two years ago). Am I dreaming about this, or did you send me such a thing? My card says it is filed as a reprint, but it isn't. Can you help?

Hope all is well with you.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

Al, We did this for Vol 4. Check your copy. Thanks again for the suggestion

VB

January 21, 1980

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

Dear Al:

I agree wholeheartedly with your suggestion that the full bibliographic citation should be indicated on the first page of each article published in Palynology. I will forward a copy of your letter to Vaughn with my concurrence added, as it is he who has the final word on such matters.

Thank you for letting us know how we can improve our journal. Please do not hesitate forwarding any other suggestions you might have. Each little improvement makes the journal that much better.

Yours truly,

Raymond A. Christopher

Vaughn -

I think al has a good idea. I believe we discussed this before, but I can't remember what was said. Do me a favor and write him about your decision on the matter.

Ray

Hunt Institute for Botanical Documentation

AMERICAN ASSOCIATION OF STRATIGRAPHIC PALYNOLOGISTS, INC.

Editorial Staff

January 21, 1980

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

Dear Al:

I agree wholeheartedly with your suggestion that the full bibliographic citation should be indicated on the first page of each article published in Palynology. I will forward a copy of your letter to Vaughn with my concurrence added, as it is he who has the final word on such matters.

Thank you for letting us know how we can improve our journal. Please do not hesitate forwarding any other suggestions you might have. Each little improvement makes the journal that much better.

Yours truly,

Ray

Raymond A. Christopher

MANAGING EDITOR
Vaughn M. Bryant Jr.
Anthropology Research Lab.
Texas A & M University
College Station, Texas 77843

JOURNAL EDITOR
Raymond A. Christopher
U. S. Geological Survey
970 National Center
Reston, Virginia 22092

NEWSLETTER EDITOR
Douglas J. Nichols
U. S. Geological Survey
Mail Stop 919, Box 25046
Denver, Colorado 80225

Hunt Institute for Botanical Documentation

15 January, 1980

Dr. Raymond A. Christopher
U.S. G.S., National Headquarters
MS 971
Reston, VA 22092

Dear Ray:

Perhaps this should be going to somebody else, but I know I can count on you to re-route.

The editors of Palynology should give serious consideration to printing on the first page of each article the full bibliographic citation: Palynology 3:69-85, 1979 (or whatever). This is particularly useful for the reprints (or xerox copies!). I was reminded of this as I sit here reading Fred May's Dinogymnium article in reprint. I am at home, and there is no way I can make a bibliographic citation. Doubtless you have noticed that most (all?) paleo journals provide such an imprint on p. 1 of each article.

The quality of reproduction and layout, printing, etc., of Palynology is superb.

All the best.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

XXXX

4 September, 1979

Dr. Raymond A. Christopher
U.S. Geological Survey, National Headquarters
MS 971
Reston, VA 22092

Dear Ray:

Thanks for the good letter of 24 August. Glad to hear the news re S-T paper. I reckon I'll just trust it to the eternal now. I appreciate your help.

Glad to have the standing invitation. I would have visited for sure if I had been down there. My daughter has been living in Alexandria during "Oklahoma!". Betty went on down to Charlottesville where our son, John, is a graduate student.

We have Samine Artüz of Turkey here for September (cf DPSP Vol. 20), and Pfefferkorn is coming for a couple of days around 18 September--plus usual Fall Term madness, so we're busy.

See you in Dallas, as you say.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

AMERICAN ASSOCIATION OF STRATIGRAPHIC PALYNOLOGISTS, INC.

PRESIDENT: Jack D. Burgess
Gulf Research & Development Co., Expl. Serv. Div.
P.O. Drawer 2038
Pittsburgh, Pennsylvania 15230

SECRETARY-TREASURER: John A. Clendening
Amoco Production Co.
P.O. Box 3092
Houston, Texas 77001

VICE PRESIDENT: Evan J. Kidson
Amoco Production Co., Research Center
P.O. Box 591
Tulsa, Oklahoma 74102

EDITOR: Vaughn M. Bryant, Jr.
Palynology Laboratory
Texas A&M University
College Station, Texas 77843

August 24, 1979

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

Dear Al:

About three weeks ago I returned the entire edited galleys for volume 3 to Vaughn. Along with the galleys, I included the letters I had received outlining some of the major "problems" with the type-setting of the papers (my own included). In my cover letter to Vaughn I strongly suggested that he look at the revision made by Hart Graphics and compare them to the complaints in the authors' letters to make sure that these, at least, are corrected. (In my paper, 5 text-figures were mounted sideways). I also reiterated your suggestion that a second set of galleys be distributed. I doubt that a second set of galleys will be distributed for financial reasons and time restraints, but the final decision is Vaughn's. If you're still concerned, call him at (713) 845-5242 and check on your paper. It's out of my hands at this point.

Sorry you didn't make it down to D.C. with Betty; if the chance comes up again, you have a standing invitation to visit our labs.

See you in Dallas come October.

Yours truly,

Ray

Raymond A. Christopher
U.S. Geological Survey
970 National Center
Reston, VA 22092

COUNCILOR: Jocelyne A. Legault
Dept. of Earth Sciences
Univ. of Waterloo
Waterloo, Ontario, Canada NZL 3G1

COUNCILOR: John E. Bennett
Atlantic Richfield Co.
P.O. Box 2819
Dallas, Texas 75221

COUNCILOR: William C. Elsik
Exxon Company, U.S.A.
P. O. Box 2189
Houston, Texas 77001

Hunt Institute for Botanical Documentation

xxxxx

20 August, 1979

Dr. Raymond A. Christopher
US Geological Survey
National Headquarters, MS 971
Reston, VA 22092

Dear Ray:

Just talked to my co-author, Paul Strother, and we were discussing our editorial difficulties with the paper "in press" in Palynology. Can you let me know what happened? As you know, I was especially worried about that dreadful "text-figure" business. Also, I wondered if, under the circumstances, we should see a second proof?

Hope all is well with you. My daughter is playing in "Oklahoma!" at Kennedy Center, and Betty went down last week to see it, but, alas, I couldn't get away.

Yours cordially,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

7 December, 1978

Dr. R. A.Christopher
US Geological Survey
National Headquarters
MS 971
Reston, VA 22092

Dear Ray:

Thanks for yours of 29 November regarding the Strother-Traverse manuscript. Before I opened the envelope I had some trepidations because I feared it was about Jack Wolfe's review of the Bebout-Traverse paper. I feel bad about that, as I probably should have insisted more than I did that Bebout get a lot of help from Leo Hickey before final submission. I do remember having a few misgivings about a couple of things and insisting that he clear them with Leo. If he did I find it hard to understand how it could have been so far off base. Yet one must respect Jack's expertise. in the field.

Best wishes to you of the season.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

United States Department of the Interior
GEOLOGICAL SURVEY
RESTON, VIRGINIA 22092
971 National Center

November 29, 1978

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

Dear Al:

Your manuscript, coauthored with Paul Strother, arrived here safely last week. I will shortly (?) begin editing it, and if all goes well, volume 3 should be out by spring or early summer.

Yours truly,

Ray

Raymond A. Christopher

RAC:gc

Hunt Institute for Botanical Documentation

21 November, 1978

Dr. Raymond A. Christopher
U.S. Geological Survey
National Headquarters, Mail Stop 971
Reston, VA 22092

Dear Ray:

When I got back from Phoenix there was a package from Paul Strother containing the revised MS of the Paleozoic paper in response to reviewers' comments. Because of end-of-term flurry, exams and other matters, I have only just got around to reading the letter from Paul and comparing the revised MS with the comments of the reviewers. To save time, I now send you the whole thing, as received from Paul--it appears to me that he has handled the suggestions satisfactorily. I have made some additional minor editorial corrections and additions and have written Paul about a couple of others about which I was not sure.

Best wishes as ever.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et
encl: MS
cc: Strother

Hunt Institute for Botanical Documentation

18 August, 1978

Dr. Raymond A. Christopher
US Geological Survey
971 National Center
Reston, VA 22092

Dear Ray:

I got your note penned on the bottom of the copy of the letter to Paul. I enclose herewith the sort of outline biography that I guess you want and hope that it is satisfactory. Thanks and best wishes.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et
cc: P. Strother
encl: biographical outline

Hunt Institute for Botanical Documentation

Alfred Traverse is Professor of Palynology at the Pennsylvania State University and Adjunct Professor of Geobiology at Juniata College. He was formerly palynologist for Shell Development Company, Houston, Texas, and coal technologist for the Bureau of Mines. He was a student of E. S. Barghoorn at Harvard. His doctoral dissertation on the Pollen and Spores of the Brandon Lignite was published as a monograph in 1955 by the Bureau of Mines. His best known other work was a study of recent palynomorph sedimentation in the Bahamas. Traverse is now active in palynological research in the early Paleozoic, at the Devonian-Carboniferous boundary, in the Triassic/Jurassic and in the Neogene of the Black Sea. He is also currently President of the International Commission for Palynology. Address: Deike 435, University Park, PA 16802.

Hunt Institute for Botanical Documentation

23 May, 1978

Dr. Raymond A. Christopher
U.S. Geological Survey
971 National Center
Reston, VA 22092

Dear Ray:

Thanks for yours of 17 May. I'm glad to hear the manuscript arrived, but was sorry to hear the plates were bent, but relieved that the damage was not too severe. As far as the original manuscript is concerned, I would say if it is possible for you to do so without any problems put it into one of your government shredding machines that I remember reading about in some connection. By all means don't let it stick around, though--too embarrassing!

Best wishes to you.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

AMERICAN ASSOCIATION OF STRATIGRAPHIC PALYNOLOGISTS, INC.

PRESIDENT: William C. Elsik
Exxon Company, U. S. A.
P. O. Box 2189
Houston, Texas 77001

SECRETARY–TREASURER: Jack D. Burgess
Gulf Research & Development Co., Expl. Serv. Div.
P. O. Drawer 2038
Pittsburgh, Pennsylvania 15230

VICE PRESIDENT: Warren S. Drugg
Chevron Oil Field Research Company
P. O. Box 446
La Habra, California 90631

EDITOR: Vaughn M. Bryant, Jr.
Palynology Laboratory
Texas A&M University
College Station, Texas 77843

May 17, 1978

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

Dear Al:

Your manuscript, "Plant remains from Silurian rocks of Pennsylvania," co-authored with Paul Strother, arrived in yesterdays mail. The plates were a little bent, but not beyond repair.

I've sent letters to two potential reviewers asking if they would look over the manuscript, and it should take a couple of months before I get the reviews back. When I do, should I send their critiques to you or Paul?

I still have the original manuscript in a folder. Shall I "can" it, send it back to you, or hold onto it? I'd like to get it out of here to avoid confusion, so let me know how I can dispose of it.

Yours truly,

Ray

Raymond A. Christopher
U.S. Geological Survey
971 National Center
Reston, Virginia 22092

RAC:gc

P.S. Just received your letter: — yes, I have the original figures and table.

COUNCILOR: Richard L. Pierce
Mobil Oil Corporation, ESC
P. O. Box 900
Dallas, Texas 75221

COUNCILOR: Norm O. Fredriksen
USGS National Center, Stop 971
12201 Sunrise Valley Drive
Reston, Virginia 22092

COUNCILOR: Evan J. Kidson
Amoco Production Co., Research Center
P. O. Box 591
Tulsa, Oklahoma 74102

Hunt Institute for Botanical Documentation

12 May, 1978

Dr. Raymond A. Christopher
U.S. Geological Survey
971 National Center
Reston, VA 22091

Dear Ray:

Paul Strother and I have had a conference about the manuscript of our joint paper, and he has made all of the changes that I requested. I now think the paper is in excellent condition. I have sent it to you under separate cover with the original plates and some glossy prints of photos of the plates. According to Paul you should have the originals of the figures and table (figures 1-3 and table 1), but I have put in with the original manuscript xerox copies of my original copies of the illustrations in question. Let me know if I have left out something.

Best wishes to you as always.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

18 April, 1978

Dr. Raymond A. Christopher
U.S. Geological Survey
971 National Center
Reston, VA 22091

Dear Ray:

I just got back a letter I sent off to Vaughn Bryant with a penned note on it. I think my letter and the note from Vaughn are self-explanatory, and I therefore send you the same letter! The gist of it is that Paul Strother and I have been working on the revision of the manuscript to get it into shape for final submission. I gather that the revised MS might as well go directly to you instead of to College Station and back!

Best wishes.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et
encl: letter originally sent to Vaughn Bryant
cc: Paul Strother

Hunt Institute for Botanical Documentation

xxxx
865-2342

28 July, 1977

Dr. Raymond A. Christopher
USGS, National Center
MS 971
Reston, VA 22092

Dear Ray:

Thanks for yours of 11 July. Your comments on the Carolina sample are interesting and agree with what I had found. On restudying the slides after hearing from you I began to think that I should have said Turonian, based on the rather primitive tricolporates and the general aspect of the dicot pollen, along with the spores, rather than based on any particular species at this point. I had of course noticed the absence of typical normapolles things. I believe if one spends enough time on one's backside Looking at more slides one will eventually find some characteristic forms that will corroborate my hunch of earlier upper Cretaceous on the one hand, or your hunch of Tertiary on the other.

Thanks also for the reprint. Best wishes.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

7/11/77

Al:

Received your letter and the slides on Friday. So far I've only spent about ½ hour on the material and I'm noncommittal about the age. None of my "old friends" from the U.K. are there (i.e. Rugulbrevaculata, some of the Normapolles) and I don't yet know what to call it. I'm thinking of showing it to Norm Fredriksen to see if it looks Tertiary to him.

I'll call you when I get results. And thanks for your prompt attention.

Ray Christopher

Hunt Institute for Botanical Documentation

1 July, 1977

Dr. Raymond A. Christopher
U.S. Geological Survey
National Meadquarters
971
Reston, VA 22092

Dear Ray:

Under separate cover, a copple of slides from Core P7R, Pull 3, ca 795', collected by me from the cores of the Dumbarton Basin, North Carolina, from the Savannah AEC in 1974. Also, a xerox copy of my original letter to Wendell Marine.

We just made these slides from our original residue (my sample 74-3=T-677; maceration PRC #2705). I can't find the original slide at the moment, and I am puzzled a bit because the concentration of palynomorphs is so low. That doesn't agree with my recollection (or the letter!). Also my age-guess ("Campanian") is probably too late, based on the half-hour I just spent looking at the flora--mostly Cicatricosisporites sp. and smallish tricolporates. I'd still go with "Upper Cretaceous", of course.

Let me hear from you. I still thought in terms of working this up for a small note.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et
encl

Hunt Institute for Botanical Documentation

March 13, 1975

Dr. Raymond A. Christopher
Department of Geology
Auburn, AL 36830

Dear Ray:

Tate gave me a Xerox copy of your MS just before I checked into the hospital for knee surgery. (I originally figured to be here five days or so, but I have had a bad reaction to certain dressings they used, and am just now ready to go home, after twelve (!) days.) I brought the paper with me and am now responding. I will be interested to discover how my opinion differs from his! -- remember, I am laced with anti-pain pills! (In vino veritas?)

First of all, your "validation" of the names might be superfluous, if a proposition now before the Botanical Congress is adopted and made retroactive-- to abolish the requirement of Artical 42 that a combined description must be referred to the genus, not the species.

Second--I used to get lots of those guys in the surface sediment of a particular little stream near Houston when I worked for Shell (only from that one stream). I called them "fingerprint", and I assumed because of their distribution they were algal, fresh-water "bugs" of some sort. Also, the color (which I don't note that you comment on) is wrong for a spore-- at least that of mine was, and I don't recall that they took stain very well either. As far as I can tell from the pictures, yours are identical. These jobs surely have nothing to do with Circulina, properly defined. Why do you think they are spore/pollen?

I am sending you the copy of the MS because it has a number of red pencil notes that may interest you; such matters as your consistent misspelling of nomen nudum, etc.

Best wishes in your new job!

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et
Encl. MS

Hunt Institute for Botanical Documentation

Raymond A. Christopher

change address card!

AUBURN UNIVERSITY

AUBURN ALABAMA

36830

SCHOOL OF ARTS AND SCIENCES

Department of Geology

Telephone 826-4282
Area Code 205

file copy

February 14, 1975

Mr. H. Tate Ames
Deike Building
Pennsylvania State University
University Park, Pennsylvania 16802

Dear Tate:

Enclosed is a copy of the manuscript I've been slaving over for about a year (which averages out to 8.95 words per day), and I would very much appreciate your comments on all aspects of the paper, especially the soundness of my taxonomic reasoning. I'm sorry that the copy of the plate is not very good, but hopefully you can make out the important features. Let me know if you'd like a photographic copy and I'll try to get one run off.

The manuscript was prepared according to the "instructions to authors" supplied by the editors of Micropaleontology. If you are familiar with their format, and if you see any changes which need to be made on the manuscript, please make them. But I'd rather you concentrated on content rather than format.

If you haven't heard as yet, I'll be leaving Auburn at the end of the Winter Quarter to join the U.S.G.S. in Reston, Virginia. Fred May, Norm Frederiksen and I will constitute the palynologists responsible for the biostratigraphy of the Coastal Plain, and our first job is to get a lab started. Fred and I met on a couple of occasions, and we hit it off quite well. Since October, we've been corresponding regularly, and I'm sure we'll work well together. Norm and I are also good professional friends, and I think the three of us will make a pretty good team. If you don't get around to the manuscript before March 17th, please forward it to my new address:

U.S. Geological Survey, National Headquarters
971
Reston, Virginia 22092

By-the-way, my request for information concerning the Catalog was with respect to the new job. The order should come through sometime this spring.

Hunt Institute for Botanical Documentation

If you think Al would be interested in reading the manuscript, please pass it on to him before returning it. The more reviewers, the safer I feel.

Thanks again for your help, Tate. I'll be sure to acknowledge your effort in my behalf.

Sincerely,

Ray

Raymond A. Christopher
Assistant Professor

RAC:etl

Hunt Institute for Botanical Documentation

THE PENNSYLVANIA STATE UNIVERSITY
DEIKE BUILDING
UNIVERSITY PARK, PENNSYLVANIA 16802

College of Earth and Mineral Sciences
Department of Geology and Geophysics
Organic Sediments Laboratories

Area Code 814
865-6545
865-6543

4 March, 1970

Mr. Raymond A. Christopher

etc.

Dear Ray -

I feel as if the sun and moon had fallen on me — Jr. Sanders, after months of saying he was on the point of leaving, has done a complete turn-about, and now says that unless I point-blank fire him, he won't leave. After several long conferences with him and with my superiors, I conclude that we are effectively stymied. He won't quit (although he twice submitted written resignations), and the university balks at dismissing him. So, there we are, and I am the one who must absorb the blame, and you are the one who is hurt, if anybody is.

We are preparing a formal letter for Jr. Sanders setting the termination date as 1 June, 1971, with

Hunt Institute for Botanical Documentation

THE PENNSYLVANIA STATE UNIVERSITY
DEIKE BUILDING
UNIVERSITY PARK, PENNSYLVANIA 16802

College of Earth and Mineral Sciences
Department of Geology and Geophysics
Organic Sediments Laboratories

Area Code 814
865-6545
865-6543

university approval. Of course, we should have done this in the first place, for the year, but I had no idea it would work out as it has. If a man tells me he is looking for a job and mentions specific dates of departure, I believe him.

Should it work out that you are employed in some temporary capacity, which I suppose is doubtful, you are still my candidate to replace ROS in June, 1971.

I am terribly sorry for the confusion, and for the embarrassment and hardship this may have caused you.

Yours very truly,

Alfred Traverse

Hunt Institute for Botanical Documentation

Department of Geology
Louisiana State University
Baton Rouge, Louisiana 70802
February 19, 1970

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

Dear Dr. Traverse:

It is quite an honor to be asked to join your Palynology Data Retrieval group at Pennsylvania State University, and I am pleased to accept your offer. Both my wife and I are anxiously awaiting the start of the forthcoming academic year. To finalize my acceptance, I would appreciate your sending me written confirmation of this appointment.

In preparation for September, I intend to contact the Computer Research Center at Penn State and inquire about the statistical programs available, so that I can obtain source decks for programs in the LSU computer library to supplement those at Penn State. In addition, Dr. Hart has given me permission to microfilm his library of publications on Permian palynology, containing some of the lesser known Russian papers.

I can only hope that my effort in working with the Palynology Data Retrieval system lives up to the confidence you have shown in me.

Yours truly,

Raymond A. Christopher

Raymond A. Christopher

Hunt Institute for Botanical Documentation

Home phone
504-342-5469
504-388-6192

Department of Geology
Louisiana State University
Baton Rouge, Louisiana 70802
February 2, 1970

Dr. Alfred Traverse
Department of Geology and Geophysics
Pennsylvania State University
University Park, Pennsylvania 16802

Dear Dr. Traverse:

During the A.A.S.P. Meeting last October, you mentioned the possibility of an opening on your faculty, to begin in September, 1970. I delayed exploring this possibility until the new year was underway, and budgetary considerations more stabilized.

My background in palynology includes work with Recent and fossil miospores, calcareous and siliceous nannofossils, and acid resistant phytoplankton. In addition to taxonomic and stratigraphic work with these groups, I have compiled a complete bibliography of the Silicoflagellates, a complete bibliography and generic catalog of the Archaeomonadaceae, a complete bibliography of Cretaceous miospores (excluding Russian publications), and a visual catalog of Cretaceous miospore species (presently about three-fourths finished).

My statistical training has emphasized the analysis and interpretation of data, rather than the development of data storage and retrieval systems. In my opinion, data storage and retrieval systems function only when put to use, and the larger the system, the greater the need for proper statistical interpretation. My formal education in statistics includes courses in introductory statistics, advanced statistical methods, design and analysis of experiments, nonparametric statistics, and applied least squares. I have also had the opportunity to work for the past year as a graduate research assistant in the Department of Experimental Statistics and Louisiana State University, which has allowed me to apply my training.

I am enclosing a copy of my personal vitae and transcript of course work completed at Louisiana State University for your inspection. Letters of reference and additional information can be sent if requested.

Thank you for your consideration, and I hope my qualifications fit your needs.

Yours truly,

Raymond A. Christopher

Raymond A. Christopher

Hunt Institute for Botanical Documentation

file as corresp.

PERSONAL VITAE

NAME: Raymond A. Christopher.

DATE OF BIRTH: October 11, 1943.

PLACE OF BIRTH: Brooklyn, New York.

NATIONALITY: United States Citizen.

ACADEMIC BACKGROUND:

1. B. S. - University of Rhode Island, major in Geology, minor in Mathematics (1962-1965).

2. M. S. - University of Rhode Island, major in Geology, minor in Botany (1965-1967).

   Thesis Title: "Plant Microfossils from an Upper Cretaceous Coal Deposit in Block Island, Rhode Island."

   Advisor: Dr. Eugene J. Tynan.

3. Present Status - Candidate for the degree of Doctor of Philosophy, Louisiana State University, major in Areal Geology, minor in Paleontology.

   Dissertation Title: "The Application of Statistical Techniques to the Palynological Biostratigraphic Zonation of the Lowermost Coastal Plain Deposits in Western Alabama."

   Advisor: Dr. George F. Hart.

HONORS AND AWARDS:

1. February, 1969 - Accepted position as Graduate Research Assistant, Department of Experimental Statistics, Louisiana State University.

2. September, 1969 - Awarded the Pan American Petroleum Foundation, Inc., Fellowship in Geology.

MEMBERSHIP IN PROFESSIONAL AND HONORARY SOCIETIES:

1. Phi Kappa Phi National Honor Society.

2. Gulf Coast Section, Society of Economic Paleontologists and Mineralogists.

3. The American Association of Stratigraphic Palynologists.

Hunt Institute for Botanical Documentation

PUBLICATIONS:

1. Lower Mississippi Valley: Baton Rouge to Vicksburg.
   Co-authored with James H. Darrell II, Robert W. Pierce, Llyod Simpson, G. Charles Smith and C. O. Durham.
   Guidebook, Firts Annual Meeting, Am. Assoc. Strat. Palynologists, Oct. 17-19, 1968, Baton Rouge, Louisiana.

2. In Manuscript:

   The Statistical Model in Palynofloral Analysis.
   Co-authored with George F. Hart.
   Read at: Second Annual Meeting, Am. Assoc. Strat. Palynologists, Oct. 22, 1969, University Park, Penn.

