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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.

Eidg. Technische Hochschule Zürich
Geologisches Institut

CH-8006 Zürich, Dec. 2, 1977
Sonneggstrasse 5

Ecole Polytechnique Fédérale Zurich
Institut de Géologie
K.J. Hsü

Prof. A. Traverse
Pennsylvania State
University
College of Earth and Mineral
Sciences
University Park, Penns.16802
USA

Dear Al:

Thank you for your letter of the 22nd, and for your changes of my proposal. I have actually made a major revision of the proposal, a copy of which is enclosed. If I have not yet incorporated any changes by you, it is because that the new draft was written before your letter arrived. By the way, the final proposal is still being revised and will be written in German.

Concerning the question if we should leave the option of 100 m open or not, I am not sure I could follow your advice. I think I have to be very accurate, because a hole to 100 m is really rather sufficient for the heat-flow work. If I wrote any other figure, my referees would give me difficulties. Also, I am pretty sure that we would be able to get the full amount to achieve the goal of studying climatic history, if we get any money at all. I do agree with you, that we really should go all the way down to the basement. By the way, we do have good seismic data, which show a basement at about 250-350 m below lake bottom.

I am still working on the Black Sea data with my student. The climatical record looks better all the time. I would like to get together with you sometime next year when we can compare notes, and to discuss the write-up of the planned paper on Quaternary climatic history of the Black Sea.Is it possible for you to plan something for the first part of March next year, when I hope to be working for a week or so at Lamont. Is it possible that you drive out there where we can meet for a day or two? Possibly you may want to do some more sampling, after you have looked over our results.

Finally, I have a request that you write a letter in support of our proposed project (in English) to Dr. E. Freitag, Eidg. Technische Hochschule Zurich, ETH-Zentrum, HG F 53.4, CH-8092 Zurich, emphasizing, as you did in your letter to me, the contributions these studies will make to the vegetational history of Europe..... Dr. Freitag himself is sympathetical to our proposal, and your letter would strengthen our position with the Board of the Referees.

With best regards,

Sincerely,

Ken

Hunt Institute for Botanical Documentation

22 November, 1977

Dr. K. J. Hsü
Geologisches Institut
E.T.H.
Sonneggstrasse 5
CH-8006 Zürich, Switzerland

Dear Ken:

I have your draft proposal in front of me and have been working on it while visiting my mother in Michigan. First of all, I have made some picayune suggestions regarding the English used which I think will improve the readability of the proposal. I realize that's not what you really wanted, but thought it might be helpful nevertheless. I notice the alteration between the use of the word geothermal and the word geothermical and wonder whether that is intentional.

Now getting down to the nitty-gritty: I had one sort of political suggestion which is that on page 2 you mention the possibility of a "modest alternative" of drilling only 100 meters. This is like telling a prospective employer that the range of salary that you will accept is $20,000 to $30,000. You will of course be offered $20,000. I think that you should not mention the "modest alternative" at all. You must go all the way to basement unless technical problems prevent. Even then you should probably think in terms of appealing to somebody for more cash when that ugly possibility actually happens. It certainly would be from a palynological point of view terrific to have a complete record. Who knows--you may get down to the Neogene. But that reminds me, you don't seem to say anywhere what depth of sediment the seismic evidence shows. Surely you have some pretty good idea of the zone at which the lithology changes and can take a pretty good guess as to how much sediment there is?

My other major comment is that you have not stressed at all the contribution that these studies will make to the vegetational history of Europe, and that certainly should be one of the main things you mention. The results

Hunt Institute for Botanical Documentation

of study of the cores will tie in beautifully with the van der Hammen, van Zeist, etc., etc., results from mostly northwestern Eugope. You might even mention that there will be a tie-in with the Black Sea and Macedonian results. In any case, the vegetational history is one of the big things which should be mentioned.

This is all very exciting. I hope you get the funding. Who knows--you might be able to have me come over for a little consulting at some point in the procedure! I would like that. Best wishes to you all.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et
encl: draft proposal

Hunt Institute for Botanical Documentation

Eidg. Technische Hochschule Zürich
Geologisches Institut

CH-8006 Zürich, Nov. 2, 1977
Sonneggstrasse 5

Ecole Polytechnique Fédérale Zurich
Institut de Géologie
K.J. Hsü

Dear Al:

We have been studying the Late Quaternary sediments of Swiss lakes during the last 10 years. We came to the conclusion that the next major advance can only be made by sampling a more complete Quaternary section. I have therefore, drafted a proposal for deep-drilling in a Swiss lake. A copy of the draft is enclosed for your reference. I would appreciate your comments. Your support may help us to obtain funding for the deep-drilling. I would therefore appreciate to receive from you your comments at your earliest opportunity.

With best regards,

Sincerely,

K. en Hsü

Kenneth J. Hsü

1020/1 - 37104/10

Hunt Institute for Botanical Documentation

geothermic?

Is the deep splor— and gas
into veins Yangue too!

don't you know from seismic
the Thickness of rock?—
Shld be stated

p. 3

p. 4 3-5—

Why not shows vegetational
history?

Hunt Institute for Botanical Documentation

XXXX
865-2342

17 August, 1977

Dr. K. J. Hsü
Geologisches Institut, E.T.H.
Sonneggstrasse 5
8006 Zürich, Switzerland

Dear Ken:

Many thanks for yours of 3 August. I set to work at once to revise the little MS. for India (previously sent you), as enclosed. If you have clearcut evidence of fresh-water diatoms and ostracods in the dino 19-20 layers, that seals it--can you please send specific details (names, etc., references, etc.) for me to use in formal descriptions of 19-20 (in the works)?

As you say, too bad I didn't get this done sooner--the remarkable thing is that I haven't come unglued alto-gether. Latest disasters: 1)My office has just been moved after 11 years. Imagine the chaos! 2)We went on a little vacation to Canada mostly to see Martha in her current pro-duction. In Toronto, Celia fell through a glass enclosure and was seriously hurt--end of vacation. She is o.k. now (marvelous plastic surgery) except psychologically.

Delighted to hear Martin is working in mechanics--very satisfying, I would think. Machinery is in his maternal blood?! Greetings to him (and all).

Best wishes and many thanks again.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et
encl: xerox of revised MS, copy of letter to Lakhanpal

Hunt Institute for Botanical Documentation

12 August, 1977

Dr. K. J. Hsü
Geologisches Institut, E.T.H.
Sonneggstrasse 5
8006 Zürich, Switzerland

Dear Ken:

Thanks very much for yours of 11 July and the postcard from Windsor, England!

Regarding the letter of 11 July--I presume it must have crossed in the mails with mine conveying the information we had obtained from looking at the "cyclically deposited chalk samples". I think that in general the results were about what you expected, and I have been so bold as to write a rather informal note to deliver orally at the next palynological session on that. I am looking forward to hearing from you what you think of all of it as soon as possible.

Thanks for the good news about Martin. We tried to take a short, much needed vacation, and did indeed get a few days. However, while we were in Toronto to see Martha in her current stage production, Celia had the bad fortune to fall through a glass enclosure around a shopping center door, and very seriously cut her nose. A plastic surgeon put it back together, but it pretty much ended the holiday for us.

Best wishes. I look forward to hearing again from you soon about what we should do next palynologically!

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

Eidg. Technische Hochschule Zürich
Geologisches Institut

Ecole Polytechnique Fédérale Zurich
Institut de Géologie
Ken Hsü

CH-8006 Zürich,
Sonneggstrasse 5

August 3, 1977

Prof. Dr. A. Traverse
Penn State University
Palynological Laboratories
Deike Building
University Park - Penns.
16802
USA

Dear Alfred:

Thank you for your letter of 5th July, which must have come just when we left for three-week vacation in England. Did you receive our card from Windsor? We also thought of you when we visited the Kew Garden, and I was very much disappointed that I did not find a metasequoia, probably we had too little time to search. (I thought it should be in the neighbourhood of the pagoda, but I did not find it there.)

I am very much interested in your study of the cyclic sediments. Your discovery of the very different S.F.I. indices between the light and dark gray layers confirmed my suspicion that the cycles were caused by cyclic climatic changes, (see enclosed draft of a manuscript on cyclic sedimentation). Those changes have a duration very similar to that recorded historically in Switzerland, through the study of mountain glaciers, etc. Apparently the river brought in much detritus during the warm time with the melting of the glaciers, but very little detritus during the cold times when much of the Russian platform was covered by ice or frozen ground.

I would like to repeat one of my earlies~~t~~ criticism of your M.I. I thinkit is very misleading. The Dinos 19-20 are not marine, not even brackish, because they are associated with freshwater ostracods and freshwater diatoms. A proper M.I. should be

Dinoflagellates - Dinos 19-20 + Acritarchs

All Dinoflagellates (incl. Dinos 19-20) + Acritarchs + all other Pollen

To cite one example to illustrate how absurd your present system is: Sample 379A/58/4/37-39 has a M.I. of 99, which would suggest a marine environment, yet the high index is the result of the abundance of Dinos 19-20, which account for 93% of your total Dinos population. Obviously the sediments are freshwater in origin. You would not come up with such a misleading figure, if you use my way of computation, which gives a M.I. of 7 (not 99). I strongly advise that you change your M.I., I regret very much that you did not take any action on it after our last exchange so that your I.C.R. manuscripts are forever tainted with the misleading index.

1020/1 - 37104/10

Hunt Institute for Botanical Documentation

My students are still getting encouraging results from the Black Sea cores, so that we should be able to come up with an accurate dated Pleistocene climatic history for the Nature article we plan to co-author with you.

With best regards,

Sincerely,

Ken

Ken

p.s. Martin is learning Auto mechanic. Starting today he works in a garage till the end of the vacation.

KJH/ch

Hunt Institute for Botanical Documentation

Eidg. Technische Hochschule Zürich
Geologisches Institut

CH-8006 Zürich,
Sonneggstrasse 5

Ecole Polytechnique Fédérale Zurich
Institut de Géologie
Ken Hsü

July 11, 1977

Dr. A. Traverse
The Pennsylvania State
University
Palynology Laboratories
Deike Building
University Park - Penns. 168(
USA

Dear Alfred:

I would like to thank you first of all for the kodachrome slides you sent me. I am picking out some for a Scientific American illustration.

Concerning the Quaternary climatic history paper we are going to write, I can tell you that we begin to get very useful paleomagnetic results from Site 379. We are now asking for some 40 more samples. After we finish those, we should be in a position to write a major paper. By the way, I have my secretary to recalculate three-point averages for Site 379; the resulting curve shows much better definition of the three glacial (alpha, beta, gamma) and two interglacial (A,B) stages than your five-point averages.

I am writing to ask you if you have done some more work on the cyclically deposited chalk samples, which we sampled together last Spring. I am now working on the sedimentological data. I begin to wonder if the steppe pollen for that interval come mainly from the dark intervals of mud, whereas the light intervals of chalk may contain mainly Dino 19-20, and possibly some tree pollen of warm and dry climate. Could you check this prediction of mine?

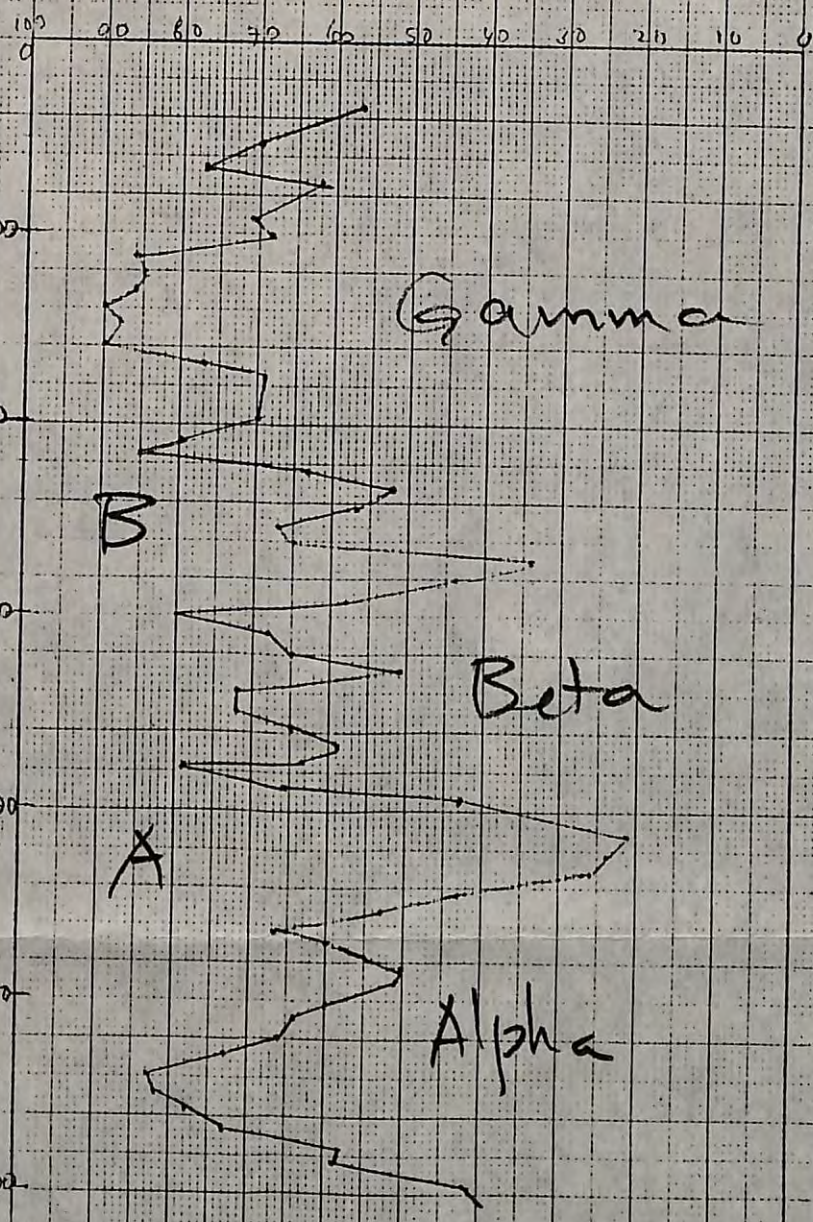
It is summer vacation soon. I shall be doing quite a bit of travelling again. In September I shall probably go back to China again, as a member of IUGS delegation. I am curious to see the China after Mao.

Martin is doing fine, and is getting passing marks in school. He is 16, and, alone of the three older kids, he has a "friend"!

With best regards,

Sincerely,

Hunt Institute for Botanical Documentation



Hunt Institute for Botanical Documentation

5 July, 1977

Dr. K. J. Hsü
Geologisches Institut
E.T.H.
Sonneggstrasse 5
8006 Zürich, Switzerland

Dear Ken:

Enclosed is a chart ("Table 1") summarizing my findings re the "special samples" we collected at Lamont last year, as well as xeroxes of the whole analyses. I plan to use this as most of a paper for AASP in October--have submitted a non-commital abstract (copy enclosed). Let me know as soon as possible what your reactions are to chart, abstract, etc. Analysis in detail of 380-380A goes along, as I learn more and more about the flora. What bothers me, though, is that this really is a life's work!

Hope Hope all goes well with you. Were the pictures o.k.? When will you come to see us? Best regards to all.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et
encl: chart, abstract, xeroxes of raw data.

P.S. For 381:38:1, which sample is light, which dark?

Hunt Institute for Botanical Documentation

30 May, 1977

Dr. K. J. Hsü
E.T.H.
Sonneggstrasse 5
CH-8006 Zürich, Switzerland

Dear Ken:

Under separate cover (air mail) I am sending you about thirty-five 2x2 transparencies photographed on the new Kodak photomicrographic color film (PCF). I did this rather than make prints because I think you can project the transparencies and decide which ones best suit your purposes.

I am enclosing with this letter a data sheet giving particulars about each picture. From the size given in microns, you can calculate the magnification by simply measuring your prints in millimeters.

If you need any more information on any of the specimens, I have them well located and can provide whatever you want.

Best wishes.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et
encl: data sheet

Hunt Institute for Botanical Documentation

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Data Sheet for 2x2 color transparencies
(accompanies letter of 30 May, 1977)

Our #	Name	Size	Source	Notes
3042	Chenopod	19u	379A:31cc	unstained, fair preservation
3043	"	"	"	smaller magnification to increase depth of focus
3044	Artemisia	21u	"	unstained, fair preservation
3045	"	"	"	higher magnification for detail
3046	Chenopod	17u	381:3cc	red stained (not natural color) to increase contrast, excellent preservation
3046A	"	"	"	same example, dif. magnification
3046B	"	"	"	dif. magnification, dif. level of focus
3047	Artemisia	19u	"	red stained, as above
3047A	"	"	"	dif. level of focus to show surface
3048	"	"	"	lower magnification to increase depth of focus
3049	"	"	"	same as 3048, dif. level of focus
3050	Chenopod	23u	"	folded specimen
3051	"	20u	"	low magnification
3051A	"	"	"	higher magnification to emphasize surface
3052	Artemisia	17u	"	red stained, equatorial view (all other Artemisia examples polar views)

Our #	Name	Size	Source	Notes
3053	Quercus	17x23u	381:3cc	red stained, equatorial view
3054	"	"	"	lower magnification to increase depth of focus
3055	Alnus	23u	"	red stained, note thickened bars in this species
3056	Pinus	51x77u	"	low magnification to increase depth of focus
3057	Abies	67x96u	380A:66cc	poor preservation with pyrite flecks
3058	"	70x90u	"	"
3059	"	85x100u	380A:11cc	unstained, good preservation
3060	Pinus	48x68u	"	unstained, fair preservation, low magnification to increase depth of focus
3061	Abies	76x120u	"	good preservation, unstained, very low magnification to increase depth of focus
3062	"	76x125u	"	note that 3064 is better picture of same thing
3063	"	"	"	lower magnification to increase depth of focus
3064	"	"	"	better exposure
3065	Cedrus	34x47u	380A:	red stained
3066	Fagus	34u	379A:10cc	red stained, equatorial view

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Our #	Name	Size	Source	Notes
3067	Alnus	19u	379A:10cc	low magnification to increase depth of focus, note thickened bands of exine
3068	Pinus	4rx61u	"	red stained, fusinitic organic matter showing under specimen
3069	Fagus	32u	"	red stained, equatorial view
3070	"	38u	"	red stained, polar view, colpi split open
3071	Pinus	38x52u	"	red stained
3072	Ulmaceae (Elm family)	28u	380A:49cc	red stained, note prominent 5 pores with raised edges
3073	"	34u	"	only 4 pores showing, note characteristic ridges
3074	Quercus	ca.25u	380A:66:27-28	red stained
3075	"	21x30u	380A:46cc	red stained, very nice specimen showing warty sculpturing

Note: "cc" notation under source stand for core catcher samples

All samples, of course, are from Deep Sea Drilling Project, Leg 42B

Hunt Institute for Botanical Documentation

19 May, 1977

Dr. K. J. Hsü
Geologisches Institut E.T.H.
Sonneggstrasse 5
8006 Zürich, Switzerland

Dear Ken:

With regard to yours of 11 May, I did not receive the missing illustrations, just the xerox copy of the body of the manuscript itself. Indeed, in your covering letter, you explained that the illustrations were not included because "not essential for its comprehension". I certainly hope you find them somewhere, as I have had similar experiences myself and know how disconcerting it can be.

I am looking forward to getting information from you regarding the way in which you want the colored pictures you requested. Making the pictures will be a matter of only a few hours, so I'll flash them off to you as soon as I hear from you about how you want them. I might even try the new Polaroid film to make prints, if that's what you want, but I'll do what ever is best for your purposes. Prints might be the easiest to handle. Best wishes.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/ et

Hunt Institute for Botanical Documentation

Eidg. Technische Hochschule Zürich
Geologisches Institut

CH-8006 Zürich,
Sonneggstrasse 5

May 13, 1977

EXPRESS

Ecole Polytechnique Fédérale Zurich
Institut de Géologie

Prof. Alfred Traverse
The Pennsylvanian State University
Palynological laboratories
Deike Building
University Park - Penns. 16802
USA

Dear Al:

Thank you for your letter of 28 April. Also Martin received your note to him. He is a tall boy, rather reserved. He always listens to me, but I have difficulty to reach him. At home, he is most helpful with the chores; this is a big asset as I have never been very good with wood work, electric appliances, etc.

The Scientific American article was a difficult task, because I had difficulty to settle on one theme as I did with my write-up of the Mediterranean story. I was thinking about an article on the Pleistocene climate, when I wrote you and asked your help as a co-author. However, I decided that such an article, to be co-authored with you, and my assistant Giovanoli after he finished his paleomagnetic stratigraphy should be first written as a scientific opus for Nature. Pleistocene chronology is a dangerous game, we should establish our basis in a scholarly document, before we venture to offer a story for public consumption. Therefore, I decided to change my plans. I shall ask you to help with the Nature article, which I shall eventually start a draft, before sending it to you for comments, revisions and additions. We may wait until we have finished that if the Scientific American would like to have an opus on the Pleistocene Ice Age from us.

The Scientific American article I am writing will, therefore, emphasize the Late Miocene history, and the relation between the Mediterranean, the Paratethys, and the Black Sea as revealed by the Black Sea drilling. The climatic history will only be mentioned as a side issue, as a help to our efforts to set up a broad chronological framework for the largely non-marine Black Sea sediments. Just the same, I think, colored pictures of pollen grains would probably be interesting to SA reading public. If you could send me some colored (ektachrome or kodachrome) prints of some steppe pollen and of some tree pollen. Probably two pictures, eventually occupying a page, one with Artemisia and Chenopodeae, the other with Pinus, Abies, and Quercus, would be ideal. Could I have them in a few weeks time? There will, of course, be acknowledgment of the pictures, and your name will be mentioned prominently in the text anyway.

Congratulations on your election to the highest elective office of the science of palynology. I usually only get the working posts (administration in the university, editor, treasurer for associations, etc.) people usually think that I am

Hunt Institute for Botanical Documentation

too young for honors. Talking about that, I wonder if you have done more with the Dinoflagellates 19-20, now that you are seeing so much more of it. I am quite certain that they are freshwater (or at most slightly brackish), not only because of the ecology of the associated fossils, but also because of our sedimentary geochemistry data. If you still want to name the genus after me, you have to choose a name other than Hsuum, which is a new genus of Radiolaria named after me by one of my secret admirers "in recognition of (my) pioneer contribution to the geology of the Franciscan Group".

I am waiting with impatience your palynological results on the cyclically deposited sequence. With best regards,

Sincerely,

Ken

P.S. One of my students got your address from me. I told him to write you about employment possibilities in N. America (Hochuli) He is a good man!

