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

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

THE PENNSYLVANIA STATE UNIVERSITY
INTER-OFFICE CORRESPONDENCE

Date: August 26, 1985
From: *AM*
Arnulf Muan
To: Alfred Traverse

Your request for assistance with the costs of moving Dr. George
Fournier's publications, slides and notes is approved. *AM*

AM:kb

1 August, 1985

Alfred Traverse, Professor of Palynology, 435 Deike, ~~A~~

~~Arnulf Muan, Acting Dean, College of Earth & Mineral Science, 116 Deike~~

see slides, samples, notes and publications of Dr. George Fournier,
late of Gulf Research, Houston

I spent Friday, 26 July, 1985, and part of Sunday, 28 July, going over the abovementioned materials, offered by Dr. Fournier's widow to the Penn State Palynological Labs. I determined that about 2/3 of the whole collection has value or potential value to our teaching and research.

There are 20 cartons (about the size of a case of beer each) of these materials. I investigated various possibilities for shipping and determined that UPS is best possibility--mostly because UPS will pick up, and it would be difficult for Mrs. Fournier to get the boxes to the post office.

Will the College cover the cost of shipping?

George R. Fournier, 1914-1984, in Memoriam

George Richard Fournier died in Houston, Texas, 18 December, 1984. George was a founding member of AASP in 1967, and served as Vice-President in 1969 and President in 1970. It was through AASP that I came to know George well, as he and I served together on the executive committee in various capacities during most of the Association's early years. I suppose George was the oldest of the founding members, but that never occurred to me at the time! He was always young at heart. I recall well that George was thinking and talking big about the organization when my concerns as Secretary-Treasurer of AASP were to balance the budget and somehow to reach the 200-member level. The man was really irrepressible, and his enthusiasms were catching, even when they at first seemed foolish or even ridiculous. He was also generous, and good, and forgiving in a way most of us could profit from emulating.

Once upon a time in Toronto, as chairman of a technical session, I had to cut off George's microphone because he was over time and paying absolutely no attention to warning lights, hand signals and little notes. Terminal facility was not always among George's strong points. For many people, that would have meant curtains for a friendship, but for George, the offense was soon forgiven and was never again mentioned to me. Only five years later George invested hundreds of hours in helping my family and me out of a potentially catastrophic situation in a manner I can never forget. He was a marvellous friend. It was also characteristic that he never mentioned his failing health and I did not know of it in time to visit him--he didn't want sympathy.

George was born in San Jose, Costa Rica, on 6 May, 1914. His father

was a biologist for the Costa Rican government, whose father in turn was a French composer-conductor who had come to Costa Rica to establish a national symphony. George's mother was a native-born Costa Rican with the splendid name, America. George earned a B.S. degree at the Liceo de Costa Rica in 1932, and became an accountant, earning his CPA rank from the University of Costa Rica in 1940. He was appointed vice-consul for Costa Rica in New York City in 1941 (an honorary post). George detested accounting, however, and decided to take advantage of the consulship to switch careers, by studying geology at NYU (B.A., 1947; M.A., 1950), specializing in micropaleontology. He supported himself during his studies by working as an X-ray technician in Paterson General Hospital (1942-1950). Through his hospital work he met a nurse, Ethel Nightingale, whom he married in 1944. (George always called her "Linda", more or less equivalent to "beautiful", or perhaps even "cutie-pie", in Spanish.) The Fourniers had two sons, George, Jr., a urologist, and Fredrick, a commercial pilot.

George's first job in geology was as a micropaleontologist for Mere Grande Oil Co. (a Gulf subsidiary), Caracas, Venezuela (1951-56), and his first publications were about photographic techniques for foraminifera. In 1956 he became a palynologist for Mere Grande, and he remained in that job until 1964, when he was transferred to Gulf Research and Development Co., Houston. There he remained until he retired in 1983. The Fourniers had bought a ranch in Flatonia, Texas, and George told me several times how much he enjoyed clearing the land, working on his tractor, raising brangus cattle. He hoped to switch soon to longhorns and to do palynological consulting-- in 1984. but his health quickly collapsed. His wife and his doctor son believe his bone marrow had been extensively damaged by his X-ray work in the 40s. If I know George, he would have quietly research^{ed} his disease, myelofibrosis, and

knew very well how sick he was, though he never acknowledged this to anybody.

George Fournier will probably not be remembered too much for his publications—they do not comprise a long list. Most of his work was proprietary and never released for publication. He did, however, do some very innovative work for Gulf--in the last few years computer-based correlation of Cenozoic basins, for example. He will be long remembered for his work with diverse groups of palynologists--for example, as a long-time (1967-1984) member of the steering committee for the "Kremp literature project", and in service jobs such as technical consultant for the United Nations in Ankara, Turkey, in 1978. George's assignment in Turkey was partly responsible for Volkan Ediger, then working for Turkish Petroleum Corporation, later coming to Penn State to study for a Ph.D. with me. George's forte in palynology was technique, all kinds of technique--from single-grain mounts to the computer, and he was well worth listening to in all areas of palyno-methodology.

George was an enthusiast--and it must have irked him no end that the rest of us were so restricted in our visions (more "practical", we call it). His idea of a "World List" for ICP was a good one, and he worked ^{hard} to practically no avail, on it. I do hope the new IFPS will act on his vision, and produce an updated "George's List" now that funds are available. His plea of nearly two decades ago for industrial encouragement of academic palynology, as essential for the future of the subject, was and is right on the mark, though some used to wink when George began talking on this subject. It is hard for me to acknowledge that George's cheerful, enthusiastic, friendly voice is no longer out there to give us all such good advice.

Alfred Traverse
Palynological Laboratories
Penn State University
Deike 435
University Park, PA 16802

Acknowledgment: Ethel N. Fournier helped me greatly by providing exact dates and other information.



George at the microscope, Gulf Research and Development Co.,
Houston, Texas, October, 1975



ca. 1970



ca. 1980

GEORGE R. FOURNIER
10003 VALLEY FORGE
HOUSTON, TEXAS 77042

April 22nd., 1981.

Dear Al:

Your letter of April 10 arrived here a couple of days ago. Needless to say that I really thank you for your comments and constructive criticism of the papers. It makes me very happy that you can use some of the material in your texbook. I consider myself honored to contribute in any way to your work.

Regarding the corrections I will call La Jolla to see how many "grem-lings" are still there and if they can be corrected. I do not like to publish. Fortunately I do not have to, in my work. Only when I can contribute to new ideas I make the extra effort.

Lets argue a little about p. 17 para 1: Your conclusions regarding the Black Sea I consider correct, but they may not apply to other parts of the world. In the tropics and everywhere else increased stream activity is due to increased rainfall. Rainfall washing the heavily forest covered tropical land carries with it large amounts of pollen and spores which will join eventually the excess mineral sediment produced by increased erosion. At the settling point there is sorting, the mineral fraction is dropped quickly first and the lighter organic debris is carried further and deposited with the clays in deltas and lagoons. The concentration of palynomorphs therefore depends on where you get your sample.

I agree that in areas with sparse vegetation, and in places which are not tropical areas, the mineral fraction carried by the streams during increased rainfall increase disproportionately relative to the amount of pollen and spore material in suspension.

There is another influential factor in the tropics: the great variety of plant species that all bloom at different times. Climatic changes do not impose a generalized seasonal blooming time as in temperate and cold latitudes, and where increased rainfall periods may not coincide with blooming seasons. In the tropical forest blooming and production of pollen and spores is a rather continuous phenomena. The increase of palynomorphs transported at one time, therefore, depends on the amount of rain water rather than on pollen and spore supply which remains more or less constant.