Hunt Institute for Botanical Documentation

091344731

156314 LOUISIANA STATE UNIVERSITY AND A. & M. COLLEGE

RAYMOND | ANTHONY | CHRISTOPHER
First Name | Second Name | Surname

Graduated | Degree | Course | Major | Minor

TITLE OF COURSE	DEPT.	COURSE NUMBER	GRADE	CREDIT CARRIED	CREDIT EARNED	QUALITY POINTS
SUMMER 1967 156314		PHD	8			
GULF COAST FLD GEOL 3.000	GEOL	220	A	8	8	24
				9	8	24
8 8 24						
AUGUST 1967 156314						
CONVERTED TO 4-POINT SYSTEM BY ADDING NUMBER OF HOURS ATTEMPTED TO QUALITY POINTS EARNED.						
L.S.U. 8 8 32				0.000		
OVERALL 33 39 131				3.969		
+8 +8 +32						
9-27-67: Passed Qualifying examination for the degree of Ph.D. in the field of Geology. MG						
1ST SEM 1967-68 156314	GRAD	7 PGEOL				
BASIC STAT METH	EXST	201	A	4	4	16
GERMAN FOR GRAD STUD	GERM	021	NC			
ADV PALEONTOLOGY	GEOL	201	A	3	3	12
ANAL SEDIMENTS	GEOL	233	A	3	3	12
18 18 72 4.000				10	10	40
51 51 203 3.980						
2-3-68: Passed Graduate School Foreign Language Test in German.MG						
2ND SEM 1967-68 156314	GRAD	7 PGEOL				
ADV STATISTICAL METH	EXST	202	A	4	4	16
PLANT ECOLOGY	BOTY	138	A	4	4	16
DELTAIC GEOLOGY	GEOL	124	A	3	3	12
29 29 116	4.000			11	11	44
62 74 247	3.984					

OVER

Home Address

73½ Pond Street, Wakefield, Rhode Island, 02879

Res ☐ T. Res. ☐ Non Res ☒

Date of Birth October 11, 1943 | Place of Birth New York, New York

Name and Address of Parent or Guardian Harold Christopher, 171-36 Ashby Ave., Flushing, New York

Secondary School Bayside High School, Bayside, New York | Date of Graduation from Secondary School June 1960

High School Transcript on file ☐ | Date of Matriculation June 1967

Transfer Credits from Illinois Institute of Technology(1960-62); Univ. of Rhode Island,(1962-65)

Degree and Date BS 1965 | Average 1.80

Note: Transcripts on file.

GRADUATE RECORD:
Univ. of Rhode Island,
(Fall/65-Fall/66)

	Sem. Hrs.
Botany	9
Geology	17
Zoology	7
	33

Note: 98 Sem. Qual. Pts.

SUPPLEMENT:
GRADUATE RECORD:
University of Rhode Island,
(Sp/67) MS 1967

Note: 6 hrs.-Res.-with grade of "S"

Enrolled: Sem & Yr.

367
368
268
368
169
269
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Hunt Institute for Botanical Documentation

SS 091344731
156314 LOUISIANA STATE UNIVERSITY AND A. & M. COLLEGE RAYMOND ANTHONY CHRISTOPHER

TITLE OF COURSE	DEPT.	COURSE NUMBER	GRADE	CREDIT CARRIED	CREDIT EARNED	QUALITY POINTS
SUMMER 1968 156314	GRAD 7 PGEOL					
DISSERTATION RES	GEOL	400	S	1		
29 29 116	4.000					
62 74 247	3.984					
1ST SEM1968-69 091344731	GRAD 7 PGEOL					
NONPARAMETRIC STAT	EXST	221	A	3	3	12
SEMINAR GEOL LIT	GEOL	228A	A	2	2	8
SEDIMENTARY PETROL	GEOL	231	A	3	3	12
37 37 148	4.000			8	8	32
70 82 279	3.986					
2-12-69: Passed General Examination for the degree of Ph.D. in the field of Geology. PEK						
2ND SEM 1968-69 091344731	GRAD 7 PGEOL					
DISSERTATION RES	GEOL	400	S	9		
37 37 148	4.000					
70 82 279	3.986					
SUMMER 1969 091344731	GRAD 7 PGEOL					
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CREDITS ARE EXPRESSED IN SEMESTER HOURS UNLESS OTHERWISE INDICATED. UNLESS SPECIFIED THE STUDENT IS ENTITLED TO HONORABLE DISMISSAL.

ALBERT CLARY, REGISTRAR

10-16-69 BY Jeanette Sauve

Hunt Institute for Botanical Documentation

July 10, 1959

Mr. L. R. Church, Manager
Arrowhead Coal Mine
Haynes, North Dakota

Dear Mr. Church:

Many thanks for your prompt and courteous reply to request for information about the oxidized lignite used for drilling mud. In retrospect, I realize I should have given you more information about why I wanted these data. I have been doing a little work on the lignite in question, in cooperation with the Baroid Division, National Lead Company, here in Houston. They suggested you might be able to give me the information I needed on the tonnage production of leonardite lignite for this purpose.

What I really need to know is the approximate tonnage of oxidized lignite mined in North Dakota for marketing as a drilling mud constituent. I had hoped to get an approximate figure by combining the tonnage you report with that the Knife River people gave me. Unfortunately, Mr. Kane at Knife River states that they do not keep figures on the oxidized lignite. I have written Mr. Kane again asking him for an educated guess.

I fear that I am imposing on your patience, but it would be quite interesting if you were willing to take a crack at a rough guess at what the total tonnage of the stuff for the whole state of North Dakota mined in 1958, or some other typical year, might be. How about it?

Very truly yours,

Alfred Traverse

AT:mpd

Hunt Institute for Botanical Documentation

THE CHURCH PENSION FUND

April 1, 1975

Dear Dr. Traverse:

As a follow-up to your telephone call of this morning, I am pleased to confirm that your Credited Service began on June 23, 1965 and that there has not been any 'break' in your assessment schedule. If assessments are paid to June 23, 1975 you will have ten (10) full years of Credited Service.

On the assumption that St. Paul's Church, Philipsburg, were to pay assessments in your interest to June 23, 1975, you as an inactive priest would have the option of paying assessments personally for up to one year on your compensation of record, $7,500, and thus maintain full on-going protection under The Fund for the period you were to be temporarily inactive. The monthly assessment would be $112.50.

I hope that this information will be of assistance. Should any further particulars be needed, please do not hesitate to let me know.

Sincerely yours,

The Reverend Canon
S.W. Goldsmith, Jr., D.D.
Secretary
The Church Pension Fund

The Reverend Alfred F. Traverse, Jr., Ph.D.
P.O. Box 967
State College, PA 16801

SWG:gs

800 SECOND AVE. (AT 42 ND ST.) NEW YORK, N.Y. 10017

Hunt Institute for Botanical Documentation

P.O. Box 967
State College, Pennsylvania
16801
September 5, 1967

The Church Union, Inc.
P.O. Box 198
Pelham, New York 10803

Dear Friends:

Several months ago I asked for a small supply of each number of the American Church News for promotional purposes. What I wanted was something on the order of 6-10 copies each month. Lately I have been getting much larger bundles--about 50 this month. Some of these will undoubtedly be wasted, which seems a shame.

Could you see to it that I get no more than, say, 10 copies a month for promotional purposes?

Yours very truly,

(The Rev.) Alfred Traverse

AT:kaw

Hunt Institute for Botanical Documentation

file: Ciciarelli

January 15, 1976

Dr. George Shombert, Jr.
Beaver Campus Promotion Committee
Brodhead Road
Monaca, PA 15061

Dear Dr. Shombert:

This is a rather belated answer to yours of 17 December which arrived, of course, during the Christmas rush and then was buried under other things on my dusk. I have looked over all of the materials you sent regarding John Ciciarelli and find them quite in keeping with my own recollection of John's ability as a teacher of Geology of the College level. In other words, within the scop of the requirements of the Beaver Campus, there is absolutely no doubt that John should be promoted as you all are proposing, and as a member of your committee (I believe I am a member of the Committee?) I would concur heartily in your finding.

However, I find -yself in a rather embarrassing predicament at the moment inasmuch as I am also an elected member of the Tenure and Promotion Committee of the Department of Geosciences here on the University Park Campus, I am being required to evaluate Dr. Ciciarelli's qualification in entirely different lights here. The fact is that if John were a member of the University Park faculty, he could not be promoted at this time or in the foreseeable future because he does not qualify in certain ways that make no difference at all to your program on the Beaver Campus. It is all very perplexing. As two examples as whereI mean--his publication record is not of the sort that University Park professors are expected to produce, and he is not active in national geological circles in the ways that are expected of people here. As a matter of fact, he is not even a member of the Geological Society of America (which I find rather startling, even considering that he is at the Beaver Campus!). In other words, if I vote according to the directives that I understand I would find myself voting

Hunt Institute for Botanical Documentation

vigorously for John's promotion as a member of your committee and against it as a member of the committee here at University Park. This may seem incomprehensible but really isn't. It merely underlines that there is no sense whatsoever in treating promotion on one of the branch campuses under the same lights as one treats similar cases on this campus. Best wishes.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT:jb

cc: Dr. Muan

Hunt Institute for Botanical Documentation

April 16, 1971

Mr. Ronnie Cima
1419 Dilston Road
Silver Springs, Maryland 20903

Dear Ronnie:

Thank you very much for your interesting letter of 31 March, which was here awaiting my return from a recent business trip. I'm glad that you enjoyed your visit to Penn State but, really, I don't think I did anything out of the ordinary. We are naturally pleased when people from outside the state think that our institution is a place they might like to attend. Wouldn't you know I would put my foot in it by making all those cracks about Dartmouth when it turns out that your grandfather was such a prominent alumnus! I'm sure you won't go far wrong no matter which way your decision happens to turn.

Best wishes to your dad as well as to you.

Yours very truly,

Alfred Traverse
Professor of Geology & Biology

AT/vsi

Hunt Institute for Botanical Documentation

Also wrote Cima & Nat. Petrol. Council Sr. Scholar

March 31, 1971

Dear Professor Traverse,

I would like to thank you for all your efforts in assisting me in my visit to Penn State. I know that you went to a lot of trouble to show us the campus and I really appreciate it. I still have not made my decision yet, but hope to make it soon. By the way, if you are interested, my grandfather Snow started that tradition at Dartmouth of wearing green beanies freshman year by suggesting it to the college president. Thanks again.

Sincerely,

Ronnie Cima

Ronnie Cima
1419 Dilston Rd.
Silver Spring, Md. 20903

Hunt Institute for Botanical Documentation

September 2, 1975

Dr. Maria Bianca Cita
Istituto de Paleontologia
Piazzale Gorini 15
20133 Milano, Italy

Dear Dr. Cita:

I have read the draft of "Palynological---DSDP Site 132..." with great interest. I am sure that my results in the Black Sea will be of interest to you too. The sediments are almost 100% palyniferous and seem to extend to top Miocence at one site.

More later.

Best wishes for your work--thanks for the draft.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT:jb

Hunt Institute for Botanical Documentation

DR. ALFRED TRAVERSE
529 Deike Building
Pennsylvania State University
University Park, Pa. 16802

30 July, 1975

Dr. Maria Bianca Cita
Istituto di Paleontologia
Piazzale Gorini 15
20133 Milano, Italy

Dear Dr. Cita:

Thanks for your interesting note of 8 July, which was here when I arrived the other day from the Congress in Leningrad.

Ken Hsü sure gets around! He was right that I am interested in your work on the Messinian deposits. It was my best educated guess in the Black Sea that our deepest core ended in the Messinian. Of course, without library, etc., it was indeed only an educated guess.

The draft of your paper hasn't turned up yet, but I have still not opened all of my mail!

Best wishes. I'll write after I've read the paper.

Yours very truly,

Alfred Traverse

Alfred Traverse

Excuse typing--my secretary resigned during my absence!

Hunt Institute for Botanical Documentation

UNIVERSITÀ DEGLI STUDI DI MILANO

ISTITUTO DI PALEONTOLOGIA

20133 Milano, PIAZZALE GORINI, 15 - TELEFONO 292.813

July 8, 1975

prof.Alfred Travers
The Pennsylvania Atate University
Department of Geosciences
Deike Building, University Park
Pennsylvania 16802

Dear professor Traverse,

I heard from Ken Hsu that you are interested in a paper on which prof.Bertolani Marchetti and I are working, concerning the palynology of some Messinian deposits from the Tyrrhenian Basin. So, I am mailing to you a draft of the paper, looking forward receiving your comments on it.

I know you had very interesting findings in the Black Sea, and would like very much to know more about them.

With best personal regards I am

yours sincerely

Maria Bianca Cita

Hunt Institute for Botanical Documentation

THE UNIVERSITY OF TEXAS Department of Geology
AUSTIN 12, TEXAS

Clabaugh

24 Jan., 1966

Dear Steve:

In connection with my search for an appropriate hat-rack I must leave town for a couple of interviewsx 1-4 February. I hope this doesn't inconvenience anybody here, but it can't really be helped because it's either now or doing term time here or there.

Alfred Traverse

Al, Don't hesitate to take this time and to ask for any later time away for similar purpose. Thanks for letting me know. Steve

Hunt Institute for Botanical Documentation

THE UNIVERSITY OF TEXAS *Department of Geology*
AUSTIN 12, TEXAS

13 January, 1966

Dear Steve:

I hope you will remember my interest in Arlington State when the people from there come through. Their names escape me.

Southwestern in Georgetown and Southwest Texas in San Marcos have each responded with a "impressed with your credentials, but no intention of starting geology at this time" letter.

Thanks,

Al Travers

Hunt Institute for Botanical Documentation

THE UNIVERSITY OF TEXAS Department of Geology
AUSTIN 12, TEXAS

29 Dec '65

Al,

I have read the proposal and like it (speaking personally, of course). I believe that it can be revised slightly and "tightened up" (shortened) by rewording — but nothing major seems desirable.

I have not checked up on recent rules and procedures. Maybe you

Hunt Institute for Botanical Documentation

should go over this with Bill Muehlberger if you can catch him, and check with Mr. ~~John~~ Jens Jacobsen (M.B. 1504, tower, that is), who is head of the Office of Sponsored Projects. I would like to keep the senior faculty informed of this proposal, too, if you don't mind.

Steve

Hunt Institute for Botanical Documentation

THE UNIVERSITY OF TEXAS Department of Geology
AUSTIN 12, TEXAS

27 Dec., 1965

Dear Steve:

Attached is a rough sort of draft of proposal for research which I would like to submit to NSF in a last-ditch effort to save the state of Texas from the ignominy of having no (non-oil co.) paleobotany going on.

I have talked with Bill Newcomb at the Museum, and he says that it is probable (possible?) that the Museum would provide a technical connection for me so that I could carry on with research at Balcones should the proposal be approved and if I can't stay here.

I would appreciate any and all comments.

Hunt Institute for Botanical Documentation

THE UNIVERSITY OF TEXAS Department of Geology
AUSTIN 12, TEXAS

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I would appreciate any and all comments.

Hunt Institute for Botanical Documentation

22 December, 1965

Dear Steve:

I reckon I need to see you at your early convenience regarding arrangements for my course for next term. Five people have so far indicated an intention to take the course, which I guess assures it will be offered (if nobody changes his or her mind). I guess that considering that it is well known that I have next to no facilities and not exactly rosy prospects, that is a pretty good showing.

What I need to learn from you is:

1. Where can I work with the students, lab-wise? I need a hood, a centrifuge (better, two centrifuges), gas and water available. Also need access to a cut-off saw of some kind (crude is o. k.) and to grinding laps (ditto). Perhaps you could be thinking of some way that we could approximate some combination of these things.

2. Have we any more info re availability of a half-dozen student type biological microscopes?

3. Is it o. k. to order immediately the things on the attached list for use in the course? If so, please pass on to Lavergne for processing.**

Yours etc.

Al T.

**The problem here is that most of the things are items that would be used repeatedly if the course were repeated. As a one-shot deal it sounds steep. Almost all of the things are potentially useful to other people if I don't stay.

Hunt Institute for Botanical Documentation

22 Dec. 1965 Traverse

Immediately (soon as possible)

1. From Transilwrap Co., 3303 Gillham Rd., Kansas City, Missouri 64109, (quote attached), 100 ft. roll of clear acetate, .003 thick ~~xxxxxxxxxxxx~~ — 100' — $10.26 — $10.26

2. From Arthur H. Thomas Co., Philadelphia 5, Pa., U. S. A.: Hone, Yellow Belgian, # 7193, @ $25.75 — 1 — $25.75 — $25.75

From:

3. Norton Abrasives, Worcester 6, Mass.:
#280 Crystalon grinding powder — 1 lb. — ca.$1
#400 " " " — 1 lb. — " — $2.00

From: General Biological, Inc., 8200 South Hoyne, Chicago,

4. ~~xxxxxxxxxxxxxxxxxxxxxxxxx~~ Ill., 60620
Plant fossil restoration charts, #CR-985 — 1 set — $17.50 — $17.50

From Wards Natural Science Establishment,

5. P. O. Box 1712, Rochester 3, New York

Balsam, neutral, filtered, Wards # 37W9522 — 1 lb. — $12.00

Hunt Institute for Botanical Documentation

6.	Same source as above (Wards) Caedax mountant, #57W9600	1 pkg.	$5.90	$5.90
7.	Same source as above (Wards) Lakeside 70 Thermoplastic Cement Cat. # 28W1300	doz. bars		$3.50
8.	Same source as above (Wards) Epoxy Patch Kit 0151 Catalog #15 W 4509	1	$2.95	$2.95
9.	From W. H. Curtin, #3507 Rubber Cushions, for 15 ml. International shields	1 doz.	$1.08	$1.08
10.	From Matheson Scientific, #10201-20 Centrifuge tubes, conical, 15 ml., "Autoclear" for International centrifuge (polycarbonate)	20	.35	$7.00
11.	Same source as above: centrifuge tube caps for ½ tubes of the above type, cat. #10202-20	1 dozen	$3.36	$3.36

Hunt Institute for Botanical Documentation

22 Dec., 1965

Dear Steve:

Though I know this is a busy season, I have the feeling that I need to talk with you about the subject raised the other day--a bit more. There are some things I really need to understand lest I misrepresent this to myself and others.

1. You mentioned misgivings about my supervising graduate students. But I seem to remember that when I came here one of the misgivings expressed about me was that I wouldn't attract students. Yet, without even trying, I have two students (Anderson and Kessler) who want to work with me. How could I show ability to work with graduate students without working with any?

2. My efforts (on which I have spent considerable time and effort) to find research space have all been predicated on the assumption that I had a fighting chance (maybe a long shot) to stay here another year. I am coming to the conclusion that this is not the case--not so much on the basis of what anybody has said, but the general tone of things. In brief, what reason is there for me to move my library and samples etc. to Balcones? I don't mind 2:1 odds, but it looks more like 100:1.

3. Honestly, was there ever any chance at all of a second year for me? (I'm not talking about a permanent appointment, but a second year) The answer to this question is important, because I contemplate great difficulty in peddling an assistant professor who was let go after one year unless I can tell a darned good story.

Please excuse my frankness--I don't want to be irritating, but there happen to be six people whose meals are at stake.

Al Traverse

Hunt Institute for Botanical Documentation

(4)

22 December, 1965

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2. Have we any more info re availability of a half-dozen student type biological microscopes?

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Hunt Institute for Botanical Documentation

BALCONES RESEARCH CENTER
THE UNIVERSITY OF TEXAS
ROUTE 4, BOX 189
AUSTIN, TEXAS

December 2, 1965

Dr. S. E. Clabaugh
Chairman
Department of Geology

Dear Dr. Clabaugh:

Reference is made to Dr. Alfred Traverse's letter of October 25, 1965, requesting space at the Balcones Research Center for his program of research.

I have reviewed his request for a total of 900 square feet, the amount of space he feels is necessary to conduct his program of research and find the program conforms to the long range growth plan of the Center. We do not have such an amount of space available, but through the cooperation of Dr. W. W. Newcomb, and Dr. Dee Ann Story, some space can be assigned to you on a temporary basis as a means for him to begin his program.

The space so assigned is in Building No. 28, now occupied by the Archeological Salvage Project, under the supervision of Dr. Newcomb. When the building is no longer needed by Dr. Newcomb and his staff, a new appraisal of the space will be made contingent upon the overall need at that time.

In accordance with Dr. Traverse's request the laboratory will be appropriately identified as The Plant Paleontology Laboratory.

Normal maintenance services will be supplied by Balcones Research Center. Furniture and like items will be furnished by the Center. All special items or construction costs will be reviewed with you by the writer to determine appropriate means of covering the costs. Such services as telephone charges, etc., must be covered by funds available to you.

In return for services and facilities provided, it is understood that the Department of Geology will maintain a level of technical competency and performance, justifying the support of the program; that personnel of the laboratory will abide by the rules and regulations of the Center and that an annual report will be submitted to the Center, reflecting the technical accomplishments of the Laboratory.

It will be necessary for our office to have personnel identification forms on all personnel connected with the Laboratory. This includes faculty who may desire access at any time to the Laboratory. A sample form is attached.

We are looking forward to the development of your program and if we can be of further assistance, please call on us.

Very truly yours,

J. Neils Thompson
Director

JNT:kh
Enclosures

cc: Dr. Norman Hackerman
Vice-Chancellor for Academic Affairs

Dr. Alfred Traverse and Dr. W. W. Newcomb

Hunt Institute for Botanical Documentation

LABORATORIES & DIRECTORS

ARCHEOLOGY LABORATORY
Dr. W. W. Newcomb

ARCHEOLOGICAL RESEARCH
Dr. D. A. Story

ARCHITECTURAL PROCESS RESEARCH
Prof. Philip D. Creer

BUREAU OF ECONOMIC GEOLOGY
Dr. Peter T. Flawn

I. Well Sample & Core Library
Mr. Philip S. Morey

II. Mineral Studies
Mr. D. A. Schofield

III. Atomic Energy Commission Austin Section
Mr. D. L. Norton

CRUSTAL STUDIES
Dr. W. R. Muehlberger

CIVIL ENGINEERING STRUCTURES RESEARCH
Prof. Phil M. Ferguson

STRUCTURES FATIGUE RESEARCH
Dr. A. A. Toprac

DRUG-PLASTICS RESEARCH AND TOXICOLOGY LABORATORY
Dr. John Autian

ELECTRICAL ENGINEERING RESEARCH
Dr. A. W. Straiton

ANTENNAS & PROPAGATION
Dr. A. H. LaGrone

ATMOSPHERIC SCIENCE
Mr. K. H. Jehn

GEOMAGNETICS
Dr. H. W. Smith

MILLIMETER WAVE PROPAGATION & ASTRONOMY
Mr. C. W. Tolbert

ENGINEERING MECHANICS
Dr. E. A. Ripperger

ETHOLOGY
Dr. R. K. Selander

EXPERIMENTAL APIARY
Dr. W. R. Lee

EXPERIMENTAL AERODYNAMICS, DEFENSE RESEARCH LABORATORY
Dr. M. J. Thompson

MECHANICAL ENGINEERING PROPULSION LABORATORY
Dr. J. P. Lamb

MICROPALEONTOLOGY LABORATORY
Dr. Samuel P. Ellison

MILITARY PHYSICS, DRL
Mr. Allen Hutton

NUCLEAR PHYSICS
Dr. Emmett L. Hudspeth

PETROLEUM ENGINEERING OIL WELL CORE DEPOSITORY
Dr. Sylvain J. Pirson

PHYSICAL ANTHROPOLOGY
Dr. T. W. McKern

PLANT ECOLOGY RESEARCH
Dr. Calvin McMillan

PLANT PALEONTOLOGY
Dr. Alfred Traverse

POPULATION ECOLOGY LABORATORY
Dr. Howard G. Merriam

RADAR FIELD STATION, DRL
Mr. D. M. Lauderdale

RADIATION BIOLOGY
Dr. E. L. Powers

RADIOCARBON DATING
Dr. M. A. Tamers

RADIO ASTRONOMY
Dr. J. N. Douglas

RHYTHMIC SYSTEMS
Dr. M. Menaker

ENVIRONMENTAL HEALTH ENGINEERING
Dr. E. F. Gloyna

STRUCTURAL MECHANICS
Prof. J. Neils Thompson

VERTEBRATE PALEONTOLOGY
Dr. John A. Wilson

VISION RESEARCH
Dr. Gerald H. Jacobs

File Clabaugh

The BALCONES News

BALCONES RESEARCH CENTER, THE UNIVERSITY OF TEXAS

PROF. J. NEILS THOMPSON, *Director* COL. LESLIE S. MOORE, USA (Ret), *Executive Assistant and Editor*

#157
December 1, 1965

Defense Research Laboratory
Experimental Aeromechanics Division

Dr. M. J. Thompson, Director of the Experimental Aeromechanics Division, Professor of Aerospace Engineering and Associate Director of Defense Research Laboratory, attended the annual meeting of the American Society of Mechanical Engineers held in Chicago, Illinois, during the week of November 7-12, 1965.

On November 12, 1965, Dr. Thompson visited the Aerospace Research Laboratories of the Air Force Office of Aerospace Research, Wright Air Development Center in Dayton, Ohio. While at the laboratories he conferred with engineers and scientists concerning problems of aero-thermodynamic research, particularly those concerning skin friction, heat transfer and flow interference problems at supersonic and hypersonic speeds.

Defense Research Laboratory
Military Physics Division

Mr. Allen Hutton, Head of the Division, announced the recent employment of the following employees:

Mr. Harold W. Roper, Office Supervisor
Mr. Leslie K. Shepherd, Technical Staff Assistant

The Summit 4-H Club

The Summit 4-H Club, a member of the Travis County 4-H Clubs, having a membership of some 40 members has been granted permission to meet the 3rd Thursday of each month in the Auditorium of the Balcones Research Center in Building No. 19.