Hunt Institute for Botanical Documentation

Eidg. Technische Hochschule Zürich
Geologisches Institut

Ecole Polytechnique Fédérale Zurich
Institut de Géologie

Ken Hsü

CH-8006 Zürich,
Sonneggstrasse 5

May 11, 1977

Express

Prof. A. Traverse
Dept. of Geoscience
Palynology Laboratories
Deike Building
University Park - Penns.
16802

USA

Dear Alfred:

Maybe I sent you by mistake my last copy of the illustrations for my Black Sea manuscripts 1) Lithology, 2) Correlation, 3) Lacustrine Stratigraphy. Could you send them back by registered mail. I need them urgently. You can make a copy for yourself if you want them. Please ignore this letter if you haven't any of the illustrations.

Received your letter of April 28. I shall write you soon.

With best regards,

Sincerely,

Ken

Ken Hsü

1020/1 - 37104/10

Hunt Institute for Botanical Documentation

28 April, 1977

Dr. K. J. Hsü
Geologisches Institut E.T.H.
Sonneggstrasse 5
8006 Zürich, Switzerland

Dear Ken:

Thank you very much for yours of 6 April. I am very happy to hear about Martin's confirmation and am of course sorry that I couldn't be there, or know about it ahead of time. I will dash off some kind of a note to him, but that will be a little difficult, because I am at the moment recovering from surgery to my right arm which makes it impossible for me to sign even my name--I am compulsively right-handed.

Regarding the article for Scientific American--I'm glad to hear you still are doing it and I will of course send the colored pictures you request. Could you let me know by return mail what technique you want used for the color pictures--ektachrome transparencies, prints, polaroid color prints, or what. I would like to think I might be able to make some additional contribution as co-author, and of course I am very flattered and happy to be part of your plan.

Betty long ago prepared the samples of the "cyclically deposited lacustrine chalk", and I have been studying them as time permits. Of course, this arm operation throws a temporary monkey wrench into plans because I can't operate the microscope adequately one-handed. As a preliminary matter, I should tell you that the most startling thing is that every single sample I have studied so far is like the samples in the on-board studies dominated by "Dinoflagellates 19 and 20"--the dinoflagellate heavens which I showed you in the micropaleo lab on board. As I recall, that was precisely what you expected.

I have read your galley proof and have found it most informative and of course appreciate the nice acknowledgment! I believe I could have been helpful in an editorial way had I been able to see it a little sooner. For example, the plural

Hunt Institute for Botanical Documentation

of pollen is pollen, not pollens, and also on page 2, you should say "..not necessarily the same as sea level" and "..little or not at all influenced by sea water chemistry."

We are doing reasonably well at the task of getting settled in our new house. We still have occasional pangs of regret that we didn't come to Zurich, but it just did not seem to be the Lord's will at this time.

I am trying to figure out what you mean by my "over-hasty announcement"--but I guess you mean that I thought you were a "professor" which would be the equivalent of your new status as chairman of the""Geological Institute. At any rate, my congratulations and commiserations. Did you know that I had been elected President of the International Commission for Palynology? All the best from all of us.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

Eidg. Technische Hochschule Zürich
Geologisches Institut

CH-8006 Zürich, April 6, 1977
Sonneggstrasse 5

Ecole Polytechnique Fédérale Zurich
Institut de Géologie
Ken Hsü

Prof. Al Traverse
The Pennsylvania State
University
Deike Building
Palynological Laboratories
University Park - Penns.
16802

USA

Dear Al:

Thank you for your letter of February 15. I wanted to write you quite sometime ago to tell you that Martin was to be confirmed on Palm Sunday. Well, he was. We had a family re-union with 17 persons. You, as his godfather, was missed. If you had taken your sabbatical and accepted our offer of a Visiting Professorship, you and Betty could have attended the ceremony and the feast. Martin is a big boy now, and taller than I am. Thank you, by the way, for the gift of 10 dollars. It was quite some work for the bank before they could cash it!

I have not yet started writing the Black Sea article for Scientific American. Meanwhile, I would like to ask you if you could send me some color pictures of pollen grains, steppe pollens and forest pollens. They would be very good illustrations. Also, I would like to invite you as my co-author. (You don't have to do any additional work except sending me those pictures and presenting the steppe index curves in the article)

Did you start working on those cyclically deposited lacustrine chalk I sampled for you a year ago (Hole 380A, Cores 10-20). We would like to know if the chalk-rich lighter samples contain a flora comparatively warmer and drier than the mud-rich darker samples (from the same cycle). Your information would help us greatly to interprete the origin of those lacustrine chalk deposits, - a problem I am working on now for a lacustrine sedimentology symposium.

I am enclosing a copy of the galley proof of my stratigraphic syntheses. The illustrations are not essential for its comprehension, but I can send those you want to you.

By the way, I have taken on new obligations and fulfilled the over-hasty announcement (several years back) you made when I came to Penn State to lecture. With best regards to you and Betty,

Sincerely,

Ken Hsü
Chairman
Geological Institute

Hunt Institute for Botanical Documentation

15 February, 1977

Dr. K. J. Hsu
Geologisches Institut, E.T.H.
Sonneggstrasse 5
CH-8006 Zurich
Switzerland

Dear Ken:

I have just been going over the shambles of my correspondence and wonder if I ever answered yours of 22 December? The reasons for the mess are manifold--we moved into our new house about 1 December, and the most severe winter in the recorded history of eastern North America set in almost immediately, which caused me many problems--frozen pipes, heating problems, etc., etc. Also I was supposed to be going to the international palynological conference in India right after Christmas, and the fact that I didn't get funding until it was too late to go seriously inconvenienced me and threw everything into confusion. At the moment, things are beginning to level out, and I actually am getting down to some business other than just keeping alive and meeting basic obligations.

Of course you have permission to redraft my pollen diagram for your article. Believe it or not, we are continuing work on the Black Sea cores, and you should be hearing from me more about that before too long. I frequently contemplate how much effective work I accomplished in the three weeks on the Glomar Challenger and wonder if it wouldn't be possible to have a similarly fruitful experience without going on a ship in the middle of the Black Sea. It certainly would have to be a place without telephones, interesting forms of entertainment, family or church obligations, or anything else. I might possibly be able to do it without working seventeen hours a day, however!

You asked if you had sent me a copy of your final manuscript on the stratigraphic synthesis. If you did, I can't find it. I was very interested in the figure that you enclosed with your letter of the 22nd. I'm sure there is good information there. The people, such

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as Zagwijn, who have worked in northwest Europe have really been unable to see the forest for the trees (a really meaningful double entendre) because their approach has been too complicated. It may well be that I got on to something with your help while on the Black Sea that they would not have noticed because of their concern for some of the minutiae which I wouldn't have been able to recognise without reference collections while on board. It's an interesting thing to think about.

I reciprocate, rather belatedly, your good wishes for 1977. As the days pass, we will be reminded of the Hsu family when we look at the very handsome Chagall calendar you sent us. I wish there were some chance of our seeing you this year, but I suppose it impossible. I know very well that we won't make it to Switzerland. It would be delightful if you all could make it to Pennsylvania. Very best wishes as always.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

Eidg. Technische Hochschule Zürich
Geologisches Institut

CH-8006 Zürich, Dec. 22, 1976
Sonneggstrasse 5

Ecole Polytechnique Fédérale Zurich
Institut de Géologie

Ken Hsü

Prof. Al Traverse
The Pennsylvanian State University
Dept. of Geosciences
Palynology Lab.
Deike Building
University Park - Penns. 16802
USA

Dear Al:

I have been asked by the Scientific American to write a popular article on the Black Sea. I could now do so, according to the publication policy of DSDP, that we can write for outside publication after all the manuscripts for ICD are in. (Leg 42B manuscripts were all in on November 30). I would like to ask you, if you could permit me to redraft your pollen diagram for my article.

As you know, a SA article is a more journalistic report than an original contribution in science. As I did in the Med article, I shall certainly mention your letter in big letters when I discuss your diagram. I hope you give me permission to make a popularization of your scientific report in press.

By the way, my student Fred Giovanoli has been getting some encouraging paleomagnetic results. We are asking for more paleomagnetic samples so that he can complete his thesis. After that, it would be the time for the three of us to work out a manuscript on the Black Sea climatic history, with a reliable absolute timescale.

I cannot remember if I sent you a copy of my final manuscript on stratigraphic synthesis. However, the enclosed figure tells the story. You can see the remarkable correlation with the equatorial Atlantic, and the lack of correlation with the northwestern Europe stages.

With best wishes for Merry Crhistmas and Happy New Year.

Sincerely,

Ken

Hsü

encl.

KJH/ch

1020/1 - 37104/10

Hunt Institute for Botanical Documentation

Simple Stephan Index (Modified values)

Complete Stephan Index (25-point averages)

Estimated Winter temperature (3-point averages)

Percentage G. Menardii complex

Climate Zones

Paleomagnetic Polarity

Age (m.y.)

Vegetation

Polar desert

Tundra

Pine forest

Deciduous forest

Mixed

Alpha

Beta

Gamma

(a)

(b)

(c)

Hutchinson Institute for Paleoclimatology and Paleontology

31 December, 1976

Dr. K. J. Hsü
Geologisches Institute E.T.H.
CH-8006 Zürich
Sonneggstrasse 5
Switzerland

Dear Ken:

Regarding "Waalian" age on "p. 2" (?--in my paper, the page is p. 12), my reasoning was that Hole 379A did not pepetrate the pre-Alpha, (I am wondering if you have my final paper?--I enclose a copy of the pertinent pages) at all--therefore "Waalign" is a fair guess. The guess was based on correlation with 380-380A.

I enclose herewith the date for indivieual (cc) samples, Site 379. I wonder what you mean by "significantly different". I did recount quite a few slides but thought the trends remained the same. The curves I drafted were indeed running averages, which certainly are better for display of the main trends. Indeed, plots of the raw data show very little on casual examination.

Re "Dino 19-20"--formal description and naming cannot be done on the hurry-up basis you suggest, and the name should be published in a recognized journal for systematics. In the meantime, use of the informal designation is quite acceptable. I have illustrated it and briefly described it in my paper. (An important pollen type from our Triassic work is still known (in several papers published) as "genus A"!)

We are banging away at the samples you and I collected at Lamont--will report on them soon.

Best regards of the season to you all.

Yours affectionately,

Alfred Traverse
Professor of Palynology

AT/et
enclosures: 379 data, copy of pages from final paper

Hunt Institute for Botanical Documentation

Eidg. Technische Hochschule Zürich
Geologisches Institut

CH-8006 Zürich,
Sonneggstrasse 5

Nov. 18, 1976

EXPRESS

Ecole Polytechnique Fédérale Zurich
Institut de Géologie
Ken Hsü

Prof. A. Traverse
The Pennsylvania State University
Dept. of Geosciences
Deike Building
University Park - Penns. 16802
USA

Dear Al:

After trips to U.S., Australia, Israel, Scotland, Poland and Yugoslavia, I finally come back to the Black Sea manuscripts and read your letter and memo of 7th July.

I do not like your use of the expression "Waalian" on page 2. What is the basis of your correlation? Various approaches, including the new paleomagnetic dating, led me to conclude that part of the pre-Alpha is Pliocene, some 2 or 3 million years of age. You do not have to agree with me, but nor do you have to pick up a correlation out of the blue(as Degens does), without any sound basis.

I note that your Hole 379A steppe index as shown by your latest diagram has values significantly different from that we had on board ship. Also they seem to be 3- or 5-point average. Could you give me the date on the values for individual samples (Site 379). I need that for correlation with individual values for Site 380 which you gave me on board ship.

Finally, please note that you have to describe and name the new species Dino 19-20. Please do so immediately before I sent in my very final draft.

I shall be in Scripps on Monday, December 13. You can call me, or send a note for me with your number to call you, if there are things we should talk about on the phone.

With best regards,

Sincerely,

Ken Hsü

CH

KJH/ch

Hunt Institute for Botanical Documentation

DATE: 31 May 76 PAGE 1 OF 4

NAME: KEN HSU - A. TRAVERSE KEY PUNCH CODE:

INSTITUTION: GEOL. INST ZURICH - Penn State TOTAL NO. OF SAMPLES: 113

CATEGORY: POST LEG OR SUBSEQUENT REQUEST OF 4/15 1976 (Date)

LEG	SITE	CORE	SECTION	PIECE NO. (HARD ROCK)	INTERVAL cm.	VOLUME cu. cm.	SEDIMENTOLOGY / COMMENTS
42B	379A	49	1		140-142	10	laminated silt
			3		141-143		mud.
			5		139-141		lt. grn al. gray mud.
		50	1		131-133		mud.
			3		143-144		light - top of cycle
			3		144-145		dark
			3		72-74		pyrite rich layer.
T			5		149-150		DARK - 1 cycle
T			5		147-148		light
			5		8-10		laminated
		51	4		77-79		pyrite rich layer
			6		83-85		" " "
		52	3		80-82		mud
		53	1		20-22		pyrite rich layer
		54	2		81-83		DARK mud
			6		60-62		pyrite
		55	2		116-118		pyrite
		56	3		93-95		pyrite
		57	1		8-10		light - indistinct cycle
T		58	2		132-134		mud -
T			4		37-39		light (cycle)
T			4		41-42		DARK
T			4		68-69		LIGHT - (cycle)
			4		70-71		DARK
		59	3		51-52		laminated - light - some cycles in this section
			5		121-123		DARK - mud
T		60	2		6-9		DARK (CYCLE)
T			2		10-12		LIGHT
T			2		13-14		DARK - PYRITE
T			2		15-17		LIGHT
			4		86-88		laminated {two light layers {three dark
		64	3		62-64		mud.
		65	2		84-86		pyrite
			4		102-103		light (cycle)
			4		105-106		DARK

Hunt Institute for Botanical Documentation

DATE: 5 MAY 1976 PAGE 2 OF 4

NAME: HSU - TRAVERSE KEY PUNCH CODE:

INSTITUTION: Geol. Inst. Zurich - Penn State TOTAL NO. OF SAMPLES: 113

CATEGORY: POST LEG OR SUBSEQUENT REQUEST OF 5 MAY (Date)

LEG	SITE	CORE	SECTION	PIECE NO. (HARD ROCK)	INTERVAL cm.	VOLUME cu. cm.	COMMENTS
42B	379A	67	2		130-131	10	LIGHT (cycle)
	T		2		134-135		DARK
			4		48-50		mud
		68	3		62-64		mud
			5		146-148		mud
	T	29	5		97-98		light (cycle)
	T		5		101-103		DARK
	T		5		2-3		DIATOM black mud
	381	26	2		84-86		siderite
		19	1		110-112		light
	~~379A~~	~~39~~	~~3~~				
	380A	9	5		38-40		
		9	6		84-85		DARK (cycle)
			6		92-93		LIGHT
		10	1		149-150		Siderite
T	381	38	1		134-136		[redacted] ?
T		38	1		141-143		
		39	1		122-123		rock + mud
	380A	8	1		19-21		shell material
		11	4		134-136		? siderite
		11	3		144-146		siderite
		12	4		37-38		cycle light (cycle)
		12	4		38-39		DARK
	T	12	4		41-42		LIGHT
	T	12	4		43-44		DARK
		13	1		94-96		light
	T	14	3		52-53		LIGHT (cycle)
	T	14	3		53-54		DARK
		17	6		49-51		mud.
		17	5		72-73		light
		23	6		50-52		[redacted] light
		35	3		125-127		laminated
	T	49	5		108-109		LIGHT (cycle) } same
	T	49	5		119-120		DARK
		49	5		118-119		LIGHT (cycle) } same
		49	5		119-120		DARK

Hunt Institute for Botanical Documentation

2/104/14 · PAGE 1 OF 1

ME: HSU-TRAUERSE · Tenn State · KEY PUNCH CODE:

STITUTION: Geol Inst. Zurich TOTAL NO. OF SAMPLES: 113

ATEGORY: POST LEG OR SUBSEQUENT REQUEST OF 5 May (Date)

LEG	SITE	CORE	SECTION	PIECE NO. (HARD ROCK)	INTERVAL cm.	VOLUME cu. cm.	COMMENTS
42B	380A	53	2		117-118		Light Cycle
		53	2		122-123		DARK
		53	2		117-118		Light
		53	2		122-123		DARK
		55	4		57-59		mud
		55	3		92-94		Laminated, light
		56	4		44-45		light · laminated
		57	~~5~~ 5		124-125		black laminated
		57	5		127-128		light laminated
		58	1		61-63		breccia
		58	2		64-66		ROCK - TS
		58	3		80-81		chip - TS
		58	3		108-110		ROCK - TS
		59	1		112-114		ROCK TS
		59	1		130-131		ROCK - TS
		60	1		121-122		DARK LAMANATED
		60	1		131-132		Light laminated
		62	3		13-14		Light laminated
		62	3		79-80		TS
T		60	3		87-89		Light
T		62	2		95-97		DARK
		62	2		135-136		LIGHT
		63	3		76-78		DARK -
		63	3		148-150		LIGHT
T		64	4		93-95		Light lam.
T		64	4		133-135		DARK lam.
T		65	2		126-127		light lam
		65	2		126-127		light lam.
T		66	1		27-28		black + white lam.
T		69	4		130-132		dark mud
T		71	2		143-145		black
		71	2		138-139		light
	381	40	1		108-110		mud
		42	1		128-130		rock + mud
		43	1		10-12		TS
		45	1		139-141		MUD

Hunt Institute for Botanical Documentation

DEEP SEA DRILLING PROJECT SAMPLE DISTRIBUTION LIST

TE: 6 May 76 . PAGE 4 OF 4

AME: HSU-TRAVERSE KEY PUNCH CODE: _____

NSTITUTION: Geol. Inst. Zurich-Penn State TOTAL NO. OF SAMPLES: 113

TEGORY: (POST LEG) OR SUBSEQUENT REQUEST OF 5 May 76 (Date)

LEG	SITE	CORE	SECTION	PIECE NO. (HARD ROCK)	INTERVAL cm.	VOLUME cu. cm.	COMMENTS
2B	381	48	6		64-66	10	black laminated
		49	3		99-101		black laminated
		51	3		43-45		soft breccia
		52	2		81-83		mud with indistinct laminations
		53	2		43-44		light lam.
		54	4		44-46		black mud
		54	4		129-131		" "

Hunt Institute for Botanical Documentation

July 14, 1976

Dr. K.J. Hsü
Geologisches Institute E.T.H.
CH-8006 Zürich
Sonneggstrasse 5
Switzerland

Dear Ken:

Just to whip you off a responde to one more thing from your letter of 8 June, to which I have not previously responded: I have looked at the "unpublished results on pollen studies of Mediterranean cores." You didn't tell me whose data they are. The samples are much too widely spaced for easy comparison with my data. It is evident that many of the "counts" represent single specimens. For example, in core 375; 5/5; 135/157, the percentage "2.2" appears again and again. I take it that this must be a single count. If so, no wonder the total number of spores and pollen is not given, as it must be only about 50. That was from Table 3. From Table 4 the counts appear to have been larger and, indeed, quite large numbers are listed for the pollen and spores sum at the bottom but that is not the section from which you want information, and the samples are extremely widely spaced, so that they could be shoehorned into most any place in my curves. The occurrence of *Engelhardia* from Table 2, as I say, is probably a count of only two specimens, and therefore not very meaningful. It is very common as a reworked fossil.

I have now read your section "lithology" for the Site Report and have found it very interesting.

Hang on.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT:jeb

Hunt Institute for Botanical Documentation

June 23, 1976

Dr. K.J. Hsü
Geologisches Institut, E.T.H.
CH-8006 Zürich
Sonneggstrasse 5
Switzerland

Dear Ken:

Thanks for yours of 4 and 8 June, which arrived together and ~~is~~ are still being digested by me. I am not in a position at the moment to answer your letter in detail, because I am working furiously at the task of getting the "Site Report" finished by ~~or on~~ about Dave Ross's deadline. I will write in more detail later when I get on with the "further studies"--in July. In the meantime, I should tell you that I was interested in the information on Engelhardia (by the way, there really shouldn't be a "t" in it, though everybody seems to pu~~e~~tone in).

Regarding "bag 51": I recently took a three-day trip down to Virginia Tech to see Dewey McLean, who is one of the best dinoflagellate people in the world, to ~~have~~ him look at all of my various "bags", and they do turn out to be all dinoflagellates, as I had thought. Whether there is anything like them in the literature already named, however, is rather doubtful. In the meantime, I now refer to the item as "dinoflagellate ~~19-20~~". This is not exactly a "formal" name, but it does at least make the point that it is a dinoflagellate. For the moment, I think that that's the best we can do. The reason I used the joint number 19-20, is to underline that I think probably more than one species is involved, though all of the same genus.

Regarding the various steppe indecites, etc., I think that the best I can do is to send you a xerox copy of what I eventually send Dave Ross.

I have not done anything yet on the samples we picked up at Lamont together. That simply won't happen until I get these Site Reports taken care of.

I would indeed like the whole article by Briskin & Berggren.

Hunt Institute for Botanical Documentation

I appreciate your advice about the extreme changes of short duration and the necessity of working all samples down to core 15 in hole 380 and I will get to that also in July-August. At the moment, however, I just must get this thing based on the core-catcher samples writeen up. Regarding the possible article on "Quaternary Climate"--why should we bury that in the ICR report? In any case, yes, I would very much like to be involved in such a thing but I doubt we can get it out by the time of the September 1 deadline?! I think you should definitely be co-author, though I think it would be too sacrificial of you to be the junior author! We can argue about that later.

Sorry that I can't be more helpful regardigg further data at this time. I had been working in every available hour on the Black Sea stuff, but my emphasis had been to complete study of what I did on shipboard--that is, the core-catcher samples only. That is in itself a tremendous undertaking. I think it is enough for the Site Report, and I will then move on to processing the additional dozens (hundreds?) of samples trying to read them, etc. Best wishes to you from the somewhat harried Traverses.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT:jb

P.S. We are in the throes of building a new home, vacating the one in State College, putting all of our furniture in storage, etc., etc., in addition to my somewhat expanded church duties, and all of this couldn't have come at a worse time, BlackSeawise!

Hunt Institute for Botanical Documentation

28th December

Dear Alfred:

Thank you for your letter of the 18th. If I have been harsh in my last letter, I was prompted by a disappointment. With time, of course, I accept your decision without any hard feelings. I shall inform our administration and withdraw our application of the guest professorship. There will be no great effort.