Off course, these are only my personal conclusions based on limited observations. They do not carry the weight of well documented research.

Bruce left Exxon to go on his own. Got together with a drilling company and sank two well in his Triassic. I saw beautiful paraffine oil that is supposed to come from those wells. Plugged them and moved to obtain more land. They are keeping it very quite. He may have something there;

Turkey and Australia next? Heavens, you certainly have the traveling itch. I dont blame you if I don't see you in New Orleans.

Give Betty my best and for you my best wishes for a happy vacation.

Sincerely,

George

REFERENCES

- Fournier, G. R., and Newman, R. C., 1964, The Use of the IBM Method in Sporopollen Analysis, Micropaleontology, vol. 10, no. 1, p. 111-118.
- Germeraad, J. H., Hopping, C. A., and Muller, Jr., 1968, Palynology of Tertiary Sediments from Tropical Areas, Review of Paleontology and Palynology, vol. 6, no. 3/4.
- Macko, Stefan, 1957, Lower Miocene Pollen Flora from the Valley of Klodnika Near Gliwice (Upper Silesia), Societe des Sciences et des Lettres de Wroclaw, Poland.

file as correspondence

Dr. George R. Fournier
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-782-

10003 Valley Forge
77042

23, 24, 25, 26, 27, 28, 29, 30, 32, 33, 34, 35, 36, 37

27 August, 1982

Dr. George R. Fournier
Eulf Research & Development Co.
P.O. Box 36506
Houston, TX 77036

Dear George:

Thank you so much for the supplementary information about the well on which Carmen and I have been working. I gather that we are right in concluding that it is in Falls County, but I don't find the exact geographic locality yet. It's good enough for the poster we have put up, however! I would think that when the manuscript is finally prepared and submitted to you for comment that that sort of thing could be provided, and I would suppose at that time that we would have to start the procedure for release of the information so that Carmen and I can publish a paper on this. What do you think? Should we perhaps initiate approval procedures right away to shorten the delay time?

All the best to you and Linda.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

21 May, 1982

Dr. George R. Fournier
Gulf Research & Development Co.
P.O. Box 36506
Houston, TX 77036

Dear George:

Do you still remember the Eagle Mills project you gave us? Carmen Tavera has now finished her Ph.D. thesis (fern spores), and I have been for about 6 weeks sitting down with her one afternoon a week and studying the slides, as I am determined to see this thing completed. Also, I have been studying the slides myself (about 20% done). One problem that Carmen had not recognized, or at least had not called to my attention, is that (based on the slides I have so far studied), the material is full of "contaminants"--i.e., much younger pollen, spores and dino-flagellates--I would say \pm Campanian-Eocene forms. Is that from the drilling mud picking up things from higher up the hole, or is it the mud-additive, or a mixture of both these things?

The study is going to be an interesting contribution, as the upper flora at least is considerably younger than the Chinle-Dockum we have so far studied.

All the best. Hope you're o.k.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

cc: Carmen Tavera

P.S. I am right in assuming samples are cuttings and that level nos. (e.g. 8400') refer to the level at which the cuttings were bagged?

15 February, 1982

Dr. George R. Fournier
Gulf Oil Tech. Services Ctr.
P.O. Box 36506
Houston, TX 77036

Dear George:

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 Gulf to help in some way with this problem. For example, could Gulf 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 Gulf 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 research 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

6 May, 1981

Dr. George R. Fournier
10003 Valley Forge
Houston, TX 77042 USA

Dear George:

Yours of 22 April came today. Maybe we should abandon the NASA program and work on the Post Office?

I enjoyed your comments and agree in part with your point re sedimentation. Higher rainfall will probably increase the amount of pollen in sediment as well as the amount of mineral sediment. To the extent that there is extensive sorting, there could then be either increased or decreased ppg of sediment. However, the average situation, I am still convinced, is for increased rainfall to result in dilution of the pollen/spores. This is based also on (unpublished) data from studies I did on the Trinity River years ago. The tropical situation you mention is, however, very interesting and worth meditation.

That is startling info re B.C. I recall from PSU days that he had an insatiable urge to be rich.

Vacation? I have seldom worked so hard! Just got back from Turkey. I gave lectures at Izmir and Ankara. V. Ediger did a simultaneous and apparently very good translation into Turkish. He is a lieutenant in the army because of the current military government and looks very smart in his uniform. We did have a couple of days of pure tourism--for example, in Ephesus--wow! (By the way, I have no "travelling itch"--I hate the actual travelling, especially air travel.)

All the best.

Yours very truly,

Alfred Traverse
Visiting Professor

AT/et

10 April, 1981

Dr. George R. Fournier
10003 Valley Forge
Houston, TX 77042 USA

Dear George:

Yours of 26 February arrived here about mid-March (!). It was very welcome and interesting. As I may have mentioned, I am writing a textbook for palynology, mostly based on my three palynology courses, and I will certainly be able to use much from your two papers, which I guess I can quote as 'in press'? It was very kind of you to share these MSS with me! I now am working on and off on my talk for Australia in August on the Neogene, so can use any help! I did find a couple of "gremlins" that your editors may have missed--perhaps it's not too late?

p. 8, S.M. (Short MS!), para. 2, l. 5: Gramineae is misspelled, and does not include sedges (which are Cyperaceae) do, para. 1, l. 2: Engelhardia (shouldn't have a 'T', though most people use one) is a member of Juglandaceae, but not of Juglans.

p. 11, S.M., para. 2, l. 2: Distinguished

p. 13, S.M., para. 1, ll. 9-11: the family name is Sapotaceae. This and other family names should not be underlined (a convention I can't explain, as it is also Latin, and generic-specific-infra-specific names are underlined (or italicized). You handled family names correctly in this respect on p. 8 (Compositae, Gramineae).

p. 16, S.M., para. 3, l. 3: same comments re Sapotaceae

p. 17, S.M., para. 2, l. 2: Sapotaceae spelled right, but shouldn't be underlined.

A conceptual matter I would argue with: p. 17, para. 1 (and elsewhere). My experience in the Black Sea is that increase in stream activity produces more mineral sediment, hence decreases pollen/spores concentration (cf. my paper in AAPG Mem. 20, 1974, pp. 381 ff.)

p. 3, L.M., para. 2: I guess Cenomanian is technically "Late Cretaceous", but I wish we could say "Mid-Cretaceous"! The phenomenon described is certainly mid-Cretaceous!

Well, gee, you can see what stimulation the papers gave me!

A colleague at Penn State is getting up a neat geological project in Costa Rica. I am hinting broadly that palynology would help!

Fournier, pg. 2

You will be interested to learn that Betty and I go to Turkey in about two weeks. We are paying the transportation personally, but I am expected to lecture at Izmir and Ankara. Still, it'll be fun, and Volkan (who is in the army at the moment) has a leave and a vehicle to drive us. I recall that Turkey is not way up on your vacation-spot list! What do you think of Benda's palynological zonation of the Turkish Neogene? (Newsl. Stratigraphy 8:61, 1979; Ann. Geol. Pays Hellen. 1 (7th Congr. Medit. Neogene) 1:61-70, 1979).

Carmen Tavera is, thank God, finishing her Ph.D. thesis (fern spores) and has promised to work up your Triassic materials with me during the coming year.

I wonder what ol' Bruce is up to. I never hear. His former wife is planning remarriage.

All the best, old friend. I don't know about New Orleans--I have never missed an AASP session, but I believe I'll be nearing travel fatigue about then!

Yours very truly,

Alfred Traverse
Visiting Professor

AT/et

GEORGE R. FOURNIER
10003 VALLEY FORGE
HOUSTON, TEXAS 77042

February 26, 1981.