Plant Paleontology (New Laboratory)

Dr. S. E. Clabaugh, Chairman of the Department of Geology, announced the establishment at the Research Center of a new laboratory, sponsored by the Department and named Plant Paleontology.

The research program will involve studies in the areas of palynology, general paleobotany and coal petrography. The activity will be conducted in Building No. 28 with the cooperation of the Archeology Laboratory who now occupy most of the building.

Dr. Alfred Traverse, Assistant Professor of Geology, and a recent member of the faculty will be the Director of the newest of laboratories at the Center.

(over)

Hunt Institute for Botanical Documentation

Publication Recently Received

Your Editor recently received the following publication and it is available for loan in Room 4, Building No. 19, Administrative Office:

1965 Encyclopedia Science Supplement
Library of Congress Card No. 64-7603

This book contains much information on:

Archeology - Biology - Earth Sciences - Man and this World - Physical Sciences - Psychology, Space Exploration Technology - Projects and Experiments

Contributing staff numbers 58, including Dr. Fillmore H. Sanford, Professor of Psychology, University of Texas.

Balcones Research Center

Your Editor served as a member of the Educational Group in the General Briefing for the Atomic Energy Commission site location team who visited Austin on November 19, 1965. He was an alternate for Professor J. Neils Thompson, Director of the Center, who was out of the city on that day.

Other members of the Group were:

Dr. Emmett L. Hudspeth, Professor of Physics, Group Leader

and

Dr. Wilson S. Stone, Vice-Chancellor
Dr. H. P. Hanson, Chairman of the Department and Professor of Physics
Mr. Ernest Cabe, Assistant Superintendent, Austin Public Schools

The team visited three (3) sites in Austin and heard briefings from some five (5) groups on Environment, Education, Utilities, Support Facilities and Geology and Construction.

Professor J. Neils Thompson, Director of the Research Center, Professor of Civil Engineering and President of the National Society of Professional Engineers (NSPE) attended the following meetings on the dates indicated:

Second Annual Southwestern Regional Conference, NSPE	Dallas, Texas November 11-13, 1965
Southeast Regional Conference NSPE	Cocoa Beach, Florida November 15-16, 1965
NSPE Public Relations Seminar for the Engineering Profession	New York, New York November 17-19, 1965
NSPE Intersociety Relations Committee	Washington, D. C. November 28-29, 1965
International Association of Engineers and Architects	Mexicali, Baja, California, Mexico, November 30, 1965

Hunt Institute for Botanical Documentation

THE UNIVERSITY OF TEXAS
DEPARTMENT OF GEOLOGY
AUSTIN, TEXAS 78712

VICE-CHANCELLOR FOR ACADEMIC AFFAIRS, U. OF T.
REC'D JUN 28 1965
REFER TO .....
HANDLE ..... READ & RETURN .....

June 24, 1965

AL – this is evidence of approval of your appointment SEC.

BUDGET FOR 1965-66

Prior Approval Requested for Dr. Traverse @ $8500

Dean Burdine
W. M. G. B. 201
The University

Dear Dean Burdine:

In accordance with our recent conference, I recommend that Dr. Alfred F. Traverse be appointed Visiting Lecturer in Geology for the 1965-66 academic year at a salary of $8,500.

Dr. Traverse is a specialist in Paleobotany. He received his Ph.D. at Harvard, where he was praised by his supervisor, Dr. Elso Barghoorn, as the best student he had trained. He has been employed by the U. S. Bureau of Mines and Shell Oil Company as a research scientist, and he has published numerous scientific articles.

The Budget Council of the Department of Geology recommends that Dr. Traverse be appointed on a visiting status from salaries of professors on leave. It is possible that we will recommend some type of continuing appointment subsequently.

Sincerely yours,

Steve Clabaugh

S. E. Clabaugh
Chairman

SEC:jas

Approved by Dr. Hackerman

OFFICE OF THE DEAN
COLLEGE OF ARTS & SCIENCES
Rec'd
Approved JUN 28 1965
Original Signed By
J. A. BURDINE
Dean of College
Refer to .....

Hunt Institute for Botanical Documentation

THE UNIVERSITY OF TEXAS
DEPARTMENT OF GEOLOGY
AUSTIN, TEXAS 78712

June 24, 1965

BUDGET FOR _____

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Chairman

SEC:jas

Original Signed By
J. A. BURDINE

Hunt Institute for Botanical Documentation

THE UNIVERSITY OF TEXAS
DEPARTMENT OF GEOLOGY
AUSTIN, TEXAS 78712

June 24, 1965

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The University

Dear Dean Burdine:

In accordance with our recent conference, I recommend that Dr. Alfred P. Traverse be appointed Visiting Lecturer in Geology for the 1965-66 academic year at a salary of $8,500.

Dr. Traverse is a specialist in Paleobotany. He received his Ph.D. at Harvard, where he was praised by his supervisor, Dr. Elso Barghoorn, as the best student he had trained. He has been employed by the U. S. Bureau of Mines and Shell Oil Company as a research scientist, and he has published numerous scientific articles.

The Budget Council of the Department of Geology recommends that Dr. Traverse be appointed on a visiting status from salaries of professors on leave. It is possible that we will recommend some type of continuing appointment subsequently.

Sincerely yours,

S. E. Clabaugh

S. E. Clabaugh
Chairman

SEC:jas

Approved by Dr. Hackerman

Original Signed By
J. A. BURDINE

Hunt Institute for Botanical Documentation

511 East 47th St.
Austin

1 May, 1965

Dr. S. E. Clabaugh
Chairman, Department of Geology
University of Texas
Austin

Dear Steve:

Everything is in the egg-in-the-fan condition around here, with term papers, final examinations, and all that. (Except for the dissertation, this B. D. degree has been fully as hard to get as the Ph. D. Of course, that's a big exception.) This coming week doesn't look much better, but I am going to try very hard to get over for at least one day. My last examination is on the 17th, and Commencement on the 25th, so I am bound to be free pretty soon!

It will be important for me to find out considerably more about the course for the fall, so that I can start preparing for it. We also need to discuss the possibility of getting some money from somewhere to get some basic materials for teaching paleobotany-coal petrography-palynology. By far the best way would be for me to drive a small truck to some of the Kansas-Illinois-Nebraska-Dakotas places and collect for a couple of weeks. With my contacts, this would be very productive and relatively inexpensive. But it would take some money. You might be thinking about this, or at least of whom to sic me on.

It has also occurred to me that it would be desirable for many purposes if you could let me have something in writing confirming our telephone conversation of a couple of weeks ago. I expect in finding housing and whatnot I might need some proof of employment.

See you soon.

Yours very truly,

AC

Alfred Traverse

* April field trip meeting

Hunt Institute for Botanical Documentation

THE UNIVERSITY OF TEXAS Department of Geology
AUSTIN 12, TEXAS

30 Dec. 1964

Dr. Alfred F. Traverse
511 Eadst 47th Street
Austin, Texas 78781

Dear Dr. Traverse,

Perhaps we met or talked on the telephone when Dr. Barghoorn was here; I know he spoke of you.

Our mutual friend Bill Kaufmann of W. H. Freeman + Co. recently spoke of you and wondered whether you might not return to scientific-academic life some day. If you have been considering the posibility, please come talk over your ideas with us here at the Dept. of Geology, if you think we might assist. Perhaps we will want someone in your field, although we have no immediate opening in sight.

Hunt Institute for Botanical Documentation

At any rate, we would like to know you and your interests. Call my office (GR1-3661) to check whether I am here and come by at your convenience.

Sincerely,

Steve Clabaugh

Hunt Institute for Botanical Documentation

THE UNIVERSITY OF TEXAS Department of Geology
AUSTIN 12, TEXAS

30 Dec. 1964

Dr. Alfred F. Traverse
511 East 47th Street
Austin, Texas 78751

Dear Dr. Traverse,

Perhaps we met or talked on the telephone when Dr. Barghoorn was here; I know he spoke of you.

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Hunt Institute for Botanical Documentation

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Sincerely,

Steve Clabaugh

Hunt Institute for Botanical Documentation

THE UNIVERSITY OF TEXAS Department of Geology
AUSTIN 12, TEXAS

30 Dec. 1964

Dr. Alfred F. Traverse
511 East 47th Street
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Dear Dr. Traverse,

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Hunt Institute for Botanical Documentation

At any rate, we would like to know you and your interests. Call my office (GR 1-3661) to check whether I am here and come by at your convenience.

Sincerely,

Steve Clabaugh

Hunt Institute for Botanical Documentation

To Steve Clabaugh 1965

file copy

Alfred Traverse: Personal Data

Born 7 September, 1925, at Port Hill, Prince Edward Island, Canada. Son of Rev. A. Freeman Traverse, Anglican (Episcopal) priest, and Pearle Akerley Traverse, school teacher, dietician, and Canadian government food demonstrator. Entered U. S. A. in 1928 and derive citizenship from parents' naturalization. Graduate of public schools, St. Joseph, Michigan. Valedictorian of high school class of 1943. Awarded freshman scholarship for Harvard. While there held Bowditch, Parmenter, and several other scholarships. Detur prizewinner. Elected Phi Beta Kappa at beginning of senior year. Graduated magna cum laude, major in biology, 1946, Awarded Lady Julia Henry Fellowship for study at Cambridge University. Certificate in botany from that University in 1947. University Scholar, Harvard, 1947-48. A. M. Harvard 1948, in paleobotany. Elected Sigma Xi. Ph. D. Harvard, 1951, in paleobotany (joint committee, biology and geology).

Teaching fellow (laboratory head "section man" in paleobotany, plant anatomy and morphology), freshman adviser and dormitory proctor, Harvard, 1947-51. Coal technologist, U. S. Bureau of Mines, Grand Forks, North Dakota, 1951-55. Head, Fuels Microscopy Laboratory, Denver, Colorado, 1955. Geologist (Palynologist), Shell Development Company, 1955-62. Consultant, Shell, 1962-65. (Theological student, Episcopal Theological Seminary, Austin, 1962-65)

Married Elizabeth Insley, B. A. Wellesley (in botany), 30 June, 1951. Children: Paul (13), Martha (11), John (9), Celia (3).

Hunt Institute for Botanical Documentation

Alfred Traverse: Society Activities, etc.

Member of American Association for the Advancement of Science since 1950, Fellow since 1960. Member of Botanical Society of America since 1948. Secretary-Treasurer of the Paleobotanical Section (which is virtually an independent society), 1956-59, Acting Chairman 1957, Chairman, 1960-61. Member of the Coal Geology Group of G. S. A. since 1950. Member of Paleontological Society 1950-62, when I resigned temporarily for economic reasons. Same is true of a number of other society memberships, as the New England Botanical Club, Gulf Coast S. E. P. M., etc. Member of International Association of Plant Taxonomists; since 1959 a member of their international committee on paleobotanical nomenclature (I played a major role in the reformulation of the paleobotanical rules in 1959). Member of the advisory committee of the Catalog of Fossil Spores and Pollen since its inception in 1956. (The original suggestion that the Catalog be published was mine.)

Hunt Institute for Botanical Documentation

Alfred Traverse: Additional Note on Publications

While with Shell I was unable to get clearance for publication for most of my work. The most significant research I did while there was a study of the acid insoluble microfossils on the Bahama Bank. This study revealed some very important facts about the dynamics of pollen sedimentation. The work is in the form of a monograph of about the length of my Brandon monograph and hopefully will still be published. Several other pieces of work done for Shell should eventually be released, including the project I am still working on for them--the pollen sedimentation in the Trinity River and adjoining parts of the Trinity and Galveston Bays and the Gulf of Mexico.

I am under contract with W. H. Freeman and Company to prepare a textbook of palynology and would make this a first order of business when I returned to academic life.

Hunt Institute for Botanical Documentation

PROPOSAL RATING SHEET

Evaluation should be based on scientific merit of the proposal and competence and potential for growth of the investigator(s). A brief comment as well as an over-all evaluation will be appreciated. Please return to: The Petroleum Research Fund, 1155 16th Street, N. W., Washington, D. C., 20036.

March 26, 1973

fwd as corresp.

REVIEWER

Dr. Alfred Traverse
Department of Geology & Geophysics
Pennsylvania State University
University Park, Pennsylvania 16802

Re: PRF # 6425 - AC 2
Principal Investigator:
Dr. W. B. Clapham, Jr.
Department of Geology
Case Western Reserve University

Please return with proposal by April 16, 1973

Dear Dr. Traverse:

COMMENTS

This proposal strikes me as needing editorial revision--the reader has to work pretty hard to pull the essentials of what the proposer intends to do. Nevertheless, the proposed research is potentially very interesting. I have several technical reservations about the proposal--for example, the use of "APF" and "RPF" on pp. 21-22 seems incorrect to me. Yet I feel that the proposers will doubtless make a contribution to understanding of pollen and spore sedimentation with their work. Certainly the budget is a modest one for the scale of work proposed. I only wish the proposer had succinctly summarized what he proposed to do. The abstract seems too general to me. The facilities available to the proposer are adequate, but the personnel other than the proposer are something of an unknown quantity, at least to this reviewer.

On balance, I would say that this is a pretty good proposal and could have seemed excellent to me with editorial revision. I hope that the proposer gets a chance to do this work.

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For Distribution to PRF
Staff and Advisory Board
Members Only

OVER-ALL EVALUATION

( ) Truly Exceptional
( ) Excellent
(X) Very Good (a minus rating)
( ) Good
( ) Fair
( ) Poor

Please see definitions for over-all evaluation on preceding page.

OTHER SUGGESTED REVIEWERS

Dr. E. A. Stanley
Department of Geology
University of Georgia
Athens, GA 30601

Alfred Traverse
Signature and Date

Hunt Institute for Botanical Documentation

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

14 August, 1991

Dr. G. Michael Clark
Department of Geological Sciences
306 G & G Building
University of Tennessee
Knoxville, TN 37996-1410

Dear Dr. Clark:

My lab assistant and I have given your sample of "Pond Bank" material our best shot. You will recall (my letter to you of 23 July) that I didn't have very high hopes, as the sample was poorly consolidated, which usually means oxidation and infiltration by ground water. Not a good sample.

Here's the report:

Residue: dominated (ca. 80%) by opaque charcoal-like organics, which even strong bleaching for 15 minutes in Schulze's reagent did not penetrate. Abundant fungal spores, hyphae, and mycelia, etc. Considerable woody tissue with sidewall pitting, some amorphous translucent organic matter. Very few palynomorphs!

Rough count of 4 slides, for pollen only:

Compositae	1
Quercus (oak)	3
Concentricystes (algal cyst typical of river and pond deposits)	1
Undetermined angiosperm pollen	1
Ambrosia (ragweed)	1
pine (probably Pinus strobus)	4

Obviously this small pollen flora is 100% modern contaminants.

What we need is a well consolidated piece of a more coherent, larger deposit. The organic matter here was plant debris of uncertain age--could well have been old, but it's impossible to be certain. The deep carbonization, abundant fungal remains, and lack of palynomorphs is often found in river terraces in Pennsylvania. I suspect in situ decay with abundant oxygen produces this charcoaly stuff from which palynomorphs have been removed by oxidation. A current graduate student here, with whom I've worked, has processed many dozens of such (always ±barren) organics-rich samples in our lab.

Live and learn!

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

TO AT

DATE 6.VIII.91 TIME 12:50

WHILE YOU WERE OUT

M Michael Clark

Of → 615-974-2366

Phone ↘ Univ. of TN

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

MESSAGE Have you looked at his samples yet? Pls. try to call before 2 p.m.

Signed BT

The Standard Register Company

Hunt Institute for Botanical Documentation

December 10, 1968

Dr. Howard L. Clark
Department of Botany
Duke University
Durham, North Carolina 27706

Dear Howard:

We have finally got around to running the samples of material of the Lemnaceae. The Wolffiella (#1643) stuff looked abundant enough that we might be able to use acetylation and get away with it. The results are not too encouraging. Plenty of diatoms (which we eliminated with HF) and some very interesting multicellular organs that I can't idenitfy. But there are only a few pollen grains. On the slides I am sending you I have marked one each.

On the other preparations I thought we had better use gentler means--5% KOH only, followed by staining with basic fuchsin. Only one of the preparations yielded pollen, namely that for Lemna minor, L. etc. (#1835). And I would describe that preparation as extremely poor. Still, it does permit one to see what a lemnaceous pollen grain is like.

Why don't you keep this problem in mind and, when the spirit moves you, and you see lemnaceous plants in bloom, painstakingly pick out those with good flowers in some bulk and send them to me for processing. I would appreciate it, and I would, of course, aend you duplicate slides.

Yours very truly,

Alfred Traverse
Associate Professor of Geology

AT:kwc

Enclosure: slides

Hunt Institute for Botanical Documentation

Duke University
DURHAM
NORTH CAROLINA

DEPARTMENT OF BOTANY

POSTAL CODE 27706
TELEPHONE 919—684—8111

2 August 1968

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

Dear Dr. Traverse:

I have sent to you today, by Air Mail, a package containing pollen of various Duckweed species, as follows:

H. Clark 1661, Wolffiella lingulata (Hegelm.)Hegelm., placed in 50% methanol when collected, transferred to glacial acetic acid, centrifuged, decanted, remaining acid allowed to evaporate (hastened by placing a vacuum hose in tube, with cotton plug to filter incoming air).

" 1768. Lemna valdiviana Phil. (very small, approaching L. minima Phil., but fruit characteristc of L. valdiv.) (same treatment).

" 1835. Lemna perpusilla Torr., 10% IPA (100%=90 isopropyl alcohol:5 propionic acid:5 formalin), some flowering fronds still in bottle, most removed.

" 1835. L. minor L. (var. obscura Austin sensu Daubs), (same)

" 1643. W. lingulata, 50% methanol, many fronds in large bottle (but many more also removed from bottle!)

" 3038. Wolffia papulifera Thomp., collected in 50% methanol, slowly transferred to glycerol-lacto phenol, with cotton blue (although most of the dye was washed out during transfer to the depression slide)

All of the bottles previously contained many more flowering fronds, in all stages of development, so I am quite sure that there is a sizeable residue of pollen in each of the bottles which will show up upon xxx washing and centrifugation (I hope....). The Wolffiella in the large bottle, in particular, should be very productive as most of the plants in that collection were in flower and producing abundant pollen when collected. If you have trouble finding flowers on the Wolffiellas, don't be dismayed -- it is one of those anomalous situations where you have to have seen the flowers before to be able to recognize them as such.

My abject apologies xfx for being so long in finally sending these to you, even though I had promised an immediate and speedy response. I was detained by a month-and-a-half collecting trip in the Pacific northwest as well as my usual adeptness at procrastination.

Hunt Institute for Botanical Documentation

Durham, N.C.
9 August 1968

Dear Dr. Traverse:

Enclosed are the collection-locality labels for the duckweed pollen which I recently sent to you. I trust that they have arrived in good condition, after having been assuredly handled with loving care by the postal workers.

Sincerely yours,

Howard L. Clark

Howard L. Clark
Dept. of Botany
Duke University

Hunt Institute for Botanical Documentation

The depression slide containing the Wolffia (3038) is ringed with paraffin (a technique stolen from the palynologists!), so the coverslip can be removed by simply heating the slide. There are two fertile fronds (plants, not really "fronds" which should really only be applied to ferns, but all of the literature for the past two hundred years has referred to duckweed plants as fronds, so....); the single ~~frond~~ anther is protruding from the epidermis of one frond and is near anthesis, the anther of the other frond is still inside of the frond but is seemingly also mature but not as close to anthesis. If you do not have sufficient pollen from these, I can supply you with more fertile plants.

Vouchers of all of these collections will be at Duke, USL (Lafayette, La.), Missouri Botanical, and probably elsewhere. I will shortly send you the collection localities of all of them. If you would also like to have vouchers of these, I have an elegant sufficiency of all of them so that it would be no problem to send them to you.

I have been looking for fertile Najas but so-far have seen none. I will be leaving next week for about a month in Florida, collecting duckweeds and everything else I see, so the chances are good that I will find some there.

I would, of course, very much like to have duplicate slides of whatever this assorted mass of material produces. Most of the pollen slides of duckweeds thiat I have attempted are very poor (even that is a bit euphemistic).

Sincerely yours,

Howard L. Clark

Howard L. Clark

Hunt Institute for Botanical Documentation

August 15, 1968

Dr. Howard L. Clark
Department of Botany
Duke University
Durham, North Carolina 27706

Dear Howard:

Thank you very much for the samples of duckweed pollen and the abundant data therefore, which have both arrived in perfect order. It will probably be a month or so before I have time to run the samples up, but from what you say in your letter I have no doubt that this time I have struck lemnaceous pay-dirt!

Thanks very much for your help, and I look forward to meeting you one of these days.

Yours very truly,

Alfred Traverse
Associate Professor of Geology

AT:kwc

Hunt Institute for Botanical Documentation

May 16, 1968

Mr. Howard L. Clark
Department of Botany
Duke University
Durham, North Carolina 27707

Dear Mr. Clark:

You will probably have put me down for an ungrateful wretch--really I was very pleased by your thoughtful and informative letter of 23 April, but the spring term is very difficult for me because of multiple commitments and the general crescendo phenomena as one ends the end of an academic year.

Flowering material, either whole plants or anthers or what-have-you, would be most welcome, dried or in whatever preservative you use (it really doesn't matter). Perhaps it would be interesting to look at pollen you have preserved in different ways. Whole flowers just on the point of opening are ideal, but whatever you send me is bound to be better than what I have (O)! I will try to remember to send you duplicate slides of what I run up (if I forget, you can remind me!).

It was Najas that I was referring to. I have succeeded in making good slides of Potamogeton. If you come across some decent flowering material of Najas, keep me in mind!

The paper by Beatson was new to me, probably because I haven't paid as much attention to the Quaternary literature as I should have--I am a pre-Quaternary man for the most part, and it is age of specialization! Thanks for the reference, which I shall look up one of these days.

Hunt Institute for Botanical Documentation

Thanks in advance for the duckweed material. I should be able to run up the slides in June, along with a few hundred others I have on the docket.

Best wishes.

Yours very truly,

Alfred Traverse
Associate Professor of Geology

Hunt Institute for Botanical Documentation

Duke University
DURHAM
NORTH CAROLINA

DEPARTMENT OF BOTANY

POSTAL CODE 27706
TELEPHONE 919-684-8111

23 April 1968

Dr. Alfred Traverse
Associate Professor of Geology
Deike Building
The Pennsylvania State University
University Park, Pennsylvania 16802

Dear Dr. Traverse:

Dr. Thieret has forwarded to me your letter (to him) of 10 April. I think I can help solve your 20-year plague concerning pollen of the Lemnaceae.

I have just finished my M.S. thesis at Lafayette, under the direction of Dr. Thieret, on the Lemnaceae of Louisiana. Enclosed is our joint paper on the Lemnaceae of Minnesota. (the La. thesis has not yet been published). I am presently preparing a paper on the fruits and seeds of the Lemnaceae (will probably restrict this to Lemna and Spirodela) of North America. I am beginning my Ph.D. studies here at Duke, and have started research for my Ph.D. dissertation, which will be a revision of the North American Lemnaceae. The above biography is just to explain how I happen to have pollen (or am able to find that which I don't have) of most species of the North American duckweeds. I have few collections of the Najadaceae, and do not know if any of them are in flower and with pollen, or not. (are you including only Najas in Najadaceae, or also Potamogeton and allies?).

I have looked at the pollen of some of the Lemnaceae, and have prepared amateurish slides of some of them, but have not critically studied any of it. I have some pollen separated and stored in glacial acetic, or methanol, and have fertile specimens of most species, from which pollen could easily be separated. I will be more than pleased to send to you whatever material you may want, in whatever preservative you would prefer, etc. I will spend all of next summer collecting Lemnaceae and other aquatics in the southeastern states, and part of early June in the northwest. During this time I will no doubt encounter numerous fertile collections, and would be glad to separately preserve flowering specimens for you, if you would prefer any particular method for your studies of the pollen. From my cursory examinations, it is possible that the size of the grains and the length and density of the spines may be useful to separate some of the species, but there is no great variability of shape of pollen grains within the family. There is only one paper, as far as I know, dealing with fossil pollen of the Lemnaceae, but perhaps you have already seen it: Beatson, M.E. 1955. Data for the study of post-glacial history. XV. Sub fossil pollen of Lemna in Quaternary deposits. New Phytologist 54(2):208.

I trust that I can be of some help to you. Let me know what you would like to have and it will be sent post-haste.

Respectfully yours, Howard L. Clark

Hunt Institute for Botanical Documentation

NATIONAL SCIENCE FOUNDATION

File: J.S. Clark

PROPOSAL EVALUATION FORM

NSF Form 1 (4/84)
Supersedes All Previous Editions

PROPOSAL NO.	INSTITUTION	PLEASE RETURN BY
BSR-8715251	University of Minnesota	09/19/87

PRINCIPAL INVESTIGATOR	NSF PROGRAM
Herbert E. Wright	ECOLOGY PROGRAM

TITLE: Dissertation Research: Factors Influencing Forest Dynamics in Itasca State Park, MN

Please evaluate this proposal using the criteria presented on the back of this review form. Continue on additional sheet(s) as necessary.