I am pleased to learn of your sympathy with my anti-clericism I just had another outburst the other evening and generated some disagreeable arguments. ~~For some the church has been a great thing~~ I do admire your idealism to serve as a non-stipendiary priest. You are putting all those tax-supported "fat-cats" to shame. Yet things will not change here, except by a revolution, which, of course, brought worse evils to our society.

Concerning my loneliness, it will be there no matter what I do. Some has written once that loneliness is an incurable disease. However, I would rather characterize it as a congenital defect. I had it as early as I can remember. I still have it after two marriages, four children, and many many good friends. It will be with me when I go to my grave. So eventually one learns to live with it.

I do hope to see you soon at our post-cruise meeting, which probably will be in Moscow as Dave Ross wrote me. We can air our antieclericism in the bugged hotel room; Chairman B would be glad to hear it!!!!!

With best wishes for the New Year,

With love,

Ken

Hunt Institute for Botanical Documentation

Eidg. Technische Hochschule Zürich
Geologisches Institut

CH-8006 Zürich,
Sonneggstrasse 5

Ecole Polytechnique Fédérale Zurich
Institut de Géologie

9th December

Dear Betty and Al:

Al's letter of the 2nd filled me with disappointment and anger. I sat on the typewriter and composed a polemic right away, only to incur the angle of Christine, who found me again home late for dinner. I did not wish to speak about it in the evening. Then I had a dream. This morning the anger is gone, but the sadness seeps in.

In my polemic I accused Al of being an insensitive chauvinist, of being selfish. Naturally, my anger was motivated by my own selfishness. I had wanted so very much to have you here, not so much for science, for ETH, but for the need of having a friend. The truth is that I have no friend in Switzerland, and I am hopelessly trapped. Al may have sensed the melancholy in me when we were roommates on board Glomar Challenger. It is not getting any better, except I am more resigned to my fate.

If I ever had any genuine affection for the Christian Church, it can be traced to the many lunch hours Al and I had in Houston. During the last nine years when I could observed the "fatcats" in a tax-supported establishment, I grew more and more anti-clerical. Also it seems [redacted] that the clergy are more concerned about righteousness than about love.

Elisabeth was reading to Peter stories from an advent-calender prepared by a church organization for UNICEF. One after another, we heard stories of bigotry by well-to-do people from southern United States, from South Africa, from Spain, etc., etc., It was is a textbook of class-hatred, rather than stories of Christian love. It seems to me that the class-structure, anti-racism, become the dominant theme of the churches today, rather than the teaching of Christ. It is not at all difficult to teach children to hate, to protest against the unjust. What we need today is more understanding, more love, even for the bigoted. I remember only too well the story Al sent to Martin about Christ and the tax-collector (or "Zöllner")

Going back with Al's choice of words, if he has said that he is doing that for Betty, or for the children, I could understand. Or even if he wrote that he was running away with the church organist and therefore could not make honor his commitment, I could understand with affection. I was infuriated with the word "conscience," his conscience. It reminds me of a saying from Thomas Hardy: "There is so much littleness in trying to be great", and so much egoism as well. Of course, my anger was motivated by my disappointment, my own selfishness. Who am I to throw the first stone.

I have not yet contacted the administration to withdraw the nomination, however with the hope of an outside chance that Al might change his mind. However, there will be no embarassment for me. In fact, there is quite a bit of competition for the pie, and Al's withdrawal might make someone else very pleased. For this reason, please drop me a note, if your decision is final and irrevocable.

Tis with much sadness for a lost opportunity that I wrote. Best wishes for the holiday season,

Sincerely,

Ken

Hunt Institute for Botanical Documentation

Decembers3, 1975

Dr. K. J. Hsü
Geological Institute
Sonneggstrasse 5
8006 Zürich
Switzerland

Dear Ken:

Yours of 8 November regarding the site for the post-cruise meeting and other matters arrived the other day. As you will already know, and Dave as well, I had independently arrived at the conclusion that it would be a good idea to meet in the USSR if possible--it seems to me essential that I get together with Dr. Koreneva before this whole thing is done, and I can see no other way to do it. It might be more interesting to see the intallation at Königsberg (whatever they call it nowadays), but I suppose that might be difficult or impossible to arrange. In any case, this is just to say that your "strongest opponent to a Moscow meeting" had already changed his mind on that score! Doubtless, I will be hearing from you before too long about other matters which might also indicate my fickleness! Best wishes.

Yours very truly,

Alfred Traverse
Professof of Palynology

AT:jb

cc: David Ross

Hunt Institute for Botanical Documentation

December 2, 1975

Dr. K. J. Hsü
Geological Institute
Sonneggstrasse 5
8006 Zürich
Switzerland

Dear Ken:

Perhaps you had better sit down before you read the rest of this letter--I had a conference with my bishop and the other clergy who have an interest in the Huntingdon situation last night in Lewistown. I have had to make a decision regarding the parish work in Huntingdon, and, after hearing all of the various pleas and consulting with Betty repeatedly, I have decided that I can't turn it down and still live with my conscience. They need me badly there, they have nobody else on the horizon who can help them, and I just can't abandon ship. I am fully aware that this puts you in an embarassing situation. I had absolutely no way of contemplating that this might happen, but it certainly falls within the general category of "family" circumstances which we knew all along might conceivably arise. The least attractive part about the whole situation is not that we lose the year in Switzerland nor that I will have to commute to Huntingdon, but rather that I will have to commute to State College; that is to say, we must move to Huntingdon. I am sure that you will think me a nut, just as must people around here do, including my own children, but my priesthood is extraordinary important to me, and one can not accept the benefits of family membership without being willing to make some sacrifices. I am only sorry that you got caught in the cross-fire as it were.

Deep apologies. Best wishes to Christine (who might understand me?).

Yours very truly,

Alfred Traverse
Professor of Palynology

AT:jb

Hunt Institute for Botanical Documentation

Eidg. Technische Hochschule Zürich
Geologisches Institut

CH-8006 Zürich,
Sonneggstrasse 5

Ecole Polytechnique Fédérale Zurich
Institut de Géologie
Ken Hsü

Nov. 18, 1975

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

Dear Alfred:

I am a little more than upset by your letter of 7 November, not by your problems, but by the fact that the problems are "tearing you apart! " Perhaps my personality is basically different from many other people, including that of Ruth's who shared some of your traites of being indecisive. I simply cannot see that a person should let such trivialities stand in his way.

The basic question is if you want to take an initiative to lead your life, or let you be crushed and enslaved by circumstances. Of course, there are problems. Sure, there will be a fight for space. There would be fight in space even if you don't have a new building; they could take your old space away even if you are at State College if they wished. Spackman, especially if he is in charge of the new building, can fight for palynology. He is a capable person in that direction too, from what I learned from you. Naturally it would be nice if you are there to help him, but it will not be a catastrophe if you are gone. You can take my word for it. You just leave and tell them what you want. Spackman, if he is a friend, will fight and succeed. If he loses you can still fight when you go back. If you lose at the end, so what! You had fun while you were here!

Secondly, your parish assignments should pose no problem. So they offer you Huntingdon. They will offer you some other parish, perhaps less than 30 miles away next year. So if they don't offer you anything. It is their loss. You have more time for yourself and your family. To tell you in no uncertain terms, my dear Alfred, you just tell all those people your mind is made up. They can solve their problems, instead of burden you with the weight.

Finally, I sincerely believe that you and Betty should leave State College for one year, even if the heaven falls down. You would be in such a rut that the rest of your life you would not venture anything anymore, if you give up the chance now. What do we life anyway, for another hundred square feet of office space or to plan your life and do the things you and Betty want. (You owe Betty a sabbatical vacation, after all that she put up with you while you went to Austin to the Seminary!)

So the message from this end is clear. I shall speak to you if you do not come, but I really shall have a very low opinion of your ability to lead a creative life (instead of being a slave to the routines!)

With best regards,

Sincerely,

Hunt Institute for Botanical Documentation

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

7 Nov., 1975

Dear Ken—

Excuse the informality—it's quicker and more confidential. I appreciated yours of 31 Oct. with various sorts of news.

Already I am running into problems at this end, and Betty and I have decided we should keep you fully informed, rather than crossing the fingers and hoping the problems will blow away. We are both aware that you may never speak to us again if we screw you up after you have done so much.

THE PROBLEMS!

(Earth & Mineral Sci.)

1. Our college is constructing a new building. When I approached Wayne B. re my sabbatical, not a word was said about this. However, my associate, Bill Spackman (Director of Coal Research Section, in which I am official), has come to me and said that W. B. is very likely to try to grab my space — including the palynological

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in the old building
lab., in my absence. Furthermore, Spackman
(who has charge of construction of new building) says
it will be impossible for me to jockey for space
in the new building unless I am physically
present in State College. I could well end
up with no space to amount to anything in new
or old building. Spackman, therefore, is urging
me to reconsider my application for
sabbatical leave, although he originally
encouraged it.

2. As you know, my parish assignment in
Philipsburg came to an end in May. We have
been somewhat adrift since that time. The
bishop, however, is talking to me about
taking on the work in Huntingdon, a small
town 30 mi. from here. The parish is very small,
and a "non-stipending" priest would be
the answer to their prayers in H. If we
take on this work we must move to Huntingdon,
and commute to U. Pk.
presumably next June 1. If I turn down this
"opportunity" I'll be a parish with nowhere
to function as a priest. It is difficult. I
have not told the people in the church about
the Zürich possibility. I obviously can't take
the Huntingdon assignment and go to Zürich too!

Hunt Institute for Botanical Documentation

All of this is tearing me apart! Please let me have the benefit of your counsel as soon as possible.

Maybe going to Finish would start a whole new life for us?? (But the terms of the sabbatical are that I must return to PSC for 2 yrs. or refund all the sabbatical salary!)

My apologies, dear old friend, for laying this on you.

Love,

Al

Hunt Institute for Botanical Documentation

Eidg. Technische Hochschule Zürich
Geologisches Institut

CH-8006 Zürich, O ct. 31, 1975
Sonneggstrasse 5

Ecole Polytechnique Fédérale Zurich
Institut de Géologie

Ken Hsü

Dr. A. Traverse
Pennsylvania State University
Dept. of Geosciences
Deike Building
University Park - Penn . 16802
USA

Dear Al:

Thank you for your letter of the 24th. This is just to inform you that the Faculty of the Earth Sciences recommended at his meeting yesterday the request to invite you as our Guest Professor for the next academic year (oct.1, 76 - Sept. 30, 77) be forwarded to the administration. So the wheels is moving, and as I wrote, it will be a matter of time before the appointment comes through.

Concerning school terms, the customs here is quite different from that of the U.S. Schools do not go in session on September 1. In Kanton Zurich the school year starts in late April after a 2- to 3-week Spring vacation. The Summer vacation begins in late July and ends in mid-August. The Autumn vacation begins in early October for two weeks.Then there will be Christmas vacation (10 days or so) and sport vacation (two weeks in February). The particular relevant date to you will be the mid-August date. Your plan to be here on August 1 is fine then, so that Celia can start at the beginning of a quarter. However, it is really not that critical, as she will be coming in the middle of a much-punctuated academic year anyway. We recommend that Celia goes to public school where she learns German and learns the people. Most American guest professors preferred this approach. However, some preferred to send their children to private American (or French) schools. There the tuition fee is high, and you do not have contact with the "natives". (Public schools are good and cost-free) I do not think you would want to do that. Celia should have a few German hours before she comes and she should be able to understand and speak within a month or so.

If you could find a freighter, that would be a good idea. After your gear arrives at an European port, the Swiss travel-agent Kuoni (Company) could arrange to have it transported to your Zurich address (Institute or your apartment). Their address is : Kuoni Transport AG, Neugasse 10, 8005 Zurich.

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About the cyclic sedimentation problem, the cycles are only about 5 to 8 cm thick. It will be quantitatively difficult to do sampling more detailed than 5 or 6 samples per cycle. The best cycles are core 379A-58/4 and 380A-14/3. See enclosed xerox copy of pictures. We have sampled the intervals 26-50 cm from the former and 1-16cm from the latter. I suggest that you take half of the materials from the working half (namely 1/4 of the whole core) from cyclic intervals of these two cores. (Russians have taken some of the intervals already this way, and you could not take the remaining quarter at those intervals!) You could decide how big a sample you need to give you the necessary information.

As you see each interval is represented by three subunits: A light chalk interval with some 90% $CaCO_3$, an intermediate interval with burrowing (with perhaps mechanically mixed flora), and a lower interval of dark gray mud and silt (with some 30% $CaCO_3$). We got some chemical data which suggest that the chalk is deposited in a lake similar to Lake Zurich, but bigger, and slightly brackish. If you need more information, please let me know.

The post-cruise meeting will probably be at Heidelberg in late April, according to the last letter from Dave Ross.

Hope to hear from you soon. With best regards,

Sincerely,

Ken

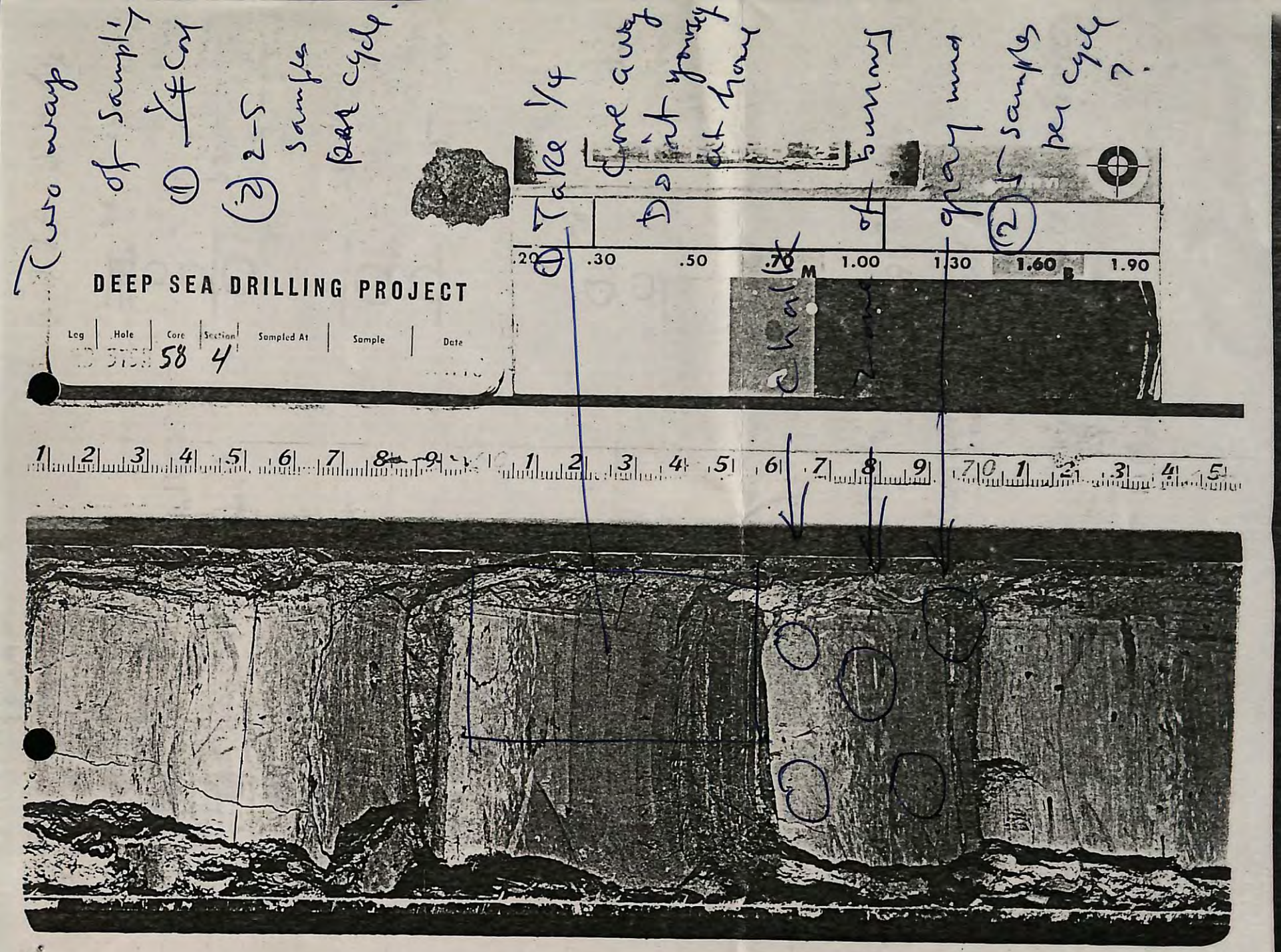
KJH/ch

Hunt Institute for Botanical Documentation

You might also want to sample this core.

I can't find a picture of 380A 17/3.

Plant Institute for Botanical Documentation



Hunt Institute for Botanical Documentati

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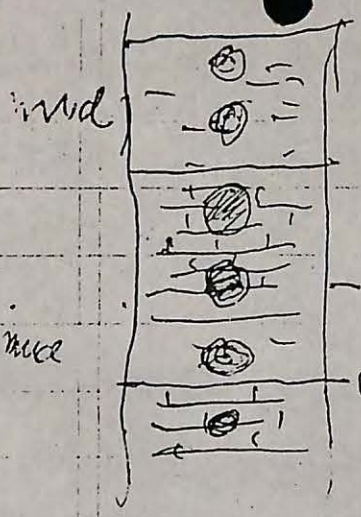
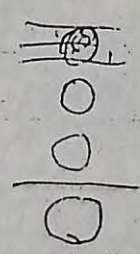


379A 5D/4



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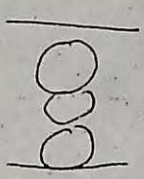

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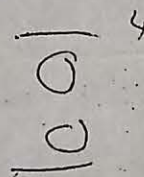

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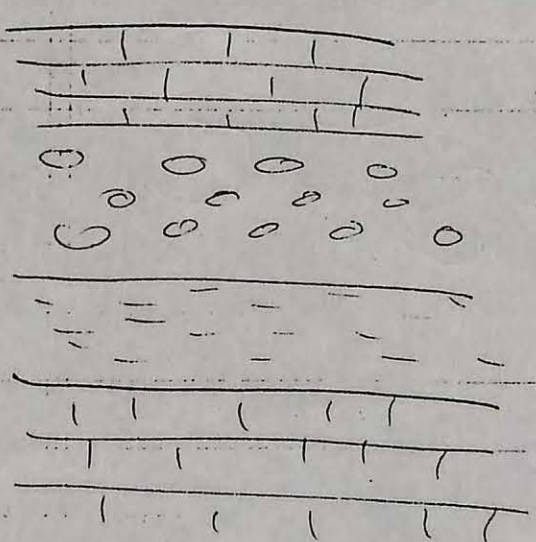

Chalk 90% $CaCO_3$

burrowed mud (insect larvae)(?)

mud & some silt 30% $CaCO_3$

Chalk

Instituto de Botanica Documentation

October 24, 1975

Dr. K. J. Hsü
Geological Institute
E.T.H.
CH-8006 Zürich, Sonneggstrasse 5
Switzerland

Dear Ken:

Thank you very much for yours of 15 October which seems to have taken less then a week to get here! I am glad that my various sorts of "promises" were sufficient. We started out thinking that this was a one-in-ten shot, then moved it up to about a 50-50 chance and are now seeing it as a probability. It is a bit difficult to make real plans at this point, except to <u>try</u> to avoid other (especially church) obligations. We of course are doing all sorts of family consultation about what to do with our house, dog, etc. I won't bother you about that except to let you know that the problems are being discussed, with no solutions to any of them as yet! We are thinking about a freighter for the crossing because of my gear. We should make a reservation soon (requires a deposit). Is that safe?

Regarding the academic year, I could have put in my request for sabbatical leave with any dates I wanted to, of twelve months duration. I don't have my files with me here at the moment, but I sent you a copy of the original application. I believe the dates could still be adjusted because they don't effect any of my firm obligations here. In other words, I could be with you whatever time seems appropriate. I would guess from a personal point of view the most convenient thing for us would be to come sometime in August in order that Celia could get established, and into a school. (What sort of school?) I am presuming that schools probably start in September--right? Why don't we say 1 August for arrival if Celia's school would be going into session 1 September and 5 September if her school wouldn't start until mid-September? Let me know how that sounds. I would guess that you could so ahead and make the apartment reservation with this information.

Hunt Institute for Botanical Documentation

Regarding the cyclic sedimentation problem--I would be delighted to make the detailed study that you suggest. However, it seems to me ten samples over five cycles does not represent very close sampling for the sort of data you have in mind! I would be quite happy to go to Lemont to do some sampling. In fact, it would be quite educational for me, but I believe I want a little more precise instructions about the kind of sampling you think I ought to do before I undertake it. I will be awaiting further info from you!

Godd to hear some news about the leg. 42 post-Cruise meeting. It should be, among other things, fun from a personal point of view.

Thanks for all the effort you have been putting into this "year in Switzerland" project. I expect that it will be a lot more nuisance to you before you are through, and I really wonder whether you knew what you were getting into! The technical aspects of it will be no picnic for us either. I hope that the compensations will justify the project. Best wishes from both of us.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT:jb

Hunt Institute for Botanical Documentation

Eidg. Technische Hochschule Zürich
Geologisches Institut

Ecole Polytechnique Fédérale Zurich
Institut de Géologie

Ken Hsü

CH-8006 Zürich, Sonneggstrasse 5

Oct. 15, 1975

Prof. A. Traverse
The Pennsylvania State University
Palynological Laboratories
Deike Building
University Park - Pennsylvania 16802
USA

Dear Al:

Thank you for your letter of October 3. You took the expression "final promise" too seriously. Naturally, what you wrote me was sufficient. Nothing is absolutely final in this world, and there are many many unforeseen circumstances.

Anyway, the Institute agreed to invite you to be our guest professor of the academic year 1976-1977, and we shall request that you be compensated at 50,000 swiss francs for the year. There are some other formalities, but there is no doubt that I can push through the whole thing. You should plan for the coming trip. Beware, however, that red tapes take time. Please have trust in me, as it will be sometime in the Spring, perhaps the time I see you at Leg 42B cruise meetings before we can get the final,official appointment.

One minor problem is the difference in academic year. I do not know when does yours start. Ours starts officially on October 1. Nevertheless, this is again a matter of formality that your appointment may be written as October 1 to September 30. You can come and leave anytime that is convenient with you, and I shall solve the knotty immigration problems for you.

Yes, I think that you have more than 50% chance to get a Guggenheim if you send one in. Send in one now. Emphasize that the work has to be done in Switzerland, because you have to work on materials from Swiss Lakes and to consult local experts on European Quaternary vegetations.