Prof. Alfred Traverse
ETH - Zurich
Geologisches Institut
Zurich.

Dear Al:

Thanks for your letter of February 9th., and glad to know that you are well.

Sorry to learn that you are holding the Neogene lion by the tail. I know what that is but I am sure, knowing you, that it will not shake you loose.

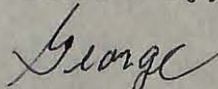
Maybe I can help you a little holding on to the beast with a couple of reports that I am including herewith. The long one is the talk that I gave in India a few years ago. No publication yet of the Lucknow papers. The shorter report is a study that I was asked to do for Leg 66 of the Glomar Challenger. It will appear in the DSDP reports soon. I will send you a separata with the illustrations of the morphotypes as soon as I get the copies.

The principles and techniques described I have used successfully for the last 20 years all over the world in the analysis of the Tertiary. They may conflict with Academia in certain aspects, a fact that is up to you to judge. It will not bother me. Hope I will not give you a bellyache instead of a helping hand.

Herb Stradner from Viena worked with me on the DSDP project and called my methods "esoteric and worthwhile to learn". Sent Dr. Ilse Draxler, one of his palynologists to me. The lady spent two months with me learning the system.

Hope you do not freeze in Zurich. Will see you in New Orleans in October, I hope.

Yours truly,



George Fournier
Senior Technical Associate.

gf.

9 February, 1981

Dr. George R. Fournier
Gulf Research & Development Co.
Houston Technical Services Center
P.O. Box 36506
Houston, TX 77036 USA

Dear George:

Greetings from Switzerland!

One of the Questionnaires was forwarded to me here--I can't recall whether I did this long ago--probably. But just in case, here you are!

All goes well here, but it's hellishly hard work--I'm giving a course and working like the devil on my German. The course is on Neogene palynology, and is 90% new to me--like having the proverbial bear by the tail.

All the best.

Yours very truly,

Alfred Traverse
Visiting Professor

AT/et
encl

WORLD LIST OF PALYNOLOGISTS

Largely through the efforts of George Fournier, the new Associate Secretary of ICP, the *World List of Palynologists*, containing the names and addresses of over 3000 palynologists from 75 countries, has now been computerized. Gulf Oil Company is underwriting the cost of this endeavor and has generously given ICP carte blanche to utilize this computerized information.

In order to accumulate additional information for the use of ICP-affiliated societies, each palynologist is requested to complete and return the following questionnaire.

EDITORS : R. Jan du Chêne, C. Caratini

TYPING : ESSO-E.P.R.E.

B.N.O.C. (British National Oil Co., Glasgow) - Thanks to M. Fisher for his help.

PAGE SETTING : J.P. Vidal, M. Seurin, C. Tissot.

ILLUSTRATIONS, PRINTING : CEGET-CNRS

Among the publications of CEGET-CNRS, some are dealing with palynology (see p. 11).

WORLD LIST QUESTIONNAIRE

(Please type or print legibly all information)

Preferred Title (circle): Prof., Dr., Mr., Mrs., Miss, Ms.

Name: Alfred Traverse

Address: 435 Deike Bldg.
University Park, PA

Postal Code: 16802 Country: USA

Telephone: 814-865-2342

Employer: Department of Geosciences, The Pennsylvania State Univ.

Palynological Society Membership(s): Amer. Assoc. Strat. Palynol. ; Int. Herp. Biol. Assoc. ; Paleontological Society ; SEPAC

Research Interests (Indicate specific applications, including kinds of organisms, geologic age and geographical areas, where pertinent):

Bibliography As it relates to taxonomy of spores/pollen

Palynomorph Morphology _____

Microplankton _____

Aeropalynology As it affects pollen rain in a sedimentary sense

Mellitopalynology _____

Stratigraphic Paleopalynology Triassic - Jurassic ; Cretaceous - Paleogene.

Paleoecology _____

Pollen Analysis Neogene of Black Sea area

Technology Research project on mounting media

Other Taxonomy & nomenclature & study of early Silurian

Mail to: George R. Fournier
Gulf Research & Development Co.
Houston Technical Services Center
P.O. Box 36506
Houston, Texas 77036, U.S.A.

land-plant spores and spore-like things.

April 16, 1980
GEORGE R. FOURNIER
10003 VALLEY FORGE
HOUSTON, TEXAS 77042

TO WHOM IT MAY CONCERN:

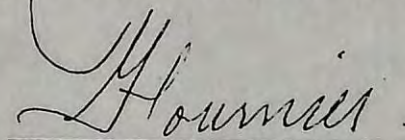
In 1977, Dr. Alfred Traverse asked my advice on what to do with a house he owned at 1428 Adkins in the Spring Branch section of Houston. The dwelling was built on top of a fault, little known at the time of construction, and not known by Dr. Traverse when he bought it.

In recent years, this fault and many others in the metropolitan area of Houston, has been studied and named Long Point Fault by the U. S. Geological Survey in its publication "Faults, Houston Metropolitan Area, Texas, Map MF-1136, Miscellaneous Field Studies". A copy of the sections of the map that includes the Long Point Fault and the location of 1428 Adkins is included with this letter (Plate 1).

At the time Dr. Traverse asked my advice of what to do with the house, I inspected it and noticed that because of recent movements of the fault, the southern section of the house, situated in the downthrown block of this normal fault, had been displaced about 10 centimeters. Plate 2 shows the strike of the fault plane along the house. The consequent ~~change~~ damage was extensive: concrete platform cracked and displaced, walls and ceiling cracked, doors inoperable, etc.

Consultation with a professional firm indicated that the house could be leveled and special jacks installed to correct any further movements of the fault. The job included a ten-year guarantee. I advised Dr. Traverse to spend the money to fix the house and he did. Part of the work that included painting, door-fixing, etc., I did myself. New carpeting and new curtains were also installed.

After the house was repaired, it was given to the firm of Jim West & Company, Realtors, for sale. All the documents from the firm that repaired the foundation, including the ten-year guarantee, were given to Jim West. The house was sold. The conditions of the transaction are unknown to me. Later I learned that the new owner had sued Jim West for the return of the price of the house and won. Apparently, the buyer was not informed of the situation at the time of the purchase. Jim West took the house back. I went by the house and ^{took} the photographs included herewith to illustrate the displacement of the fault (+3') and it did not seem to be occupied.


Dr. George R. Fournier
Research Geologist
Member-AAPG

GRF/gs

Enclosures

(Manager, Traverse
property in Houston,
1976-78)

30 January, 1979

Dr. George Fournier
Gulf Research & Development Co.
P. O. Box 36506
Houston, TX 77036

Dear George:

Just sort of a progress report on Carmen Tavera's work on your Triassic materials from Texas. Carmen really has been making good progress within the scope of her other obligations and requirements. Geoff Norris was here to give our annual visitor's lecture for my palynology class last week, and he spent a good deal of time with Carmen looking at the dinoflagellates she has from those materials-- they are really interesting. Probably they are among the best dinoflagellate occurrences ever reported from the Triassic. I have just this morning been sitting down with Carmen giving her some advice about how to organize the information. There is so much to it it really could have been a Ph. D. thesis, I think, but in any case I wanted you to know she is pushing along. Just be patient for a while longer. Best wishes to you as always, old friend.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

9 August, 1978

Dr. George R. Fournier
Gulf Research & Development Co.
P. O. Box 36506
Houston, TX 77036

Dear George:

Thanks for your nice letter of 14 July, which came during a vacation trip Betty and I took to the Gaspe (the source of the enclosed clipping).

Last things first--thanks again for "the skin of your teeth"! The letter we received, of which you got a copy, disturbed Betty and me considerably. I hope you are right "not to worry".