I have enjoyed reading this proposal and learning from it about the detailed, almost micro-analysis, of forest history now going on in Itasca Park. It seems to me that such a comprehensive treatment of work already done was not necessary under the circumstances, but such seems to be the current trend. Mr. Clark is clearly productive and imaginative, and the Minnesota lab is well known for its first-class work. The research outlined is interesting and innovative. I would say, as the sum needed is so tiny, go ahead and fund the work if possible. I have only a few varied criticisms:

1. I don't like NSF funding a microcomputer. Encoders, software packages, etc., o.k., the computer no--the university should clearly provide this sort of thing as a basic need, like desks and chairs.
2. I don't understand the vertical scale in Fig. 13 and would like the proposer to know that one moderately intelligent reviewer had this problem.
3. I object strenuously to a scientific document that uses colloquial (?) names for all plant taxa. As a competent botanist, I am sure I would know "juneberry" by its scientific name, but I don't now know what it is. Latin names, as the metric system, must be used in scientific writing. Colloquial names can be provided parenthetically.

OVERALL RATING: [X] EXCELLENT [ ] VERY GOOD [ ] GOOD [ ] FAIR [ ] POOR

REVIEWER'S SIGNATURE: Alfred Traverse

REVIEWER'S NAME (TYPED)

OTHER SUGGESTED REVIEWERS (OPTIONAL)

Dr. Alfred Traverse
Palynological Laboratories
Pennsylvania State University

REVIEWER'S COPY

Hunt Institute for Botanical Documentation

2 November, 1984

Joyce Lucas Clark
Department of Geology
Stanford University
Stanford, CA 94305

Dear Joyce:

Profited greatly from your paper at DC. Do you have a handout or something re your "mercator-like projection" exploded diagram? I could use that for teaching purposes.

Best wishes (greetings to WE).

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

Dr. R.F.A. Clarke.
B.I.P.M.
Canal van Bylandtlaan, 30
Den Haag,
Holland.
30/X/'66.

Dear Dr. Traverse,

Many thanks for your letter. I'm afraid that I do not have any reprints of my Triassic paper left. However I will send to you reprints of any further publications.

Best wishes,

Clarke

Hunt Institute for Botanical Documentation

March 31, 1972

H.W. Clarke
37 South High Street
Melrose, Massachusetts 02176

Dear Sir:

Would you please let me have information about the availability and cost of the product "Clearcol"?

Yours very truly,

Alfred Traverse
Professor of Geology & Biology

AT/vsi

Hunt Institute for Botanical Documentation

December 27, 1999

Dear friends,

This note is being sent to friends in the palynology world whom I have met during the past 32+ years of my involvement with AASP.

Many of you may know that the merger of Mobil Oil Corp. and Exxon Corp. was announced December 1, 1998. The United States Federal Trade Commission finally approved it on November 30, 1999, and implementation of the merger of the two companies is now underway.

From a personal perspective I have elected to retire. I had originally planned to work until I was 65, but the merger announcement in late 1998 pushed my timetable forward by three years, and that is **not** a problem at all for me. I joined Mobil at age 25, way back in July 1963, so the timing of the merger, and "early" retirement is just about right.

Many of you may know that my wife, Carol, and I recently purchased four acres on the outskirts of Parrsboro, Nova Scotia, Canada. Parrsboro has been an overnight stop for the past 11 years on one of Mobil's field seminars. It is a town of 1800 people located about 2 hours west and north of Halifax, NS, and about the same distance from Moncton, New Brunswick. It is a coastal town on the eastern arm of the Bay of Fundy where the tides rise and fall about 45 feet... twice a day! Our lot is part way up a gentle hill and overlooks the bay, a couple of islands, a nice view of red cliffs in the distance, and a baby lighthouse in the water. There is also a small geological museum in town, the result of numerous dinosaur fossil localities that attract many people to the area. We plan to build a log home in Parrsboro to escape the summer Texas heat, but we plan to be "snowbirds" and keep a permanent residence in the Dallas area during winter. Hopefully we can get plans finalized and building started within the next few months. Nova Scotia is especially beautiful from Spring to Fall. Sometime in 2000 we should have the home completed, and Bob & Carol's Nova Scotia home will be open for visitors.

For the present we plan to continue our involvement with AASP in the same capacity as now, so only the addresses and e-mail will change.

I should still be here at the office until the first week or two in January, then it is off to the "Great White North" for a few weeks to get things started.

We wish you all the best during this holiday season and into the New Year.

Work address (for a few more weeks):
Bob Clarke
Mobil E&P Technical Center
3033 Irving Blvd.
Dallas, TX 75247

Tel. 214-951-2971
Fax. 214-951-4415
E-mail - robert_t_clarke@email.mobil.com

Home address:
Bob and Carol Clarke
5312 Columbia Ave.
Dallas, TX 75214-5115

Tel. 214-826-8118
Fax. 214-826-8411
E-mail - mcclarke@swbell.net

Hunt Institute for Botanical Documentation

To: "Robert T Clarke" <robert_t_clarke@email.mobil.com>
From: Alfred Traverse <traverse@ems.psu.edu>
Subject: Re: Palynology
Cc:
Bcc:
Attached:

Hi, Bob--

That was a great note from you. I am sorry I bothered you instead of waiting another week or so. On the other hand there is a guy in Huntingdon, PA, who has had my old Ford 150 truck with the snowplow on it, claiming to be working on it since a month ago, and if I hadn't phoned him yesterday he might well have been working on it until next year....trouble is, it's going to snow again tomorrow.....

Look at the bright side. 36 years of Mobil pension should enabale you to buy Martinique or Barbados for your retirement office.

I told you about my new office and lab here. It will be all right eventually, but I am trying to finish a paper on a Penns.Perm. problem, and the chaos that used to be my well organized library is very disconcerting! Betty is also active professionally. We have set her up in a condo here in State College. She is a scholar of medieval German. Published a book on her guy a while back (Neidhart von Reuental). Co-teaches a course on Middle High German. She still processes my palynological samples but is threatening to quit.

Maybe I'll start attending meetings again one of these days. I never really got over the feeling of being badly treated by AASP when I was international president, and it still sticks in my craw a little. [You will perhaps be glad to know that I accurately or inaccurately never thought of you as one of the insulters.] Of course, I am more likely to attend a meeting in a place where I can work up something else of importance to do, and Ensenada was not such a. There is another problem, which is that we try to spend as much of October as possible at our place in the Adirondacks. This past year there was a direct conflict also with the planning session for the Wellesley Class of '49 50th reunion (I am working on the spouses' program)--there is talk of them getting Hillary C. (class of '69) or Madeleine Albright (class of '59) as speaker. Betty's 45th was Hillary's 25th, but the latter didn't attend as she was in Europe with the scoundrel celebrating the 50th of D-Day. Betty took a picture of the class of '69 with a cardboard standup of H. C., and sent it to the White House. She got a nice letter from Ms. C.

You still into philately? I have two German colleagues (botany, paleobotany) who are really big Briefmarkensammler, and they have made me get going again. One of them is a big buff for cancellations, and he kept bitching about the cancellations on the covers I sent him until I finally went to the American Philatelic Society, whose headquarters building is here in State College. I'm impressed. They have about 30 employees (maybe more). Nice building with a great library and interesting exhibits. They have their own P. O. where one can self-cancel envelopes in whatever crazy way a German stamp collector might desire. The mail then goes directly to Pittsburgh without going through the automatic machine in Altoona. I had found a post office in a village near here where I was allowed to hand-cancel envelopes, but then they went to Altoona and were shoved into the machine and came out worse than ever. My pal in Freiburg is now ecstatic. He is sending me "maximum cards," of which I had never heard, but the current number of the APS magazine has a blurb about them. I have always specialized in stamps with botanical subjects, but the way things are going I may have to select just one family. I guess you know that Andrew Scott at Univ. London is a professional philatelist as well as palynologist/paleobotanist? When I was last there he printed out for me from his computer a lengthy list of fossil plants on stamps. Two are from North America. Know which fossil plants?

All the best. Al.

Hunt Institute for Botanical Documentation

Delivered-To: traverse@ems.psu.edu
X-Lotus-FromDomain: MOBIL
From: "Robert T Clarke" <robert_t_clarke@email.mobil.com>
To: Alfred Traverse <traverse@ems.psu.edu>
Date: Tue, 5 Jan 1999 16:04:14 -0600
Subject: Re: Palynology

Al,

Your dues are paid through 1998, so you are not delinquent! It is a matter of younger teen-aged worker bees getting older and having real higher-paying jobs and other interests, and not the burning desire to work for me/AASP for $5 per hour!

I should have them all mailed out (in small batches) by the end of this week/ early next week.

I did get the NL printed and put in envelopes last week and then mailed from Mother Mobil bright and early this past Monday.

Not sure what the Mobil/Exxon merger will mean for me, but with a 1963 joining date... it is probably a "no-brainer".

How are you doing. You missed a really good meeting in Ensenada this past October.

All for now and hurriedly.

Bob

Hunt Institute for Botanical Documentation

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

15 March, 1998

Dr. Robert T. Clarke
Mobil E & P Tech. Center
Room 7B23
P. O. Box 650232
Dallas, TX 75265

Dear Bob:

Enjoyed your little blurb about the Merian stamps. I (sort of) specialize in stamps with plants on them, and the Merian things were therefore a great thrill for me.

When I was on sabbatical at the Senckenberg Museum in Frankfurt, 91-92, the university there had a retrospective of her work in the library, and Betty and I were thoroughly exposed to it for some months. Her story is fascinating, especially as the approach is very modern, though she pre-dated Linnaeus. The insects are as good as the plants, and she observed features of the insects that were not at that time even understood.

I note that the Historical Museum in Frankfurt just had another Merian show--see enclosure. She was a Frankfurter (so to speak).

Did you know that Andrew Scott, paleobotanist-palynologist at the Univ. of London, Holloway, is a professional philatelist? That means that he is a regular columnist in British philatelic magazines. He is also a computer buff, and has incredible amounts of philatelic info on the computer. For example, I asked him how many fossil plants have been depicted on stamps, and he immediately printed me out a three-page list. Maybe I already told you this.

Best regards.

Yours very truly,

Alfred Traverse
Professor Emeritus of Palynology

enclosure

Hunt Institute for Botanical Documentation

From: CLARKE_BOB/DAL10_RTCLARKE//US/MOBIL/BB2@dal.mobil.com
X-Openmail-Hops: 1
Date: Fri, 6 Dec 96 14:32:51 -0600
Subject: book(s)
To: traverse@ems.psu.edu

AL,

I WILL SEND ANOTHER SET OF BOOKS BY UPS, HOPEFULLY PACKED OVER THE WEEKEND, THEN SHIPPED ON MONDAY. I WILL USE UPS... NO STAMPS. SORRY.
NOT EVEN THE EARLIER ONE HAD PRETTY STAMPS ON IT. IT HAD A WRETCHED MACHINE GENERATED SELF-ADHESIVE POSTAGE METER. I HAVE HAD TO SACRIFICE SOME THINGS FOR THE SAKE OF CONSERVING TIME.

CHEERS, BOB
****

> Dear Bob:
>
> No, the books did not, have not, come.
>
> This is very upsetting. I never got my GSA Abstract vol. for the nat.
> meeting, though their records show that it was mailed. Yesterday I
> discovered that Juniata College (small liberal arts college near where we
> live in Huntingdon) sent out 2600 (!) notices of the madrigal dinner
> concerts for this season, and the whole lot of them vanished from the face
> of the earth. We found out because we called to enquire about why we never
> heard. Etc. Bet the errant books had a lot of interesting stamps, too, as
> this is your custom. UPS stamps? Hmmmm.
>
> Happy holidays.
>
> As ever, Al.
> Alfred Traverse
> Palynological Laboratories
> Department of Geosciences

Hunt Institute for Botanical Documentation

From: CLARKE_BOB/DAL10_RTCLARKE_BOB/DAL10_RT@dal.mobil.com
X-Openmail-Hops: 1
Date: Wed, 4 Dec 96 21:51:05 -0600
Subject: book, etc.
To: traverse@ems.psu.edu

AL,

I FINALLY GOT A MOMENT TO REVIEW MY SHIPPING RECORDS. I SHOW THAT I SENT A BOX... WITH A 3-VOL. SET TO YOU IN SEPTEMBER. IT APPEARS THAT IT HAS GONE ASTRAY. US COPIES USUALLY TAKE ABOUT ONE WEEK, AND I HAVE NOW BEEN SENDING THEM OUT BY UPS. YOURS WENT BOOK RATE POST OFFICE AS I RECALL. LET ME KNOW IF IT STILL HAS NOT ARRIVED WHEN YOU RECEIVE THIS MESSAGE AND I WILL SEND ANOTHER SET TO YOU. SORRY FOR THE PROBLEM. AND THANK YOU FOR THE PROMISED FINANCIAL SUPPORT.

CHEERS FOR THE HOLIDAYS... SOME ALREADY PAST... GOBBLE GOBBLE!!

BOB
****

> Dear Bob:
>
> Sorry about the ankle. Kicked in a door, huh?
>
> I will pay for the reprints, and will try hard to increase the ante a bit on
> my page cost contribution. However, I would first like to know why I never
> got my book. My check for $75 of 23 July 96 cleared more or less timely,
> but no book has ever come. Or is it books? Even things I order for Germany
> don't take that long. Don't let this worry you. I know you are busy. I am
> merely explaining that I will send you a check after I hear what happened
> to the book order.
>
> Hang in there. Happy Thanksgiving. Al.
>
> Alfred Traverse
> Palynological Laboratories
> Department of Geosciences

Hunt Institute for Botanical Documentation

To: rtclarke@dal.mobil.com
From: traverse@ems.psu.edu (Alfred Traverse)
Subject: book, etc.
Cc:
Bcc:
X-Attachments:

Dear Bob:

Sorry about the ankle. Kicked in a door, huh?

I will pay for the reprints, and will try hard to increase the ante a bit on my page cost contribution. However, I would first like to know why I never got my book. My check for $75 of 23 July 96 cleared more or less timely, but no book has ever come. Or is it books? Even things I order for Germany don't take that long. Don't let this worry you. I know you are busy. I am merely explaining that I will send you a check after I hear what happened to the book order.

Hang in there. Happy Thanksgiving. Al.

Hunt Institute for Botanical Documentation

American Association of Stratigraphic Palynologists Foundation

ALFRED TRAVERSE
DEPT. OF GEOSCIENCES
PENNSYLVANIA STATE UNIV.
435 DEIKE BLDG.,
UNIVERSITY PARK
PA 16802

January 10, 1995

Dear Dr. TRAVERSE:

The AASP book, *Palynology: Principles and Applications* is planned for publication by May, 1995. Your article entitled *Nomenclature and Taxonomy: Systematics* has been formatted and will contain 17 pages of text plus 0 plates (a total of 17 pages). Page charges are requested from each author as a means of helping us recover some of the printing costs for this publication. Page charges are based on a rate of $55 for each page of text or text-figure, and $80 for each halftone plate. Total page charges for your article will be $935.

We fully realize that much scholarly research in the field of palynology is done without extensive grant or institution support, and that, despite your best efforts, you may be unable to find funds to pay for the page charges. Please indicate by an "X" in the appropriate space below whether you will be able to, or not be able to, pay page charges.

YES_____I will be able to pay page charges.

NO__X__I will not be able to pay page charges. (no funding available)
If the answer is "no", are you able to make a contribution? yes (amount) $100

Reprints — Twenty-five free reprints will be provided for each article published in this volume. They will be sent to the first author of each article.

You may also choose to purchase 100 or 200 additional reprints of your article. We must make the same number of reprints for all articles, therefore we urge you to order extra reprints so we can recover our costs for extra reprint printing. A modest reprint cost has been maintained over the years.

Total # Pages	Cost for 100 Reprints	Cost for 200 Reprints
1-10	$ 60	$110
11-15	$ 80	$155
16-20	$100	$185
21-29	$135	$240
30-39	$175	$290
40-49	$205	$330
50-59	$235	$370

YES__✓__I want to purchase 200 reprints. Total cost will be $185

YES_____I want to purchase 100 reprints. Total cost will be $100

NO_____I do not want to purchase additional reprints.

Robert Traverse (Signature)
14 March 1995 (date)

Please return this completed form to me. Thanks.

Robert T. Clarke
Robert T. Clarke
Treas. AASP Foundation
Mobil E&P Technical Center
P. O. Box 650232
Dallas, Texas 75265-0232

Hunt Institute for Botanical Documentation

American Association of Stratigraphic Palynologists Foundation

Alfred Traverse
DEPT. OF GEOSCIENCES
PENNSYLVANIA STATE UNIV.
435 DEIKE BLDG.,
UNIVERSITY PARK
PA 16802

October 30, 1996
Nov. 14,

Dear Dr. Traverse:

The AASP book, *Palynology: Principles and Applications* has now been published and, indeed, did make its debut at the IPC meeting in Houston, Texas in late June. During late July and early August all reprints were separated from the 3 volumes, stapled, and shipped to the senior author's address. A monumental task at best! If there were multiple author's, then it is the responsibility of the senior author to contact the other authors and sort out the reprint distribution. With my heavy Mobil Oil work schedule during the fall, I decided to send out ALL the reprints to authors rather than take the tedious time to go through previous correspondence and figure out who ordered what. I reasoned that I could do the "accounting" later... and that's what this letter is all about.

This letter is sent to ALL senior authors of chapters in this book. I now have a complete listing of the page charges and reprint charges for the book. In most cases I have indicated whether I received a previous note, or payment, from you concerning page charges and/or reprints ordered.

Your article entitled *Nomenclature and Taxonomy: Systematics* contained 18 pages of text plus 0 plates (a total of 18 pages). Page charges are requested from each author as a means of helping us recover some of the printing costs for this publication. Page charges are based on a rate of $55 for each page of text or text-figure, and $80 for each halftone plate. Total page charges for your article will be $990.

Please indicate by an "X" in the appropriate space below whether you will be able to, or not be able to, pay page charges.

YES_____I will be able to pay page charges.

NO_____I will not be able to pay page charges.
If the answer is "no", are you able to make a contribution?_____ (amount) $_____

Reprints – Twenty-five free reprints were provided for each article published in this volume.

You also had the opportunity to purchase 100 or 200 additional reprints of your article. We have sent 200 copies of each article to the senior author. A modest reprint cost has been maintained over the years. The listing below gives the pricing for reprints. **Please note that you are under no obligation to pay for the reprints you received that had not been previously ordered, but any contribution would be appreciated.**

# Pages	100 reprints ($)	200 reprints ($)	# Pages	100 reprints ($)	200 reprints ($)
1-10	$ 60	$110	30-39	$175	$290
11-15	$ 80	$155	40-49	$205	$330
16-20	$100	$185	50-59	$235	$370
21-29	$135	$240			

YES_____I want to purchase 200 reprints. Total cost will be $185
YES_____I want to purchase 100 reprints. Total cost will be $100
NO_____I do not want to purchase additional reprints.

_____ _____
(Signature) (date)

If you need an invoice, please contact me. Thanks for your patience and understanding.

Robert T. Clarke, Treas. AASP Foundation, Mobil E&P Technical Center, P. O. Box 650232, Dallas, Texas 75265-0232. Tel. 214-951-2971; Fax 214-951-4415; e-mail rtclarke@dal.mobil.com

Hunt Institute for Botanical Documentation

From: CLARKE_BOB/DAL10_RTCLARKE//US/MOBIL/BB2@dal.mobil.com
X-Openmail-Hops: 1
Date: Sun, 15 Sep 96 22:04:03 -0500
Subject: book
To: traverse@ems.psu.edu

Al,

Still snowed under last week with previous orders. I think your copy went out via UPS on Wed or Thur.

In the deluge of things during the first half of the year with Mobil work, IPC meeting, etc. I was remiss in keeping track of who ordered what with respect to reprints and who had indicated that they could pay page charges (or a contribution) to help defray cost of publication. I totally forget what you had indicated. And you are not alone in that regard. During the next two weeks while I am away from the office (on a Mobil field seminar... leave tomorrow at 9:30 and I still have about 5 hours of work here at the office) I plan to sort out pages etc. and send out new page charge / reprints letters to all authors of book chapters. The more pressing tasks of getting the actual meeting items taken care of + the act of final work on the 3-vol. book + Paly 20 totally prevented me from even thinking about the $$ part of the publication. For about 2 full weeks in July/ early August I had Meredith

Hunt Institute for Botanical Documentation

(and a bunch of her friends) working over at our training building here at Mobil, sorting, separating, stamping, stapling, sealing, etc. ("the five S's of the Apocalypse"!!) the entire 3-vol and P-20, plus "stuffing" (ah, there is a sixth!) the oversize charts into C-32. Overseas mailings have to have numerous addresses and forms, plys the box stuffed into a mail bag, sealed, and taken to the postoffice to be mailed.

Whoops, I got on a soap box and I had not intended to. I think you will like the book set. It really is a pinacle with AASP publications. You will probably receive it this week (Sept 16-20).

Let me know by e-mail when it arrives. I hope to get a letter off to you later in the week about the reprints etc.

Cheers, Bob

Hunt Institute for Botanical Documentation

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 July, 1996

Dr. Robert T. Clarke
Mobil E. & T. Technical Center
Room 7B23
P. O. Box 650232
Dallas, TX 75265

Dear Bob:

Jan writes that if I want a copy of the book recently published, to which I contributed, I can get it for $75. I must confess that I harbored the idea that one complimentary copy per author might be forthcoming. I suppose that the problem is the cast-of-thousands nature of the thing. Anyhow, I enclose the necessary check.

Hope you are flourishing. It was distressing to learn of VB's continuing plague of evil fortune.

Yours very truly,

Alfred Traverse

encl.:check

Hunt Institute for Botanical Documentation

Date: Fri, 28 Jul 1995 10:30:15 -0500 (EST)
From: "Alfred Traverse" <traverse@ems.psu.edu>
To: rtclarke@dal.mobil.com,jjansonius@gsc.emr.ca
Cc:
BCc:
Subject: additions to AT MS
X-NUPop-Charset: IBM 8-Bit

Dear Bob:

I'm really upset. There has been negotiation about some additions to my MS in view of last minute nomenclatural developments. On Jan's request I sent him a diskette (WP6.0) with all the changes in final form. I now hear from him that he can't read the diskette and has taken matters into his own hands, changing practically everything that I so carefully wrote. This is totally unacceptable to me. I am faxing the final form of the MS to Jan as a last ditch effort to be sure what is done will be acceptable to me.

Best, Al T.

Hunt Institute for Botanical Documentation

Received: from pegasus.mobil.com by pangaea.ems.psu.edu
        (4.1/PSU_ESSC/GEOSC-2.02) id AA17117; Sat, 22 Jul 95 20:05:55 EDT
Received: (from daemon@localhost) by pegasus.mobil.com (Mobil-3/pegasus-4) id TA
From: Clarke_Bob/dal10_rtclarke@dal.mobil.com
Received: from dal.mobil.com(131.126.10.77) by pegasus via smap (V1.3)
        id sma025327; Sat Jul 22 19:05:25 1995
Received: from dalhp002.dal.mobil.com by dal.mobil.com (4.1/SMI-4.1-R)
        id AA14750; Sat, 22 Jul 95 19:07:32 CDT
Received: from by dalhp002.dal.mobil.com with SMTP
        (1.38.193.5/16.2) id AA12522; Sat, 22 Jul 1995 19:13:35 -0500
X-Openmail-Hops: 1
Date: Sat, 22 Jul 95 19:12:56 -0500
Message-Id: <H00002500535ed98@MHS>
In-Reply-To: <199507171952.OAA01003@pegasus.mobil.com>
Subject: revisions for chapter
To: jjansonius@gsc.emr.ca, traverse@ems.psu.edu

Item Subject: Message text
Jan & Al,

Greetings from Great Falls, Montana!!

A previous message from Jan asked if you all could make corrections to Al's chapter. Go ahead and do it. I have ALL the different chapters in separate files, so it will alter only Ch. 2. If it changes the page count, so be it.

All for now. Jan, see you next week.

Bob

Hunt Institute for Botanical Documentation

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

15 March, 1995

Dr. Robert T. Clarke
Mobil Research & Development Corp.
P. O. Box 819047
Dallas, TX 75381-9047

Dear Bob:

Enclosed copy of letter to Jan is self-explanatory.

I have hi-lited the paragraph that should be substituted for the one in present chapter. I enclose a copy of the subject page with the subject paragraph also yellow hi-lited.

Best wishes as always.

Yours very truly,

Alfred Traverse

encl.: xerox of JJ letter
c of letter to JJ
c of page from chapter

Hunt Institute for Botanical Documentation

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

27 February, 1995

Dr. Robert T. Clarke
Mobil E. & P. Center
Room 7B23
P. O. Box 650232
Dallas, TX 75265-0232

Dear Bob:

Here are:

1. A copy of the proof you sent, marked in red. However, the type size is so small that I dispaired of being able to do a proper job with proof-reader's symbols, etc., but it should be possible to figure out in each case what is meant, because I am also sending:

2. A complete printout of my corrections, line by line, and

3. A diskette of item 2 in Word Perfect 5.1 .

Our computer version of the manuscript is now so different from the present shape of the thing, that this seemed the correct approach.