My secretary will reserve an apartment for you. Could you tell us when do you plan to be in Zurich? July 1? August 1? September 1? Please notify me immediately so that an earlier reservation can be made. Concerning your question about 1000 dollars for two-bedroom luxury apartment, the answer is yes! But lodging is out of proportionally expensive in Switzerland because of land speculations, etc.

I am working on the problem of cyclic sedimentation of gray mud and chalk in Black Sea cores with stable-isotope and other methods. I would like to ask you if you could do some detailed studies (say 10 samples over 5 cycles of chalk and gray mud) to see if there is any climatical variations? Our cores from Swiss lakes show similar lithological cycles and they

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represent fluctuations of climates (e.g. Old Dryas, Alleröd, Young Dryas, Atlantic, etc.) Perhaps you could find fluctuations in pollen composition in those Black Sea cycles. If you could study them, I shall ask John Fiske to send you some samples. (Or better still, you go to Lamont and sample the cycles yourself in cores 380A-14/3, and in cores 379-58/4 and in several other cores).

Leg 42B post-cruise meeting will definitely be in central Europe, Heidelberg or Zurich. It will probably be in early April. I hope to see you there then, even if just for a brief weekend in case the meeting is scheduled for Heidelberg.

With best regards,

Sincerely,

Ken

KJH/ch

Hunt Institute for Botanical Documentation

October 3, 1975

Dr. K. J. Hsü
ETH
CH-8006 Zürich
Sonneggstrasse 5
Switzerland

Dear Ken:

Yours of 18 September came during my recent absence on field work with a graduate student in North Dakota. (Golden Valley Formation--Paleocene-Eocene; very interesting)

Regarding my "final promise"--I had thought that my last letter was sufficiently explicit in this direction but perhaps hot so. I have applied for a sabbatical leave, and all things being to our mutual agreement, I will definitely accept the offer to be with you for academic '76-77. Incidently, if it does work out that we can be with you, I would expect that we would stay most of a year. In fact, it is hard to see how I could get much done in less time.

I don't know whether what I am communicating is sufficient for your purposes, but am perplexed as to how I can say more. My degree of committment can not be expected to exceed that of ETH. I gather that you cannot promise me 100% at this point that you will be able to offer the kind of package which got this conversation started. On the other hand, I cannot promise you 100% of my acceptance, because it is contingent on various factors--1. Will ETH be able to provide the sort of salary we have been discussing? 2. Will my application for sabbatical leave be approved? 3. Will my health and family circumstances continue to permit consideration of such an adventure?

So--let me say again, that I have done everything at this end that I possibly can to make it possible to go, and I will accept your invitation, providing only that satisfactory arrangements can be made. I certainly can report that never before in my academic career have the various circumstances so favored a sabbatical, and it is also true that it is unlikely that I will have another time in the reasonably near future when I could even consider it. For example, a year ago I had extra-

Hunt Institute for Botanical Documentation

curricular obligations from which I could not have escaped, and I no longer have such an obligation. Also, looking ahead, Celia will be in high school the year after next, and it would be difficult for us to be out of the country--to mention just one factor.

What more can I tell you?--I feel that I have said it as about as clearly as I can. I will accept if an offer similar to the one you outlined earlier is made to me.

Do you feel there is a real possibility that I would win a Guggenheim? If so, please send me perhaps a little more detailed information about why you think I should spend the year in Zürich--I can imagine they might well argue that Woods Hole or La Jolla would make more sense? Perhaps you should give me further pointers about the techniques of applying for a Guggenheim. I remember that you talked to me about it several years ago, but the matter is pretty stale in my mind. The forms I have around here seem to imply that I may have missed the deadline for 1975.(Ištáma sc@s@obérám á@7ithisIn any case, I am at this moment writing to the Foundation for further information.

You mentioned in Your letter of 18 September the possibility of an ETH apartment at 1/3 to 1/4 the price of luxury apartments in the center of town, but state that a price of such an apartment is 1,000 fr. per month. Merciful heavens, that's $400 a month! Are you really saying that the luxury ones are over $1,000 a month!? In any case, we would indeed be satisfied with a two-bedroom apartment of the economy type.

Man, this is a complex and confusing letter!

I guess that's enough for right now. I will also send you a very brief, more formal letter which you can use as acknowledgement of my willingness to accept. Best regards as always!

Yours very Truly

Alfred Traverse
Professor of Palynology

AT:jb

Hunt Institute for Botanical Documentation

October 3, 1975

Dr. K. J. Hsü
ETH
CH-8006 Zürich
Sonneggstrasse 5
Switzerland

Dear Ken:

This is to acknowledge your letter of 18 September, which arrived during my absence from the office, on field work in North Dakota. I would like to say in answer to your request for formal commitment that I would definitely accept the offer to be a visiting professor at ETH for academic 1976-77, if the offer includes 50,000 fr. for salary. As I see it, that sum would cover my financial requirements, based on an average conversion from francs to dollars during the past year.

Hoping that this will go through and looking forward to the research and teaching opportunity with considerable anticipation, I am with best wishes

Yours very truly,

Alfred Traverse
Professor of Palynology

AT:jb

Hunt Institute for Botanical Documentation

Eidg. Technische Hochschule Zürich
Geologisches Institut

CH-8006 Zürich,
Sonneggstrasse 5

Sept. 18, 1975

Express

Ecole Polytechnique Fédérale Zurich
Institut de Géologie

Prof. A. Traverse
Pennsylvania State University
Deike Building
Palynological Laboratories
University Park - Penns. 16802
USA

Dear Al:

Thank you for your letter of September 12 which I read yesterday after I came back from Iran.
I am just jotting down this before I have to leave again for New York.

I understand very well your need. I shall certainly see to it that you will not be bankrupt after a visit to Switzerland. The stories you heard are largely correct. Switzerland is horribly expensive to the Americans, when the dollar rate is down (It was down to 2.45 francs per dollar last Spring, but is now up to 2.65 sfr. selling) However, there are ways that your expenses could be cut down considerably. For example, we have rented apartments provided by ETH (at a distance of about 2o minutes bus ride from our Institute or tram ride from the city), which is approximately 1/3 or 1/4 the price as the luxury apartments near the center of the town. A two-bedroom apartment (Drei-Zimmer) apartment costs approximately 900 / 1000 Sfr.

If you make up your mind now, we shall reserve an apartment for you (2- or 3-bedroom?). Such privileges are probably not enjoyed by your sister, especially if she has to live in Geneva, which is the most expensive city in the world for lodging.

Concerning your financial need, I hope I could get the minimum you need, which, let's say, is 18,000 dollars or 47,700 sfr at the present exchange rate. I shall ask for a round sum of 50,000 sfr. for the twelve-month year*. To quote a figure in swiss francs would give you a cushion you shall need in this time of floating exchange rate. If dollar price goes up, you are getting less in dollars but you will find the expensive francs come handy (as Bill Brace of MIT found). If dollar goes down, you could convert more cheap francs from your dollar salary.

*

Our academic year is short, the winter semester is about 4 and half and the summer about 2 and half months. Your teaching load will not be heavy as I indicated in my last letter.

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Hunt Institute for Botanical Documentation

The cost of living is high, because of the dollar exchange rate. When you earn francs you will find that our inflation rate is not as high as in the States. This year the inflation rate is down to about 5%, and there will be no need of cost-of-living adjustment for a short-term appointment especially if we give you already a little more in the first place by rounding up the figure.

I am taking steps to bring up the question of an invitation to you formally in our next staff-meeting after the Winter Semester starts. I would like to receive from you a definite committment that you will accept the appointment if we offer you an appointment according to your terms as interpreted in my letter.

Looking forward to hearing from you soon.

With best regards,

Sincerely,

Ken Hsü
Professor of Geology

c.c. Prof. Dr. H.M. Bolli, Director, Geological Institute
Prof. Dr. R. Hantke

KJH/ch

Hunt Institute for Botanical Documentation

Eidg. Technische Hochschule Zürich
Geologisches Institut

CH-8006 Zürich,
Sonneggstrasse 5

Ecole Polytechnique Fédérale Zurich
Institut de Géologie

Sept. 18, 1975

Prof. A. Traverse
Pennsylvania State University
Deike Building
Palynological Laboratories
University Park - Penns. 16802
USA

Dear Al:

Enclosed is a semi-official letter. This is my personal letter. I am optimistic that you will get the sum I ask for if the appointment gets through. I am also optimistic that you will get the appointment. My batting average at the ETH has been close to 1,000, if that should be some reassurance for you.

Don't worry about the 12-month appointment business. It is for administrative purpose, especially for immigration authorities if you intend to stay for a year instead of 9 months. We gave Brace of MIT 8-month-appointment, even though his physical presence was probably 3 months during the summer semester.

Finally, please make up your mind and give me the final promise. I need it for my sake. I had my hands burnt once. Not only I hate to engage in "Leerlauf", but also my credibility would suffer if I cannot deliver after I make all the moves.

With affection,

Sincerely,

Ken

p.s. Thanks for your card to Christine and me. We celebrated our anniversary on the 16th after I came back from Persia.

p.p.s. For insurance's sake, you could send in a Guggenheim application for the same amount as you need from ETH. If you don't get it, fine If you do, you can live in style in the manner of Guggenheims, courtesy of John Simon Guggenheim, Jr. Act now !!

encl.

KJH/ch

Hunt Institute for Botanical Documentation

September 12, 1975

Professor K. J. Hsü
Geol. Inst., E.T.H.
Sonneggstrasse 5
CH-8006 Zürich, Switzerland

Dear Ken:

Well, yours of 20-VIII-75 seems to have moved me a long way in the direction of a sabbatical--Wayne Burnham has approved in principle. Deppite the tremendous wrench it will be in our lives (what to do with our house, pets, plants, etc.?), it is an adventure on which we should probably embark if possible. Certainly it would be a good thing for me professionally. ((I do hope there will be very few of those 17-hour "Glomar Challenger" days, however!) I will enjoy working with all of you on Black Sea and other sediments very much! I have already applied for sabbatical leave, because the deadline for '76-'77 is close at hand. Of course, I am making it clear in the application that it is contingent on a final, formal invitation from you all, and on conditions satisfactory to me.

Which brings me to my only real reservation at the moment: financial. A couple of American professors returning from sabbaticals in Switzerland (one is my sister) have told me that the cost of living nearly ruined them. I don't want to make money on my Swiss scientific adventure, but I am not in a position to lose much on it either. My present salary here is $29,200 per annum. I will get somewhat less than 1/2 of that for the year of sabbatical. The reason it would not be exactly half is that part of my salary is from NSF "summer salary" funds that I will not get if I go on sabbatical--I will get 1/2 of my base pay, which is $27,000. In order to maintain my position (3 kids in university), I would need from E.T.H. (or from some) sources at the very least $29,200--27,000 = $15,700, plus travel expenses for my wife,

Hunt Institute for Botanical Documentation

one teenage child, and a reasonable amount of baggage (including some of my slides, notes, etc.) for a year's stay. There are two other aspects of the financial picture that I must mention--I make about 2,500-$3,000 per annum on consulting, which would, of course, not be possible (at least very improbable) if I were on sabbatical leave. My real annual income at the moment is therefore about $32,000. Also, there is the matter previously mentioned of rumors I hear about the Swiss cost of living, which is another way of saying, the present poor rate of exchange on American dollars. Will the compensation we are discussing be calculated with a cost-of-living adjustment?

At the moment those are the questions that come to mind. It seems enough for present purposes.

I am enclosing a copy of my application for sabbatical leave because it contains nearly all of the information as to "vita" that you might want (biography, bibliography, etc.). The only other information you wanted was with regard to the proposed accompanying family members (Betty and Celia). I am also enclosing a sheet about them.

Best wishes.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT:jb

Enclosures: various biographical forms, etc.
cc: Dr. Wayne Burnham

Hunt Institute for Botanical Documentation

Eidg. Technische Hochschule Zürich
Geologisches Institut

CH-8006 Zürich,
Sonneggstrasse 5

Ecole Polytechnique Fédérale Zurich
Institut de Géologie

August 25, 1975

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

Dear Al:

Thank you for your letter of 31 July. I am pleased to learn that you are in principle in favor of the idea to arrange your sabbatical here in Switzerland. I have discussed the question with various colleagues in the Department, we would like to get concrete steps before we submit a formal request for a Guest Professorship.

We would prefer that you spend a year here. Your duties will consist of two semester-courses, in English if you prefer, on pollen analyses, plus some seminar and colloquium talks. We expect to have your advice on Quaternary research of the sediments of Swiss Lakes, and welcome you to work on some of the lake cores. Since my associates and myself are planning a comparison of the sedimentology of our lake sediments with those of the Black Sea, it would be interesting for you to do some comparison on pollens and spores. Furthermore, there might be a person starting on a postdoctoral research on the pollen analysis of lake sediments. If so, we expect your presence would be of great benefit to him.

It is our custom now to pay our Guest Professor the difference between his normal salary and his sabbatical salary, plus some travel costs. Could you give me an idea of your financial need after you have consulted with your Department?

Finally, we need your curriculum vitae, plus some information concerning your family, especially those members who are going to accompany you. The information is necessary to secure visa and work permit for you.

After I receive your committment and other information, I shall submit with Professor Hantke a formal application to invite you for the academic year 1976-1977. We should send in the request in November or December so that we could get a definite answer in the Spring. There are still many ~~tapes~~ ties to be cleared, including the problem of securing a work permit for you, so it is no longer too early to get moving. I am optimistic about the final outcome, because our administration is in a position and will support a good cause.

Looking forward to hearing soon from you.

Sincerely yours,

K. Hsü

Kenneth J. Hsü
Professor of Geology

c.c. Prof. R. Hantke

Hunt Institute for Botanical Documentation

Eidg. Technische Hochschule Zürich
Geologisches Institut

CH-8006 Zürich,
Sonneggstrasse 5

August 25, 1975

Ecole Polytechnique Fédérale Zurich
Institut de Géologie

Ken Hsü

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

Dear Al:

Enclosed is a semi-official letter , which should give you a broad outline of some boundary conditions. You might also use this letter to approach Wayne Burnham (if he is still Chairman) in connection with your request for a sabbatical leave. As I wrote, the time is urgent and I hope to hear from you in not too distant future.

I was not surprised by your negative impression of the USSR , but I was a little puzzled by the restriction placed upon your movement. Christine thought that you might be a person under suspicion because of your connection to a church. However, I wonder if you might have misinterpreted some of the gross inefficieny and the incompetence of the Intourist as deliberate acts of restriction or harassment. I must emphasize that Christine and I were free to move about (within the capacity of the available public transportation system) in Moscow and in Leningrad though we did suspect (were almost sure) that they did not want us to travel on the train during the daylight from Moscow to Leningrad. We also found that the atmosphere is far less oppressive in Bulgaria and Romania, where we felt almost completely free in moving about.

I shall be in New York in late September. Much as I would like to visit you and to discuss with you about your Black Sea results, I am afraid that I should not prolong my absence from home by an additional trip to State College. Is there any change that you might want to come to Lamont to obtain some additional Black Sea core during the week September 23-29? If so, we might see each other at Palisades then.

With many greetings,

Your friend,

Ken

Ken

KJH/ch

Hunt Institute for Botanical Documentation

529 Deike Building
Pennsylvania State University
University Park Pa. 16802

Hard letter from Dr. Ch'i Ying re the Ukrainian visa - Thanks for telling me about it. AT

31 July, 1975

Dr. K. J. Hsü
Eidg. Technische Hochschule Zürich
Geologisches Institut
CH-8006 Zürich
Sonneggstrasse 5
Switzerland

Dear Ken:

Betty and I just hauled in from Iceland. I find yours of 10 July on my desk. I am about to dash out to Illinois to see Martha in her current role (she has the lead in a musical), then to Michigan to see my mother. There really isn't time to answer your letter properly (I had been planning to write even if I didn't hear first!), but I must get something in the mail to let you know how much I appreciated having you as a roommate on the GC, the opportunity to be there (which I owed largely to you) and the experience--what an opportunity!

The trip to USSR and Czechoslovakia was far too powerful an experience to be summarized here. My reactions were quite different from yours but equally negative. I found it profoundly disturbing. Through my church connections I had experiences that gave me insights into the oppression that still make me have bad dreams and sleepless nights. I was not allowed to go to Moscow to see Dr. Koreneva, though it was called for on my visa and though her co-workers at the Congress said that I was expected. I believe poor Dr. K. went to the airport to meet me. Intourist, however, steadfastly refused to permit me to go. I was taken to the labs in Leningrad after much hemming and hawing, but it was handled on such a formal basis as to be laughable. A driver and "interpreter" (not needed) met me at 10:00. At precisely 12:00 he reappeared, and I was whisked away. Didn't even get to peer in a micrscope!

I will share your renewed invitation to visit Zurich with Betty. Her appetite for Europe is now whetted by the recent visit (we had a great time--even loved Iceland and want to return!). I am more favorably disposed than last time because I have divested myself of the regular church obligation and think I'll keep it that way. That reduces the variables. Martha will be through with her education. John will be nearly through and possibly could arrange to do a term or so at the university in Switzerland. We'll talk about it more. In the meantime, the enthusiasm (for the visit) of your colleagues is very encouraging. I have a sabbatical coming, and I don't see why ~~that~~ there should be a problem if I were to apply soon.

Much more later (I hope). Pardon the typing. I came home to the chilling news that my secretary has resigned.

Hunt Institute for Botanical Documentation

February 10, 1975

Dr. K.J. Hsü
Geological Institute
Sonneggstrasse 5
8006 Zurich
Switzerland

Dear Ken:

Thanks for the copy of Kedves' book--I know him. He does excellent work. Apparently, this was a review copy you all received and which is surplus? I appreciate having it very much.

Also got your Christmas card and message and photo of my handsome godson, Martin. It arrived 25 January, having been missent to another part of the country. You mentioned the cruise, and I will call Dave Ross first part of next week about it--but I thought it must be a dead issue.

I probably am going to the International Botanical Congress in Leningrad in June-July. It is tempting to have Betty meet me in, say, Zurich on the way home, but with three kids in college or grad school, the $ may be hard to come by!

Best wishes to all.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/vsi

Hunt Institute for Botanical Documentation

Preliminary Arrangements sent on 31-VII-75

Eidg. Technische Hochschule Zürich
Geologisches Institut

CH-8006 Zürich,
Sonneggstrasse 5

July 10, 1975

Ecole Polytechnique Fédérale Zurich
Institut de Géologie

Ken Hsü

Professor A. Traverse
Dept. of Geology
Pennsylvania State University
State College
University Park - Penns. 16802
USA

Dear Al,

Sorry that we did not get together at Istanbul. However, we were all very tired. I would like to look into the possibility to visit you at Penn State sometime, especially after you have done some work on Black Sea samples.

I am writing to explore the possibility that you come to us as a guest professor during the Academic Year 1976-77. I have discussed the idea with my colleagues in the Institute, and they are all very enthusiastic about it. We shall be getting quite a bit of Quaternary cores, and you could continue to work on your Black Sea samples when you are with us. There should be no problem in funding (an eternal optimist, I am, and I am rarely unrealistic!), we should make up the differences between your sabbatical and your full salary, plus additional travel expenses for you and your somewhat reduced family. I do hope very much that you could arrange from your end. If you need a strong letter from me to Wayne Burhnam, I can write one for you and I should carry somewhat weight nowadays, I hope.

I am rushing off to Romania now and will be back in mid-August. Meanwhile, please let me know how did your trip to USSR turn off? And Betty enjoyed here European sojourn? With many many greetings,

Your friend,

C Hsü

for Ken

Hunt Institute for Botanical Documentation

June 10, 1974

Dr. K.J. Hsü
Geologisches Institut
E.T.H.
Sonneggstrasse 5
CH-8006 Zürich, Switzerland

Dear Ken:

Thanks for the copy of the letter to Dave Ross. I am impressed with your progress in the matter of "Leg 42B". It almost sounds as if I have a very good chance. No matter how it comes out, I will have appreciated what you have done and hope that I can fulfill your expectations if I do get to go along.

Thank you so much for your help. Best wishes to all of you.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/vsi

Hunt Institute for Botanical Documentation

April 29, 1974

Prof. K.J. Hsu
E.T.H.
Geological Institute
Sonneggstrasse 5
CH-8006 Zurich, Switzerland

Dear Ken:

Thank you for yours of 22 April. I am sorry that I didn't get to Woods Hole. I agree with you that it would have helped the cause. Without checking the files, I can't recall whether you actually invited me for a particular day there or not. I really don't think you did. "No use crying over spilt milk."

Now, with regard to the questions that you raised in your letter:

1. Last summer I quite successfully used field processing in motel rooms on the sections we collected during the same day. You can do a better job and get a slicker preparation the more time you have, of course. But it is possible to process a sample of relatively unconsolidated material in an hour; if you're talking about fairly hard sedimentary rock, such as a typical Triassic shale from one ofthe basins around here, youtre looking at more like 2-3 hours. Naturally, one would want to be set up so that a number of samples were being processed simultaneously. There are practical limits in a restricted space as to how many one can effectively process simultaneously--perhaps something like 8 (it depends on laboratory space available, as I suppose is obvious).

2. This question is really somewhat related to question no. 1. If the sort of sediment that we are expecting will be mostly rather unconsolidated clays and silts, I would devise a technique of preparation that didn't use HF at all. However, if it is harder material, it would be important to have the possibility of using HF. I rather suspect that what would happen is that HF would be useful in some cases and not in others. It is quite safe to have HF on board. It is stored in plastic bottles which are not as "dangerous" as glass bottles in which, say, concentrated nitric acid is kept.

Hunt Institute for Botanical Documentation

There is no question that concentrated nitric is more seriously "unsafe" for personnel than is HF. For example, I had a student get a considerable quantity of HF in his eyes not too long ago, and except for acute discomfort for a couple of days he suffered no serious after effects. Had the substance been con-nitric or con-sulfuric, he would be blind today. HF is not explosive, it is not an oxidizing acid and therefore not as dangerous in many ways as quite a few other substances that are routine laboratory has around. It does have to be stored in plastic bottles, and one has to be fairly careful about how it is disposed of. But, compare what I say here with the answer to question no. 1. I think it could well turn out that we would use relatively little HF. Would be a handicap to have none around.

3. The question of whether you need a fresh water diatom specialist more than you need a pollen/spore specialist dppends on what kind of information you want. I certainly can't substiate from the one core which I ran from the Woods Hole stuff that the amount of information available from the pollen/spores is terrific and extremely interesting. It is true that it won't tell you as much about circumstances in the water itself as the diatoms will, but it certainly does yield a hell of a lot more information about the whole basin of deposition than diatoms every will! Naturally, I am not an unprejudiced observer, but do feel that pollen/spores have more to contribute to a broader range of prblems.