Re the Bagle Mills, etc., materials--that is very useful stuff. Your comments were a little cryptic--for example, you note that the Geological Highway Map of Texas (1972) drops "Dockum", even as a group name. Are you privy to info as to why? Some of the xeroxes you sent me are not completely identified as to source, in case we want to acquire or look at the whole publication, viz.:

1. The 1972 Geological Highway Map--where is this available?--Dallas Geological Society? (address?).
2. Two of the xeroxed items are labelled "1972" and would appear to be another section of the same Geological Highway Map, and yet include "Dockum" for a formation for North Central Texas and for a group for the high plains and also (on a separate sheet) for West Texas--is that from another map?
3. What is the complete reference to Scott, et al.? Perhaps a xerox of the title page to go with the rest of the paper would be possible. I would appreciate that.

Your letter will be shared with Carmen tomorrow when she comes in, as a way of prodding her along. She has done a lot of work, but--heavens!--things go slowly in Central PA. It's always manana. I'll be in touch about the project.

I do want to go to Tempe for many reasons, but I am down to absolutely zero travel money. So, if I go, it comes out of my own, not very full pocket! I am not sure it'll be possible.

Last week in Toronto Jack McAndrews took Geoff Norris and me to lunch in a very fancy restaurant that occupies the very room where AASP met in 1970! It aroused old, not all pleasant memories. Best wishes.

Yours very truly,

Alfred Traverse, Professor of Palynology
Herbarium, University of Toronto

27 June, 1978

Dr. George R. Fournier
Gulf Research & Development Co.
P.O. Box 36506
Houston, TX 77036

Dear George:

I recently had a visit here with Sid Ash, who was on his way to the AIBS meetings at Virginia Tech. He and Carmen Tavera (the gal who has been working on the Snider material of yours) and I had a talk about her progress because it ties in with the possibility that she might be able to do a doctor's thesis on the problem of the Jurassic-Triassic boundary, linking palynology with Ash's megafossil work.

In the course of the discussions Sid inquired why the terms "Eagles Mills Formation" and "Smackover Formation", both coastal terms, were used instead of conventional Dockum terminology. I was not able to answer that question, and wonder if you could give me a hand. When Carmen comes to writing this stuff up in the fairly near future, that would also be interesting information. The fact that the material comes from in between the Gulf Coast and the Dockum outcrop areas that we have studied certainly does make the whole thing even more interesting than it would otherwise be. I know this must have seemed an endless project--it has to me--but I really think Carmen is going to pull it together one of these days. I only wish I could find more ways of persuading her to do her doctor's degree in paleopalynology instead of on extant fern spores, the project she currently has underway in the Biology Department here.

Best wishes to you, old friend. What did you think of that letter I sent you about another, non-professional connection we have?

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

4 January, 1978

Dr. George Fournier
Türkiye Petrolleri Anonim Ortakligi
Mudafaa Caddesi No. 22
Arastirma Merkezi, Palinologi Lab.
Bakanliklar, Ankara, Turkey

Dear George:

Thank you so much for your nice letter from Ankara dated 9 December. I greatly enjoyed my brief time in Istanbul and consequently think of Turkey as a really fun place. I expect when one is working there professionally, it is not quite the same.

I am happy to hear that you are very pleased with the sharp young man working for you there. That certainly makes life easier! Regarding his plans for visiting the United States--I have to tell you that my course in palynology is given only once a year and that in the winter term--starts in November, ends in February. In the fall time (starts end of August, ends in November) I teach evolution, and work with advanced students in palynology on a personal basis. I would be glad to have him visit here, but I am not too sure how helpful it would be to him.

Now for the bad news--although your friend, Anne, seems to be working very hard on good old 1428 Adkins Rd., she still has no success to report. The house was in fact sold, as you know, a couple of months ago, but in the final analysis, it fell through as it has so many times before. She has now sold it yet again, and I am wondering what to expect this time. I really do think the place has a demon. I have tremendously appreciated your help with it, as has Betty, but I think you are probably much more sympathetic to the difficulties inherent in getting rid of it than you were before.

We both reciprocate your good wishes for 1978 and hope that perhaps you can visit us sometime in the not too distant future. Hang in there.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Ankara, December 11, 1977

Dear Al:

Sorry Xmas from Ankara. And I hope they are merry for you with respect to the house. I left it in good hands, as Anne will do the best possible for you. If she cannot sell it, she will rent it right away. I hope that by this time this business has had a happy ending. Let me know, as I worry sick about the whole thing.

In the next few weeks you will receive some kind of letter from the United Nations regarding Mr. Volkan Erdiger. He is the sharp, smart young paleontologist that I have under training to handle the Tertiary here. He is going to get a scholarship from the U. N. to come to the States for six months or so. He will come to Houston in the spring, spend some time with me, then with Bill Chik, and then perhaps some time with George Hart in Baton Rouge. If you think he could sit in your lectures for a while, at the end of his stay, probably when you start your year in the fall, it could be a wonderful experience for him. If you have any other suggestions let's hear them. - My work is ahead of schedule thanks to Volkan (he is a real nice volcano) and I am sure I'll finish it on schedule. Turkey is not so nice in winter. I am already anxious to go home. It is very cold and dirty here. Everything imported is taxed. Un abrazo para Betty y muchos recuerdos para ti de
L. Carol Fournier

27.3.77

Tomlinson

says Broadway
called Hughes all
sorts of names when
at school

president of

DCP

Hughes - suggested
English as site of
repto congress /

July 26, 1976

Dr. George R. Fournier
Gulf Oil Tech. Services Center
P.O. Box 35606
Houston, TX 77006

Dear George:

Just a quickie--is there any chance of a small amount of money to help pay for slides, vials, and other materials for Carmen's work? The only difficulty is that I don't seem to be able to find any other project which I can legitimately charge for her rather small needs. If Gulf could help us out with, say, \$100, it would be greatly appreciated. I know this must seem "chintzy" to you, but it is a fact of life around a university. Best wishes to you and Linda. Betty and I think constantly of the delightful week at the shore in your planee

Yours very truly,

Alfred Traverse
Professor of Palynology

AT:jb

April 6, 1976

Dr. George R. Fournier
Gulf Oil Techn Services Center
P.O. Box 36506,
Houston, TX 77036

Dear George:

Carmen and I are making good progress in the initial stage of looking at the residues which you sent. She and I have just gone over some of the slides this morning. I am rather distressed by the very tiny amount of material in some cases, and I do hope that there will prove to be some additional raw sample which we can process. In the meantime, we will do the best we can, and I will send you a list which Carmen will prepare of those samples for which we are in the worst shape. In the meantime, best wishes and so on to all of my friends at your end of the country. Let us know if you have any further thoughts and especially whether you have succeeded in turning up additional raw material.

Yours very truly,

Alfred Taverse
Professor of Palynology

AT:

cc: Carmen Tavera

Off. #

713-226-3796

October 13, 1975

Dr. George R. Fournier
Gulf. Research & Development Co.
P.O. Box 36506
Houston, TX 77036

Dear George;

Thanks for yours of 3-X. Glad to have various clarification. Will
call from airport! We are eagerly looking forward to trip. A church
in Galveston has already heard about it and demanded my services for
Sunday, 26 OCT.!

See you soon.

Best wishes.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT:jb

April 1, 1975

Dr. George R. Fournier
Gulf Oil Technical Services Center
P.O. Box 36506
Houston, Texas 77036

Dear George:

Several weeks ago I contacted Gerhard Kremp about whether his "banks" could assist us with our efforts to untangle the Thomson & Pflug mess--could he provide a printout of all German generic and specific names published between 1929 and 1953? He replied that he had no such capacity but that some of his patrons might. I tried first Ken Piel who sent a printout but noted it covers only a limited number of "documents" and suggests you might be able to do better. How about it?