I would naturally like to see one more proof of this thing because of the situation, about which I don't need to bore you further.

All the best.

Yours very truly,

Alfred Traverse

encl.: printout of corrections
diskette
copy of letter to JJ
c:Jansonius

Hunt Institute for Botanical Documentation

Date: Mon, 20 Feb 1995 19:36:09 -0500 (EST)
From: "Alfred Traverse" <traverse@ems.psu.edu>
To: rtclarke@dal.mobil.com
Cc:
BCc:
Subject: copies to Jan, etc.
X-NUPop-Charset: IBM 8-Bit

Dear Bob: Thanks for very enlightening comments. Copies to Jan fine idea, but it is a pity that he doesn't have e-mail. Fax is a pain here. So, Jan will get snail mail. Tomorrow I'll phone Rob Fensome because he apparently wrote Jan about some suggestions for changes that I now realize I am only seeing darkly through Jan's filter. I apparently never got a copy of the letter in question. I'm sure that a phone call will straighten out the situation. Best regards. Al Traverse.

Hunt Institute for Botanical Documentation

Received: from mobil.com (pegasus.mobil.com) by pangaea.ems.psu.edu
(4.1/PSU_ESSC/GEOSC-2.02) id AA19243; Mon, 20 Feb 95 11:49:00 EST
Received: by mobil.com (pegasus-2)
id AA03591; Mon, 20 Feb 1995 10:49:52 +0600
Received: from dal.mobil.com(131.126.10.77) by pegasus via smap (V1.3)
id sma003587; Mon Feb 20 16:49:15 1995
Received: from dalhp002.dal.mobil.com by dal.mobil.com (4.1/SMI-4.1-R)
id AA24630; Mon, 20 Feb 95 10:52:40 CST
Received: from by dalhp002.dal.mobil.com with SMTP
(1.37.109.8/16.2) id AA04776; Mon, 20 Feb 1995 10:51:17 -0600
From: Clarke_Bob/dal10_rtclarke@dal.mobil.com
X-Openmail-Hops: 1
Date: Mon, 20 Feb 95 10:50:41 -0600
Message-Id: <H000025002bf06c3@MHS>
In-Reply-To: <37625.traverse@ems.psu.edu>
Subject: chapter 2
To: traverse@ems.psu.edu
Content-Length: 916

Item Subject: Message text
Al,

Your work sounds fine. Do NOT worry about trying to construct sentences with the same line length. Make the words say what you want to. You even have the luxury of writing more words EVEN THOUGH you are tight on page 17!! Why?? Because page 18 will be blank!! Bottom line is that we do have the room for some extra text.

I have ALL of the Book one chapters in the computer now and it is just a matter of getting proof copy xeroxed and off to the authors for corrections. 496 pages!! Book 2 has 508 pages of text... so far, and about 150++ pages to go!! Now you know we are crazy!!

Thanks for the E-mail. In ALL correspondence include JAN. In fact, if you havn't alrady done so, you might consider sending him the copy with your red marks (although, we have a machine that will make black marks black, and red marks RED!!) Aren't the toys getting better.

Cheers, Bob

Hunt Institute for Botanical Documentation

Received: by pangaea.ems.psu.edu
(4.1/PSU_ESSC/GEOSC-2.02) id AA29834; Wed, 11 Jan 95 10:38:09 EST
X-Nupop-Charset: English
Date: Wed, 11 Jan 1995 10:40:28 -0500 (EST)
From: "Alfred Traverse" <traverse@ems.psu.edu>
Sender: traverse@ems.psu.edu
Reply-To: traverse@ems.psu.edu
Message-Id: <38432.traverse@ems.psu.edu>
To: rtclarke@dal.mobil.com
Subject: test and more
Status: U

Dear Bob: Gotcha "test." This a. m. a secretary brought me an express mail type package which I suppose contains the famous chapter. Wow! Thanks. Best regards. Al.

Hunt Institute for Botanical Documentation

American Association of Stratigraphic Palynologists Foundation

ALFRED TRAVERSE
DEPT. OF GEOSCIENCES
PENNSYLVANIA STATE UNIV.
435 DEIKE BLDG.,
UNIVERSITY PARK
PA 16802

January 10, 1995

Dear Dr. TRAVERSE:

The AASP book, *Palynology: Principles and Applications* is planned for publication by May, 1995. Your article entitled *Nomenclature and Taxonomy: Systematics* has been formatted and will contain 17 pages of text plus 0 plates (a total of 17 pages). Page charges are requested from each author as a means of helping us recover some of the printing costs for this publication. Page charges are based on a rate of $55 for each page of text or text-figure, and $80 for each halftone plate. Total page charges for your article will be $935.

We fully realize that much scholarly research in the field of palynology is done without extensive grant or institution support, and that, despite your best efforts, you may be unable to find funds to pay for the page charges. Please indicate by an "X" in the appropriate space below whether you will be able to, or not be able to, pay page charges.

YES_____I will be able to pay page charges.

NO__X__I will not be able to pay page charges. (no funding available)
If the answer is "no", are you able to make a contribution? yes (amount) $100

Reprints — Twenty-five free reprints will be provided for each article published in this volume. They will be sent to the first author of each article.

You may also choose to purchase 100 or 200 additional reprints of your article. We must make the same number of reprints for all articles, therefore we urge you to order extra reprints so we can recover our costs for extra reprint printing. A modest reprint cost has been maintained over the years.

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21-29	$135	$240
30-39	$175	$290
40-49	$205	$330
50-59	$235	$370

YES__✓__I want to purchase 200 reprints. Total cost will be $185

YES_____I want to purchase 100 reprints. Total cost will be $100

NO_____I do not want to purchase additional reprints.

Robert Traverse (Signature) 14 March 1995 (date)

Please return this completed form to me. Thanks.

Robert T. Clarke
Treas. AASP Foundation
Mobil E&P Technical Center
P. O. Box 650232
Dallas, Texas 75265-0232

Hunt Institute for Botanical Documentation

American Association of Stratigraphic Palynologists Foundation

January 10, 1995

ALFRED TRAVERSE
DEPT. OF GEOSCIENCES
PENNSYLVANIA STATE UNIV.
435 DEIKE BLDG.,
UNIVERSITY PARK
PA 16802 al

Dear ~~Dr TRAVERSE~~: Alfred

Enclosed is the ~~first~~ second proof of your article entitled *Nomenclature and Taxonomy: Systematics* that will be published in the AASP Silver Jubilee book. I have sent copies of this formatted version to Jan Jansonius and Colin McGregor for their comments/ suggestions/ editorial opinions/ etc. Please mark you corrections in red on the copy and **return to Jan Jansonius**. (Please note that Jan's correct address is: **Geological Survey of Canada, ISPG, 3303 33rd. Street NW, Calgary, Alberta T2L 2A7, Canada –** his telephone number is 403-292-7179, and Fax is 403-292-5377). Jan will then collate your corrections with his and those from Colin. He will then send me the "latest and greatest" version to make the necessary corrections to the text I have in the computer. You will, of course, be sent the second, and hopefully final, version after I complete the changes.

I have also enclosed a copy of the original manuscript (with comments) as I received it from Jan.

Now that we know how many pages of typeset text, figures, and plates there will be in your article, I can (and have) calculated page and reprint charges for your article. A separate page included in this parcel covers that aspect of publication.

That's all that I can think of for now.

Cheers,

Bob

Robert T. Clarke
Treas. AASP Foundation
Mobil E&P Technical Center
P.O. Box 650232
Dallas, Texas 75265-0232

Tel. (214) 951-2971
Fax (214) 951-4415

Hunt Institute for Botanical Documentation

American Association of Stratigraphic Palynologists Foundation

February 15, 1993

To: AASP Members,

Well, 1992 is behind us now, and what did we accomplish during those eventful 366 days? Maybe it was the extra day in the leap year, or, who knows, but 1992 was significant for the AASP Foundation, and here's why.

Way back in 1976 the officers of AASP, Inc. decided that the Association was strong enough to publish its own journal, and not rely on the *Geoscience and Man* editorial staff at Louisiana State University for publication of our annual proceedings as we had for our first seven years. Our association with them was very cordial and we both gained a considerable amount of knowledge and confidence in how to go about producing a quality publication. We went out on our own and *Palynology* Vol. 1 was published in 1977. We had our typesetting and printing done by Hart Graphics, a longtime printing firm in Austin, Texas . In fact, they "turned 100 years old" sometime in the first few years of our involvement with them. We had much to learn, and they had much to teach. Over the next 15 years the rapport between the various AASP editors and the Hart Graphics people was great. It still is today. As we both cruised through the early 80's and into the late 80's, we both saw the costs of producing *Palynology* increasing and realized the need to be ever mindful of expenses and institute cost saving measures wherever possible. The years rolled on into 1990 and then 1991. Costs for producing an annual issue of *Palynology* had been about the same from 1989 - 1991, but the cost was $24,650 per year! Clearly, we needed to find a way to reduce those costs.

It was at the March, 1992 AASP mid-year executive meeting in Denver that Dave Goodman and I, after a succulent meal at Denny's or some other up-scale restaurant, talked for about three hours and decided that we needed to take action and needed to take it now. Desk-top publishing applications had dramatically improved during the past year or two, and "couldn't we take the disks submitted by the authors and produce a typeset product that would be as good as the text that Hart had produced?" Both Dave and I are semi-literate on the Macintosh, and "Sure, we can do anything" was a comment we whispered. The typesetting portion of the Hart bill had been in the $9,800 - $11,700 range each of the last three years; "I'll bet we can get it done for less money". OK that's one part of the puzzle. What about a printer? We wanted to keep the quality up, good plates, etc. Hart Graphics has the inside track, if the price is right, etc. An outfit here in Dallas had done the plates for *Contributions Series* no. 27, and the author was pleased with that printing job. Also, one day out of the blue a new player showed up on my doorstep, Publisher's Press in Salt Lake City, Utah. In fact, it was their bid which we finally accepted for printing the 450 page hardback book on dinoflagellates published in 1992. I am sure all of you who have a copy of that book will agree that they did a marvelous job. For that book Martin Head and Florin Neumann at the University of Toronto provided us with completely formatted

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Hunt Institute for Botanical Documentation

disks in a Macintosh desktop publishing application. Surely Dave and I could work together to get the same quality typesetting done for *Palynology* vol. 16, a publication half the size of the Dino book!

To make a longer story shorter, for *Palynology* 16 we: 1) took the authors computer disks and transferred the information to our word processing applications, 2) completely did the lay-out work and produced a camera ready copy of *Palynology* 16 on a 1,200 dpi typographer laser printer, complete with crop and registration marks, so the printer just had to shoot the photographic plates and the text copy, give us blue line proof copy and then print *Palynology* after we gave the OK. So, that's what we did.

Most of you have the finished product at your desk now. *Palynology* 16 was packed in padded baggies, along with other announcements, and mailed out between Christmas and New Year's by some of the 12 and 13 year olds I know, who work cheaply if there is a reasonably continual supply of pizza, hamburgers, and soda.

As always when we try new things, all is not 100% smooth sailing. There were a few minor problems with translating a couple of the author's original disks, but we solved those problems with relative ease. We completed the typesetting, took it to the printer, gave our approval of the blue-line proof copy, and *Palynology* was then in the hands of the guys who run the press here in Dallas. However, they did encounter a problem during the printing that none of us were aware of until the above mentioned kids and I were separating the extra reprints for the authors. The difficulty occurred in the article by Betty Eley and Jocelyne Legault, and principally on Plate 3. Apparently a buildup of ink on the back roller, which is used to print the backside of each 16-page segment of the book (signature), went undetected for a few minutes prior to the press completing the inking on that signature. After the signature was completely printed, the roller was routinely cleaned and readied for the next signature to be printed. No one noticed that the printing on the underside of that particular signature was of sub-standard quality. All the bound copies had been mailed out, so there was not much we could do. It is one of those inconsistent occurrences that reaches out and grabs us from time to time. The printing company did reduce the total bill by about 6% after we showed them the difficulties. I talked with Jocelyne and she said she would send out a complete reprint of the article containing a better copy of Plate 3 to anyone who requests it. Her address is listed on the first page of the article in *Palynology*.

Now that those comments are out of the way, we can ask "was the decision to publish *Palynology* this way worth it?? Even with the problem mentioned above?" The answer is "YES", and that is spelled with capital letters! The total charges for typesetting, printing 1,300 copies (1,070 bound and 230 trimmed for author reprints), and distribution expenses of *Palynology* 16 were $10,800! That's a savings of almost 57% compared to the price we paid for *Palynology* 15. This savings will allow the AASP Foundation the opportunity to consider publication of additional scientific works that we normally would not have been able to consider. And indeed plans are underway for the AASP Foundation to be the publisher for the AASP Silver Jubilee book, a major undertaking, being edited by Jan Jansonius and Colin McGregor. See the article beginning on Page 19 in the January, 1993 AASP Newsletter.

So, you now can see that 1992 has been a significant year for both the AASP Foundation and for the members of AASP, Inc.

Robert T. Clarke, Treasurer
for the Trustees of the AASP Foundation

Hunt Institute for Botanical Documentation

American Association of Stratigraphic Palynologists Foundation

May 27, 1993

ALFRED TRAVERSE
DEPT. OF GEOSCIENCES
PENNSYLVANIA STATE UNIV.
435 DEIKE BLDG.,
UNIVERSITY PARK
PA 16802

Dear Dr. TRAVERSE:

Enclosed is the first proof of your article entitled *Nomenclature and Taxonomy: Systematics* that will be published in the AASP Silver Jubilee book. I have sent copies of this formatted version to Jan Jansonius and Colin McGregor for their comments/ suggestions/ editorial opinions/ etc. Please mark you corrections in red on the single sided copy and return to Jan Jansonius. Jan will then collate your corrections with his and those from Colin. He will then send me the "latest and greatest" version to make the necessary corrections to the text I have in the computer. You will, of course, be sent the second, and hopefully final, version after I complete the changes.

Al,
Too long, no real "macho" fun
Jan.
Bob.

~~I have also enclosed a copy of the original manuscript (with comments) as I received it from Jan.~~

Now that we know how many pages of typeset text, figures, and plates there will be in your article, I can (and have) calculated page and reprint charges for your article. A separate page included in this parcel covers that aspect of publication.

That's all that I can think of for now.

Cheers,

Robert T. Clarke
Treas. AASP Foundation
Mobil E&P Technical Center
P.O. Box 650232
Dallas, Texas 75265-0232

Hunt Institute for Botanical Documentation

PENNSTATE

The Pennsylvania State University
Department of Geosciences
503 Deike Building
(814) 863-7823 [FAX]
Date: 22 Jan. 93

☐ Marked here if urgent reply is requested.

Fax Transmission to:

Name: Dr. Robert T. Clarke
Company/Institution: Mobil Research
Department: Dallas E&P Tech. Training
Fax Number: 214 - 851 - 8481
Phone Number: 214 - 851 - 8970

Transmission from:

Name: A. Traverse
Phone Number: 814 - 863 - 3419

Total Number of Pages (Including Cover Page): 1

Message:

Dear Bob:

Jansonius Think you could provide the correct number for Lentin & Williams 1993 Edit. in the Contributions Series. If so, it would help with biblio for any chapter in Jans. book.

Best.

A

*If any portion of this transmission is unclear, please call _____.

Hunt Institute for Botanical Documentation

THE PENNSYLVANIA STATE UNIVERSITY
DEPARTMENT OF GEOSCIENCES
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13 February, 1989

Dr. Scott T. Clay-Poole
Department of Biological Sciences
Northern Arizona University
P.O. Box 5640
Flagstaff, AZ 86011-5640

Dear Dr. Clay-Poole:

Got yours of 3-II-89. Unfortunately all reprints of article by May and me were exhausted years ago.

A more recent contribution on Dakota ss. palynology is that of a Ph.D. student of mine, Martin B. Farley. He did Dakota material for his A.M. at Indiana. ("An assessment of the correlation between miospores and depositional environments of the Dakota Formation (Cretaceous), north-central Kansas and adjacent Nebraska," U. Indiana, 1982). You could borrow the thesis by interlibrary loan. A short version was published by Farley and D. L. Dilcher in Palynology 10 (1986), 117-133. You might want to write Farley (Dr. M. B. Farley, Dept. of Paleobiology, MRC 164, Smithsonian Institution, Washington, DC 20560).

Best wishes.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

NORTHERN ARIZONA UNIVERSITY
DEPARTMENT OF BIOLOGICAL SCIENCES

February 3, 1989
Dr. A. Traverse
Department of Geosciences
College of Earth and Mineral Sciences
Pennsylvania State University

Dr. Traverse:

I am reauesting a reprint of your article in conjunction with F.E. May entitled Palynology of the Dakota Sandstone near Bryce Canyon National Park, in Geoscience and Man 7:57-64 (1971).

I am doing some pollen analysis that has influence from the Dakota Sandstone near Kayenta, Arizona and your work may help out a great deal. If you have any other material that I am unaware of that can help out with identifying Cretaceous material please include if you can.

Thank you very much.

Sincerely,

Scott T. Clay-Poole

P.S. Have enjoyed reading your new book 'Paleopalynology'.

PO Box 5640 Flagstaff, AZ 86011-5640 (602) 523-2381

Hunt Institute for Botanical Documentation

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Phone: (814)863-3419; Fax: 814-863-7823;
e-mail:TRAVERSE@ems.psu.edu

13 March, 1995

Prof. Geoffrey Clayton
Department of Geology
Trinity College
Dublin 2, Ireland

Dear Geoff:

Am sitting in the library of Butler University (Indianapolis) reading the stack of reprints you sent me a while back--great fun. Some I had seen in the journals, but it is good to have a reprint. Others were new--e.g., the TAI study published by Geol. Surv. of Ireland. I will use Fig. 1 somewhere, I'm sure (w. your permission, of course). Thanks so much for this instant update!

All the best.

Yours very truly,

Alfred Traverse

AT/et

Hunt Institute for Botanical Documentation

Received: from otto.tcd.ie by pangaea.ems.psu.edu
(4.1/PSU_ESSC/GEOSC-2.02) id AA20901; Tue, 28 Feb 95 09:42:08 EST
Received: by otto.tcd.ie (5.57/Ultrix4.2-cfJ)
id AA28109; Tue, 28 Feb 95 14:41:55 GMT
Date: Tue, 28 Feb 95 14:41:55 GMT
Message-Id: <9502281441.AA28109@otto.tcd.ie>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: traverse@ems.psu.edu
From: gclayton@otto.tcd.ie (Prof. G. Clayton)
Subject: Re: Palynology Samples

Dear Al,

Many thanks for the samples and reprints; all arrived safely.

I have now processed the three samples and quickly checked the residues. There are certainly plenty of 'spore masses' and a few megaspores but I have not yet located any sporangia. However, the material merits a thorough search and I hope to begin this next week.

Thanks again for all your help,

Best wishes,

Geoff

Hunt Institute for Botanical Documentation

Received: by pangaea.ems.psu.edu
(4.1/PSU_ESSC/GEOSC-2.02) id AA21767; Sun, 15 Jan 95 10:20:44 EST
X-Nupop-Charset: English
Date: Sun, 15 Jan 1995 10:23:08 -0500 (EST)
From: "Alfred Traverse" <traverse@ems.psu.edu>
Sender: traverse@ems.psu.edu
Reply-To: traverse@ems.psu.edu
Message-Id: <37391.traverse@ems.psu.edu>
To: gclayton@otto.tcd.ie
Subject: samples, mostly

Dear Geoff: Good to hear from you per yours of 13 Jan. 95. OK, I'll send you half of each sample. Please do not return anything--not necessary. If it really turned to be important, the original site is still available, though buried beneath a thick blanket of Penn State crown vetch, a legume developed here for the purpose of stabilizing roadside cliffs and obscuring important outcrops. Regarding reprints, the most recent one from you is from 1985, "Dinantian of Foulden." I would welcome anything at all! I never get around to general mailouts, so depend on opportunities like this for distribution of things. But, horrors, I've lost your card, so at the moment I have no idea what, if anything, I've sent. I'll just send what I have. So, you'll be getting two items: package with samples; envelope with reprints. All the best. Al. (Thanks for good wishes for 1995, which I reciprocate. Ye gods! It's the year I turn seventy.)

Hunt Institute for Botanical Documentation

Received: from otto.tcd.ie by pangaea.ems.psu.edu
(4.1/PSU_ESSC/GEOSC-2.02) id AA11622; Fri, 13 Jan 95 09:15:54 EST
Received: by otto.tcd.ie (5.57/Ultrix4.2-cfJ)
id AA01954; Fri, 13 Jan 95 11:03:09 GMT
Date: Fri, 13 Jan 95 11:03:09 GMT
Message-Id: <9501131103.AA01954@otto.tcd.ie>
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable
To: traverse@ems.psu.edu
From: gclayton@otto.tcd.ie (Prof. G. Clayton)
Subject: Re: samples, etc.
Status: U

Dear Al,

Many thanks for your messages and kind offer of material. The first e-mail arrived safely but I got swamped by mail, messages and faxes after Christmas and have not replied to all them yet - I apologise for the delay. The Geology Department is being reviewed next week so we are busy tidying up labs and updating our c.v.'s ready for the arrival of the external assessors!

The answer to your question about sample size is that it would be useful to have as much as you can spare please, though obviously I appreciate that you would not want to use all the sample. I suspect that fragments of sporangia and macroplant material may be quite sparse but it is difficult to know without preparing some rock. In order not to waste any material, I intended sieving at around 20=B5m, 50=B5m and 100=B5m.- I could return the 'fines' either as wet residues or mounted slides.

I haven't received any reprints from you for several years, but I am very bad at sending out offprints and probably have not sent you any either. I will put what I have in the post for you. My address, FAX and phone numbers are:

Department of Geology
Trinity College
Dublin 2
Ireland

Phone: (3531)7022002
=46ax: (3531)7026711199

Best wishes for 1995,

Geoff Clayton

Hunt Institute for Botanical Documentation

Received: by pangaea.ems.psu.edu
(4.1/PSU_ESSC/GEOSC-2.02) id AA18754; Mon, 9 Jan 95 14:29:21 EST
X-Nupop-Charset: English
Date: Mon, 9 Jan 1995 14:31:38 -0500 (EST)
From: "Alfred Traverse" <traverse@ems.psu.edu>
Sender: traverse@ems.psu.edu
Reply-To: traverse@ems.psu.edu
Message-Id: <52301.traverse@ems.psu.edu>
To: gclayton@otto.tcd.ie
Subject: more about Devonian sples.

Hi, Geoff! I'm really impressed with our filing methods. I easily found the samples you requested in your note of 9 Dec. (end of semester and then the end of year break prevented earlier action). Problem: for reasons that I don't recall I consolidated those samples down to jars of a bit more than about 100 g. or
so each. Because of space constraints, we're always doing that. How much sample is the least that would do you any good? I'm happy to divide the three samples (C,D,E) with you. Happy 1995.

Hunt Institute for Botanical Documentation

Received: from otto.tcd.ie by pangaea.ems.psu.edu
(4.1/PSU_ESSC/GEOSC-2.02) id AA07703; Fri, 9 Dec 94 13:44:49 EST
Received: by otto.tcd.ie (5.57/Ultrix4.2-cfJ)
id AA17305; Fri, 9 Dec 94 18:44:21 GMT
Date: Fri, 9 Dec 94 18:44:21 GMT
Message-Id: <9412091844.AA17305@otto.tcd.ie>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: TRAVERSE@ems.psu.edu
From: gclayton@otto.tcd.ie (Prof. G. Clayton)
Subject: late Devonian samples

Dear Al,

Just a reminder!

I looked back at some slides which you gave me many years ago re. your paper with Warg. Probably the most promising slide was from sample C - (carbonaceous clay) - this has lots of woody fragments and Retispora lepidophyta still in tetrads. Samples D (coal) and E (highly carbonaceous clay) would also be of great interest.

I would be extremely grateful if you could find time to send a little of these samples for the in situ work with Jean Galtier which I told you about.

Many thanks and best wishes,

Geoff Clayton

Hunt Institute for Botanical Documentation

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

7 January, 1988

Dr. Geoffrey Clayton
Trinity College
Department of Geology
Dublin 2, Ireland

Dear Geoff:

Am having a rare "reading day" at home and just "digested" your nice packet of reprints of papers about Dinantian spore floras, palynozones, provinces, etc. Could have improved the textbook project with some of it--but that must now wait until the 2nd Ed. (Ha!).

Best wishes for 1988.

Yours very truly,

Alfred Traverse

P.S. I wrote this before Christmas, but it got lost in the pile and was never typed (I think)--although it's just possible a final copy was made and sent. If so, plase forgive the redundancy.