I gather that you think I should write Dr. Edgar directly regarding participation in the cruise, so I am doing so. In the meantime, thanks for the help and encouragement.

Thanks also for the good news re Mertin! Best wishes to all the Hsü's!

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/vsi

Hunt Institute for Botanical Documentation

Eidg. Technische Hochschule Zürich
Geologisches Institut

CH-8006 Zürich, Sonneggstrasse 5

Ecole Polytechnique Fédérale Zurich
Institut de Géologie

April 22, 1974

Prof. A. Traverse
The Pennsylvania State
University
Dept. of Geosciences
Palynological Laboratories
Deike Building
University Park - Penns.
16802

Dear Al,

Thank you for your letter of March 11.
It would have been helpful if you did come to the Woods Hole, because I was the only person on the panel to argue in favor of pollen work on board ship. They brought out several technical questions I could not answer:

(1) If the speed of getting pollen results are so tardy that it would be useless to try it on board ship. How fast could you get one sample processed? 3 hours? 1 day? 3 days?

(2) If we could store HF on board Glomar Challenger. If so, how are we to persuade the DSDP that it is "safe" to have HF on board? (I personally do not know why it is not "safe").

Finally there is the question if we need more a fresh-water diatom specialist, rather than a pollen specialist on board.

Could you give me some detailed information on those questions?

Yes, Dr. N.T. Edgar at DSDP, Scripps Institute of Oceanography, UCSD, La Jolla, California, is the Chief Scientist of the Project and he is mainly responsible for staffing. You need in any case send in a formal application and fill out the application forms. The cruise (now designated Leg 43B), by the way, has been postponed till May 17 to June 13, 1975, and there will be plenty of time for persuaion and preparation. However, I am not as optimistic about your participation as I was when I first wrote you. (Besides, I am stepping down as Co-Chief of the Black Sea drilling for political reasons, although the DSDP may delay the formal change until the staffing is done). On the other hand, you should write Edgar and present some arguments to help your cause; you could elaborate on the reasons why we need ship board palynologist on board Challenger for Black Sea drilling which is mainly aimed at one Hole in the middle of the Basin to penetrate some 1000 meters of the Quaternary!

./2

1020/1 - 37104/10

Hunt Institute for Botanical Documentation

Martin has finished his primary school with flying colors. He will enter the 7th grade next week.

With best regards,

Sincerely,

Ken

KJH/ch

Hunt Institute for Botanical Documentation

Marhh 11, 1974

Dr. K.J. Hsü
Geologisches Institut
E.T.H. Sonneggstrasse 5
CH-8006 Zurich, Switzerland

Dear Ken:

Thanks for yours of 4 March, with more information regarding the possible Black Sea work. In the meantime, I have been to Washington in connection with promoting my current proposal to continue my Black Sea efforts, and the Oceanographic Section head was interested in the possibility that I might get to take part in that cruise. He said, however, that I should be making application to a person named Edgar at Scripps. I gather that formal application to Dr. Edgar is not necessary under the circumstances?

I have no plans to attend the AAPG this year--travel is really being discouraged these days, and I don't see how I could get up to Woods Hole for March 26-27--unless you think that my presence there might be a deciding factor of some sort. It would be difficult in terms of my teaching obligations but always possible if absolutely necessary. It would be great to see you, however, and if you can think of a place in your itinerary where I could dash off for a day and meet with you I would be most interested in doing so.

Better close this in order to get it into the mail. Thanks in advance for what you are trying to do for me. Best wishes as always from Betty and me.

Yoursxvery truly,

Alfred Traverse
Professor of Palynology

AT/vsi

Hunt Institute for Botanical Documentation

Eidg. Technische Hochschule Zürich
Geologisches Institut

Ecole Polytechnique Fédérale Zurich
Institut de Géologie

CH-8006 Zürich, March 4, 1974
Sonneggstrasse 5

Prof. A. Traverse
The Pennsylvania State
University
Deike Building
University Park Penns.16802
U S A

Dear Al,

Thank you for your letter of the 19th.

Yes, we mean pollen and spore man. We may also have a nannofossil specialist. The plot is thickening concerning the ship berths, but I shall do my utmost to get you there.

I shall be in the States for the Med Panel meeting at Woods Hole on March 26-27th, and might stop by New York quickly before proceeding to Houston and then San Antonio AAPG. What are your plans for the Spring? Any chance for a get-together in WHOI or San Antonio?

Glad to learn more about the Franciscan. Yes, I heard that the Cenozoic are involved and am looking forward to seeing your new results!

With best regards,

Sincerely,

for Ken Hsü

1020/1 - 37104/10

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
865-6543
865-2342

February 19, 1974

Dr. K.J. Hsü
E.T.H.
Geologisches Institut
Sonneggstrasse 5
CH-8006 Zürich, Switzerland

Dear Ken:

That (of 12-II-74) was what I call an exciting letter! Since it took a week to reach my desk, I reply by return airmail, and even wonder if I shouldn't phone! OF COURSE I would take the Glomar Challenger opportunity, if offered! I guess we have discussed already my bit of preliminary palynology on the Black Sea in cooperation with Woods Hole--one little paper is in a forthcoming AAPG volume. I have been continuing the work, but only on a desultory basis because of pressure of other, funded, projects. Recently I have been trying to get NSF funding (oceanographic section) for the work, so that I could really go at it, with a graduate student and so forth. They have been difficult (so far, impossible) to convince that this is a worthwhile project. If I could be along on this cruise, it would be not only exciting but "profitable", insofar as it would help establish my work in the area. However, are you sure they aren't looking for a nannofossil man (coccoliths)?--some people use "palynology" very loosely and would be including them in their definitions. I know about and understand them--and dinoflagellates as well ~~as~~, but I am primarily a spore/pollen man.

Re the Franciscan--two people have got me involved as a consultant in their NSF projects on the Franciscan--Ed Beutner, a professor at Franklin & Marshall, and John Kleist, a graduate student of Maxwell's, at University of Texas. They will pay me (personally) so much per sample and give me rights to publish the palynological results. Preliminary indications are that Cenozoic rocks are involved--the mélange thickens! Perhaps Betty can bank some of the $ and use them to join me in Europe, post-Black Sea?

Hunt Institute for Botanical Documentation

Great news about Martin. I love the miniature "herbarium" he sent me and have it prominently displayed.

Greetings to all.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT:kc

Hunt Institute for Botanical Documentation

Eidg. Technische Hochschule Zürich
Geologisches Institut

CH-8006 Zürich,
Sonneggstrasse 5

Ecole Polytechnique Fédérale Zurich
Institut de Géologie

Febr- 12, 1974

Dr. A. Traverse
Dept. of Geosciences
The Pennsylvania State
University
University Park - Penns.
U S A

Dear Al,

Thank you for your reprints, especially the one on Franciscan. Don't you think it might be worthwhile to set up a NSF to study the palynology of Franciscan; the area north of Morro Bay is one of the most beautiful natural reserves left in U.S.

I am writing you on another issue of considerable importance. It has been discussed in a preliminary meeting of the Mediterranean Advisory Panel that it might be worthwhile to have a palynologist on board Glomar Challenger during its cruise to the Black Sea. The date is tentatively set as October 16 (Istanbul) to November 6,(Naples), 1974, and might be shifted a few days because of logistic reasons. Remembering your work on the Black Sea, I thought you would be the best person and the person I like best to see on board during the Black Sea drilling. Since I am the Panel Chairman and Co-chief Scientist (designate) for the cruise, I pull a lot of weight and can expect to get you on board, over the protest of many other eager aspirants for the berth.* Would you tell me if you could and would go if you are selected. Your travel expenses etc., will be paid by the Deep Sea Drilling Project, and your results will be published as a part of the DSDP reports(and in other publications). Please let me know at your earliest convenience, as our next, and final panel meeting will be at Woods Hole, March 27-28. I urge you not to forego this excellent opportunity.

I noticed a letter you had for Martin, which is waiting for his return from the skiing vacation. He is doing very well this year, repeating the sixth class, he becomes a best pupil of his class.

With best regards,

Sincerely,
Ken

* This will be the first time a palynologist can get on board Glomar Challenger

* I just resigned my Co-Chief Scientist's position. Will go as sedimentologist.

1020/1 - 37104/10

Hunt Institute for Botanical Documentation

May 11, 1973

Dr. K.J. Hsü
Geol. Institute
E.T.H. Sonneggstrasse 5
C.H.-8006 Zürich
Switzerland

Dear Ken:

Thank you so much for your letter of 3 May and the enclosed "book" by Kedves. I know him from International meetings and of course from his papers. He is a good man. However, I think it is somewhat of an exaggeration to refer to the work as a book, and though it is a good piece of work, as far as I can tell, it is no more so than several dozen such things that appear each year. I would think that you would only review book-length compilations of such information. I am naturally most happy to have the copy of the publication. Kedves usually but not always sends me a complimentary copy. I note that this one is selling for $6, however, and I might not have been so fortunate!

Your P.S. is intriguing. We would all love to see you, but I know that your schedule when you're visiting this side does not always permit such luxury. I have a very busy summer program, including a trip to Calgary in June, attendance at the AIBS meeting in Massachusetts in late June, field work in Nova Scotia in July and August, etc. I am hoping to attend the AASP (palynological) meetings in Anaheim, California, in October, and would like to take Betty with me, but she always raises the specter of impending financial doom when such a proposition comes up!

Best wishes to Christine and all the others, especially my godson, Martin. Have a good summer.

Yours very truly,

Alfred Traverse
Professor of Geology & Biology

AT/vsi

Hunt Institute for Botanical Documentation

Eidg. Technische Hochschule Zürich
Geologisches Institut

Ecole Polytechnique Fédérale Zurich
Institut de Géologie

CH-8006 Zürich,
Sonneggstrasse 5

May 3, 1973

A. Traverse, Professor
Department of Geology
Pennsylvania State Univ.
State College
University Park/Penn. 16802
U.S.A.

Dear Al:

The enclosed has been sent to me as the Editor of the Sedimentology for review. Do you think it is worthwhile to write such a review. In any case keep the book for you since I have no other use for it.

With regards,

Sincerely,

Ken

p.s. It seems that I am coming to the States again next September.

Form. 1020/2 - 33530/2

Hunt Institute for Botanical Documentation

454 W. Whitehall Rd.
State College, PA 16801

UNIVERSITY OF CALIFORNIA, SAN DIEGO

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SCRIPPS INSTITUTION OF OCEANOGRAPHY
GEOLOGICAL RESEARCH DIVISION

P.O. BOX 109
LA JOLLA, CALIFORNIA 92037

June 8, 1972

Alfred Traverse
Professor of Geology & Biology
Deike Building
The Pennsylvania State University
University Park, Pennsylvania 16802

Dear Al:

Thank you for your letter of May 15 which was received by me today, June 7 — a sad comment on the U.S. Post Office.

I was about to write you or telephone you about our summer plans. I must have forgotten to tell you that we have been here in California since early April. I am at Scripps for my sabbitical. We shall return to Europe on August 13. We just could not schedule a stop at State College, even though Christine very much wanted to meet you. Also, I would like to have you see your godson, Martin, again. Is it possible that you can come to join us for a day of sightseeing in New York on August 12? You know we are travelling with three adults and three children and one baby, and ten thousand pieces of baggage. A stop at State College will be almost as difficult as a trip to the moon!

Please write me and send your telephone number. I shall call you some day and make the plans. My home phone number is (A.C. 714) 755-3096. You might call us some evening if you wish. (Address: 289 Ocean View, Del Mar, California)

About Miss Frances Gregory, I shall be happy to see her in Zurich after I arrive in early September, (the August 13 date is for my family exclusive of myself). Jobs are very difficult for foreigners in Switzerland because of the difficulty of granting work permits for non-essential workers. Secretaries and administrative assistants belong to such a category. Essential categories are dishwashers in restaurants maids in hotels, and construction workers. Fortunately, I have some pull with ETH. Also, I am about to have a position of an additional half-time secretary granted to me as of October 1. She might have that job if she wants, but we would not be paying her enough for her meals or lodging. Unless she has an independent income, I

Hunt Institute for Botanical Documentation

would not advise her to join such a poverty program. Anyway, can talk about it when she gets to Zurich.

We are enjoying our stay here. The children go to the beaches almost every day. Martin has started a herbarium collection without any urging from you or from me. He likes plants, just like Andrew who is musically oriented as his violinist-godfather. You might make a botanist out of him yet.

Looking forward to talking to you on the phone soon. With best regards to you and Betty.

Ken

Ken

KJH:jlm

Hsü

Hunt Institute for Botanical Documentation

June 22, 1972

Dr. K.J. Hsü
Geological Research Division
Scripps Institution of Oceanography
P.O. Box 109
La Jolla, California 92037

Dear Ken:

How good to hear from you again! I didn't know or had forgotten that you were to be in the SanDiego area this year. I have very pleasant memories of Scripps from a time quite a few years ago when Shell let me go there to discuss the possibility of doing some palynological work with recent sediments in collaboration with the Geological people. I would have liked to have done it and returned to ask "Dr. No" for permission, which was refused. Aureal Cross got it instead--it was to work primarily on the Gulf of California in collaboration with (as I recall) van Andel.

I quite understand your inability to come to State College--it is at best a hard place to reach, although we would have been delighted to have the Hsüs camp on us as long as they were able to do so. I note that you will be leaving from New York on 13 August and that you suggest our getting together down there on 12 August. I would think that at least Sadty and I could make it for a day (John has a job, Martha will be practising for a musical, and Paul is out of town for the summer--Celia could perhaps accompany us). The only problem is that the 12th happens to be a Saturday, and it is difficult for me to be away from here on Saturday since I am trying to save up the Sundays I can be gone from Philipsburg for a camping trip with most of the family about the first of September. Is there any chance that you will be or could be in New York on the 11th, with the idea that we could drive back here on the 12th in the afternoon? Perhaps that is the sort of thing we can discuss when you phone. My phone numbers are: office--814-865-2342; home--814-237-4505. (Incidentally, it may be helpful to you to know that you can get any number in the US or Canada by dialing 1-XXX-555-1212, where XXX is the area code. Every telephone directory contains a map showing the areas.)

Hunt Institute for Botanical Documentation

Just got back from my 25th reunion at Harvard. Whole family had a grand time!

Looking forward to seeing you in New Mork in August! Best wishes to you all.

Yours very truly,

Alfred Traverse
Professor of Geology & Biology

AT/vsi

Esleeck
Fidelity Onion Skin
long cotton

Hunt Institute for Botanical Documentation

May 15, 1972

Dr. K.J. Hsü
Geological Institute
Sonneggstrasse 5
8006 Zürich
Switzerland

Dear Ken:

Just a brief note to let you know that Miss Frances Gregory is planning to take part in the geology graduate students and faculty field trip to the Alps this summer. She is the administrative assistant in the Department of Geosciences here and has recently been caught in the reduction in staff which this College has experienced recently--a result of financial problems which seem to be pàáguing the whole country at the moment. Miss Gregory is a woman of about my age who has been extremely effective in her work for the department and personally very helpful to me with many problems that have come up over the years. She has expressed an interest in working in Europe for a time, and I told her that if she were in Zurich and if you were there at the time I was sure that you would be willing to discuss what the possibilities might be for a temporary or permanent employment for a person of Miss Gregory's skills and experience. If you would be willing to spend a few moments with here when she is in Zurich, would you let me know whether you will be in town this summer.

Best wishes from all of us. Hope to see you before too long.

Yours very truly

Alfred Traverse
Professor of Geology & Biology

AT/vsi

Hunt Institute for Botanical Documentation

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

22 Nov., 1971

HSO

Dear Ken:

This is a difficult letter to write, and I am tackling the job late at night (for me) because I know that it must be done in fairness to you--indeed, I have already waited too long.

and I
Betty/have discussed the most interesting and flattering possibility of a sabbatical in Zurich until we are "blue in the face". We have laid out every possible aspect of the problem--our home, the kids, my mother, Betty's grandmother and parents, the pets, my church duties, etc., etc. Reluctantly we conclude that it is just too difficult for us to arrange and that we must put it from our minds.

I feel very sorry that I have, perhaps, "led you on". I wasn't really doing that, because I genuinely wanted to go and especially to be with you. Please do accept my apologies for being so indecisive.

This does not mean that the Traverses won't arrive some day for a shorter visit (if we're still welcome).

Again, thanks for all the effort that you have put into this. Don't be angry with me. Best wishes for the approaching holiday season from all of us.

Yours as always,

AT

Hunt Institute for Botanical Documentation

Eidg. Technische Hochschule
Geologisches Institut
Zürich

Ecole Polytechnique Fédérale
Institut de Géologie
Zurich

8006 ZÜRICH,
Sonneggstrasse 5

Nov. 11th, 1971

Prof. A. Traverse
Department of Geology
Pennsylvania State University
State College

UNIVERSITY PARK / Penn. 16802

U S A

Dear Al,

With further reference to our conversation at GSA, I am sending you under separate cover a directory of Guggenheim fellows. Meanwhile, I talked with our Institute Director, Professor Gansser and my colleague, René Hantke; we see the need of a professional palynologist to work on the lake sediments. Although no definite plans can be made now, it is not impossible that we might work out some financial arrangement so that you could take your sabbatical here with us. (Assuming, of course, that you will have a sabbatical salary, and that you only need some lump sum to take care of your extra expenses). On the other hand, we could hardly start any action unless you commit yourself more of less to such an eventuality. Could you do a little more hard thinking and let us know if you are at all interested to have us working toward a goal of inviting you as a sabbatical guest.

I was sorry to have missed you on Tuesday evening and did not have a chance to say good-bye to you before I rushed back to New York. Many greetings to the family,

Sincerely,

Ken

Ken

c.c. R. Hantke

Hunt Institute for Botanical Documentation

November 8, 1971

Dr. K.J. Hsü
Geological Institute
Sonneggstrasse 5
8006 Zürich, Switzerland

Dear Ken:

Just a note to let you know that a young man named Josef Blunschi from the Institute walked into my office an hour or so ago and spent a delightful half hour with me talking about geology at E.T.H. I get the impression that he wants to come here to do graduate work after he finishes in Zürich and probably would be trending toward geochemistry. I guess he has been practically to every university in North America on both sides of the Canadian border. The people here at Penn State were quite favorably impressed with him, and I must say that I enjoyed his company for the half hour that we were together. I told him that I was rather tentatively toying with the idea of spending a little while at Zürich, and he expressed concern that since I am a palynologist it is not being arranged through Hantke. Do I read correctly between the lines that there might be "political" difficulty about this?

Am snowed under with various things trying to get ready to go to the GSA meetings in Washington this weekend. Other than that, everything seems to be okay. Best wishes to you, Christine and the kids.

Yours very truly,

Alfred Traverse
Professor of Geology & Biology

AT/vsi

Hunt Institute for Botanical Documentation

Eidg. Technische Hochschule
Geologisches Institut
Zürich

Ecole Polytechnique Fédérale
Institut de Géologie
Zurich

8006 ZÜRICH,
Sonneggstrasse 5

26 - 10 - 71

Prof. Alfred Traverse
Deike Building
The Pennsylvania
State University
University Park

PENNSYLVANIA 16802

U S A

Dear Al,

Thank you for your letter of the 6th. I am pleased that you are contemplating for a sabbatical here. I do not think that you would have any difficulty in getting a leave of absence. There are two possible ways to get the additional income:

(1) Guggenheim Foundation: They are very generous. You are asked to write what you would like to do, and also you should name 3 or 4 referees, which should preferably be former Guggenheim fellows. If you get good recommendation, which you certainly would get from me, you would be asked to submit a budget. By that time, you are almost certainly selected to be given some money. You should spell out what your need in the way of additional travelling funds and living allowances. You are likely to get somewhere between 5'000 - 8'000 dollars as a gift, for which you need not to write a scientific or financial report. (You could spend the money anyway you wish, but if you use it for a trip to Tahiti, you might have to pay tax for the income).

(2) Failing that, I shall look into the possibility of getting some money from my grant for you. However, I just used part of the funds now available to me to support a Ph. D. student to get his studies started in the palynology of the

Hunt Institute for Botanical Documentation

lake sediments (under me administratively), but to learn his pollens from Hantke). Under the circumstances, I probably cannot be as generous as I was shen I wrote you in August.

In any case, you should start your proceedings to ask for sabbatical, and to fill out your Guggenheim forms immediately. You should know by next Spring if they have anything for you. I can see what I can dig out from this end.

I have been away to Greece with the family, and then to England for a lecture tour. I am going to DC for the GSA and hope to see you there. With best regards,

Sincerely,

Ken

Ken Hsü

Hunt Institute for Botanical Documentation

October 6, 1971

Mr. K.J. Hsü
Geological Institute
E.T.H.
Sonneggstrasse 5
C H-8006
Zürich, Switzerland

Dear Ken:

Thank you for the package of reprints which came during the summer. I have especially enjoyed your suggestion regarding naming the subsurface units which you encountered on the JOIDES project. Your proposal seems quite sound to me, but of course I am not expert in the immediate area. I am however, considered by some as expert in the remotely related subject of formal plant nonemclatural, so the business is of philosophic interest. I also enjoyed the article on the meaning of the word flysch--and I even know how to pronounce it now! On the other hand, I cannot claim to understand or be especially interested in "toe effect" but I am highly impressed by your ability to handle such matters. The paper about Lake Zürich certainly explains why there might be palynological interest in the study of the sediments there. I seem to recall having read Ludi's 1957 paper, but I can't remember much about it.

I'm also behind on my correspondence with you in several other respects. I have previously responded to part of your letter of 4 August 1970, but not the rest of it (the business about the subbatical) I note that this also makes up a good part of the letter of 7 June, 1971, and perhaps I can cheat a little by answering both letters at once.

First of all, the various suggestions you made regarding my little paper on the Franciscan materials were all duly incorporated in the final paper, and now we only have to worry about whether the printer will do a decent job. Some horrible mistakes were made in the last volume in the same series.