All o.k. here except I have had a couple of weeks in a hospital and subsequent miseries from knee surgery and some attendant complications. Now on the mend. Am going to Black Sea in May with Glomar Challenge.

Best wishes.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/vsi
cc H.T. Ames

November 19, 1973

Dr. George R. Fournier
Gulf Oil Technical Services Co.
P.O. Box 36506
Houston, Texas 77036

Dear George:

At the meeting in Anaheim when you asked for a show of hands regarding a ladies program for Houston, you got a very negative response, but I know from listening to other people at the various tables behind you that this was mostly a result of the mood of the group and not a judgment on the value of such a program. I really hope you will go ahead with the idea.

By the way, how come Bernie Shaffer is no longer a member of AASP?

Yours very truly,

Alfred Traverse
Professor of Geology & Biology

AT/vsi

*P.S. - told N. that I
doubted informal
workshops would work.*

Estreek
November 7, 1973
Fidelity Onion Skin

Dr. George R. Fournier
Gulf Oil Technical Services Center
P.O. Box 36506
Houston, Texas 77036

Dear George:

The a box of card option of the Catalog, running to 8 volumes, I guess, was here when I returned from Anaheim. We have not yet ascertained to what extent they are complete, but if they are and are not too obviously worn, we will be able to use them to fill in some of the gaps in our stock. Unfortunately, however, most of the orders we now get are for the looseleaf bound volumes. Nevertheless, I greatly appreciate your and Gulf's generosity in sending us this material, and I trust that we can make good use of it.

Good to see you again in Anaheim. Best wishes.

Yours very truly,

Alfred Traverse
Professor of Geology & Biology

AT/vsi

October 3, 1973

Dr. George R. Fournier
Gulf Oil Technical Services Center
P.O. Box 36506
Houston, Texas 77036

Dear George:

Godd to hear from you on the phone the other day. I have spoken to the "Catalog lady" (Margy Whitting) about your subscription problem. As I understand it, you wanted copies of Volumes 31 through 36, Option A of the Catalog of Fossil Spores and Pollen (looseleaf cards), and a standing order for all future volumes in that option. Copies of Volumes 31-36 plus an invoice for same will be on the way to you shortly, and you can expect your subscription to be in order from now on.

Your offer of surplus copies of the Catalog is much appreciated and we can make good use of them to shore up our precarious financial position. It is for that reason that I would very much appreciate it if Gulf could see its way clear to make a gift of these volumes to CFSP.

Best wishes to you and your family. Looking forward to seeing you in Anaheim.

Yours very truly,

Alfred Traverse
Professor of Geology & Biology

AT/vsi
cc Mrs. Whitting

January 5, 1973

Dr. George R. Fournier
Gulf Oil Technical Services Center
P.O. Box 36506
Houston, Texas 77036

Dear George:

This is in confirmation of our phone call of the other day regarding the very serious problems which we face with the financing of the Catalog of Fossil Spores and Pollen. One problem we have with which I thought the oil companies might be willing to help us out with jointly is that we very badly need to expand our subscription list or at least acquire enough new library subscriptions to make up for the constant attrition in personal subscriptions which results from the continuing rise in costs. However, we have encountered a great deal of customer resistance from libraries because we cannot provide full sets of CFSP--who wants the Encyclopedia Britannica minus volumes A, C, D, F, I, Q, and XYZ? We are at present out of print for volumes 5, 6, 8, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, cumulative index no. 2 (Vols. 11-20), English Translation 1 & 2, being sixteen volumes in all. In addition, six other volumes are practically out of print and should be reprinted--making 22 volumes in all. The printing cost to reprint one volume is now about \$1200 (varies depending on how much remanufacture of plates is necessary). In addition, binders for 200 copies would be about \$400, and postage, shipping boxes, and miscellaneous costs will run about \$200 more, for a total of \$1800 per volume. To reprint all volumes so that we could be on a sound basis for subscription sales would require capital to the tune of $22 \times \$1800 = \$36,000$, say \$40,000 to allow for possible increase in prices lately. Naturally, a much more detailed proposal could be prepared if desirable. What do you think? Any chance of such a proposal being favorably considered by a group of the companies? Six companies at \$6,500 each?

Dr. George R. Fournier

-2-

January 5, 1973

Looking forward to hearing from you and with best wishes as
always, I am

Yours very truly,

Alfred Traverse
Professor of Geology & Biology

AT/vsi

November 18, 1971

Dr. George R. Fournier
Gulf Oil Technical Services Center
P.O. Box 36506
Houston, Texas 77006

Dear George:

Thank you so much for the package of "Quaternary O", which arrived in perfect order the other day. In the package were instructions for how to prepare the solution. I wonder if you could aid my defective memory by sending me either a literature reference or your own schedule for the use of the stuff so that I will be sure to give it a fair trial? It was good to see you again in Tucson but a disappointment that you were not able to come on the field trip so that there would have been a real chance for a visit. I am beginning to come to the conclusion that that is the main function of those field trips!

Best wishes to you and your family from Betty and me for a happy Thanksgiving and the rest of the holiday season.

Yours very truly,

Alfred Traverse
Professor of Geology & Biology

AT/vsi

P.S. By the way, I wonder when you answer my letter if you could let me know something in a gross sort of way about the chemistry of "Quaternary O"? When I mention it in palynology class I think it would be better if I could say something about what the stuff is.

November 11th, 1971

George R. Fournier
Gulf Oil Technical Services Centre
3820 Buffalo Speedway
Houston, Texas 77006

Dear George,

At the Executive Committee meeting in Tucson last month we reviewed the functions of the various committees. Thanks to the efforts of you and your Long Range Planning Committee we are now "over the hump" with regard to future sites for the Annual Meetings. Plans are in hand for meetings up to and including 1975 as follows:

- 1972 - Rhode Island
- 1973 - Southern California (Anaheim)
- 1974 - Boulder or Calgary
- 1975 - Boulder or Calgary

Several others are also interested in attracting AASP to their respective centres.

Now that the question of future sites is less urgent, the function of the Long Range Planning Committee can be carried out effectively by the Executive Committee. Consequently, the Long Range Planning Committee has been dissolved. I am sure that I am speaking for all the membership in thanking you for the excellent job you and your committee have done over the last few years in seeking out good sites for our meetings which have been such a successful feature of AASP.

With best personal regards,
Yours sincerely,

Geoffrey Norris
(President, AASP)

GN:rk

cc: Al Traverse
Charlie Upshaw
Bob Clarke

Fournier

5-14-69

Says he agrees to putting the
surplus papers on for
Tuesday night; viz.