AT/et

Hunt Institute for Botanical Documentation

7 April, 1982

Dr. Geoffrey Clayton
Department of Geology
Trinity College
Dublin 2, Ireland

Dear Geoff:

Thanks for yours of 29 March. It seems to me that Eleanora overreacted--I cannot recall giving her firm assurance that I would attend--I said maybe I'd attend. Anyway, subsequent events have made this impossible--especially the transfer of my palynology course to Fall Term (begins on 7 September). Furthermore, if I did attend, it would be on my own dollar, and Eleanora is certainly as able to finance it personally as I am. I am, howevdr, very sorry to miss out, especially a chance to meet you!

All the best.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

cc: E.I. Robbins

Hunt Institute for Botanical Documentation

DEPARTMENT OF GEOLOGY
TRINITY COLLEGE
DUBLIN 2, IRELAND

Head of Department: PROFESSOR C. H. HOLLAND, M.A., B.Sc., Ph.D., M.R.I.A.

Tel. Dublin: 772941
Extension: 1074

29th March 1981

Dr. Alfred Traverse
Deike Building
Pennsylvania State University
University Park
Pa. 16802
U.S.A.

Dear Al,

I wrote to Eleanora Robbins recently concerning a paper she offered for the Dublin AASP/CIMP meeting. Enclosed is a copy of her rather startled reply!

On checking our registration files, I found two replies to the preliminary circular,* but can find no trace of a registration form from you, or any record of payment. Neither our postal system nor our filing system are very efficient, so it may well be that you wrote, but that have somehow lost your letter. - If this is the case, please accept my sincere apologies for any inconvenience caused.

Hotel accomodation and places on the excursions are still available, and papers are still being accepted for inclusion in the programme. I would be very grateful however if you could confirm that you will be at the meeting, and complete the enclosed duplicate form, so that we can finalise our bookings.

With best wishes,

Yours sincerely,

Geoff Clayton

Geoff Clayton

* enclosed.

Hunt Institute for Botanical Documentation

7 June, 1977

Dr. Geoffrey Clayton
Department of Geology
University College
Belfield, Dublin 4, Eire

Dear Geoff:

Thanks for your letter sent to the Vallatisporites group. I think the proposals shown therein are very much to the point and I was particularly impressed with the stratigraphic scheme that results because it seems to me to work out very well with the horseshoe curve section in which I have had some previous interest and which seems to include exactly the stratigraphic section with which you have been dealing. The overlap shown by the first of your charts is inevitable when such a s tatistical approach is taken to taxonomy of fairly closely related taxa. It surprises me that there is not also a no-man's-land indicated between V. vallatus and V. verrucosus at the bottom of the chart.

I currently see no chance at all of getting to the Leon meeting, even though as ICP president, I probably should be there. Where does one find the money for such trips? Looking forward to meeting you one of these days, however, I am

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

HEAD OF DEPARTMENT
James C. Brindley, D.Sc., M.R.I.A.
Professor of Geology
Phone 693244

DEPARTMENT OF GEOLOGY,
UNIVERSITY COLLEGE,
BELFIELD,
DUBLIN 4.

14th May 1977

C.I.M.P. Vallatisporites Group

Dear Al,

Several members of the group will be in Sheffield on 29th June for a meeting of the C.I.M.P. Carboniferous Atlas Working Group, and so an informal meeting of the Vallatisporites Working Group has been arranged for June 30th, also in Sheffield. Anyone able to attend will of course be most welcome, and details of accomodation etc. can be obtained from Keith Gueinn, the Local Secretary. A larger meeting of the group will be held during the course of the Leon Symposium in September.

Progress (?)

Access to the type material of V. pusillites remains impossible, and there appears to be little hope that this situation will improve in the near future. The question of possible synonymity with V. vallatus therefore remains unsolved.

Recent discussions at the Halifax Symposium centred on the problems concerning the V. vallatus - V. verrucosus - V. pusillites - V. splendens complex. The attached sheet (1) summarises morphographic criteria agreed at this meeting by Barss, Dolby, Eames, Higgs, Keegan and Streel, which could prove useful in distinguishing these taxa.

Also enclosed are (2) an ornament-based, arbitrary scheme for distinguishing the above taxa in the Tournaisian of the British Isles, devised by Clayton, Higgs, Keegan and Van Der Zwan, and (3) A range chart using the Vallatisporites spp. defined in this way. It is appreciated however that this scheme may be ineffective in other regions.

It is hoped that workers will comment on the above suggestions, and also outline their own problems / solutions. These observations can then form the basis for detailed discussion in Leon.

Best wishes,

Geoff. Clayton

circulation list: Barss, Clayton*, Dolby, Eames, Gueinn*, Higgs*, Keegan, Moreau-Benoit, Richardson, Streel*, Taugaurdeau-Lantz, Traverse, Owens*, Van Der Zwan.

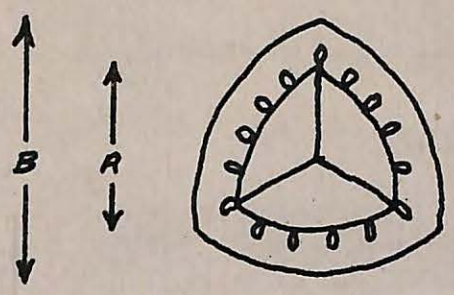
(* workers attending the Sheffield meeting)

P.S. I am still attempting to obtain more strat. data on some of the slides exchanged from the people who supplied them! Are you planning to attend the Leon meeting?

Hunt Institute for Botanical Documentation

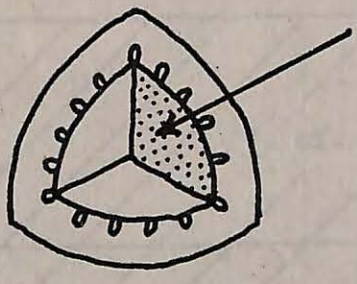
Criteria which could prove useful in differentiating Vallatisporites vallatus, V. verrucosus, V. pusillites and V. splendens.

(1) Size of spore body relative to the overall diameter of the spore



expressed as A/B x 100%

(2) Density and type of ornament



(a) Count the number of sculptural elements in the area shown above.

(b) Count the spines, cones, grana and verrucae in the same area, express as $\frac{\text{verrucae}}{\text{spinae + coni + grana}}$ x 100%

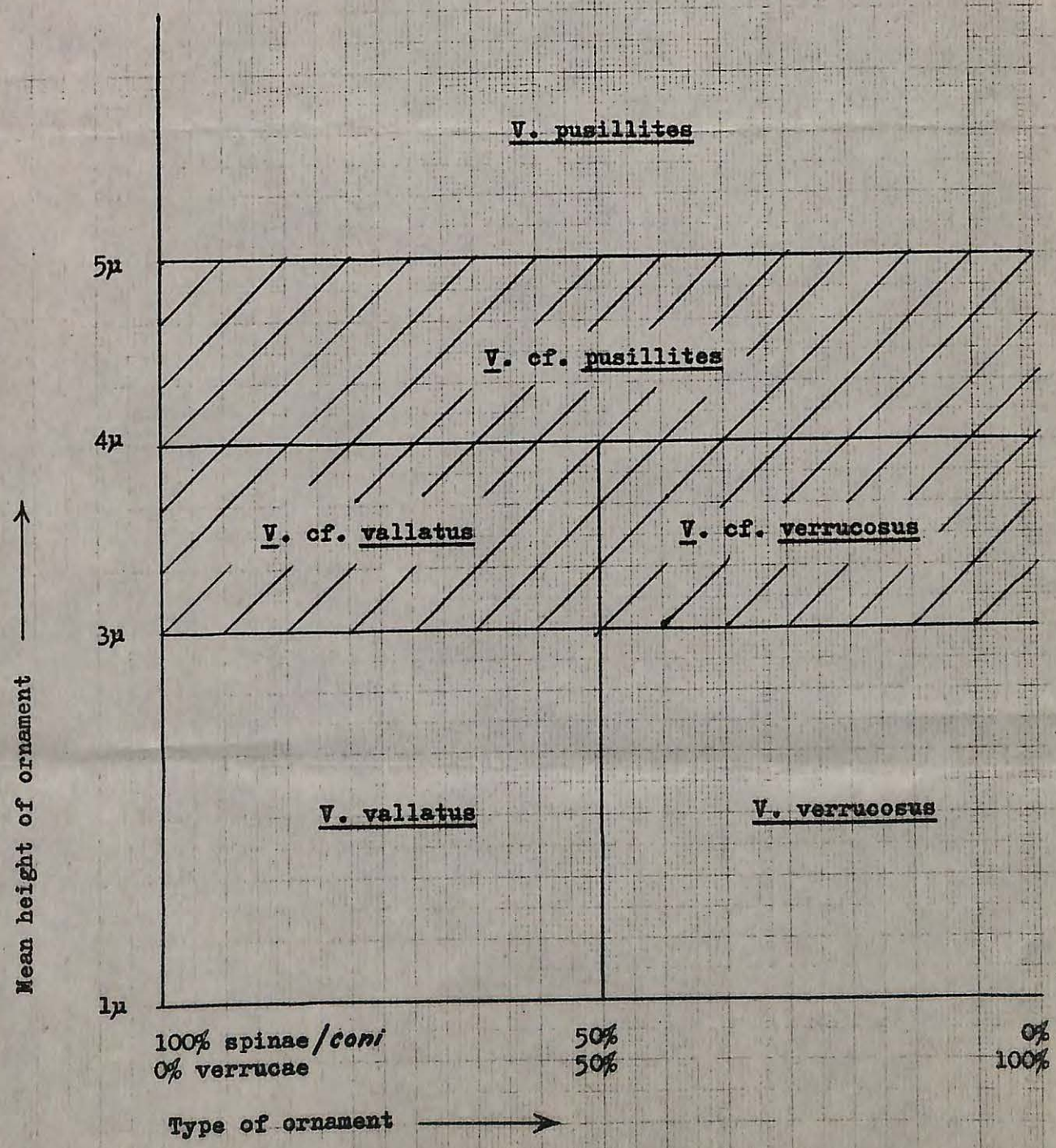
Where biform ornament is encountered an arbitrary decision has to be made as to which part of each element is dominant, e.g. mammillae should be considered as verrucae, galeae as spinae.

(c) Measure the height of the largest spine on the spore.

Ideally 25 - 50 specimens should be considered in each sample.

Hunt Institute for Botanical Documentation

An arbitrary method of speciation of Vallatisporites which works reasonably well in the Tournaisian of the British Isles. The ranges of the taxa distinguished using these criteria are shown on sheet 3. Spores with ornament corresponding to the shaded areas are very rare.



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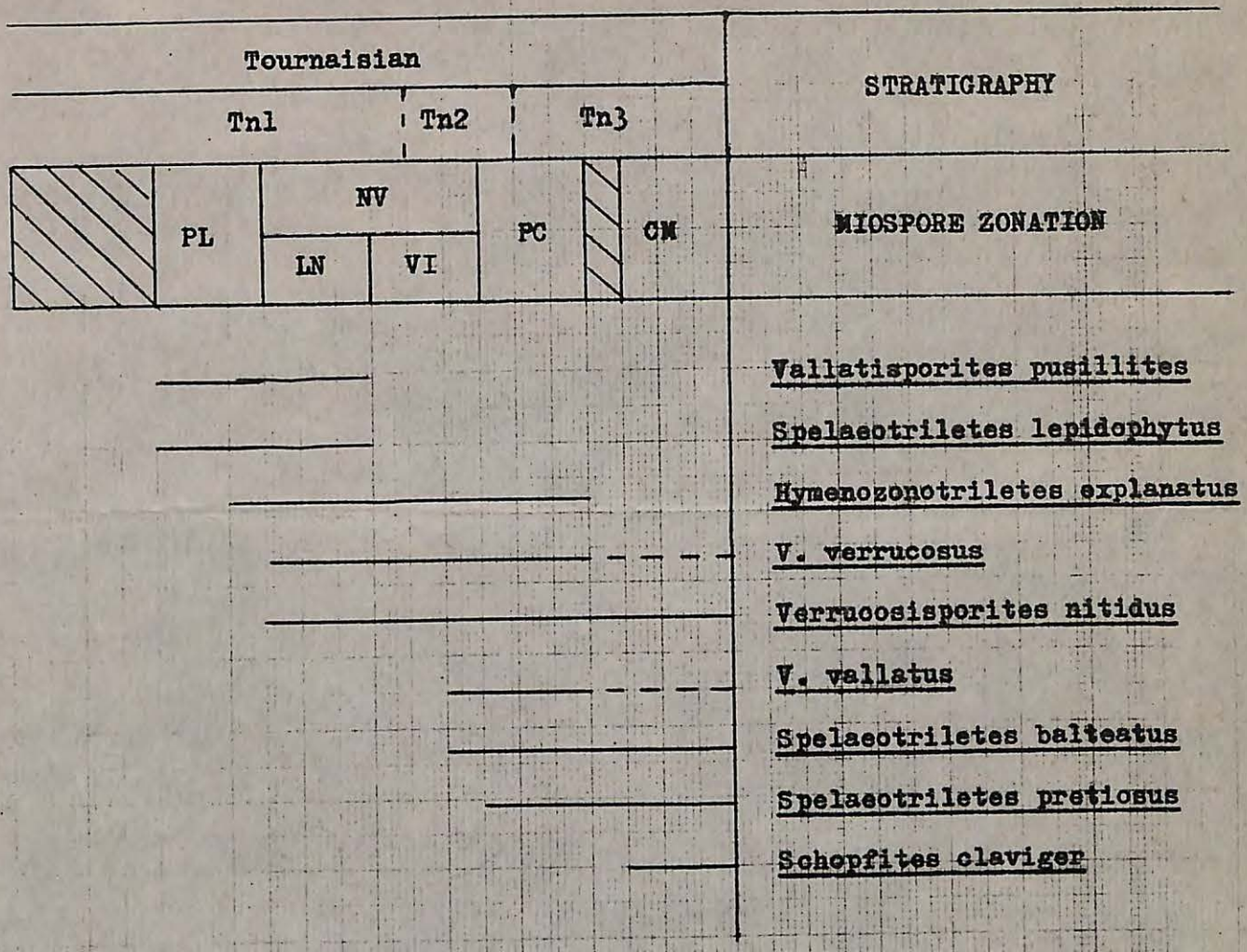

Ranges of Vallatisporites spp. in the Tournaisian of the British Isles. Shaded areas are breaks in the miospore succession.

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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

April 30, 1976

Dr. Geoffrey Clayton
University College
Dublin 4, Ireland

Dear Geoff:

Just a brief note to ask you for further information regarding your note of 10 December 1975. It accompanied the set of "exchange slides", and the note said "more details will follow shortly"--but as far as I know they never did! For example, excepting for the names of the persons who made the slides, there is no indication as to their exact provenance and so forth. Was I supposed to have got something about this?

Best wishes.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT:et

Hunt Institute for Botanical Documentation

UNIVERSITY COLLEGE,
DUBLIN 4.

10th Sept '75

Dear Dr. Traverse,

Please find enclosed one set of exchange slides. More details will follow shortly, as soon as I hear from Maurice Sheel re. his Moscow discussions.

Best wishes.

Geoff Clayton

Hunt Institute for Botanical Documentation

April 1, 1975

Dr. Geoffrey Clayton
Department of Geology
University College
Belfield, Dublin
Republic of Ireland

Dear Dr. Clayton:

A box of slides representing the uppermost Devonian ("cut one") and lowermost Mississippian ("cut three") of this area have gone forward to you per the request of Maurice Streel. They were sent air parcel post and should arrive in a few days. I am encbosing with this letter a reprint which includes a diagram (text-figure 1) showing the location of the samples.

Best wishes.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/vsi
Enclosure: reprint
cc M. Streel

Hunt Institute for Botanical Documentation

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

STATE GEOLOGICAL SURVEY DIVISION

M. M. LEIGHTON, CHIEF
121 NATURAL RESOURCES BUILDING
UNIVERSITY OF ILLINOIS CAMPUS
URBANA

June 18, 1954

Dr. Alfred Traverse
U. S. Department of Interior
Bureau of Mines
Box LL, University Station
Grand Forks, North Dakota

Dear Dr. Traverse:

Thank you very much for the list of comments and suggestions concerning the proposed glossary of coal petrology.

Although I have not yet been able to go over your suggestions in detail, a hasty check has revealed that you have noticed a great many items that are in need of attention. Your comments will be very helpful in the compilation of a final glossary, and I appreciate the time and thought you have given.

Sincerely yours,

Kenneth E. Clegg

Kenneth E. Clegg
Assistant Geologist
Coal Division

Hunt Institute for Botanical Documentation

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

June 10, 1954

Dr. Kenneth E. Clegg
Coal Division
Illinois State Geological Survey
Urbana, Illinois

Dear Dr. Clegg:

Enclosed are the list of coal petrological terms, with my comments, additions, etc. I have confined myself to commenting on those terms with which I work:

1. those that apply to lignite
2. U. S. Bureau of Mines coal petrographic terms

This list seems a very worthwhile project but a rather staggering project. You have done a remarkable job of compilation and collation.

My principal overall suggestion is to be sure that the terms are given their most up-to-date definition. For example, the definitions in a recent paper by Selvig antedate former uses of such terms as xyloid lignite.

Very truly yours,

Alfred Traverse
Coal Technologist

Enc.

ATraverse:vh

cc: JDLankford
Region V
Traverse
File 625.1
C File

Hunt Institute for Botanical Documentation

Comments on list of terms:

Page 1. The distinction between agglomerating and agglutinating values is not clearly explained. The definitions should explain briefly exactly <u>what</u> is done in the tests and how the test results are interpreted. Good definitions are given in: Fieldner, A. C., and Selvig, W. A. Methods of Analyzing coal and Coke. U. S. B. M. Bulletin 492, 1951, p. 40 (agglutinating value) and p. 29 (agglomerating value).

The term "binding qualities" is unsatisfactory, especially for agglomerating value, a measure of caking properties. The statement "binding qualities of a coal" does not indicate clearly that a property of heat treated coal is meant.

Page 2. <u>Amber</u>. It seems unwise to restrict the definition to the so-called "true amber", or succinite, of Europe. Closely related fossil resins found in a variety of locations are often called amber. If the definition <u>is</u> restricted to "true amber", that should be stated.

The richest occurrences of "true amber" are in the "blue earth" of Samland, East Prussia - a deposit not directly connected with brown coal. Amber does occur in brown coal, but this is not invariable. The "blue earth" deposit is Oligocene. "Early Tertiary" would be more accurate than "Eocene" as an age for "true amber".

Page 2. <u>Anthraxylon</u>. In place of definition given, I would suggest:

"The component of coal consisting of particles of plant tissue with cellular structure, exceeding 14 microns in vertical extent in the coal bed, composed primarily of woody and bark tissues. Leaves, roots, fruits, seeds and scales are also included. Depending on extent of weathering and biological decomposition in the peat state, the size of the pieces and the extent of cellular preservation varies widely. Megascopically, anthraxylon is vitreous and brittle in bituminous coals, somewhat glossy and tough in fresh lignite. Except for the size limit, anthraxylon and vitrain are essentially equivalent."

(The term "bark" is botanically more satisfactory for what is meant here than "cortex".)

This definition conforms to present usage in the Bureau of Mines more closely than the definition given. See:

a. Parks, B. C., and O'Donnell, H. J. Determination of Petrographic Components of Coal by Examination of Thin Sections. A.I.M.M.E. Tech. Pub. 2492, 1948, 17 pp.

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See especially the appended discussion of this paper by J. M. Schopf in which the size distinctions are discussed.

b. Traverse, A. A Method for the Petrographic Analysis of Commercially Delivered Lignite. Econ. Geol. vol. 49, No. 1, 1954, p. 93.

Page 3. Attritus.

a. First sentence is obtuse and misleading. I suggest: "A megascopically dull gray to nearly black (in bituminous coals), frequently finely banded component of coal. In lignite, dull brown to black. It comprises the bulk of some coals. Bands of attritus alternate with bands of anthraxylon in highly banded coals.

b. Delete "mineral matter" from sorts of matter included - at least discrete particles of mineral matter are not included in Bureau of Mines classification.

c. Include statement, "See translucent attritus and opaque attritus".

Page 4. Banded ingredients - should a statement be included that Bureau of Mines coal petrographers speak of anthraxylon, attritus, and fusain as banded ingredients?

Page 4. Bernstein - This is a specific German name for "true amber". It is not necessarily found in association with lignite beds. It occurs abundantly in the Oligocene.

Page 4. Bituminous lignite. As far as I know, this term is not used. There seems no point in including the term, especially with no definition.

Page 5. Black lignite. Outmoded term, no longer used. Now included under subbituminous coal.

Page 6. Brown lignite. Outmoded term. Essentially same as present term lignite.

Page 7. Add: Canneloid attrital lignite. This is lignite of which less than 50% is anthraxylon and the attritus is composed primarily of cuticular matter, spores and pollen exines, resin and waxes. (See Selvig, W. A. Properties of Lignites of the United States. Fuel, 32, No. 1, 1953, pp. 28-35.)

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Page 11. Coorongite: Suggestion: add statement that it is formed by colonial alga, Botryococcus Braunii Kützing. (See Blackburn, K. B., and Temperley, B. N. Botryococcus and the Algal Coals. Trans. Roy. Soc. Edin., vol. 58, Part 3, No. 29, 1936, pp. 841-868.)

Page 16, Fusain. Definition too short. Should include a statement about the microscopic structure: "predominantly woody tissue with distinct cellular structure, the cell walls being highly carbonized and opaque. Cell lumina frequently filled with mineral matter. U. S. Bureau of Mines classification does not include as fusain, particles with vertical extent in the coal seam of less than 37 microns. Such particles are included with opaque attritus." (See Parks and O'Donnell, same reference as given earlier.)

Page 18. Addition: Humic attrital lignite. Lignite in which less then 50% is anthraxylon, and the attritus is composed mainly of humic degradation matter. (See Selvig, W. A. Properties of Lignites of the United States. Fuel, 32, No. 1, 1953, pp. 28-35.)

Page 20. Lignite: . . . less than 8,300 Btu. per pound.

Page 20. Addition: lignitic coal should be defined, since term is used in discussion of both lignite and brown coal.

Page 20. Micrinite: ". . . or maceral, of durain, .. . of clarain."

Page 22. Monkey hair: term not used in American literature.

Page 24. Addition: "Opaque attritus. That attritus that will not transmit light in thin sections of about 10 microns thickness. In U. S. Bureau of Mines practice, includes particles of fusain-like material less than 37 microns in vertical extent in the coal bed. See attritus, translucent attritus." (Parks and O'Donnell, same reference as given earlier.)

Page 25. Pre-vitrain. Include note that in U. S. Bureau of Mines practice, this is called anthraxylon, just as the similar component of higher rank coals.

Page 31. Succinite. This should include statement: see amber and Bernstein.

Note that the definition of succinite given here is not consistent with that given for amber earlier, in which amber is defined as the so-called "true amber" of northern Europe.

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Page 33. Addition: "Translucent attritus. That attritus which is translucent in thin sections about 10 microns thick. Includes cuticular matter, spore and pollen exines, humic degradation matter, resinous material, and, in U. S. Bureau of Mines usage, fragments of anthraxylous matter of less than 14 microns vertical extent in the coal seam . See attritus, opaque attritus." (See Parks and O'Donnell, same reference as given earlier.)

Page 37. Xyloid lignite. The definition used should be: "That variety of lignite composed predominantly (more than 50%) of anthraxylon." (See Selvig, W. A. Properties of Lignites of the United States. Fuel, vol. 32, No. 1, 1953, pp. 28-35.)

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Comments on the bibliography:

The bibliography needs to be thoroughly checked. Examples of errors:

1. Foreign words are misspelled in many instances, especially regarding umlauts and other accent marks.

2. Duparque's initials are omitted.

3. Citations do not follow consistent practice.

   a. Some first names are written out, initials are used for others.

   b. Citation of dates of publication is not consistent - the dates appear in several different locations and forms.

4. Months are unnecessarily given in some date citations.

5. Page numbers are omitted in several instances.

Hunt Institute for Botanical Documentation

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

STATE GEOLOGICAL SURVEY DIVISION

M. M. LEIGHTON, CHIEF
121 NATURAL RESOURCES BUILDING
UNIVERSITY OF ILLINOIS CAMPUS
URBANA

May 14, 1954

Dr. Alfred F. Traverse
Lignite Research Laboratory
U. S. Bureau of Mines
Grand Forks, North Dakota

Dear Dr. Traverse:

You are probably aware of the resolution of the International Committee for Coal Petrology at its first meeting in Galeen, Holland, last June to prepare a glossary of coal petrology. Dr. Cady submitted my name for consideration as this country's representative to compile a list of terms common to American usage.

Inasmuch as the terms and definitions submitted will be a matter of concern to all who work with coal petrology, I feel sure you will welcome an opportunity to go over the enclosed check list and to make any suggestions of additions, deletions, or changes that may occur to you. The list is tentative and entirely open to change so that you may feel entirely free in making recommendations.

You are no doubt pressed for time. However, if you can return the list with your recommendations by the middle of June it will be a very real help. If you have not been able to cover it completely by that time, whatever you may have been able to accomplish will be welcome.