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We have had an interesting and very busy summer, I gave up the trip to Siberia for various reasons, mostly personal.--I actually did get the money for the trip at the end of it and still decided not to go. Betty and I went together to the Permian-Triassic Conference in Calgary. It was a great trip, and we saw many interesting things. Of course, it was also our first time together for that long a stretch since our wedding trip. But the conference itself was from my point of view a bust. The palynologists whom I especially wanted to meet didn't even show up. Since we got back, I have been very busy getting ready for the palynological meetings in Tucson in October. I am president as I believe I told you, and I have the presidential address, as well as five papers which I am either author or co-author. You can imagine how hectic that makes things! After the convention I'm going into the field for a week or so with a couple of my graduate students in Arizona, New Mexico and Northwest Texas. (one of them is working on the Triassic and the other on Middle Cretaceous). Meanwhile I have also agreed to write a chapter on palynology for a general micropaleontological book which some people at Woods Hole are putting out, and that ought to keep me jumping when everything else calms down.

Now regarding the sabbatical leave question. I am really enthusiastic about the possibility.although there are so many problems personal and professional, that I hardly know where to begin. I did make formal inquiries about myssituation with the dean's office here, and I discover that I am at least technically eligible for a sabbatical beginning next June. However, the current trend is not especially in favor granting requests for leave, and I don't know whether it would be forthcoming or not. I would think, if I made it for six months rather than for a full year I might have more chance of success. I notice in your letter you said something about a Guggenheim, and lo and behold in the mail the other day I got their brochure and application forms with a letter saying you had asked them to be sent to me--you really are serious apparently! Providing that I were granted sabbatical leave by Penn State, all I would really need in the way of support would be enough to cover the extra expenses which we would encounter above and beyond those which we would normally have--travel to Switzerland, etc. So, I suppose what I've got to do is somehow make up my mind what to do. How would you react to the six months possibility? It would be easier to arrange from many points of view. Certainly the research which you suggest is interesting and important, though whether I am the best qualified person to tackle it might be open to some question. In any case, a half year or a year in Switzerland in the company of the Haü family would be a fulfilling experience for all the Traverses, I am sure. We would be four because Paul and Martha would both be in college.

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If you and Christine come this way in the spring of '72,--I know that I speak for Betty also in expressing the hope that you might include a sojourn at State College as part of your itinerary, though I will quite understand if it is impossible to fit it in.

Well I realise that this is not very decisive, but it is a pretty big decision.

Best Wishes to Christine and to all the children, especially Martin.

Yours very truly,

Alfred Traverse
Professor of Geology & Biology

AT/kai

PS: You complimented me on my writing style in my Franciscan paper--I suppose you refer to use of first person, active instead of passive voice and other efforts at direct instead of indirect expression. You will join me in frustration--the editors fought me to a standstill, said my style "isn't scientific" (whatever that means) and made me change nearly all of it!

Hunt Institute for Botanical Documentation

Eidg. Technische Hochschule Zürich
Geologisches Institut

CH-8006 Zürich,
Sonneggstrasse 5

Ecole Polytechnique Fédérale Zurich
Institut de Géologie

7th June 1971

Prof. Alfred Traverse
Department of Geology
Deike Building
The Pennsylvania State University
UNIVERSITY PARK/PENNSYLVANIA 16802
U S A

Dear Al,

Thank you very much for the preprint of your paper. I like your writing style, and I have begun to write in this more readable fashion in my last few manuscripts.

I would suggest one change, if it is not too difficult when you read the galley. On ms. p. 2, line 22, please change the expression ".... from gravity sliding and mixing of allochthonous blocks, ...", into "from tectonic mixing of allochthonous blocks". If you would try to substitute a word of approximately same length as "gravity sliding", then you could alternatively make the expression read "from underthrusting and mixing of allochthonous blocks", so as to minimize the printer's complaint. It is not your fault, but I have changed my mind: it now seems to me that underthrusting process is a more likely one than gravity-sliding (see enclosed reprint). However, my main theme, and your main theme that the Franciscan is a mélange stands and is now accepted by most of our colleagues.

I am sorry that your trip to Siberia now seems remote. If you would like to take a sabbatical from Penn State and would need partial financial support from ETH. I can offer you a job as a Research Associate in my grant, and paying you about 2000.-- francs per month, up to a year, for services rendered to study the Quaternary pollen of the Swiss Lake sediments. You could publish your research results, of course. The sum is what I would have to pay an Austrian lady, who will get her Ph.D. next summer. It is, of course, too small a salary for a professor like you. But, if you still receive your sabbatical salary, the additional 500 dollars per month might just make the difference between your need and your income.

Now Al, I am quite serious about it, because I now have the fund to hire such a research associate at that fixed rate between July 1st, 1972 and March 30th, 1973, with very probable extension to June 30th or even September 30th, 1973. This is a rare opportunity, so please think it over if you could manage. (You certainly could not manage if you do not get any sabbatical salary from Penn State!). I would dearly like to think of some other ways, but small wheels are very inefficient machanism. In any case, I shall not start negotiation with my Austrian contact until I hear from you. But, if I do not hear from you in half a year, I shall have to take action in the eastern front then.

Incidentally, I shall go to the States next Spring. We plan to fly from here to La Jolla on March 31st and stay till Summer. I got a Guggenheim grant for travel and expect ETH to pay my sabbatical salary. That reminds me, why don't you

Hunt Institute for Botanical Documentation

write John Simon Guggenheim Memorial Foundation, 90 Park Avenue, New York, N.Y. 10016, for forms to support you on a project to study the climatical, vegetational and cultural changes in central Europe from the Late Wisconsin to Recent. The whole natural history as well as the history of destruction of nature by man is preserved in the pollen record of our lake cores. You could mention that we have the best equipment, best facilities, and best historical records, (and the best team of young supporting casts) of anywhere to do this type of work. This is a true statement and should convince the Guggenheim board, why you should do this at Zurich and not in Pennsylvania. More important you should cite former Guggenheim fellows like myself, and others (Barghorn?) you know, as references. We could write glowing reports to convince the board. My stipiends and Mr. Guggenheim's gift may make it, even if Penn State do not cooperate.

If you should come to Europe this year, let us know. We are going to be in Russia from July 27th to August 13th. Also we may be away on vacation sometime in July. I would like to see that we could get together, if I know more definitely of your itinerary.

With best regards,

Your friend

Ken

Ken Hsü

P.S. I just noted a mistake in your figure 2 which could be easily remedied, and should be remedied. You should add SLABS after the expression "FRANCISCAN" on the figure. The fact is that intervening areas also include Franciscan rocks, but they are not slabs, but even more sheared and broken up junks. Your explanation of text-figure 2 is correct. Your text-figure 1 is also all right.

Hunt Institute for Botanical Documentation

May 18, 1971

Dr. K.J. Hsü
Geologisches Institut
E.T.H.
Sonneggstrasse 5
8006 Züuich, Switzerland

Dear Ken:

I am enclosing a xerox copy of the note which is in press regarding the Fransiscan samples we have so often discussed. Although it would be inconvenient if there were anything major, it still would not be too late to make minor changes if you notice anything that is out of whack. The trip to Novosibirsk is still a possibility but only a remote one. We are still planning to see you in Switzerland one of these years, if we're still welcome. We all send you our best wishes.

Yours very truly,

Alfred Traverse
Professor of Geology & Biology

AT/mdw
Enclosure: paper

Hunt Institute for Botanical Documentation

Visit of Prof. Dr. K. J. Hsu

to the Department of

Geology & Geophysics, Pennsylvania

State University,

23-29 January, 1971

Monday, 25 January, 8:00 p. m. At the home of A. Traverse,
809 Cornwall Drive:

"Flysch and Plate-Tectonics with
Emphasis on the Alpine Flysch"

Tuesday, 26 January, 4:00 p. m. Mineral Sciences Room 26.
(Public Lecture)

"JOIDES XII Cruise to the Mediterranean"

Wednesday, 27 January, 8:00 p. m. At the home of R. Scholten,
314 Arbor Way:

"Mechanics of Overthrusting, Including
Origin of the Schuppen Zone"

Thursday, 28 January, 4:00 p. m. Deike 341
(Departmental Lecture:

"Search for Actualistic Models of
Geosynclines"

Friday 29 Jan.
dep. Mid-State Airport 11 02 am.
arr. Newark 12 27 p.m.

Hunt Institute for Botanical Documentation

K. J. Hsu comes.

A MAN NAMED HSU...

Modern folklore as balladed by Johnny Cash strongly implies that men with the name Hsu are very often brave, independent, and admirable types. Though Dr. Kenneth Hsu claims no kinship with the song character whose name is spelled quite differently (Dr. Hsu has also lived his life dissimilarly in that he has named his three children Hsu), he possesses the same outstanding qualities when dealing with extremely difficult geological problems.

Dr. Hsu is an acknowledged genius and a brilliant geologist. His background has been international and colorful. He was born in Nanking, China in 1929 but left China during the communist takeover of that country in the late forties. He was a Bowmocker scholar at Ohio State where he received his M.A.. After receiving his PhD from UCLA in 1954 he took a position with Shell Development Company. During his nine years stay at Shell he became a close friend of Dr. Alfred Traverse of our own Penn State. Two U.S. university positions followed, one at the New York State University, Binghamton, the other at the University of California at Riverside. In 1967 he accepted a chair at the Federal Geological Institute in Zurich, Switzerland which he presently holds.

Dr. Hsu will present four lectures during his visit at Penn State. The first of these is on Monday evening rather than Tuesday afternoon.

Monday, January 25	Home of A. Traverse (see sign-up sheet & map on bulletin board) 8:00 p.m.	Flysch and plate tectonics with emphasis on Alpine flysch
Tuesday, January 26	26 M.S. 4:00 p.m.	Joides XII Cruise to the Mediterranean
Wednesday, January 27	Home of R. Scholten (see sign-up sheet & map on bulletin board) 8:00 p.m.	Mechanics of Overthrusting including origin of Schuppen Zone
Thursday, January 28	Third Floor Conference Room (241) 4:00 p.m.	Search for actualistic models of geosynclines

Hunt Institute for Botanical Documentation

K. J. Hsu corresp.

While Flying By The Flysch...

Some people may wonder at the circumstances surrounding Dr. Hsü's appointment to a professorship at the Federal Geological Institute at Zürich. Dr. Hsü's acceptance of the position was based on professional and personal reasons (his wife is from Switzerland), but legend has it that the offer was based on the merits of a few lectures Dr. Hsü presented at the Institute. While travelling through Switzerland, he did many a kilometer of "car window" geology on the flysch deposits. Later, at the Federal Institute, he lectured on these detailed observations on the flysch; the results were so outstanding that he was offered a position. (Even if legendary, it is still a good story.)

Dr. Hsü will present a seminar at the home of A. Traverse on Monday evening at 8:00 p.m., entitled "Flysch and plate tectonics with emphasis on Alpine flysch".

See sign-up sheet and map on bulletin board.

Hunt Institute for Botanical Documentation

Eidg. Technische Hochschule
Geologisches Institut
Zürich

Ecole Polytechnique Fédérale
Institut de Géologie
Zurich

8006 ZÜRICH, Sonneggstrasse 5

11th January 1971

Prof. Alfred Traverse
Deike Building
The Pennsylvania State University
UNIVERSITY PARK /PENNSYLVANIA 16802
U S A

Dear Al,

I am making final plans for my U.S. visit.

My friend Bill Ryan from Lamont is here. He mentions that he would pick me up at Newark airport and drive to New Haven with me on Friday, January 29th. Under the circumstance, could you change the reservations you made for me from State College-DC-New Haven to State College-Newark. We looked up the schedule and found a Allegheny flight leaving State College around 11.02 and arriving Newark an hour later. This is the flight I am telling Bill that I shall be on.

12:45 AL. 474

I shall see you at Baltimore next week, when you can tell me if this arrangement is possible. Looking forward to seeing you.

With best regards,

Sincerely,

Ken

Ken

done —
leaves at 11.02 a.m.
arr. Newark 12.27 p.m.

22·885/9

Hunt Institute for Botanical Documentation

CATALOG OF FOSSIL SPORES AND POLLEN

DEIKE BUILDING
THE PENNSYLVANIA STATE UNIVERSITY
UNIVERSITY PARK, PENNSYLVANIA 16802
U. S. A.

THE
INTERNATIONAL COMPENDIUM
OF
PALYNOLOGICAL SYSTEMATICS

December 17, 1970

Penn State Travel
116 West College Avenue
State College, Pennsylvania 16801

Dear Sirs:

This is to confirm that I wanted a reservation for Dr. K.J. Hsü, of the Geological Institute, Zürich, Switzerland for Friday, 29 January, to New Haven, Connecticut, by way of the Pennsylvania Commuter to Washington, and Allegheny Airlines to New Haven, leaving State College 7:25 a.m., arriving New Haven 2:45 p.m.

Yours very truly,

Alfred Traverse
Professor of Geology & Biology

AT/vsi

cc K.J. Hsü

Hunt Institute for Botanical Documentation

December 17, 1970

Dr. K.J. Hsü
Geological Institute
Sonneggstrasse 5
8006 Zürich
Switzerland

Dear Ken:

Thanks for your note of 8 December, 1970. It's a good thing that you stimulated me into making some direct contacts regarding your air reservations out of here. It is not as simple as I had thought. After much wrestling with Penn State Travel, I have concluded that the best arrangement would be for you to leave here at 7:25 a.m. on Friday, 29 January, by Pennsylvania Commuter. This has the advantage of not necessitating that 30 mile drive to the Mid-State Airport since the Commuter flies right out of State College. I have taken it several times, and it is very dependable and a rather enjoyable ride despite the fact that it is a small airplane. You will have a couple of hours lay-over in Washington, and get an Allegheny flight out of Washington directly to New Haven, arriving 2:45 p.m. in that unmentionable city. It seemed to me wise in view of the circumstances to make the reservations at this end, and I have done so. You will be able to pick up the tickets after you arrive in State College. Another possibility would be to go the same route, leaving Thursday afternoon at 3:45 p.m., arriving New Haven 7:51 p.m. by way of Washington. I think in view of the arrangement which Lauren Wright has approved, that would be less desirable and that you ought to plan to go Friday morning. However, there will be plenty of time to change the reservations to Thursday if that is your desire. In any case, you can make your choice now and inform your correspondents in New Haven that you will arrive there by Allegheny Airlines either Thursday at 7:51 p.m. or Friday at 2:45 p.m.

Hunt Institute for Botanical Documentation

You don't need to be concerned about over-exposure here nor about an empty room. Only one of the talks--the Joides presentation--will be a really public lecture. The other more or less formal presentation would be in one of the small seminar rooms, and the evening sessions would be entirely informal.

It is too bad that the diatom meeting in LSU would come at the same time as your visit, a matter which I couldn't predict when the arrangements for your visit were being made. I rather doubt that I will go anyway, but if I did, it might well be that counting Saturday evening, all day Sunday, and Monday, you might have had your fill of me anyway! I probably won't go, but if I do, you will still be with the rest of the Traverses, at least in the evenings.

Have a happy holiday with your family. Best wishes as always.

Yours very truly,

Alfred Traverse
Professor of Geology & Biology

AT/vsi

Hunt Institute for Botanical Documentation

Eidg. Technische Hochschule
Geologisches Institut
Zürich

Ecole Polytechnique Fédérale
Institut de Géologie
Zurich

8006 ZÜRICH,
Sonneggstrasse 5

8th December 1970

Prof. Alfred Traverse
Deike Building
The Pennsylvania State University
UNIVERSITY PARK/ PENNSYLVANIA 16802
U S A

Dear Al,

Thank you for your letter of the third. Could you let me know if I leave Friday early in the morning for New Haven by air, how and when would I get to New Haven. Our travel here is pretty dumb about local connections. If you tell me the schedule, I could get the reservations made here. Otherwise, they would tell me it is impossible, or would manage to find me the worst possible connection. (They did that on my last trip to Penn State!!!) I have been scheduled to talk at Yale on Friday afternoon or evening, depending on my ETA. Your information would be appreciated.

Please do not schedule too many sessions. I would be delighted to talk as long as people wish to listen, but the students might get tired of seeing my silly face. Under the circumstances, use your judgment as you see fit. It would be embarassing to speak to an entirely empty auditorium.

I do hope you would not go down to LSU, especially since I would like to have more of a chance to visit with you. If I had known you would be away, I would not have consented to spend so much time at State College, even at a 100 dollars a day rate. The main purpose of my going to State College was to visit with you and the family.

This is a hurried note before I rush away for a lecture tour.

With best regards,

Sincerely,

Ken

Hsü

22'885/9

Hunt Institute for Botanical Documentation

December 3, 1970

Dr. K.J. Hsü
Geologisches Institut
8006 Zürich, Sonneggstrasse 5
Switzerland

Dear Ken:

It seems as if things are beginning to fall in place for your much anticipated visit in January. We are certainly looking forward to having you. "We" means the Traverses on a personal basis and the Department of Geology on a professional basis.

I think you had better plan to stay here until Friday morning, mostly because of the uncertainty of travel. There would be no problem about getting to either Yale or Lamont by Allegheny Airlines from the Mid-State Airport (your travel agent may have this as either Philipsburg or State College or both, as well as Mid-State). There are flights from our airport to New York, and as I recall, you would then simply organize something for across town transport within New York to get to Lamont. For Yale, you would either change planes in New York for New Haven or go by limousine or taxi to the train station--New York, New Haven, and Hartford R.R. In either case, no problem, providing that the weather cooperates. If it doesn't, my procedure would be to rent a car here. It is about five hours by car from here to New York and nothing to create difficulties short of a real blizzard. It is six hours to Yale and again no problem really. To tell the truth, in mid-winter I almost always have in the back of my mind that I will end up renting a car, as I would much rather do that than sit around in the airport stewing. If I am going west, I usually drive to Pittsburgh, which is about three hours, and figure that I save considerable time on the average as against one hour out to Mid-State Airport and perhaps two or three more on the ground there awaiting for the flight to get clearance. (Mid-State does not have electronic equipment other than a radio!) If you will provide us with more details, we will be happy to make reservations, or you can opt to improvise when you get here. Of course, your travel agent could make all the reservations in Switzerland. I

Hunt Institute for Botanical Documentation

probably should further emphasize that while it is possible to get from here to New York by bus, it is a very wearisome and long journey. To New Haven would be even worse. Betty has done it, however, and she says if your patience is pretty good it's not impossible. It takes something like seven or eight hours. There also are trains from Altoona and Lewistown, which are a fifty and thirty miles from here, respectively, and the schedule is very discouraging, probably not worth considering.

I have been in touch with the graduate student who is managing the visits of our distinguished scientists, Dave Mattison, and we have your schedule set up per the third paragraph of your letter. That is, you're scheduled to speak on the Joides Mediterranean Cruise for the public lecture on Tuesday afternoon, 26 January. There will be an evening seminar at our home on 25 January, at which you will speak on the Flysch problem. You will speak on a more or less formal basis but in a less formally organized way on Wednesday or Thursday afternoon in one of the seminar rooms on "Search for Actualistic Models of Geocynclines". We are trying to set up an additional evening seminar, presumably for Wednesday night at which you could speak on "number 6". That will give you Sunday evening, Tuesday evening, and Thursday evening for recuperation!

I have now received a formal invitation to the symposium at Johns Hopkins, I phoned there and almost "blew" the affair wide open. It is supposed to be a secret for Pettijohn, and I almost talked to him--just luck I didn't. I don't know how soon I can get away from my teaching schedule to get down there, but I at least will be on hand on Saturday for the bulk of the program for that day and for the banquet in the evening, after which we can drive home to State College. On Sunday, once my obligations in Philipsburg are complete, we ought to be able to do some fun family visiting. We are, of course, planning that you will stay in Paul's room during your visit here. However, there is one possible (as yet unresolved) complication. If I should plan to take part in a palynological conference at LSU, I would have to leave here some time on Tuesday, January 26, and would miss much of your formal presentation. I am still undecided about whether to go or not. It seems devilish that it would have to turn out to conflict withyyour visit here. It also presents considerable difficulties as far as my teaching schedule is concerned, and I might decide not to go in any case.

Hunt Institute for Botanical Documentation

It will be fun to compare notes with you on a good many things, and in particular to talk about the "sabbatical year". That is still so far off that I can't help but smile as I dictate the words. It wouldn't be hard to sell me the idea of spending it in Switzerland. I aasure you! Best wishes to all the Hsüs for the holiday season.

Yours very truly,

Alfred Traverse
Professor of Geology & Biology

AT/vsi

Hunt Institute for Botanical Documentation

Eidg. Technische Hochschule
Geologisches Institut
Zürich

Ecole Polytechnique Fédérale
Institut de Géologie
Zurich

8006 ZÜRICH, Sonneggstrasse 5

HSü

25th November 1970

Prof. Alfred Traverse
Deike Building
The Pennsylvania State University
UNIVERSITY PARK /PENNSYLVANIA 16802
U S A

Dear Al,

Thank you for your letter of November 3rd.

I would be most pleased that you come to Baltimore. We can attend the banquet on Saturday evening and drive back to State College afterward. I trust one of us, probably you, would have enough courage not to drink too much during the evening; you are always a law-abiding driver.

The last details of my trip have still to be worked out. I could stay at Penn State till Thursday evening or Friday morning. I am now going either to Lamont or to Yale after Penn State. How does one manage that? Must one go back to New York again? My schedule with Yale has not been definitive, but it may be settled on Friday late in the afternoon or evening. Is it possible to get to Yale by public transportation within half a day, or is it best to rent a car and drive out there?

Thank you for your straw votes. I notice JOIDES Mediterranean cruise lost out in popularity. However, if you had no strong objection, I would like to present this as the formal talk. It was really a very exciting cruise. I myself, as a planner and a co-chief scientist, am close enough to the subject so that I might be able to give a little better than a routine report. I can certainly talk on the "search for actualistic models of geosynclines" which seems to be most welcome. No. 3 on Flysch and/or no. 6 on mechanics are best chosen as seminar discussion topics. Those problems are quite complicated and may require repeated interruptions from the audience to clear up many complicated matters.

Please let me know if there is an easy way to go to Yale, by air, by rail, by grayhound, or by rental car, from Penn State, so that I might firm up my final travel plans.

Thank you again for your role as an impressario at Penn State. I certainly shall enjoy the visit again. Perhaps we might talk about the possibility of luring you here to spend your sabbatical year.

With best regards,

Sincerely,

Ken

Ken

HSü

22·885/9

Hunt Institute for Botanical Documentation

Hsü

November 18, 1970

Dr. K.J. Hsü
Geologisches Institut
E.T.H.
Sonneggastasse 5
Zürich, Switzerland

Dear Ken:

Under separate cover I am sending you a package of German childrens' books. These books were loaned to me by Ruth when we were all living in Houston. A loan is a loan, and I thought that you should have these books back. Looking forward to seeing you in January, I am with best wishes of the season.