Diels

Oltz

Kremp

Brenner

October 8, 1970

Dr. George R. Fournier
Gulf Technical Services Center
3820 Buffalo Speedway
Houston, Texas 77006

Dear George:

As you have doubtless heard, the section of the NSF which was funding our Palynological Data Project here has not had success in its efforts to hold the line on its budget, and we are one of the casualties. Dr. Cima, who has been our contact at NSF, tells me that they might be able to obtain some "outside funds" to keep the project alive on a "skeleton crew" basis, though the amount of money involved will be just enough for me to have a couple of abstractors. I know you looked into our project at one time a year ago or so and that you were of the opinion that our approach was worth encouraging for the good of the "palynological community". If you still feel so, it would be most useful if you could write a letter to Dr. Cima stressing the value of keeping our project alive so that it could be refunded when and if a better day comes. At the moment we have given termination notices to the entire crew, and there is no way that we can save Dr. Sanders' job, but I think in order not to have lost what has been accomplished in these two years we should keep enough people going in this project that the traces could be picked up again in a year or so. If you are willing to write such a letter the address would be:

Dr. Louis Cima
Office of Science Information Service
National Science Foundation
Washington, D. C. 20550

Looking forward to seeing you in Toronto, I am

Yours very truly,

Alfred Traverse
Professor of Geology and Biology

AT/mrw

September 11, 1970

Dr. George R. Fournier
Gulf Technical Services Center
3820 Buffalo Speedway
Houston, Texas 77006

Dear George:

In going through my correspondence which has accumulated during the summer, I'm embarrassed to find yours of 25 June regarding the copy of correspondence from Gerhard Kremp, which you were so kind as to share with me. It sounds as if Gerhard has really been doing some fast talking abroad, but I must say I remain to be convinced that the blocks of information he is sure he will get from various countries will really be compatible with each other. I hope ~~his~~ will, but it seems to me not entirely certain. I can see no objection to his presenting the ideas at the convention in Toronto, and I guess my failure to respond to your letter has not really made much difference. I am embarrassed that I haven't written you, especially since I so much appreciate hearing what GOWK was accomplishing abroad! I hope there will be an opportunity for various of us who are interested in this subject to do some talking about it in Toronto.

Looking forward to seeing you there and again thanking you for sending me the copy of the Kremp letter, I am

Yours very truly,

Alfred Traverse
Professor of Geology & Biology

AT:kc

September 10, 1970

Dear Al:

A quick one to thank you for your letter. We do not intend to solve all the problems in our field with what we are doing. The system, as you can see, is only intended as a key to the literature. Perhaps you are not aware, but a simple step in this would be a great help to us. We need help and we need it now. Even our unsophisticated project is going into the third year, working hard, and we still don't see the end. I don't think any one of us knows the real magnitude of the problem.

P.S.

By all means include me in Bob's demerolization.

Will see you in Toronto.

George Fournier

September 2, 1970

Dr. George R. Fournier
Gulf Technical Services Center
3820 Buffalo Speedway
Houston, Texas 77006

Dear George:

Thank you very much for your letter of 20 August, which was awaiting my return from a recent trip (to the paleobotanical meetings at Bloomington, among other things). We appreciate your courtesy in letting us see a typical example of your product. Your system seems to work quite well, although we are puzzled by certain aspects of it, especially how the latitude and longitude coordinates work in practice. I still think that unless morphology ("form") is included, the various systems will be of relatively little utility in the long run. Thanks again for letting us share information about your progress.

Bob Sanders is planning a demonstration of our system and developing data-bank, probably to be held in connection with the next meeting of the Kremp committee in November, as well as probably another separate demonstration to be held in Washington somewhat earlier.

Looking forward to seeing you in Toronto, I am

Yours very truly,

Alfred Traverse
Professor of Geology & Biology

AT;kc

cc: Dr. Sanders

Gulf Research & Development Company

HOUSTON TECHNICAL SERVICES CENTER

3820 Buffalo Speedway
Houston, Texas 77006

August 20, 1970

Reference: 4431AN32

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

Dear Colleague:

A few weeks ago I sent you Phase I of our "Palynological Information Retrieval System" as it was being developed at Gulf Research & Development Company.

In order to show you what we at Gulf have done with the data delivered by Dr. Kremp, I am very glad to send you today the output of the complete program that we call Phase II. The data will be stored on discs in order to use a pre-selected subroutine for rapid retrieval. Minimum requirements are the IBM System 360/85, 55 bytes of storage required. The twelve options for searching we believe will take care of all the needs for literature information of any interprising palynologist.

Sincerely,

G. R. Fournier
G. R. Fournier

Attachment-1



A SUBSIDIARY OF GULF OIL CORPORATION

PROGRAM DESCRIPTION

The program searches through a file of palynology data records stored on a magnetic tape and selects pertinent information according to the user's specifications. By utilizing a series of control cards (a minimum of three and a maximum of seven), several options for data retrieval are available. A search may be made for all the documents written by a particular author or for all data concerned with a given geological age range, geographic area, genus, or species. With the exception of the author search which is done separately, any combination of the above may also be used as search criteria. For example, all the data in a particular region, having a specific geologic age, including a certain genus or genera can be chosen with one run of the program.

SELECTION IS MADE BY AUTHOR

NO. 28

TITLE: SPORE-POLLEN COMPLEXES OF THE SPARNACIAN AT THE LIGHTHOUSE OF AILLY

AUTHOR: GRUAS-CAVAGNETTO, C

DATE: 0

GENERAL AGE: PALEOGENE

TAXA: POLL SPOR DINO HYST COCC DISC DIAT ACRI MIFM CHIT
X X

SAMPLE TYPE: CORE SWS DITCH SURF
X

LITHOLOGY: COAL LIGN CLAY SHALE SLST LMST PYRO
X X

SEARCH IS COMPLETED

SEARCH IS MADE BY AREA

AREA= N.LATITUDE :N 51 DEG. 5 MIN.
 S.LATITUDE :N 42 DEG. 20 MIN.
 E.LONGITUDE:E 8 DEG. 15 MIN.
 W.LONGITUDE:W 4 DEG. 50 MIN.

How?

why 4

51 N	8 E	E. Germ
57 N	4 W	W. Atlantic
42 S	8 E	W. Atlantic
42 S	4 W	S. Atlantic

NO. 2
 TITLE: POLLEN OF BROWN COAL FR M THE NIEDERLAUSITZ FRM MARGA MINE SENFTENBERG
 AUTHOR: THIERGART, F DATE: 0
 GENERAL AGE: NEOGENE

5 1/2 N x 14 E

TAXA: POLL SPOR DINO HYST COCC DISC DIAT ACRI MIFM CHIT
 X X
 SAMPLE TYPE: CORE SWS DITCH SURF
 X
 LITHOLOGY: COAL LIGN CLAY SHALE SLST LMST PYRO
 X

NO. 17
 TITLE: PALYNOLOGY OF PALEOCENE LAYERS FROM TERTE TOWNSHIP SAINT-GHISLAIN, HAINAUT
 AUTHOR: ROCHE, E DATE: 0
 GENERAL AGE: PALEOCENE

TAXA: POLL SPOR DINO HYST COCC DISC DIAT ACRI MIFM CHIT
 X X
 SAMPLE TYPE: CORE SWS DITCH SURF
 X
 LITHOLOGY: COAL LIGN CLAY SHALE SLST LMST PYRO
 X X

SELECTION IS MADE BY AGE - TRIASSIC TO CRETACEOUS

NO. 20

TITLE: CRETACEOUS AND PALEOCENE MICROFOSSILS AND DINOFLAGELLATES OF SOUTH DAKOTA

AUTHOR: STANLEY, E A

DATE: 0

GENERAL AGE: FROM CRETACEOUS TO PALEOGENE

TAXA: POLL SPOR DINO HYST COCC DISC DIAT ACRI MIFM CHIT
X

SAMPLE TYPE: CORE SWS DITCH SURF
X

LITHOLOGY: COAL LIGN CLAY SHALE SLST LMST PYRO
X X

NO. 26

TITLE: MICROFLORA OF DANIAN COAL OF THE BASIN OF THE RUSCA MOUNTAINS, ROMANIA

AUTHOR: BALTES, N

DATE: 0

GENERAL AGE: FROM CRETACEOUS TO PALEOGENE

TAXA: POLL SPOR DINO HYST COCC DISC DIAT ACRI MIFM CHIT
X X

SAMPLE TYPE: CORE SWS DITCH SURF
X

LITHOLOGY: COAL LIGN CLAY SHALE SLST LMST PYRO
X

NO. 255

TITLE: PALYNOLOGIC STUDY OF CRETACEOUS COAL OF THE SABINAS BASIN, COAHUILA, MEX.