Sincerely yours,

Kenneth E. Clegg

Kenneth E. Clegg
Assistant Geologist
Coal Division

Enc

Hunt Institute for Botanical Documentation

January 6, 1969

Mrs. Sally Clement
Department of Geology
Lyman Hall
Syracuse University
Syracuse, New York 13210

Dear Sally:

If I interpret my scratchings correctly, you wanted the following reference:

R. Potonié, "Synopsis der Gattungen der Sporae Dispersae." Part I. Beihefte zum geologischen Jahrbuch, Heft 23, 1956, Hannover.

Part II. Heft 31, 1958
Part III. Heft 39, 1960
Part IV. Heft 72, 1966

This is the basic work on the classification of fossil (mostly Paleozoic) spores. The scheme has been somewhat revised and brought up to date in the following publication:

Dettmann, Mary E. Upper Mesozoic microfloras from south-eastern Australia. Proc. Roy. Soc. Victoria 77 (1963), Part 1.

Sorry you got sick for the last day of the "short course". I got home barely in time to preside over the Honk Kong miseries of my family.

Best wishes.

Yours very truly,

Alfred Traverse
Associate Professor of Geology

AT:kwc

Hunt Institute for Botanical Documentation

AMERICAN ASSOCIATION OF STRATIGRAPHIC PALYNOLOGISTS, INC.

PRESIDENT: John A. Clendening
Amoco Production Co.
P.O. Box 3092
Houston, Texas 77253

SECRETARY-TREASURER: Kenneth M. Piel
Union Oil Co. Research Ctr.
P.O. Box 76
Brea, California 92621

PRESIDENT-ELECT: Vaughn M. Bryant, Jr.
Anthropology Department
Texas A&M University
College Station, Texas 77843

MANAGING EDITOR: Douglas J. Nichols
U.S. Geological Survey
Mail Stop 919, Box 25046
Denver, Colorado 80225

July 5, 1984

Dr. Alfred Traverse
Dept. of Geosciences
Pennsylvania State Univ.
435 Deike Bldg.
University Park, PA 16802

Dear Al:

It was decided by the present Board of Directors of A.A.S.P., at the 1984 mid-year meeting in El Paso, Texas, to have plaques made up for all living past presidents of A.A.S.P. in appreciation for their services to the association. These plaques will be presented to the past presidents in attendance at the Annual Business Luncheon of the 1984 Annual Meeting. We are looking forward to having a large representation of the past presidents present to receive their plaques in person (if you cannot be present we will, of course, ship it to you).

I would very much appreciate hearing from you as to whether you expect to be present.

Hoping to see you in Virginia,

John A. Clendening
President

DIRECTORS AT LARGE:

James E. Canright Lucy Edwards Jocelyne A. Legault Virgil D. Wiggins

Hunt Institute for Botanical Documentation

AMERICAN ASSOCIATION OF STRATIGRAPHIC PALYNOLOGISTS, INC.

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Houston, Texas XXXXX 77253

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Anthropology Department
Texas A&M University
College Station, Texas 77843

MANAGING EDITOR: Douglas J. Nichols
U.S. Geological Survey
Mail Stop 919, Box 25046
Denver, Colorado 80225

December 5, 1983

Dr. Alfred Traverse
Dept. of Geosciences, Palynological Lab.
The Pennsylvania State University
University Park, PA 16802

Dear Al:

Yes, I agree that A.A.S.P. should consider selling ads in the Newsletter. This has been considered before but was never acted upon. I will take it upon myself to inquire regarding fees charged by other organizations and this can be discussed at the mid-year meeting.

Your query shall be kept confidential unless I hear otherwise from you.

Best wishes,

John A. Clendening

JAC/bjh

DIRECTORS AT LARGE:

James E. Canright Lucy Edwards Jocelyne A. Legault Virgil D. Wiggins

Hunt Institute for Botanical Documentation

29 November, 1983

Dr. John A. Clendening
Amoco Production Co.
P.O. Box 3092
Houston, TX 77253

Dear John:

Congratulations on assuming office as AASP president!

Just a confidential query--would you agree with me that AASP Newsletter should consider selling ads? I suspect that, for example, private consultants will appear in increasing numbers among our ranks, and I doubt that all could or should get a lengthy free plug per p. 2 of Newsletter 16:4. In fact, maybe the best way to keep everybody happy about classified-ads that are quite a feature of the NL is to charge for them?

Best wishes.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

December 22, 1975

Dr. John A. Clendening
Amoco Production Company
P.O. Box 3092
Houston, TX 77001

Dear John:

More about the Tuscarora material some day--I have a student friend who is working on the problem with me.

Regarding Bruce Cornet's work in the Gettysburg Basin: he is understandably reluctant to release the localities until his work has been completed because several of the places are producing megafossil plants, and he doesn't want the localities sampled by others until the plants have been thoroughly excavated and studied.

However, Bruce is willing to have you work on two localities in Gettysburg basin that contain good palynomorphs but no megafossil plants--the rocks should be good for your maturation studies:

1. Base of New Oxford Fm. about 1 mi. sough of New Oxford, Pa. at a new roadcut on the main road south from New Oxford.

2. North of Gettysburg on new highway, Rt. 15, within lower half of Heidersburg mbr. (check geological map by Stose on Adams County) in a greenish-gray, mottled red clayey siltstone unit exposed on the highway right-of-way.

Best wishes of the holiday season!

Yours very truly,

Alfred Traverse
Professor of Palynology

AT:jb

cc: Bruce Cornet

Hunt Institute for Botanical Documentation

Amoco Production Company
500 Jefferson Building
P.O. Box 3092
Houston, Texas 77001

November 5, 1975

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

Dear Dr. Traverse:

Thanks for the reprints which arrived yesterday.

Your suggestion for a joint Tuscarora paper is quite interesting. If I can contribute something of significance I would be more than willing to do so. If you pursue the idea, please keep me posted.

I am quite interested in your work with Bruce Cornet on the Newark Group Basins. I read that you have found several productive sections in the Gettysburg Basin of Pennsylvania. Would it be possible for you to release the general geographic locations of your productive sections (Gettysburg Basin)? My principal interest at the moment is in regard to organic maturation. I have processed a number of samples (from east of the Schuylkill River eastward to just east of the Delaware River) and have found all samples barren of useful palynomorphs. Our samples were from the Lockatong lithosome only.

Any information you can release at this time would be most appreciated.

With best regards,

John

John A. Clendening

JAC/rl
3/575

Hunt Institute for Botanical Documentation

June 12, 1970

Dr. John H. Clendening
Pan American Petroleum Corporation
Geological Department
P.O. Box 1410
Fort Worth, Texas 76101

Dear John:

All that was ever published about my work with sporopollenin was an abstract, which I enclose. I always had hoped to get more time to work on the fascinating problem, but what with the multiple things I have going it seems unlikely at least for a while.

Best wishes to you as always.

Yours very truly,

Alfred Traverse
Professor of Geology & Biology

AT:kc

Enclosure: abstract

Hunt Institute for Botanical Documentation

STATE OF WEST VIRGINIA
GEOLOGICAL AND ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN

PAUL H. PRICE, DIRECTOR
AND STATE GEOLOGIST

June 28, 1967

Dr. Alfred Traverse
Dept. of Geology & Geophysics
Pennsylvania State University
University Park, Pennsylvania 16802

Dear Dr. Traverse:

Thank you for your card received this morning.

As you suggested I obtained a copy of "Die sporae dispersae des Ruhrkarbons---" on interlibrary loan from Johns Hopkins University and had a zerox copy made of all the small spores described therein.

Thank you very much for your offer to help if I could not so obtain a copy. If you have occassion to be in the vicinity of Morgantown please stop by for a visit.

Yours sincerely,

John

John A. Clendening
Coal Geologist and
Palynologist

JAC:hd

Hunt Institute for Botanical Documentation

STATE OF WEST VIRGINIA
GEOLOGICAL AND ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN

PAUL H. PRICE, DIRECTOR
STATE GEOLOGIST
AND PROFESSOR OF GEOLOGY

MINERAL INDUSTRIES BUILDING
WEST VIRGINIA UNIVERSITY
PHONE 296-4461

May 31, 1967

Dr. Alfred Traverse
Ed., Catalog Fossil Spores and Pollen
Deike Building
Pennsylvania State University
University Park, Penn. (16802)

Dear Dr. Traverse:

Thank you very much for the reprint of your recent paper which appeared in Marine Geology. Thank you also for the address of the place for purchasing Potonie's Sporae dispersae and Sporae in situ papers.

As you suggested I am attempting to get a copy of "Die Sporae dispersae des Ruhrkarbons ----" through normal library channels. If I am not successful, I will let you know and possibly could borrow your copy for a short time.

Your help in this matter is very much appreciated.

Yours sincerely,

John

John A. Clendening
Coal Geologist-Palynologist

JAC/vf

Hunt Institute for Botanical Documentation

May 23, 1967

Dr. John A. Clendening
West Virginia Geological Survey
Box 879
Morgantown, West Virginia 26504

Dear John:

I enclose a photocopy of my letter from Potonié, with the address of the place for purchasing the publication we discussed.

R Regarding, "Die Sporae Dispersae des Ruhrkarbons," I discover that the amount of photocopying that would be required to copy the three parts is more substantial than I had been counting on, and I think I must withdraw the offer to have the whole thing copied.

Will you check on whether the West Virginia library couldn't borrow a copy or get you a photocopy through normal channels, such as from the Library of Congress? If not, would copying of certain pages do? If so, which ones? I could copy off ten or twenty pages without much trouble.

I am reluctant to loan the publication because we use it for reference in preparing the Catalog fairly often, but if worse comes to worse, and I could help by letting you have it for a week or so, will do. O. K.?

Yours very truly,

Alfred Traverse
Editor
Catalog of Fossil Spores and Pollen

AT:kaw

Hunt Institute for Botanical Documentation

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

11 June, 1987

Professor H.T. Clifford
Department of Botany
University of Queensland
St. Lucia, Queensland 4067,
Australia

Dear Professor Clifford:

Thanks so much for yours of 25 May, 1987.

I agree, as I've noted before, that a complete list of authors will be very helpful. I would like to help in whatever way I can (read the MS?).

Another possible publisher would be the AASP (American Association of Stratigraphic Palynologists) Contribution Series. It's just the sort of thing they take. Current editor is Dr. Douglas J. Nichols (USGS, M.S. 919, Box 25046, Denver, CO 80225). However, one would think one of the series of monographs in Australia would offer advantages of economy of effort for you.

See you in Berlin (and in Queensland in 1988!).

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

TELEPHONE: 377 2731

University of Queensland
DEPARTMENT OF BOTANY
ST. LUCIA, QUEENSLAND, AUSTRALIA. 4067

25 May, 1987

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

Dear Al,

Thank you for your comments on the proposed list of fossil-plant authors. I agree abbreviations may not be necessary. Indeed, they may not be possible. However, my role is fixed by my tacit agreement to undertake the task for the "Kew List". An initial skirmish into the problem indicates the "List" will more than double the original if the authors of fossil-plants are included.

None-the-less, a list of authors would be useful according to many people. The relevant literature is largely available in Brisbane but I am loathe to begin unless assured of a place of publication.

The librarian in the Geology Department is willing to assist but it would be unreasonable to accept her (Margaret Eva) offer without a publisher for not only is the task formidable but would be undertaken mostly outside official hours. Can you offer an opinion as to a possible publisher?

A suggestion due to Mary Dettmann is that either Rev. Palaeobot. or "Pollen et Spores" may agree to publication if the project had the support of IOP or IFPS. Perhaps such a possibility could be canvassed at the forthcoming Berlin Congress where I trust we shall meet?

With kind regards,

Yours sincerely,

Trevor

H.T. CLIFFORD,
Professor of Botany

c.c. W. Chaloner

Hunt Institute for Botanical Documentation

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

30 April, 1987

Dr. H. T. Clifford
Department of Botany
University of Queensland
St. Lucia, Queensland 4067
Australia

Dear Dr. Clifford:

Thanks for yours of 21 April. As I may previously have said, I am not sure abbreviations of fossil plant authors is necessary, as it is seldom too much trouble to give the whole name. However, a spinoff of your work will be a list of authors, and that I wish I had, here and now.

Advice re fossil spores/pollen (not just pollen) and other palynomorphs: Well, you should have access to Jansonius & Hills file of generic cards (Dettmann & Playford would certainly have a complete set). It is very nearly complete at the generic level. You also need the Catalog of Fossil Spores and Pollen for species names. Unfortunately it's only 30-40% complete. Dettmann & Playford and de Jersay (in Brisbane) certainly have the 45 volumes between them. Dinoflagellates are regarded as plants by the Code. For them you need Lentin, J.K. & G.L. Williams, Fossil Dinoflagellates: index to genera and species, 1985 ed. (Canadian Tech. Rept. of Hydrography & Ocean Sci. No. 60, 451 pp.)

Acritarchs are also plant remains, in part if not entirely. You should have Eisenack, A. 1964--Katalog der fossilen Dinoflagellaten, Hystrichosphären und verwandten Mikrofossilien (vols. 3-6, acritarchs). Vols. 1-2, dinoflagellates, would be useful as a supplement to Lentin & Williams, but none of these volumes is very complete. Coccoliths and discoasters ("nannofossils" or "nannoplankton") are outside of my domain, but they have a large fossil literature and must be covered. Same goes for diatoms--a huge literature. Charophyte oogonia have a smaller literature, but you must cover them (write Chris R. Hill, British Museum (Natural History), London, for advice). That is most of what there is for microscopic fossil plants and plant organs.

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One problem that will bedevil you is folk who change their names, mostly but not exclusively women. It is my view that you must not patch this up! Bhardwaj (to 1962 and before) and Bharadwaj (post 1962) are the same person, but must be treated as two different publishing units. Same goes for E. Truswell and E. Kemp (I believe the world's record is 4 different publishing names).

Best wishes and deep sympathy.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et
cc: W.G. Chaloner

Hunt Institute for Botanical Documentation

University of Queensland
ST LUCIA, QUEENSLAND, 4067
Department of Botany

21st April, 1987

Prof. A. Traverse,
Dept. of Geosciences,
435 Deike Building,
Pennsylvania State University,
University Park PA 16802,
PENNSYLVANIA, U.S.A.

Dear Al,

As you know I have agreed to produce a list of palaeobotanists who have described fossil plants, including fossil pollen.

The task is a formidable one and would not be possible without the assistance of Mrs. Margaret Eva who is Librarian to the Geology Department at the University of Queensland.

At present it is proposed the list be incorporated in the Kew List of Author Abbreviations. To have a single list of plant authors will be helpful.

Any advice you may care to offer me on the project would be welcome.

With kind regards,

Yours sincerely,

Trevor

H.T. CLIFFORD,
Professor of Botany

Hunt Institute for Botanical Documentation

May 15, 1972

Professor Ernst Cloos
Department of Earth & Planetary
Sciences
Johns Hopkins University
Blatimore, Maryland 21218

Dear Dr. Cloos:

Thank you for yours of 6 May. Regarding your samples which I worked on, I probably should make absolutely clear that I did not process every sample, but I did macerate approximately seven samples representing what I regarded to be the complete range of lithology represented by the samples sent. The result was exactly the same for all the samples--very much carbonized organic remains and no recognizable spores. It is not a particularly surprising result for Triassic material from this vicinity. I have a continuing and considerable interest in Triassic palynomorphs from this area, and would appreciate it if you would keep me in mind as somebody to look at possibly productive Triassic rocks.

I am returning the samples to you under separate cover, and I am enclosing a representative slide of the maceration residue of one of the samples with this letter in case you might find it interesting to look for yourself. The residue has already been bleached rather extensively, and I found that the next stage was the complete elimination of all of the organic matter without ever passing through a stage of translucent material. This is typical for highly carbonized residues.

Best wishes.

Yours very truly,

Alfred Traverse
Professor of Geology & Biology

AT/vsi

Hunt Institute for Botanical Documentation

THE JOHNS HOPKINS UNIVERSITY · BALTIMORE, MARYLAND 21218

DEPARTMENT OF EARTH and PLANETARY SCIENCES

May 6, 1972

Dr. Alfred Traverse
Professor of Geology & Biology
Deike Building
The Pennsylvania State University
University Park, Pennsylvania 16802

Dear Dr. Traverse:

Thank you for your letter of March 31. Very strange that the samples are so metamorphosed that the organic material has become nothing but fibrous carbon with no spores. The entire core shows no signs of change above or below the black portion and I had been wondering about the slickensiding.

I suggest that left over material should probably go back into the core boxes and I try to keep the core as complete as possible.

With best wishes.

Sincerely,

Ernst Cloos

EC:mbs

Hunt Institute for Botanical Documentation

THE JOHNS HOPKINS UNIVERSITY · BALTIMORE, MARYLAND 21218

DEPARTMENT OF EARTH and PLANETARY SCIENCES

May 24, 1972

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

Dear Dr. Traverse:

Thank you for your letter and the samples which arrived yesterday. It is unfortunate that the effort shows no results but then that is in itself worth knowing and when we make our final report, I will mention it -- with due credit, of course.

The red shales above and the red matrix in the conglomerate below show no signs of metamorphism and also little slickensiding. But the black shale is slickensided and obviously changed.

Thanks again and with best wishes,

Yours,

Ernst Cloos

EC:kmf

Hunt Institute for Botanical Documentation

March 31, 1972

Prof. Ernst Cloos
Department of Earth & Planetary Sciences
Johns Hopkins University
Baltimore, Maryland 21218

Dear Prof. Cloos:

This is further to our correspondence about the samples of Triassic rock which you sent me per your letter of 19 November, 1971. I have now had an opportunity to run approximately half of the samples, those which appeared to me from their gross character to be the most promising. Unfortunately, I must report that I obtained essentially the same result for everyone of the samples--there is a large organic residue, but unfortunately it consists of very highly carbonized clasts which are completely opaque. Some of them may once have been pollen grains or spores, but there is no way of telling, and I get the impression that the carbonization is severe enough that even the scanning electron microscope would tell me rather little. I must confess that when I noticed that some of the pieces of core were slickensided, my heart sank because as you probably know the two great enemies of palynological success are oxidation and carbonization. My guess is that if part of this core is metamorphosed enough to cause trouble, the whole core will be so metamorphosed. It is rather discouraging because I had high hopes. I have succeeded in getting spores out of Triassic materials of somewhat similaroorigin from both North Carolina and Connecticut. Thahk you for letting me try. Do you want what remains of the samples back or should I dispose of them?

Best wishes to you.

Yours very truly,

Alfred Traverse
Professor of Geology & Biology

AT/vsi

Hunt Institute for Botanical Documentation

THE JOHNS HOPKINS UNIVERSITY · BALTIMORE, MARYLAND 21218

DEPARTMENT OF EARTH and PLANETARY SCIENCES

November 19, 1971

Dr. Alfred Traverse
Deike Building
The Pennsylvania State Univ.
University Park, Penna. 16802

Dear Dr. Traverse:

Today we are mailing a package with 14 samples, numbered 473, 482, 491, 494, 498, 499.5, 500, 503, 505, 507, 509, 518, 520 and 540, which stand for depth from surface. If you find the material fruitful and want more I will be glad to send more, or better yet you can see the core here and sample as you like. I very much hope that you find the material good and filled with spores and pollen.

With best wishes,

Sincerely yours,

Ernst Cloos

EC:mbs

Hunt Institute for Botanical Documentation

THE JOHNS HOPKINS UNIVERSITY · BALTIMORE, MARYLAND 21218

301-366-3300
X-1004

DEPARTMENT OF EARTH and PLANETARY SCIENCES

October 27, 1971

Dr. Alfred Traverse
Deike Bldg.
The Pennsylvania State Univ.
University Park, Pa. 16802

Dear Dr. Traverse:

Answer to your letter of October 6 has been delayed because I was out of town.

I will be very glad to let you have material from any portion of the Triassic core. The core is in my laboratory and I could split it and send you $\frac{1}{2}$ or $\frac{1}{4}$ of the portions you are interested in. I could prepare lets say 8 or 10 samples -- spread through the black shale and limestone. Each would be 2 inches of $\frac{1}{2}$ core (the core is 2"). If your study is promising I can send more material.

Nobody has undertaken a spore analysis as yet, or even suggested it. Dr. Pettijohn and I will study the core in detail and report on it. This does not mean that you could not study the black shale and report on it.

I have freedom to publish, N.S.F. has given us money and Thomasville Stone and Lime Co. has given me the core -- even delivered it to my lab.

With best wishes and let me know what you need.

Very sincerely yours,

Ernst Cloos

EC:kmf

Hunt Institute for Botanical Documentation

October 6, 1971

Dr. Ernest Cloos
Department of Geology
Johns Hopkins University
Baltimore, Maryland 21218

Dear Dr. Cloos:

I saw your abstract in the program of the forthcoming GSA meeting. We have been working for some time on spore analysis of Triassic material from various locations in North American-usually a pretty difficult business because red beds are almost devoid of spores and pollen. In your abstract you refer to "seventy four feet of gray and black mudstone", which sounds very interesting to me as being possibly productive of a spore-flora I wonder if anybody is already looking at that section of the core. If not, I wonder if you would consider leeting me have a crack at it? If so, where would I get three or four samples to see what the prospects are?

Looking forward to hearing from you, I am

Yours very truly,

Alfred Traverse
Professor of Geology & Biology

AT/kai

Hunt Institute for Botanical Documentation

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

August 6, 1954

Mr. Preston E. Cloud, Jr.
Chief, Paleontology and Stratigraphy Branch
U. S. Geological Survey
Room 338, National Museum
Washington 25, D. C.

Dear Mr. Cloud:

In my letter of January 28, re possible prospects for the palynology job at Denver, I mentioned Mr. Robert McLaughlin, of the University of Tennessee, but expressed doubt that he would be a serious candidate. McLaughlin is instructor in paleontology at Tennessee and is doing his dissertation on the pollen analysis of some Tennessee lignites.

He has spent the last two weeks here, comparing notes with me and getting material for his reference collection, etc. It turns out that he did his master's thesis at Tulane on a stratigraphic problem, for which he used palynologic methods. He has a remarkably good background in both geology and botany and is a very enthusiastic and competent worker. My impression of him after working two weeks with him is very high. I would recommend him for consideration for the Denver position, if you are still looking for someone. Of course, he would not be available until the end of the 1954-55 academic year.

Very truly yours,

Alfred Traverse
Coal Technologist

ATraverse:vh

cc: Region V
JDLankford
ATraverse
File 625.1
C File

Hunt Institute for Botanical Documentation

IN REPLY REFER TO:

G-P&S-PEC

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

338 U. S. National Museum

January 20, 1954

Mr. Alfred M. Traverse
Lignite Research Laboratory
Grand Forks, North Dakota

Dear Mr. Traverse:

Your letter of January 14, has just arrived, withdrawing your name from further consideration for the palynology position discussed in my letter of January 4. I especially appreciate having your analysis of the reasons for your decision.

I am not entirely surprised at your choice, although I regret it and feel that you have misweighed the factors. As you can't occupy both jobs concurrently we'll probably never know the answer to this objectively. In any event I would rather have it so than to have you here under false pretenses or at cost of unjustified departure from what I believe to be sound policies.

So we're still in the market for a palynologist, when budget permits, and I know that good ones are scarce. Any names you care to suggest, now or later, will be welcome — including your own.

Yours sincerely,

Preston E. Cloud

Preston E. Cloud, Jr.
Chief, Paleontology and
Stratigraphy Branch

P.S. What have you decided about the Brandon monograph?

Hunt Institute for Botanical Documentation

Lignite Research Laboratory
Grand Forks, North Dakota

28 January, 1954

Mr. Preston E. Cloud, Jr.
Chief, Paleontology and Stratigraphy Branch
U. S. G. S.
338 National Museum
Washington 25, D. C.

Dear Mr. Cloud:

Your letter of January 20 was most welcome, especially since it assures me that you were not offended by my decision and that you understand my reasoning, though you do not agree with the weights attached to some of my arguments. It was most kind of you to leave the door open for a possible reconsideration at some future date. I am reasonably certain that I shall not want to stay on this job permanently, and perhaps I may be working for you yet some day.

As you say, good palynologists are rare birds. I might add that Tertiary palynologists with experience in other phases of paleobotany and geology (this sounds like an autobiography, doesn't it?) are much rarer.

Bill Spackman has a student, Charles Trotter, who is working on the palynology of a Fort Union coal. He spent a week with me last summer. He is bright and ambitious but is some years away from a thorough enough knowledge of Cenozoic and Mesozoic floras to take over this job. He will bear watching.

You may know about Jane Gray, a graduate student who was with Iverson's palynological crew in Denmark last year and now is studying under Chaney at California. She was a geology major at Radcliffe and was [illegible] courses (paleobotany and plant taxonomy) for which I had charge of the laboratory sessions. She was one of the two or three best students I have ever had. It is always hard to predict such things for a woman, but she will perhaps be a career scientist. Her combination geology-biology background and enthusiasm for palynology is very promising and rare.

Kirk Bryan's daughter, Margaret, was a biology major

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at Radcliffe and is now also studying palynology at the Iverson laboratory. She was an exceptionally keen student and might go on in palynology.