Yours very truly,

Alfred Traverse
Professor of Geology & Biology

AT/vsi

Hunt Institute for Botanical Documentation

November 3, 1970

Dr. K. J. Hsü
Professor of Geology
Geological Institute
Swiss Federal Institute of Technology
8006 Zurich
Sonneggstrassee 5
Switzerland

Dear Ken:

Thanks for yours of 20 October. I would be quite happy to look at samples of your evaporites, although I warn you that evaporites are sometimes not very rewarding for palynology. It depends on how "clean" they are. Some of the Permian and Triassic salt from Germany and Austria is full of pollen, but I remember looking at other salt samples to no avail. I would like to have as large a sample as can possibly be spared, because I know the concentration is likely to be low at best. But send them along, and we will do what we can.

Bill Evitt, by the way, seemed to be quite pleased with my presentation in Toronto of the work on the materials from the Franciscan which you provided me years ago. I'm trying desperately to find an hour here or there somewhere so that I can get the paper in shape for final publication. Now, about the much-anticipated visit in January. I still think that your suggestion that I attend at least part of the Pettijohn Symposium is a good one. It's about a three hour drive from Baltimore to State College, and I don't see why, if I had someone help keep me awake in the car, we couldn't come back Saturday night after the banquet. All that I meant by the visiting professor bit is that Lauren Wright told me that the financial rewards which they can offer are somewhat greater if you can stay more than a day or two. In other words, your suggestion of Monday through Thursday seems quite in order. As I understand it, if you come on that basis, and agree to be pretty much available for conferences and so forth, they will pay you an honorarium of something like a $100.00 a day, rather than just an honorarium for the one lecture itself. Under the circumstances, I believe I will tell Lauren that you have agreed to his proposition.. I will pass on the list of topics and so forth, and it would seem to me now that it's a pretty firm date. If there are any more developments that I think you should know about, I'll get in touch

Hunt Institute for Botanical Documentation

with you, but it seems that all I really need to tell you, now that we are firm on the dates, is which of the lecture subjects would be preferred.

Looking forward to seeing you again. Best wishes.

Yours very truly,

Alfred Traverse
Professor of Geology and Biology

AT:gbm

P. S. Since I dictated this letter, the xeroxes of your list of subjects, which I had sent us a trial ballot have come back and are enclosed. It looks to me as if items 2, 3 & 6 are clearly the winners, and I would suggest public lectures on two of them and an evening seminar on the third. I don't think it really matters which ones are which and would probably best be determined by which one would be most readily handled without lecture-room facilities. One of the lectures is already set up for Tues., 26 Jan. The rest of the schedule can be worked up when we hear from you. I have written Ginsburg about an invite to the Symposium if I need one. Lauren Wright mentioned in faculty meeting today that we are budgeting $400-500 for your visit. I suppose with that in mind it might be better if you could plan to leave early Friday instead of Thursday. Don't be concerned about your wearing out your welcome. The Scholtens and the Voights already have expressed eagerness in entertain you. Paul is in college, and we have a spare room just standing idle, and you can come and go as you please. So, why not take an extra day and be a little more relaxed?

Betty made some delicious egg-drop soup with seaweed, per one of our books, last night. We used the (mainland!) Chinese bowls and china sppons I bought in Toronto last week. Incidentally, the inhabitants of chinatown there were pretty much in gloom over the recognition of Red China and expulsion of the Nat. ambassador. (Why not relations with Formosa as Formosa?) Paul's roommate at Harvard is son (as I understand it) of the Chinese ambassador to the UN. Kid's name is Hanson Huang, was educated in Hong Kong, has rich British accent. Paul wants to bring him home for Xmas, but he has some old relatives in Boston who, I understand, have "first crack".

Hunt Institute for Botanical Documentation

7-X-70

Jean Lamen –

What should I tell Ken re the suggested subjects and how many tasks, etc.? He is expecting to hear back from me about all that.

Also check with seminar committee

Al Train

Please follow your own good judgement on this one. Al. Thing all look good to me. Three term would be adequate (minimum)

Public Institute for Botanical Documentation

The topics I can talk about could be chosen from the following:

(1) JOIDES XIII Cruise to Mediterranean.
(2) Search for Actualistic Models of Geosynclines.
(3) Flysch and Plate Tectonics, with emphasis on Alpine Flysch.
(4) Wildflysch, Olistostromes, Tectonic Mélanges.
(5) Studies of Recent Sediments of Swiss Lakes, Seismic, geothermic and sedimentological.
(6) Mechanics of overthrusting, including my latest work on the origin of Schuppen zone.

../.

22'885/9

Hunt Institute for Botanical Documentation

I could give a talk or two on some of those topics, and lead seminars on others. However, I do not expect to display all my bag of tricks during the three or four days there, and I would like to listen sometimes too.

Since I would like to rush this letter to post, so I shall leave some other subjects for my next letter. With best regards,

Sincerely,

Ken

Ken Hsü *
a.o. Professor of Geology
Co-chief scientist
of Leg XIII DSDP Cruise.

* I give you the correct titles for announcement of my talk. The official title of E.T.H. in English is "Swiss Federal Institute of Technology". I am the Leader, or Head of the Experimental Geology Laboratory of the Geological Institute.

Hunt Institute for Botanical Documentation

Eidg. Technische Hochschule
Geologisches Institut
Zürich

Ecole Polytechnique Fédérale
Institut de Géologie
Zurich

8006 ZÜRICH, 20th October 1970
Sonneggstrasse 5

HSü

Prof. Alfred Traverse
Deike Building
The Pennsylvania State University
University Park/Pennsylvania 16802
U S A

Dear Al,

Thank you very much for your letter of the 6th. Christine and I had a nice vacation to the Loire country. It was more educational than restful, but I was happy to get better acquainted with that part of the French history.

The cruise to the Mediterranean was a success. You mentioned working on Black Sea sediments. Would you be willing to run a couple of samples from our evaporite cores? We have many anhydrite cores, and even half a meter of salt (NaCl). The evaporites are well dated by interbedded marine sediments, but pollen information may tell us a great deal about climate. The arrangement is such that you could write a short report and have it published under your authorship as a part of the Initial Cruise Report. Since I am a co-chief scientist of that cruise, I may pull enough weight to get a piece of very treasured salt samples dissolved for your pollen study. If you are interested, let me know and I shall try to get the sample for you from Lamont.

Now I would like to get onto the subject of my January trip. That part of the plan is fixed. I shall be in Baltimore the evening of Thursday, January 21st, and could leave Baltimore any time after a banquet for Pettijohn, Saturday night. The rest of my schedule is still to be made.

Now you have confused me with the "visiting professor" bit, because you certainly did not intend that I shall outlive your hospitality by staying more than a 5-day week. If you like I could spend three or four days with you before going to Lamont Thursday afternoon or evening. That would then be Monday, January 25th to Thursday, January 28th. Naturally, I would be happy to make a private visit to the Traverses the Sunday before. (Or if you come to Baltimore for the Pettijohn Banquet, we could drive back together to State College; you know Ginsburg is planning a Saturday evening banquet).

The topics I can talk about could be chosen from the following:

(1) JOIDES XIII Cruise to Mediterranean.
(2) Search for Actualistic Models of Geosynclines.
(3) Flysch and Plate Tectonics, with emphasis on Alpine Flysch.
(4) Wildflysch, Olistostromes, Tectonic Mélanges.
(5) Studies of Recent Sediments of Swiss Lakes, Seismic, geothermic and sedimentological.
(6) Mechanics of overthrusting, including my latest work on the origin of Schuppen zone.

../.

22'885/9

Hunt Institute for Botanical Documentation

I could give a talk or two on some of those topics, and lead seminars on others. However, I do not expect to display all my bag of tricks during the three or four days there, and I would like to listen sometimes too.

Since I would like to rush this letter to post, so I shall leave some other subjects for my next letter. With best regards,

Sincerely,

Ken

Ken Hsü *
a.o. Professor of Geology
Co-chief scientist
of Leg XIII DSDP Cruise.

* I give you the correct titles for announcement of my talk. The official title of E.T.H. in English is "Swiss Federal Institute of Technology". I am the Leader, or Head of the Experimental Geology Laboratory of the Geological Institute.

Hunt Institute for Botanical Documentation

October 6, 1970

Dr. K. J. Hsü
Geologisches Institut
8006 Zürich
Sonneggstrasse 5
Zürich, Switzerland

Dear Ken:

This will not be an adequate answer to yours of 4 August, which was on my desk when I got back from our combined business and pleasure trip to the New England states and the Maritime Provinces of Canada in August. I gave a paper on the preliminary results of my work with the Black Sea sediments at the Woods Hole Oceanographic Institution in about the middle of August, and then we spent time visiting our relatives whom I had not seen in 30 years (!) in New Brunswick. We also visited my birthplace on Prince Edward Island.

Your comments regarding my paper for the AASP meetings the week after next have been very useful, and I think you would have been satisfied with what I plan to say. I suppose, now that I have spent so much time on this thing, I ought to publish some sort of a little paper, although I am a little distressed to see that Evitt has already, as it were, "skimmed the cream".

I have discussed your proposal for a State College visit with Lauren Wright, and he is enthused. You don't know how good a friend you have in Dr. Wright--a real booster! He will not be here at the time you suggest for your visit (he always does field work in southern California at that low point of the winter!). However, he wants you to come, and suggests that it would be desirable if you could plan to spend a bit longer than you did last time, so that you could be with students and faculty here as a "visiting professor", rather than as a merely itinerant scientist. As I understand it, if you could come on that basis, the department would be able to assist you with travel expenses and would also pay you an honorarium of approximately $100 per day for the period

Hunt Institute for Botanical Documentation

that you are here. Let us know your pleasure and especially the exact dates! I get the impression that its toward the very end of January. I should think that the subject matter of the Pettijohn Symposium might include matters close to my own interests, and I would indeed enjoy attending. I shall be teaching two courses during the winter term in all probability, however, and it could be a little difficult. I shall certainly try but we can explore that a little later. At the present is it sufficient to say that we look forward to having you eagerly; I know both faculty and students in the department remember your last visit with very pleasant memories and on a purely personal basis the Traverses enjoy your company greatly.

More later, particularly with respect to your suggestion about possible palynological work I could do in collaboration with you--sounds exciting.

Best regards to Christine and the children.

Yours very truly,

Alfred Traverse
Professor of Geology and Biology

AT/mrw

Hunt Institute for Botanical Documentation

Eidg. Technische Hochschule
Geologisches Institut
Zürich

Ecole Polytechnique Fédérale
Institut de Géologie
Zurich

8006 ZÜRICH, Sonneggstrasse 5

4th August 1970

Prof. Alfred Traverse

Deike Building
The Pennsylvania State University

University Park/Pennsylvania 16802

U S A

Dear Al,

Thank you for your letter of July 24th. I am very pleased to read your abstract, and am happy to find that you have done more on the Franciscan. I agree in general to your conclusions, but I would like to bring out several points for your consideration:

(1) The statement at the end of the first paragraph of your letter perhaps should read:

"Also, if this is of interest, B-395 A is marine without question, whereas TH-2 contains a non-marine flora".

The reason is that the TH-2 sample comes from a formation, which exhibits all the features of deep-sea turbidites. This formation is almost certainly deep-marine, and the non-marine flora is a displaced flora.

(2) I am interested to know that you think that the B-395 may be Lower Jurassic. If this is the case, it would represent a major departure from the current thinking on the age of this formation, which is equivalent to the Knoxville Formation on the west side of Sacramento Valley, and has Portlandian(=Tithonian) Buchia piochii. If you stick your neck out on this issue, be prepared with ammunitions to defend yourself from aggresive dissenters from Menlo Park.

Incidentally I believe I gave you the location of those samples, which are collected from the southern Santa Lucia Ranges. Also, you might wish to know that Bill Evitt did some more work on the pollen of Franciscan rocks for Ben Page. Evitt found Lower Cretaceous floras in the Franciscan rocks of northern Santa Lucia Range and his data were published in Page, 1970, GSA, Bull., v. 81, p. 687. These results do not conflict with those of yours, because TH-2 is from Formation A, and Page's samples were from Formation B, which have been correlated by me lithologically to Upper and Lower Cretaceous formations respectively. Also, B-395 A is correlated to Upper Jurassic (see p. 25 of enclosed reprint).

I am taking off again for the Glomar Challenger, having been appointed a co-chief scientist for the Mediterranean Cruise. I will be another two months away from home, Lisbon-Lisbon en route eastern Mediterranean. Also I am quite certain to go to Baltimore for the Pettijohn Symposium being invited by Ginsburg to present a paper there on January 22nd, or 29th, 1971. Why don't you come to the Symposium and I drive back with you to State College for another visit? I would not mind to sing for my supper again to chip in on my travel expenses to go to the West Coast, if you could persuade your Department that your students ought to know the latest on the Mediterranean, an actualistic model for the Alpine geosyncline. If you are not persuasive, I would enjoy a private visit anyway.

22·885/9

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I am also intrigued by your cryptic remark about your sabbatical. Why don't you come here. We have an excellent project here, which may enable you to steal some money from the National Academy of Sciences Cooperative Grants (see enclosed flier). Known as the Arthur Day Project in Foreign Cooperative Geophysics, you might qualify for the grants because you could do pollen-stratigraphy on our cores to help determine the age of seismic reflectors we got on our air-gun seismic record. (Seismic work is geophysical, even though stratigraphy is strictly speaking, not). Or you can try Guggenheim, or NSF or NATO senior post-doctoral fellowship. We have an excellent suite of cores on Pleistocene and Recent sediments, which just need to be studied. Very likely we have penetrated sediments older than Alleröd.* In any case, we would be most pleased if you could come to Zurich for your sabbatical, and I promise you that you would enjoy your stay here.

With best regards,

Sincerely,

Ken

Ken Hsü

* Some pollen was done 20 years by someone, now deceased.

** A local pollen-expert still lives, ~~teaches~~ taught school nearby. He knows all the local loves, but he is almost 80.

Hunt Institute for Botanical Documentation

Eidg. Technische Hochschule
Geologisches Institut
Zürich

8006 ZÜRICH,
Sonneggstrasse 5

Ecole Polytechnique Fédérale
Institut de Géologie
Zurich

April 28, 1969

Professor Al Traverse
Department of Geology
Pennsylvania State University
State College

UNIVERSITY PARK / Penn. 16802

U. S. A.

Dear Al and Betty:

I was very happy to have visited you, and found a chance to see your parish. There are many advantages of being a small town, and I hope you shall be relatively free from the turmoils of the modern world for sometime to come.

The two packages Al sent arrived. Many thanks, but really the postage costs were too much. (This spendthrift after I tried to save your operating expense by sending my galley and manuscript to GSA by surface mail!).

I have looked up my notes on sample B-395, in which Al found "Jurassic" pollen. Enclosed are some notes which should help Al write his article this Summer.

My flight to Columbus was uneventful. It rained all the way. Ohio State was really not too much changed during these last 20 years, except the Campus is much bigger. The rooming house where I used to stay near the Campus seems to be now a part of a slum. The International House, on the other hand, being a part of the fraternity row, has been enlarged and renovated. This minor sign of radicalization seems an adequate description of the modern world.

My trip to Houston was rather hurried. I had a chance to lunch with Mike Lloyd before he took off for Mexico. He has been assigned to the Hague for an year, but he is not certain if he could go because of Virginia's severe back trouble. My sister, Lee wen, who now

16097/7

Hunt Institute for Botanical Documentation

lives in our Houston house, also had back trouble after her car (with her inside) was hit by another in a parking lot; she has to be operated on this June. The trees in the yard really grew, especially the maple oak, which has now a diameter of about a foot at the base. The meta-sequoa (sp?) too is growing more than 20' high now.

Now that I am back, I must hurry up writing my Joides report. Losing sleep over it. So, with best regards,

Sincerely,

Very

Hsü

Hunt Institute for Botanical Documentation

Professor Al Traverse, Dept. of Geology, Penn State University

Enclosed is a description of the samples I sent you. NE Corner Sec. 21 R9E T28S

TH-2 is now called "Type III Sandstone". It has been thought to be Upper Cretaceous because it contains a relatively high potash-feldspar content, some 10 - 15 %. Petrographical studies of California sandstones have shown that only Upper Cretaceous sandstone contain so much K-feldspar (see Bailey and Irwin, 1959, AAPG, Bull., v. 43. p. 2792). The interpretation has been that the granite batholiths (such as the Sierra Nevada and the Coast Range Batholiths) were not exposed until Late Cretaceous time. In my paper which should come out in July issue of AAPG Bull., this year, I tentatively assigned the Type III Sandstone in Franciscan mélanges an Upper Cretaceous age on the basis of their petrographical characteristics. It would, therefore, be of great value when you publish your pollen and spore results to clearly establish the age of the Type III Sandstone.

B-395 A. From Marmolejo Flat, west bank of Marmolejo creek, on side of a Jeep trail. R. 8 E. T. 26 S. A part of Piedra Blanca Ranch holding, and, therefore, not divided into sections. Buchia piochii* has been reported from this locality, dating the formation as Upper Jurassic Tithonian (= Portlandian). Tectonically, B-395 formed a part of the uppermost allochthonous plate of the area. (TH-2 is taken from an underlying tectonic unit, So are B-41, B-450, TH-6, and B-75, which are somewhat more deformed. TH-3 came from a still deeper tectonic unit, but is probably Lower Cretaceous age, judging from its K-feldspar content. This tectonic superposition may be responsible for the pollen preservation in TH-2 and B-395A.)

If you need more information, please let me know. Meanwhile, I urge you strongly to write this work up for Micropaleontology, so that I could refer to it in my future work on Franciscan.

* Inaccurate mollusc

April 28, 1969

QE 770
J6

Hunt Institute for Botanical Documentation

Eidg. Technische Hochschule
Geologisches Institut
Zürich

Ecole Polytechnique Fédérale
Institut de Géologie
Zurich

8006 ZÜRICH,
Sonneggstrasse 5

March 29, 1969

Dear Al:

I shall fly from Binghamton via air on Saturday April 12, by AL 607 arriving State College at 13:49-

I shall leave St te College by AL 600 at 9:42 AM, Tuesday 15 April. The arrangement by Lauren to give the talk Saturday is excellent.

Looking forward to seeing you.

With best greetings

Conn

HBV

16097/7 Hunt Institute for Botanical Documentation

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

March 24, 1969

Department of Geology and Geophysics
Geology - - - - 303 Deike Building
Geophysics - - 206 Mineral Sciences

Area Code 814
Geology - 865-7791
Geophysics - 865-6821

Dr. Ken Hsu
Eidg. Technische Hochschule
Geologisches Institut
80006 Zurich
Sonneggstrasse 5
Zurich, Switzerland

Dear Ken:

We are delighted that your visit to Penn State is now definite and that you can be here for two or three days. I have heard in the meantime, however, that I may have to be out of town on Monday and Tuesday, April 14 and 15.

In order to provide you the maximum opportunity to drift around in our two departments on Monday, we are scheduling your Joides III talk for Saturday evening. This will be either at the Traverse home or at the home of Gene Williams. Saturday evening talks in the past have proved quite successful and well attended; I would especially favor this one because it would mean that I could see and hear you before departing on my own trip. If you prefer, however, we could still schedule this talk for Monday afternoon.

Each Spring Term I teach a course in the geology of North America and have tentatively scheduled your talk on the Franciscan as part of this course. It would be attended by the regular students and all interested visitors. We would have talked about Coast Range Geology later in the term, but I see no harm in approaching the Franciscan problem on the day of your visit.

Through these arrangements, you would have most of Monday free for informal visits and could spend Monday evening in any way you like.

Again, if you would prefer a revision of these arrangements, please ask.

Sincerely yours,

Lauren Wright

LAW:mec
cc: A. Traverse
G. Newton
K. Aitken

Hunt Institute for Botanical Documentation

March 13, 1969

Dr. K. J. Hsu
Geologisches Institut
8006 Zurich
Sonneggstrasse 5
Switzerland

Dear Ken:

Good to have yours of 11 March -- it took only one day to get here. It was indeed disappointing to us that Christine can't come, but we fully understand. We have an equally hard time making arrangements for the kids. For example, I am to be visiting AGI scientist at Allegheny College the week of 8 April, and I had hoped to take Betty, but the logistics just got completely out of hand, and we realized that it was more trouble than it would be worth.

At any rate, we certainly do look forward to seeing you. As I said in my earlier letter, it would have been better, really, if you could have stayed longer by a day or so, but you know what you must do, and we can make do I am sure. There will be a sort of open house at our place Monday night to give graduate students and others a chance to meet you informally, and I expect that Lauren and others of the faculty will arrange a luncheon on Monday. Since I will be with you quite a bit, I had better not plan to be part of the luncheon group. That will give Gene Williams, Barry Voight, and the others more of a shot at you!

Lauren is out of town at the moment, but I am sure that he will write you as soon as possible about your topic and the time of your talk. It sounds to me as if Monday is so much more desirable for you that it will probably be arranged that way. As you say, it would be possible to fly from here Tuesday evening (7 or 8 o'clock, roughly) -- weather permitting. Even as late as April it is a little risky to leave it that way, because the flight has a good chance of being cancelled. If that happened, you could still drive to Pittsburgh (4 hrs.)

Hunt Institute for Botanical Documentation

Dr. K. J. Hsu
Geologisches Institut
Sonneggstrasse 5
Switzerland

March 13, 1969

and catch a late flight to Columbus. Either way, you could lecture Tuesday at 16:00, which is the traditional hour and day for such efforts. John Prucha met such a schedule when he was here, but it is pretty frantic - I just barely got him to the airport, sans dinner. I believe, if Lauren is willing, that Monday would be better for your talk.

However it works out, we are very much looking forward to seeing you.

Yours very truly,

Alfred Traverse
Associate Professor of Geology

AT/kl

cc: Lauren Wright

Hunt Institute for Botanical Documentation

Eidg. Technische Hochschule
Geologisches Institut
Zürich

Ecole Polytechnique Fédérale
Institut de Géologie
Zurich

8006 ZÜRICH,
Sonneggstrasse 5

March 11, 1969

Dear Al:

Thank you for your letter of the fifth. I shall come from Binghamton on Saturday. Very likely I shall drive and should get to State College around noon time. Alternatively I may fly via NYC and get to State College by the 11:45-13:29 flight. I shall let you know when my detailed travel plans are worked out.

I am sorry to tell you that Christine will not come with me. We had difficulties in working out a rational schedule, with children having to go back to school, etc., etc. She is really disappointed that she will not meet you. On the other hand, we do hope that you will come to visit us soon.