AUTHOR: PUEBA-GAXIOLA, J

DATE: 0

GENERAL AGE: CRETACEOUS

SELECTION IS MADE BY GENUS

NO. 17

TITLE: PALYNOLOGY OF PALEOCENE LAYERS FROM TERTE TOWNSHIP SAINT-GHISLAIN, HAINAUT

AUTHOR: ROCHE, E

DATE: 0

GENERAL AGE: PALEOGENE

TAXA: POLL SPOR DINO HYST COCC DISC DIAT ACRI MIFM CHIT

X X

SAMPLE TYPE: CORE SWS DITCH SURF

X

LITHOLOGY: COAL LIGN CLAY SHALE SLST LMST PYRO

X

X

GENUS SPECIES NTAXON NCOMB EMEND SYNON STG-OLD STG-YNG PER-OLD PER-YNG

OVOIDITES

LIGNEOLUS

PAL

NO. 20

TITLE: CRETACEOUS AND PALEOCENE MICROFOSSILS AND DINOFLAGELLATES OF SOUTH DAKOTA

AUTHOR: STANLEY, E A

DATE: 0

GENERAL AGE: FROM CRETACEOUS TO PALEOGENE

TAXA: POLL SPOR DINO HYST COCC DISC DIAT ACRI MIFM CHIT

X

SAMPLE TYPE: CORE SWS DITCH SURF

X

LITHOLOGY: COAL LIGN CLAY SHALE SLST LMST PYRO

X

X

GENUS SPECIES NTAXON NCOMB EMEND SYNON STG-OLD STG-YNG PER-OLD PER-YNG

OVOIDITES

LIGNEOLUS

X

PAL

SELECTION IS MADE BY SPECIES

NO. 15

TITLE: PLANT REMAINS OF PLIOCENE BROWN COAL OF PTOLEMAIS IN NORTHERN GREECE I.

AUTHOR: WEYLAND, H & PFLUG, H D

DATE: 0

GENERAL AGE: NEOGENE

TAXA: POLL SPOR DINO HYST COCC DISC DIAT ACRI MIFM CHIT
 X X

SAMPLE TYPE: CORE SWS DITCH SURF
 X

LITHOLOGY: COAL LIGN CLAY SHALE SLST LMST PYRO
 X

GENUS SPECIES NTAXON NCCMB EMEND SYNON STG-OLD STG-YNG PER-OLD PER-YNG

TRICOLPOPOLLENITES

HENRICI

PLI

NO. 22

TITLE: PALYNOLOGY OF SOME SAMPLES OF THE SPARNACIAN OF VERZENAY (BASIN OF PARIS)

AUTHOR: CAVAGNETTO, C

DATE: 0

GENERAL AGE: PALEOGENE

TAXA: POLL SPOR DINO HYST COCC DISC DIAT ACRI MIFM CHIT
 X X

SAMPLE TYPE: CORE SWS DITCH SURF
 X

LITHOLOGY: COAL LIGN CLAY SHALE SLST LMST PYRO
 X X

GENUS SPECIES NTAXON NCCMB EMEND SYNON STG-OLD STG-YNG PER-OLD PER-YNG

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TRICOLPOPOLLENITES

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LEOC

SEARCH IS MADE BY AGE AND AREA

AREA= N.LATITUDE :N 51 DEG. 5 MIN.
S.LATITUDE :N 42 DEG. 20 MIN.
E.LONGITUDE :E 8 DEG. 15 MIN.
W.LONGITUDE :W 4 DEG. 50 MIN.

Same? *ST*

NO. 17

TITLE: PALYNOLOGY OF PALEOCENE LAYERS FROM TERTE TOWNSHIP SAINT-GHISLAIN, HAINAUT
AUTHOR: ROCHE, E DATE: 0
GENERAL AGE: PALEOGENE

TAXA: POLL SPOR DINO HYST COCC DISC DIAT ACRI MIFM CHIT
X X

LITHOLOGY
SAMPLE TYPE: CORE SWS DITCH SURF
X

LITHOLOGY: COAL LIGN CLAY SHALE SLST LMST PYRO
X X

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AUTHOR: CAVAGNETTO, C DATE: 0
GENERAL AGE: PALEOGENE

TAXA: POLL SPOR DINO HYST COCC DISC DIAT ACRI MIFM CHIT
X X

SAMPLE TYPE: CORE SWS DITCH SURF
X

LITHOLOGY: COAL LIGN CLAY SHALE SLST LMST PYRO
X X

SEARCH IS MADE BY AREA AND GENUS

AREA= N.LATITUDE :N 51 DEG. 5 MIN.
 S.LATITUDE :N 42 DEG. 20 MIN.
 E.LONGITUDE:E 8 DEG. 15 MIN.
 W.LONGITUDE:W 4 DEG. 50 MIN.

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 AUTHOR: ROCHE . E DATE: 0
 GENERAL AGE: PALEOGENE

TAXA: POLL SPOR DINO HYST COCC DISC DIAT ACRI MIFM CHIT
 X X

SAMPLE TYPE: CORE SWS DITCH SURF
 X

LITHOLOGY: COAL LIGN CLAY SHALE SLST LMST PYRO
 X X

GENUS SPECIES NTAXON NCOMB EMEND SYNON STG-OLD STG-YNG PER-OLD PER-YNG
 OVOIDITES LIGNEOLUS PAL

NO. 22

TITLE: PALYNOLOGY OF SOME SAMPLES OF THE SPARNACIAN OF VERZENAY (BASIN OF PARIS)
 AUTHOR: CAVAGNETTO. C DATE: 0
 GENERAL AGE: PALEOGENE

TAXA: POLL SPOR DINO HYST COCC DISC DIAT ACRI MIFM CHIT
 X X

SAMPLE TYPE: CORE SWS DITCH SURF
 X

LITHOLOGY: COAL LIGN CLAY SHALE SLST LMST PYRO
 X X

SEARCH IS MADE BY AREA, AGE, AND SPECIES

AREA= N.LATITUDE :N 51 DEG. 5 MIN. *Same*
S.LATITUDE :N 42 DEG. 20 MIN.
E.LONGITUDE:E 8 DEG. 15 MIN.
W.LONGITUDE:W 4 DEG. 50 MIN.

NO. 22

TITLE: PALYNOLOGY OF SOME SAMPLES OF THE SPARNACIAN OF VERZENAY (BASIN OF PARIS)