Elso now has a graduate student, Margaret Wolfe, who is a competent worker and should be through her doctoral work soon. I doubt that she is a serious prospect for this job, though--she is most unlikely to be a career research scientist in my opinion.

Last September at A. I. B. S. meetings I met a botany graduate student from the University of Tennessee who is interested in palynological investigations of some Wilcox lignites. He hasn't done much with it yet. His name is Robert McClaughlin. I doubt that he is a serious possibility for this job.

You perhaps know about Prof. Clair Brown, a botanist doing palynological research on Louisiana Wilcox material at Louisiana State University, Baton Rouge. He is not really a paleobotanist (despite being chairman of the Paleobotanical Section of B. S. A.), and whether he would have any graduate students who might interest you, I don't know but am inclined to doubt.

That is the whole story on American Tertiary palynologists, as far as I know.* I would like to make one general suggestion: get a man with a solid paleobotanical background, a man who knows the Mesozoic and Cenozoic floras. Do not be over-impressed by even considerable bibliographies in Pleistocene pollen analysis. Pre-Pleistocene palynology is a very different story.

About the monograph: I had better send it to the G. S. A., since Elso thinks I should. However, I am not nearly as sanguine about their taking it as he is. If they do not, I shall submit it to [illegible] as per previous discussion.

Very sincerely,

Alfred Traverse

* I have said nothing about L. R. Wilson, of the University of Massachusetts, who has done considerable work in this field and has a number of students. This is because he seldom comes to meetings and almost never publishes any of his work, because, I am told, of oil company restrictions. I haven't had opportunity to find out much about what goes on in Amherst.

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Lignite Research Laboratory
Grand Forks, North Dakota

14 January, 1954

Mr. Preston E. Cloud, Jr.
Chief, Paleontology and
Stratigraphy Branch
U. S. G. S.
Room 338, National Museum
Washington 25, D. C.

Dear Mr. Cloud:

Your letter of January 4 was a very thorough explanation of the palynology job in Denver as it would be available for me, and I appreciate your thoughtfulness in outlining the situation in detail. This decision has been very difficult for me, in part because I was so strongly prejudiced in favor of the opportunity in Denver. I had first heard of it several years ago and felt that it would be exactly what I wanted. Had that job and the one I have both been open in 1951, I'd of course be in Denver now. My situation is, however, somewhat different from what it was in January, 1951. Perhaps it would be of interest to you as a talent scout for scientific personnel if I outline the process of reasoning through which I have fought in the last two or three days.

Here is the balance sheet I have drawn up:

	P. & S. Job	Bureau of Mines Job
1. Research opportunity	Very interesting and promising--could be a lifetime job.	Many projects underway that are moderately interesting. Promise of future freedom to do other sorts of work, including palynology. Not attractive as a permanent job.
2. Research facilities	Apparently a ?, at least in the short run.	Superb; and plenty of funds for more equipment as needed.

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	P. & S. Job	Bureau of Mines Job
3. Research associates	Excellent	None--I am a lone [redacted] here.
4. Travel allowances	?	So far as I have been able to discover, essentially unlimited.
5. Salary	GS-9, with possibility of promotion to GS-11 in "several years".	GS-9, with probability of promotion in year or so--three years of Bureau "experience" in July, '54.
6. Living conditions	Denver an excellent place to live.	Grand Forks a mediocre place to live in my opinion.

To summarize, the superior facilities I have here in items 2 and 4 offset the deficiencies relative the Denver job I have here in items 1 and 3. Item 6 is a temptation but should be kept in the background. On item 5 the Denver job amounts to a demotion because it would mean no recognition for having satisfactorily operated a laboratory and designed a research program for the period 1951-54. If the Denver job were overwhelmingly more attractive in items 1, 2 and 3, the economic unwisdom would be more acceptable. Or, if the job in Denver were a promotion, the uncertainties about facilities would be overlooked as temporary inconveniences. (I might also note that in view of the consideration I have had from the Bureau of Mines, I think I should not leave here unless I can present a good case to my superiors that I am moving to a better job. It doesn't look to me that I could make much of a case.)

This all seems rather complex, but I think there are very few people who can honestly make a decision of this sort on the basis of only one factor. I think it is unrealistic to think that this is possible. In the days of the semi-monastic scholar--well, that was another story. For the man who is primarily interested in a life of research, as I am, questions of salary and place of employment are secondary. The fact that I am doing research for the government and in North Dakota shows clearly where I stand. Yet even for a scientist, economic considerations must be weighed in the balance along with the other things, and I offer no apology for having listed point 5 above as of major importance. A man with a wife and two children is not only unwise, he is immoral unless he considers the relationship of his salary to the cost of living where he will be.

Hunt Institute for Botanical Documentation

I am grateful for your having considered me, and I am really very disappointed that this hasn't worked out.

The very interesting memorandum you sent me is enclosed. That is a live organization and program you are building up. Any good paleontologist would enjoy being part of such an outfit. Your concept of the ideal paleontologist on page four is entirely sound, but I anticipate that you will have trouble finding many such men at GS-9.

Looking forwar to meeting you some day and with very best wishes, I am

Yours sincerely,

Alfred Traverse

Hunt Institute for Botanical Documentation

PERSONAL

PERSONAL
IN REPLY REFER TO:
G-P&S-PEC

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

January 4, 1954

Mr. Alfred M. Traverse
Lignite Research Laboratory
Grand Forks, North Dakota

Dear Mr. Traverse:

Quite a pile of correspondence and other papers relating to you had accumulated on my desk while I was away. That your appointment was not consummated during my absence is in one way regretful and in another way good, however.

I regret it because budget developments during my absence and beyond my control have so affected our program that it may not be possible to complete the appointment at this time. The papers are all cleared and I am going to try to get our current budget estimate revised to the point where we can complete the action if you still want the position on the terms outlined. In the meantime you should know that there is this snag. Of course, if you had been formally transferred with an EOD date (or if you are later so appointed) we would be in a much stronger position for holding this job.

The reason I say the non-appointment is "in another way good" is that your letters of November 19 and December 14 indicate that you not only have better research facilities and assistance where you are than we can offer, but also that you are not enthusiastic about transferring to the U.S.G.S. without an increase in grade. These matters should certainly be cleared between us before any further steps are taken to effect your transfer, for I don't want you to be disappointed or misled about what your future with the Paleontology and Stratigraphy Branch would be in terms either of research facilities or salary.

Let me touch on the research angle first because that is what I would like to think we both regard as the decisive point. You would be stationed in our new laboratory at Denver and would have responsibility for developing a program of research and service in palynology for the U. S. Geological Survey within the Paleontology and Stratigraphy Branch. This laboratory was designed specifically for such work according to plans provided by Barghoorn and Spackman. Branch policy is to give free rein and assistance to members of the research staff as they earn it and to the limit that is effective and justifiable. This is spelled out in broad terms in the attached statement of objectives and program. If you came on now we could not immediately provide you with more than ¼ to ½ time laboratory assistance, though I would feel that a full time assistant

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was in order for this work and should be provided as soon as possible. Clerical assistance, of course, is ample. I do not believe that more than one technician to one research man in this field is likely to be necessary or helpful — assistants must be kept busy, and too much assistance to direct may detract more than it adds to professional usefulness. In any event we do not contemplate the ambitious sort of assembly line program the BM apparently has in mind for you. Here you'd get what supervision we could give at first (chiefly in terms of accountability for research), with an increasing degree of freedom in selection of problems and planning as your progress warranted. A very large degree of freedom is rapidly extended to gifted and responsible members of the Paleontology and Stratigraphy staff.

In specific terms your first big jobs would be in Basin Range-Mojave, Rocky Mountain, and Coastal Plain Cenozoic.

An increase in grade (and salary) on transfer is out of the question on three counts: (1) it smacks of intradepartmental raiding, (2) I want your decision to be based on factors other than financial, and (3) a GS-11 grade for you at this time would be out of line with that of other Paleontology and Stratigraphy staff members of comparable training, experience, and accomplishments. If you come to us, as I hope you will, because of the inducements we offer in terms of research freedom and a research future, you will go forward according to the quality and quantity of your published research and service work performed, as the rest of our research staff does and at a rate comparable to that of equally able and productive men of your experience-group. Your promotion to GS-11 with us could lie several years in the future -- sooner if you produce a large volume of superior work, much later with a poor production record of less than superior quality.

I am sorry we cannot arrange for you to visit the Denver laboratory. Elso Barghoorn saw it and should be able to give you a pretty good idea of what promises. I think it's a fine layout, but it is not as fancy as Schopf's nor, apparently, comparable to the one you now have. We do not have $15,000 or even $1,500 for palynological equipment this or next year. Our aim is to provide <u>all</u> of the Paleontology and Stratigraphy staff with facilities and help adequate to the job, while at the same time maintaining a position that will stand up under inspection for economy of operation. All I can or will promise is to do what I can to get you what you <u>need</u>. If you can arrange on your own to make a trip to Denver I should, of course, be glad to have you look the place over. Dr. Reuben J. Ross is in charge of the Branch laboratory there and you should advise him as far ahead of time as possible of any plans you may have for calling there. Much equipment is on hand, of course, and microscopes will be provided as needed.

Hunt Institute for Botanical Documentation

I am glad to hear that the Brandon monograph is progressing well. By all means let G.S.A. have it if they'll take it. My only interest is in seeing it published, and my offer to try for Survey publication was contingent on the supposition that you had no other source. Your decision will not affect our consideration of you for the Denver post. On the contrary our case for Survey publication of a non-Survey product might be weakened if there were other obvious outlets.

I hope this answers all your questions and that you will still want to hang your hat with us if I can work out the financial angle. The streets aren't paved with gold here -- but we've a fine group of associates and some hot competition to offer, plus what I believe to be unrivaled opportunities in paleontological research for the investigators of high ethical and intellectual standards. Please give me your reaction as soon as you've thought things through carefully. I'd like to resolve this matter by the end of January.

Very truly yours,

Preston Cloud

Preston E. Cloud, Jr.
Chief, Paleontology and
Stratigraphy Branch

P.S. Of course once we request a transfer nothing will any longer be personal.

Attachment

Hunt Institute for Botanical Documentation

Lignite Research Laboratory
Grand Forks, North Dakota

14 December, 1953

Mr. Preston E. Cloud, Jr.
Chief, Paleontology and Stratigraphy Branch
U. S. G. S.
338 National Museum
Washington 25, D. C.

Dear Mr. Cloud:

The two notes of December 10 from Mrs. Pons have come, and I am interested in the new developments. I am a little disappointed that the geologist rating could not be arranged, but it is understandable. The Bureau of Mines had similar difficulty two years ago with my appointment.

My enthusiasm for this transfer is somewhat dampened if the rating is to be GS-9. At least at the moment, it seems to me that I should not leave here for another job at the same rating I got as a graduate student from the Bureau. I have reasonable expectation of being advanced here on the basis of good research results. You will perhaps understand that the prospect of moving from a small town to a city, where I'd have the same rate of pay, is not especially attractive. ~~You will perhaps have noted that~~ In the application I filed with Mrs. Pons the base pay for GS-11 is listed as the minimum acceptable salary.

From December 26-January 7 I plan to be out of town, en route to and from and in Boston--to give a paper at the palynological conference (AAAS) and to get some reference work done at Harvard.

Yours sincerely,

Alfred Traverse

Hunt Institute for Botanical Documentation

IN REPLY REFER TO:

G-P&S-HP

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

December 10, 1953

PERSONAL

Mr. Alfred Traverse
Lignite Research Laboratory
Grand Forks, North Dakota

Dear Mr. Traverse:

We have just been informed by the Civil Service Board of Examiners that you do not qualify as a geologist. We are therefore endeavoring to secure your transfer as a botanist (paleobotanist), GS 9. We are trying to get selective certification.

Your letter of November 19 to Mr. Cloud is being held until his return to Washington the last of this month.

I will be absent on leave until New Years, but Mr. William A. Cobban is acting chief of the branch and will keep you informed of any new developments.

Sincerely yours,

H J. Pons

(Mrs.) H. J. Pons
Administrative Assistant

Hunt Institute for Botanical Documentation

IN REPLY REFER TO:

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

December 10, 1953

Mr. Alfred Traverse
Lignite Research Laboratory
Grand Forks, North Dakota

Dear Mr. Traverse:

I wrote you one letter today, and then obtained additional information.

It now appears that it will be possible to transfer you to the Survey as a botanist (paleobotanist) GS 9, without obtaining selective certification. This, however, is not definite until our personnel action requesting your transfer is acted upon by our personnel office. Also approval by the Secretary of the Interior also is required.

Undoubtedly our personnel office will contact the personnel office of the Bureau of Mines, so I thought I should forewarn you in case you have not notified your office of the possibility of your transfer to the Survey.

Sincerely yours,

H J Pons

(Mrs.) H. J. Pons
Administrative Assistant

Hunt Institute for Botanical Documentation

Lignite Research Laboratory
Grand Forks, North Dakota

19 November, 1953

Mr. Preston E. Cloud, Jr.
Chief, Paleontology and Stratigraphy Branch
U. S. Geological Survey
Washington, D.C.

Dear Mr. Cloud:

According to what Elso Barghoorn tells me re your whereabouts, you aren't likely to receive this promptly, but I think it would be good for me to write you anyway, while your interesting phone call of two weeks ago is fresh in my mind.

Mrs. Pons sent me the forms, which are now filled out and on their way to her by registered mail. I included a rather lengthy explanatory letter which you will perhaps see eventually. In it I explained that although only 20 semester hours of formal geology appear on my record, I have geological experience and publications that perhaps can be used in lieu of formal course work to have me classified as a geologist. It might also conceivably help that I have an appointment as assistant professor of geology here at U.N.D. (no salary or stated duties--I give occasional lectures on paleobotany and coal petrography and, if I were to stay here, would doubtless have graduate students. The University [illegible] very friendly and cooperative.)

A few sentences about my setup here, in addition to the bare facts I gave in Form 57, would probably help you understand my feelings on certain aspects of the proposed switch of jobs.

The Bureau hired me in the spring of '51, while I was still a graduate student, and I began work at Pittsburgh in July, '51. I stayed there three months, for orientation and training, then came here. This laboratory was then new (dedicated Sept., '51). I was assigned two rooms, an office and adjoining laboratory and a beautifully equipped adjoining darkroom which I share with the draftsman. I have had an absolutely free hand on purchase of equipment and I would say that only Jim Schopf's Columbus setup is even in the same class, as a well equipped paleobotanical laboratory. Including the darkroom equipment, I estimate that have bought close to $15,000 in instruments, etc. The idea was and is that eventually there would be several assistants, and we

Hunt Institute for Botanical Documentation

would be working on the Fort Union coals on a rather handsome scale. So far I have only one helper--a physical science aid for a little better than half-time. (I have what amounts to unlimited stenographic help.) I have had a similar free hand in the matter of books and journals, and we now have a very nice working library. The authorities have been very generous with me about attendance at meetings and about other trips (such as the recent one to Cambridge) that I believe to be necessary to further my research projects here.

It is understandable (I think) that I feel certain moral twinges about leaving here, despite the fact that I do not feel that I have a long-range professional future in this laboratory and that the situation in Denver (and especially working for the Survey) is basically more attractive to me. I would insist that the people here be given the understanding that I shall be freely available for consultation work to get my successor off to a good start when he is hired. I feel a moral obligation to do all I can to smooth out the transition. The Bureau can scarcely be blamed if I decide that there are greener pastures elsewhere. They have done everything they could to make this an interesting job for me, and I really appreciate it.

Could a trip to the Denver laboratory be arranged for me, by requesting the Bureau that I inspect the proposed laboratory as an expert consultant, or something of the sort? I'd like to get a good idea of the exact physical setup.

Work on the Brandon monograph is progressing well--I went to Cambridge to work on certain phases of it. But Elso feels quite strongly that I ought to follow through and submit it to the GSA to avoid possible displeasure in some circles. However, he concedes that if submission of the manuscript to you will make the difference between my getting the Denver post or not getting it, I should give it to you. What do you think?

Sincerely,

Alfred Traverse

Hunt Institute for Botanical Documentation

IN REPLY REFER TO:

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

338 National Museum
November 5, 1953.

Mr. Alfred Traverse
Bureau of Mines, Region V
Box LL, University Station,
Grand Forks, North Dakota

Dear Mr. Traverse:

Mr. Cloud has asked me to send you the necessary forms to apply for the unassembled examination of botanist (paleobotanist) or geologist, whichever you qualify for. Could you furnish us with a list of your completed college subjects? Please return all the enclosed to me and we will submit them to the proper personnel people.

Sincerely yours,

H J Pons

(Mrs.) H. J. Pons
Administrative Assistant
Branch of Paleontology and
Stratigraphy

Hunt Institute for Botanical Documentation

Lignite Research Laboratory
Grand Forks, North Dakota

19 November, 1953

Mrs. H. J. Pons
Administrative Assistant
Branch of Paleontology and Stratigraphy
338 National Museum
Washington 25, D.C.

Dear Mrs. Pons:

Enclosed are the completed forms. Several additional comments are necessary:

1. The spaces for title of examination on Form 57 and Form 5001-A have been left blank because I felt you could more accurately supply that information.

2. In place of the list of college subjects you requested I enclose a transcript of my Harvard record. However, it is very important that three points be made about this:

   a. I did a year of course work at Cambridge University, England. I was allowed a full year's credit toward my Ph.D. at Harvard for this, but the courses do not appear on the transcript from Harvard. They were: Paleobotany
      Tutorial in paleobotany
      Plant morphology and anatomy
      Plant taxonomy
      Plant genetics
      Plant ecology

   b. Geography is in my undergraduate program could perhaps be allowed as geology.

Hunt Institute for Botanical Documentation

Geography 4a in my graduate program was a course in geom[illegible]logy with Kirk Bryan--a geological course called Geography only because of Harvard tradition. It is now called Geology 131.

Biology 20 in my graduate program was research in paleobotany. This can now be called Geology 357 and is surely allowable as geology.

("Laboratory privileges" for 1948-51 was for research in paleobotany and could perhaps be allowed for some semester hour credit.)

Counting Geology 1a and Paleontology 23 this gives a total of semester hours of 20, exclusive of "laboratory privileges".

c. My work for the Bureau of Mines has been rather strictly geological--petrography and paleobotany. For example, I have an article in the course of preparation, "Lignite--Occurrence and Properties", which is principally a geological review.

Another fact that is not especially important but might be helpful in getting this straightened out: I have an appointment as Assistant Research Professor of Geology at the University of North Dakota.

I should think that research experience and publications could be substituted for formal course work. I should slightly prefer to be rated geologist if it can be arranged, but the title is not a matter of grave concern to me.

Would you make any further correspondence about this "personal"?

Thank you for your help.

Sincerely yours,

Alfred Traverse

Hunt Institute for Botanical Documentation

IN REPLY REFER TO:
G-P&S-PEC

RECEIVED
OCT 21953
U. S. Bureau of Mines
Grand Forks, North Dakota

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

338 U. S. National Museum

September 30, 1953

Mr. Alfred Traverse
Bureau of Mines
Box LL, University Station
Grand Forks, North Dakota

Dear Mr. Traverse:

If you will submit your Brandon lignite paper to me, prepared in the style specified for USGS manuscripts (see enclosed tract), I will review it or have it reviewed. If it lives up to the fine words that have been spoken of it by Elso Barghoorn and Serge Mamay, I will then either transmit it for formal review with a recommendation that it be published as a professional paper of the Geological Survey, or will return it to you with suggestions for putting it into better shape for formal transmittal.

The subject of your report is very much within the Survey's field of interest and it would be appropriate for us to publish such a paper provided it meets our standards. I would suggest that, in addition to putting it in the form suggested for Survey publications, you review your illustrations for propriety and pertinence and go over your manuscript carefully with a view to deleting the excess words and sections that sometimes creep into Ph. D. theses.

Hoping this answers your questions and looking forward to seeing your manuscript and illustrations.

Yours sincerely,

Preston E. Cloud

Preston E. Cloud, Jr.
Chief, Paleontology and
Stratigraphy Branch

Enclosure

Hunt Institute for Botanical Documentation

Box LL, University Station
Grand Forks, North Dakota

September 24, 1953

Dr. Preston E. Cloud, Jr.
Chief, Paleontology & Stratigraphy Branch
U. S. Geological Survey
Washington 25, D. C.

Dear Dr. Cloud:

Is there any chance that the Geological Survey would be willing and able to publish (as a Professional Paper?) my monograph on the pollen and spores of the Brandon lignite, based primarily on my Ph. D. thesis? I chatted with Serge Mamay at the recent A.I.B.S. meetings about this and showed him the thing. He agreed with me that it ought to be published and suggested that I might explore the subject with you. I have had some dealings with the G.S.A. about publication of this in the Memoirs, but my impression is that they are not too friendly to the idea, perhaps because palynology is not as yet an established branch of paleontology in this country.

I do not expect, of course, any sort of commitment. What I want to know is whether the Survey would undertake such a publication for someone outside the Survey (though in the Department of the Interior) and, if so, what I should do to get the ball rolling.

Yours very truly,

RT

Alfred Traverse
Coal Technologist

ATraversd:dok

cc: Reg. V.
Lanford
Traverse
File 625.1
C file

Hunt Institute for Botanical Documentation

IN REPLY REFER TO:

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

January 4, 1952

Mr. Alfred Traverse
U. S. Bureau of Mines
Box LL, University Station
Grand Forks, North Dakota

Through: E. S. Larsen, III
Geologic Div., USGS

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Dear Mr. Traverse:

Thanks very much for your letter of December 27 concerning the work on pollen and spores which we desire to initiate on the Geological Survey.

Briefly, what we have in mind is an intensive program of research and service work on pollen and spores of all ages, but with decreasing emphasis from the Pleistocene back. I hope to have laboratory and office facilities for this work, either at Clarendon, Virginia, or Denver, Colorado, adapted to recommendations made by Elso Barghoorn and ready for occupancy within the next couple of years. Meanwhile if we can find the right man and the money at the same time, I would like to bring such a man to the staff to get started as best he could with facilities available and help in the final planning of the contemplated installations.

I note the complications that are involved through your association with the Bureau of Mines. They involve matters of ethics, both at the operating and administrative levels. You have been very highly recommended to me by several people, and I am much pleased to know of your possible availability for the position at a later date. In the meanwhile, there are other candidates for the job and questions of financing and timing that complicate matters to some extent here. I will be interested in hearing more about your work as it goes along and in having separates of your papers. I will make a point to advise you, either if the job is filled by another candidate or of our desire to secure your services at such time as other factors may be propitious. I understand that you would not in any event feel justified in leaving your present position before the fall of 1952.

Thank you again for your courtesy in getting in touch with me about this position at the suggestion of Dr. Spackman, and for your interest in Geological Survey work.

Yours most sincerely,

P. E. Cloud Jr.

P. E. Cloud, Jr.
Chief, Paleontology
and Stratigraphy Branch

Hunt Institute for Botanical Documentation

Box LL, University Station
Grand Forks, North Dakota

27 December, 1951

Dr. Preston Cloud, Chief
Paleontology and Stratigraphy Branch
U. S. Geological Survey
Washington 25, D. C.

Dear Dr. Cloud:

Several weeks ago a letter from Dr. William Spackman of Penn. State arrived, telling me of an opening with your outfit, to do research in spores and pollen. I was at the time snowed under with the problems of getting settled here, having just arrived in Grand Forks, and this is my first opportunity to write you. The job seems a natural for me, being probably the only man in the country with a new Ph. D. who is trained in the field. I certainly wish I had known last spring that this job was available.

I am primarily a paleobotanist, and my chief interest is with the angiosperms and, hence, with Mesozoic and Tertiary microfossils. While my background is broad enough that I think I can do a good job with the Bureau of Mines as a coal petrographer, it seems a pity that my talents and training in plant micropaleontology should lie fallow. I have developed some new techniques for preparing pollen and spores and studying them, have a large reference collection of extant pollen and spores and am very enthusiastic about the possibilities of the method. A preliminary paper on my work with the Brandon lignite will come out soon, and the thesis itself will be published when the customary overtures are complete. It has been read by several qualified people outside of Harvard, as A. O. Dahl and J. M. Schopf, and it has been well received.

Now, the complications are these: I have been through a four month training period with the Bureau and am busy now getting settled in this new laboratory and starting a program of research to tie in with their gas synthesis investigations here. I don't think I could possibly morally justify leaving here before next autumn, even though there is no doubt in my mind that the U. S. G. S. work would be much more attractive to me.

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With these reservations, I should like to hear more about the job, facilities available and so forth. Spackman suggested that I tell you something about my background. Briefly, I am 26, have S. B. (m.c.l.), A. M. and Ph. D. degrees, all from Harvard. I studied on a Henry Fellowship one year at Cambridge University, England, 1946-47. While a graduate student at Harvard I taught laboratory sections in general botany, plant morphology and anatomy, paleobotany, general zoology. I also was a freshman adviser and a proctor in Wigglesworth Hall. Besides the pollen work mentioned above, I have published a paper on the anatomy of a Pennsylvanian plant. Honorary societies: Phi Beta Kappa and Sigma Xi.

Yours sincerely,

Alfred Traverse

Hunt Institute for Botanical Documentation