AUTHOR: CAVAGNETTO, C

DATE: 0

GENERAL AGE: PALEOGENE

TAXA: POLL SPOR DINO HYST COCC DISC DIAT ACRI MIFM CHIT
X X

SAMPLE TYPE: CORE SWS DITCH SURF
X

LITHOLOGY: COAL LIGN CLAY SHALE SLST LMST PYRO
X X

GENUS SPECIES NTAXON NCOMB EMEND SYNON STG-OLD STG-YNG PER-OLD PER-YNG

LAEVIGATISPORITES NECDENI REGULARIS

LEOC

SEARCH IS COMPLETED

SEARCH IS MADE BY AGE AND GENUS

NO. 20

TITLE: CRETACEOUS AND PALEOCENE MICROFOSSILS AND DINOFLAGELLATES OF SOUTH DAKOTA

AUTHOR: STANLEY, E A

DATE: 0

GENERAL AGE: FROM CRETACEOUS TO PALEOGENE

TAXA: POLL SPOR DINO HYST COCC DISC DIAT ACRI MIFM CHIT

X

SAMPLE TYPE: CORE SWS DITCH SURF

X

LITHOLOGY: COAL LIGN CLAY SHALE SLST LMST PYRO

X

X

GENUS SPECIES NTAXON NCOMB EMEND SYNON STG-OLD STG-YNG PER-OLD PER-YNG

TRICOLPITES

BATHYRETICULATUS

X

PAL

TRICOLPITES

HIANS

X

PAL

TRICOLPITES

PARVUS

X

PAL

NO. 26

TITLE: MICROFLORA OF DANIAN COAL OF THE BASIN OF THE RUSCA MOUNTAINS, ROMANIA

AUTHOR: BALTES, N

DATE: 0

GENERAL AGE: FROM CRETACEOUS TO PALEOGENE

TAXA: POLL SPOR DINO HYST COCC DISC DIAT ACRI MIFM CHIT

X

X

SAMPLE TYPE: CORE SWS DITCH SURF

X

LITHOLOGY: COAL LIGN CLAY SHALE SLST LMST PYRO

X

GENUS SPECIES NTAXON NCOMB EMEND SYNON STG-OLD STG-YNG PER-OLD PER-YNG

SEARCH IS MADE BY AGE AND SPECIES

NO. 22

TITLE: PALYNOLOGY OF SOME SAMPLES OF THE SPARNACIAN OF VERZENAY (BASIN OF PARIS)

AUTHOR: CAVAGNETTO, C

DATE: 0

GENERAL AGE: PALEOGENE

TAXA: POLL SPOR DINO HYST COCC DISC DIAT ACRI MIFM CHIT
X X

SAMPLE TYPE: CORE SWS DITCH SURF
X

LITHOLOGY: COAL LIGN CLAY SHALE SLST LMST PYRO
X X

GENUS SPECIES NTAXON NCOMB EMEND SYNON STG-OLD STG-YNG PER-OLD PER-YNG

TRICOLPOPOLLENITES HENRICI

LEOC

SEARCH IS COMPLETED

SELECTION IS MADE BY AGE AND AREA AND GENUS

AREA= N.LATITUDE :N 51 DEG. 5 MIN.
S.LATITUDE :N 42 DEG. 20 MIN.
E.LONGITUDE:E 8 DEG. 15 MIN.
W.LONGITUDE:W 4 DEG. 50 MIN.

NO. 17
TITLE: PALYNOLOGY OF PALEOGENE LAYERS FROM TERTE TOWNSHIP SAINT-GHISLAIN, HAINAUT
AUTHOR: ROCHE, E DATE: 0
GENERAL AGE: PALEOGENE

TAXA: POLL SPOR DINO HYST COCC DISC DIAT ACRI MIFM CHIT
X X

SAMPLE TYPE: CORE SWS DITCH SURF
X

LITHOLOGY: COAL LIGN CLAY SHALE SLST LMST PYRO
X X

GENUS SPECIES NTAXON NCOMB EMEND SYNON STG-OLD STG-YNG PER-OLD PER-YNG
OVOIDITES LIGNEOLUS PAL

NO. 22
TITLE: PALYNOLOGY OF SOME SAMPLES OF THE SPARNACIAN OF VERZENAY (BASIN OF PARIS)
AUTHOR: CAVAGNETTO, C DATE: 0
GENERAL AGE: PALEOGENE

TAXA: POLL SPOR DINO HYST COCC DISC DIAT ACRI MIFM CHIT
X X

SAMPLE TYPE: CORE SWS DITCH SURF
X

LITHOLOGY: COAL LIGN CLAY SHALE SLST LMST PYRO
X X

50°N x 37.5E

VERZENAY

51°N x 4.5E

SEARCH IS MADE BY AREA AND SPECIES

AREA= N.LATITUDE :N 51 DEG. 5 MIN.
S.LATITUDE :N 42 DEG. 20 MIN.
E.LONGITUDE :E 8 DEG. 15 MIN.
W.LONGITUDE :W 4 DEG. 50 MIN.

NO. 22

TITLE: PALYNOLOGY OF SOME SAMPLES OF THE SPARNACIAN OF VERZENAY (BASIN OF PARIS)
AUTHOR: CAVAGNETTO, C DATE: 0
GENERAL AGE: PALEOGENE

TAXA: POLL SPOR DINO HYST COCC DISC DIAT ACRI MIFM CHIT
X X

SAMPLE TYPE: CORE SWS DITCH SURF
X

LITHOLOGY: COAL LIGN CLAY SHALE SLST LMST PYRO
X X

GENUS SPECIES NTAXON NCOMB EMEND SYNON STG-OLD STG-YNG PER-OLD PER-YNG

LAEVIGATISPORITES NEDDENI REGULARIS LEOC

SEARCH IS COMPLETED

July 15, 1970

Dr. George Fournier
Gulf Technical Services Center
3820 Buffalo Speedway
Houston, Texas 77000

Dear George:

Al Traverse has sent me some dittoed material concerning membership in the IPU (International Paleontological Union). In a nut shell, I do not see any advantages to our membership in this organization. If my information is correct, we will be asked to submit periodic reports of our activities (I suppose as they relate to the IPU), the first being at the next International Geological Congress in Montreal. Presumably, we would have to send a delegate theretofore to present a report, the meaning of which I fail to appreciate. Next, the dues stated by Yochelson at \$2.00 may not be the complete assessment. I am enclosing a xerox of a xerox that I got from Westermann, in which he states that there is an additional "voluntary" contribution of \$12.00 per hundred members. Do we want to shell out some \$36.00 annually? Frankly, I fail to understand the purposes of the IPU. I just don't see what they can do for us - or we for them, if they are as loosely organized as they seem to be. I know that I belong to as many professional organizations as I care, right now; I really don't need another, even at the next hierarchical level.

Sincerely,

John W. Hall 
Professor

cc: Al Traverse

JWH:mm

June 26, 1968

Dr. George R. Fournier
Gulf Technical Services Center
3820 Buffalo Speedway
Houston, Texas 77006

Dear George:

Regarding your recent query about possible consultants:

1. Tertiary and Cretaceous materials, slides already prepared: Providing that full information could be provided regarding the suites of fossils to be expected, as you said would be available from the oil companies who are cooperating on this venture, I should think that this would not be a difficult job and could be done for about \$25 a slide, perhaps less.

As to possible candidates, I would think that one of the younger fellows would be the best bet. How about Geoff Norris at the University of Toronto? Norm Norton at Hope College, Holland, Michigan, is another possibility. Alan Graham at Kent State would be capable of doing the job. Dan Habib at Queen's College could do it. The best available man of all would be Ed Stanley at the University of Georgia, but I am almost sure he will be out of the country during the next year. Marcia Winslow could do it if provided with the information on the forms to be expected, etc.-- though she is a Paleozoic specialist. It is remarkable, though, how true it is that the people who first come to mind are all either working for an oil company or for a government survey and are therefore not available for this sort of a job. You might contact Aureal Cross to find out if any of his recent Ph. D.'s might want to earn some money.

2. Asiatic materials, samples to be prepared? This is the sort of thing that I would be willing to tackle here. How much I would charge depends on what you all want done. Processing the samples and a relatively superficial look-see at same would be about \$50 per sample. If a careful study is wanted, with a report of counts, illustrations, etc., it would be \$100 per sample, plus cost of photographic materials and incidentals. I am really giving this as a horseback guess, based not on ever having done it before but on calculation of my time at \$100 per day.

All of this is probably not very helpful, but seems to be the best I can do at the moment.

Best wishes.

Yours very truly,

Alfred Traverse
Associate Professor of Geology

AT:kwc