By the way, I hope you show Lauren this letter. I am planning to leave Penn State on Tuesday, because I have a date at Columbus on Wednesday and at Houston on Friday. Could he then schedule the talk on Monday? If necessary I could stay at State for most of the Tuesday and leave by a late-afternoon plane via Pittsburgh to Columbus. However, I would leave in the morning if we could manage our visit. Since I shall be staying the weekend with you, I expect I shall see most of the other staff members on Monday, and possibly on Tuesday.

Hope this schedule is fine with you.

By the way, Lauren had wished that I spoke on Franciscan. I wonder if the staff would like to have a talk of some more general interests, such as the origin of dolomites. I shall, of course, leave the decision to Lauren.

Looking forward to seeing you in a month.

Sincerely,

HEH

16097/7

Hunt Institute for Botanical Documentation

March 5, 1969

Dr. K.J. Hsu
Geologisches Institut
ETH
8006 Zürich
Sonneggstrasse 5, Switzerland

Dear Ken:

Thanks for your exciting letter of 25 February, and the copy of your letter to Lauren Wright, which he had in the meantime shown me.

We are expecting you and Christine to be with us after you leave Princeton--I mean as our house guests, of course. As you request, I am having my secretary check into the transportation facilities between here and Princeton--by that time of year, air will be best. You would go into Laguardia Field in New York and fly to our airport, a rather rural facility some 30 miles away. University Park is just a postal station. The university is in State College, geographically speaking. That's why you couldn't find it on maps. Getting from here to Binghampton will be more of a trick. Frankly, the best thing to do would be to rent a car and drive. It is about 2½ hrs. by car and would take all day to negotiate by public transportation. It could be done by bus, per schedule attached.

As you will know by now, 14 April seems o.k. for your visit here, though I believe that the department was thinking in terms of the lecture itself being on the afternoon of the 15th, with an open house at our place that evening for graduate students and others. I don't see any reason why this can't be held on Monday just as well, if you prefer, but that kind of thing is up to Lauren, and I'll let you settle it between yourselves. I don't want to be in the position of "taking you over", since the department will be paying you an honorarium. Betty and I are just looking forward to renewing our friendship for the Hsus, and are grateful for that, however the rest of the plans shape up. Frankly, I do think it would be better if you would plan to leave here on Wednesday, 16 April, because if you have to leave early on Tuesday it is hard for me to see how you will have time to visit with the various faculty members who want to see you, as well as to spend time with the graduate students and give your lecture. You will arrive on a Saturday or Sunday here, and that will be of not too much use for practical conferences.

Hunt Institute for Botanical Documentation

Your egalitarian views on bank accounts are interesting. Some day one of the kids is quite likely to have more in the bank than the others--can Martin help it if he has a rich uncle? (Hmmmm.)

Looking forward to seeing you very much indeed, I am

Yours very truly,

Alfred Traverse
Associate Professor of Geology

AT:kwc

Enclosures: air schedule, New York to Mid-State Airport, Pa.
bus schedule, State College to Binghampton

cc: Lauren Wright

Hunt Institute for Botanical Documentation

Eidg. Technische Hochschule
Geologisches Institut
Zürich

Ecole Polytechnique Fédérale
Institut de Géologie
Zurich

8006 ZÜRICH,
Sonneggstrasse 5

Copy + Return

February 25, 1969

Professor Alfred Traverse
Department of Geology
Pennsylvania State University

UNIVERSITY PARK / Penns. 16802

U. S. A.

Dear Al:

Thank you for your letter to Christine. I notice that Lauren Wright apparently did not show you the letter I wrote him on February 4, a copy of which is attached.

Barring unforeseen last-minute changes, Christine and I will come to U. S. in April, in time for my meeting with other Joides Scientists at Lamont (Doherty) on April 7-9. I have been invited to talk at Princeton on the 10 or 11th. Could your secretary do some research for us about the air (or greyhound bus) connection between Princeton and University Park. Here I cannot even locate University Park on the map!

We plan to go to Binghamton, where I shall give another talk, on Tuesday (15 April), probably on Wednesday 16th from University Park. There must be Greyhound bus for that. In addition, we hope to see Andreas' godfather at Toledo. However, we are not certainly we are going to make it or not.

Since I am making firm plans for my US trip, would you check with Lauren Wright if the date of April 14 is fine with him or not. I would like to hear from you if everything is all set ?

Martin is doing very fine. We are going to spend the gift check for a gift of his choice from you, because we did not wish him to have a fatter bank account than his sieblings. (Their savings consist

16097/7

Hunt Institute for Botanical Documentation

of their weekly salaries for shoe-shines at 1 penny per pair; if your check were deposited Martin would be twice richer than Elisabeth). He wants a flash-light with many different colors.

Looking forward to hearing from you and then seeing you in April.

Sincerely,

Ken

HSV

Hunt Institute for Botanical Documentation

February 4, 1969

Professor Lauren A. Wright
Pennsylvania State University
Department of Geology and Geophysics

UNIVERSITY PARK / Pennsylvania 16802

U. S. A.

Dear Lauren:

Thank you for your kind letter of January 27. I have been away for two months on the Atlantic as the senior geologist for the Leg III of the Joides Expedition, and came back only last week. I was indeed pleased to learn that you are willing to have me visit you at University Park.

As it develops, my travel plans to U. S. undergo a slight change. I may still have to go to Montreal in June for the invited talk. On the other hand, I must go to U. S. (probably Lamont) in the Spring for a conference on Joides III Cruise Report. The Conference date is not yet definite, but I believe it will be arranged to be between 7-11 April. Under the new circumstances, I would prefer to visit you in April to avoid the "semester-end rush". If the week April 14-18 does not fall within your vacation week, I wonder if you might tentatively schedule the talk in the first part of that week, say Monday, the 14th. I plan to visit a few other places, starting from East, before returning to ~~the States~~ Southern Calif.

I would be happy to discuss the problem of the Franciscan mélanges. Informally I would be able to discuss with you and your students the highlights of Joides III. I anticipate I might develop some new angles on the geology of Franciscan in view of my recent awakening on the South Atlantic.

Thank you for the offer of the honorarium. The travel expenses would come in handy, although I expect that my wife and I might stay with my old friend Al Traverse, if he found room for us in his house.

Thank you very much for writing. Please let me know if the suggested date in April is agreeable to you. Meanwhile I shall inform you of the exact date of my Joides Conference.

Sincerely,

Ken Hsu

Hunt Institute for Botanical Documentation

November 11, 1968

Professor K.J. Hsu
Eidg. Technische Hochschule
Geologisches Institut
8006 Zurich
Sonneggstrasse 5
Switzerland

Dear Kent:

It was a joy to hear from you again, though I am ashamed that Ihhave still not answered a previous letter from you. The biggest but not the only reason is that I have been hoping that I could get the samples from Calif. run up and have a real excuse for writing. The samples are indeed,safe, sound, and partly processed. There has been a series of things preventing me from finishing them--the usual duties, of course....for example, work on NSF projects. I now have three of them going, one for $106,000 for the year (at least it was for that much money before NSF imposed a big cut across the board on all grants). Then we decided we had to improve our housing, and that required a down-payment, so I was fortunate enough to get a consulting job which brought in just enough money but used up nearly my whole summer. The rest was spent at Indiana University learning enough about gas chromatography and related phenomena to give a little paper at the Gordon Conferences and another at the American Institute of Biological Sciences, both in August. Went pretty well. Then back here and moving, plus getting ready for the first annual meeting of the new palynological society of which I was one of the founders and have been the first secretary-treasurer. The meeting was very fine; it was at Baton Rouge. A number of people you know were there. For example, Bill Evitt of Stanford (who gave an excellent lecture), Dick Rezak of Shell (who wanted to see what the pollen people were up to), Dr. Stenzel of LSU, Penn State was chosen as the place for the 1969 meeting, and I am already shuddering at the prospect. For one thing, that LSU meeting was a hard act to follow, as they say. After the meeting I went to Texas with two of my graduate students on a collecting foray, and we got a lot of good stuff, especially from some little known Triassic localities. One of the students is hoping to get a thesis out of that. Having worked up the minutes for the palynological society and almost caught up on my urgent correspondence, I am now trying to get three lectures prepared which I must give to a course on evolution, beginning next week. Sandwiched between them will be a trip to Philadelphia in connection with one of the NSB projects--the big one, which has to do

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with computer processing of palynological data. So, you can see, I am finding the academic life pretty much of a three-ring circus.

How frustrating--I also was in Washington during the riots--at NSF. I am sure we must be talking about the same time, that right after the assassination of Martin Luther King. Too bad I hadn't known you were around.

Regarding the proposed trip to this general area--it would indeed be fun to see you again. I only wish you could have your family with you, but I should be the first to understand, since my wife thinksiit's a big deal f if she gets to accompany me to Pittsburgh once a year.

I will take up the idea of your paying an official visit to this campus with the appropriate authorities. Lauren Wright is in the West on field work for a couple of months. Bob Schmalz is acting chairman in his absence, and I'll take up the question with him right away. I am sure that Penn State ought to be honored to have a geologist of your reputation pay us a visit. I'll pass on your suggested topics for lectures and will write myself a note to follow up in a few weeks if nothing happens.

Thanks for the news re Martin, my godson. I pray that his development continues to be so satisfying. I am aware that I missed an anniversary of his recently. The problem is that in moving, my technique for remembering and taking care of such things has been shattered. It will take a few more months to get back in the groove!

I thought of you today when I won a minor victory over a clothing manufacturer with whom I have been sparring for some weeks--I relished thinking about what fun I would have had telling you about it over lunch if it were still possible to lunch with you.

Regards to the family. Keep in touch. Do plan to stay with us when you're here. Best wishes as ever.

Yours very truly,

Alfred Traverse
Associate Professor of Geology

AT:kwc

Hunt Institute for Botanical Documentation

Eidg. Technische Hochschule
Geologisches Institut
Zürich

Ecole Polytechnique Fédérale
Institut de Géologie
Zurich

8006 ZÜRICH,
Sonneggstrasse 5

November 1st, 1968

Professor Alfred Traverse
Deike Building
The Pennsylvania State University
University Park

Pennsylvania 16802

U. S. A.

Dear Al:

The date of your last letter in my file is August 1, 1967. We had a very busy year, like everyone else nowadays. I went ot the States in the Spring, visited Houston and my sister Lee-wen, as Shell paid my expenses plus a generous fee for a talk. Then, I visited Bob Ginsburgs and Johns Hopkins U., before giving my talk (on rock mechanics) at AGU, Washington. I was in Baltimore and DC during the height of the riot. In fact, I was marooned in downtown Baltimore, before Ginsburg rescued me. Then, we had to drive past the Armory with many tanks and armored cars there. The next time I saw so many tanks was at Prague!

I am still planning on a Franciscan project, and hope to include you as a project consultant. However, I am biding my time. Meanwhile, I sure hope that you have not lost the samples I sent you.

Actually one reason that finally moved me to the typewriter is the fact that I may go to North America again next June. I have been invited to give the Keynote Speech by the Canadian Geological Association to open the Syposium on Flysch Sedimentology*. Since ETH usually would like to see that I do a little more than just giving a 30-minute talk, I am planning a number of visits to Universities. Or rather I use the excuse to see my old friends. This year I plan to visit only the Northeast. So if you could arrange it, I would like to give a talk at Penn State so that I can visit with you and Betty. I have a whole bag full of different speeches, which I could give upon request. In return, I would be happy with a honorarium to pay my air ticket New York - University Park and return. I do not know if Lauren Wright is still at Penn State as Chairman. I could write him directly if you prefer it that way. Or if you think you might arrange it yourself somehow, I would leave it to you. (I rather leave it to you).

at Montreal.

Everyone is fine at home. Martin is getting to be a big boy. He is taking Judo lessons and learning to play flutes. We are proud of him.

With best regards

Ken Hsu
a.o. Professor für Geologie

16097/7

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Subjects of possible interests.

1. Rock mechanics and rates of mountain-building movements.

2. Origin of dolomite, chemistry and hydrology.

3. Franciscan mélanges, and a new working hypothesis for the origin of California Coast Ranges.

I would rather not give the same speech as the one that I shall give at Montreal, on the Flysch of the Swiss Alps.

For Penn State geochemists. the second may be most interesting. Barry Voight of your staff may be particularly interested in subject #1, whereas Lawren Wright may be interested in subject #3.

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Do you know of oil research looking for palynologist. One of [redacted] Ph.Ds. studying w. Ha[redacted]ke will be interested (June 1968) in such a career opportunity.

Eidg. Technische Hochschule
Geologisches Institut
Zürich

ZÜRICH 6,
Sonneggstrasse 5

Ecole Polytechnique Fédérale
Institut de Géologie
Zurich

6 September , 1967

Dear Al:

Thank you for your letter of August 1. I was away all August, first to Reading and Edinburg and Wales for the Sedimentological Congress, then to Sardinia for an ETH excursion. Now I am back since ~~for~~ 3 days ~~ago~~, trying to catch up my correspondence between interruptions by students.

About the Franciscan Project, I decide to send in the proposal sometime next Autumn(i.e., 1968). Since you are agreeable, I shall include you in as a Paid-Consultant, paid on service rendered, Meanwhile, what progress have been able to make? Please do not mind if you have not done anything, now that I shall not submit my proposal until next year.

I think I mentioned in my last letter that we bought a house. The address for your Christmas card will be

96 Frohburgstrasse, 8006 Zürich, Switzerland

You are most welcome to stay with us when you are here. I do think that you must attend the Prague Congress, and we need exhibitors like you to promote the sale of the Catalog. I might add that you need to cultivate relations with the eastern countries in International Congresses. I made a number of acquaintances in Britain with Polish, Romanian, Czech, and Bulgarian geologists and found myself well known in those countries. Export to the East might prove to be an important outlet for your Catalog.

Martin is in first grade. He is slowly learning German. We believe he now can understand pretty well, but is still reluctant to speak. We hope his reticence will fade away with his competence in his new language. I too must learn German, or learn to master German. Language is the medium for communication. I found better connections with the students since my German improved to such an extent as to be able to converse with them.

We too appreciate the fact that we are away from several of concerns we discussed. Not only the more momentary problems of Vietnam or race relations, but the general society as a whole is more conducive for bringing up the children. They spent all summer (our summer is now gone) with their "grandparents" in Trogen, Appenzell, beautiful green cattle country, except for a short vacation in the Juras (near Neuchâtel where you stayed) with their uncle (Ruth's brother). For the long weekend coming up, we are going to Basel to see their grandmother, who will then come to Zurich to stay with them when Christine and I take a couple of days off, to Engadine. Fullbright blamed the War for brutalizing the people, but the underlying cause is long fermenting, - the apathy for warm and close human relations necessitated by the separation of geographic distances. I am quite certain that was the reason which made Ruth missed Switzerland so much. Of course, we cannot have our cakes and eat it too. There are many disadvantages of a small country: many of our younger people look with envy across the ocean to the Land of Opportunity, which is America. Nevertheless, most are contented to live a relatively sheltered life here near the mountains.

I shall write you a longer letter some other time, meanwhile best regards, with love to you and Betty,

Yours [illegible]

Hunt Institute for Botanical Documentation

March 29

Dear Al and Betty: Christine just told me that I overlooked to send Martin's thank you note to you, which has been lying in my "Out" box since New Year. Thank you dearly for your books. They like the books very much and learn both bible and English while reading them. Martin's collection of 5 now includes (1) The Rich Fool, (2) The boy who Ran Away (3) The Great Surprise, (4) Eight Bags of Gold, and (5) The good Samaritan. Thank you also for the cash. Martin now opened an account and your check was deposited there in. He also gets money for performing household chores, such as shoe shine for 5 Rappen (~1 US penny) a pair. and is accumulating wealth at the rate of about 1 nickel per week. I use the Shell Provident Fund System to match his bank deposit. (but not his spending, of course). Martin is a very generous boy. He spends "freely" to buy birthday gifts for his siblings and parents, and does not have much for the bank yet. He just came home with his report card yesterday. (School years ends in April) and has done reasonably well in school. He speaks Swiss dialect fluently now and we must watch out that he does not forget English. He will be in 2nd grade in April. He likes the gymnastics classes in school the best, and can really climb (trees, poles, etc) like a monkey. In winter he began to learn skiing. Patience and persistence are more the traites of Elizabeth. Martin is characterized by daring! We really would like to see you in Switzerland. Are you coming in August?? Please count on staying with us for at least a week!

I am going to the States next Tuesday. will be staying with my sister (Mrs. Tze-yin Shen) at Houston until Sunday morning the 7th. They bought our Houston house at McAvoy! I shall give a talk at Shell, who pays my trip to Houston. Afterwards I shall be in Washington D.C. Sheraton Hotel for the Am. Geph. Union Meeting and come back Wednesday the 10th. I am sorry that the trip is so hurried that I cannot get to Penn State to see you. But, come to Switzerland please, and soon!

Many greetings with love,

Kan-

Hunt Institute for Botanical Documentation

DEIKE BUILDING
THE PENNSYLVANIA STATE UNIVERSITY
UNIVERSITY PARK, PENNSYLVANIA 16802
U. S. A.

THE
INTERNATIONAL CONSORTIUM
OF
PALYNOLOGICAL SYSTEMATICS

August 1, 1967

Professor Dr. K.J. Hsu
Eidg. Technische Hochschule
Geologisches Institut
Sonneggstrasse 5, Switzerland

Dear Ken:

Your letter of 4 July came while I was in Texas with a graduate student collecting samples (mostly Wilcox lignites) for his thesis. It was really delightful to have your long letter and to be brought up to date on your move and your other recent activities. Your children certainly ought to be wonderful polylinguists by the tiem they are teenagers. Switzerland is a beautiful country. My memories of it are now 21 years old, but I am sure two decades have not made me exaggerate the beauty of your new country a bit.

Now about the samples of the Franciscan formation which you sent me--I still have not done more than I had when I wrote last for the reason that the end of a busy term here plus a month of field work in Texas have intervened. The project has moved far up on my priority list, however, and barring an unforseen deluge of visitors and the like, I should be able to macerate the remaining samples in the next month or so. In the one sample I have studied so far, I did find, although somewhat carbonized, specimens of fern spores of types that fully agree with what Bill Evitt has told you. You may remember that I said upper Mesozoic on the basis of what I had seen. The things that I found actually range from upper Jurassic to upper Cretaceous, so I could not be as precise on the basis of the one slide that I studied as Evitt was.

My main problem here is lack of technical assistance. I got a good NSF grant to work on Wilcox pollen and naively assumed that some of the money would be available for an assistant of some sort, but I soon found out the rules of the game are that one pays from his grant for a graduate student to be technical assistant, but it is expected that the graduate student will spend the time for which he is paid working on materials for his thesis. In brief, I have no laboratory assistance whatsoever, although I have a fine laboratory and as much clerical assistance as I can use. So if you wanted to contract with me to study the Franciscan materials more fully, I certainly would be interested and would use the money to hire a

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qualified person (perhaps Betty) for processing. The amount of money that you mention seems to me to be quite grand--by no means small potatoes. I suppose your decision will depend partly on what I can produce from the remaining samples you sent me, and they should provide an additional incentive for getting on with the work.

I look forward to hearing from you about all of this. I must say it is challenging to attempt to find pollen grains and spores where they seem to be so scarce.

Thanks for putting us on the trail of Professor Hantke. I suppose if their work is mainly Quaternary, they would have limited interest in the Catalog of Fossil Spores and Pollen, but I shall write him about it. By the way, I am currently carrying on preliminary negotiations with NSF and AGI regarding possible application of modern information retrieval techniques to further production of the Catalog.

I am afraid my travels for this year includes only one more excursion, that is to the GSA meetings in New Orleans, where I plan to present 2 small papers. I have looked at the preliminary schedule for the Prague Congress and offhand think I could make only a marginal case for attending, but I suppose it might be argued that I ought to be on hand at least as an exhibitor to promote the welfare of the Catalog. If we were so fortunate as to be able to attend the Congress--it is almost too much to hope for--we would certainly want to spend some time with you in Zürich. You and your family are very dear to Betty and me. Your house sounds very exciting. In many ways I envy you as you begin to settle down in a society that is so free of some of the concerns which we often discussed. Best regards, especially to my godson, Martin. I very much appreciate your pictures you send me of him from time to time. He is a fine looking boy.

Yours very truly,

Alfred Traverse
Associate Professor of Geology

AT:kaw

Hunt Institute for Botanical Documentation

Eidg. Technische Hochschule
Geologisches Institut
Zürich

Ecole Polytechnique Fédérale
Institut de Géologie
Zurich

ZÜRICH 6, Sonneggstrasse 5

July 4, 1967

Prof. Al Traverse
Department of Geology
Deike Building
The Pennsylvania State University
University Park, Pennsylvania 16802
U.S.A.

Dear Al:

Thank you for your letter of May 1. We have had a hectic time since we came. I started teaching almost immediately after our arrival and have been busy with weekend excursions also. Meanwhile, there were a number of family re-unions and feasts, etc. Martin and Elisabeth are both going to school now and are quickly learning German.

Thank you also for your reprint. I am happy to see it published. My protest in connection with that episode must have antagonized the Shell Management to such an extent that, so far, all my requests to publish my previous work with Shell were categorically denied!

About the Franciscan pollen, I wonder if you have found anything exciting. Bill Evitt of Stanford has been working on the pollens from Franciscan, mainly in cooperation with Ben Page on the rocks north of the area I mapped. He also obtained a few specimens from me from the Coast near Cambria (Formation A) and found Proteacidites thalmanni and Palaeohystrichophora infusorioides in one of the specimens. He wrote me and stated that indicate a Late Cretaceous age for the specimen. I sent you more specimens and hope you have better luck than he did, especially if you could

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do anything at all with what I called Formation B and Knowville rocks.

Eldridge Moores (UC Davis) and I are planning to send in a NSF proposal to continue my Franciscan proposal. I would like to make provisions for a paid-consultant to do some pollen work. Would you be interested? We might put in two or three thousand dollars for you and your assistants in exchange of services of a number of specimens. Or is it too little peanut to interest you? We could, of course, make more grandiose plans, if you like. We plan to submit this proposal this winter (before December 1). Prof. René Hantke and his assistants are working on pollen problems here in our Institute. I believe their interests lie mainly in the Quaternary. Have you got into contact with him to sell him catalog of fossil spores and pollen?

Is it possible that you come this September to Switzerland to the World Congress on Planktonic Organisms? We certainly hope to see you. If not, are you making any plans for the Prague Congress next year? You are welcome to stay with us, of course, as we are buying an old house which has much room on the attic! Best wishes from all the Hsus to all the Traverses.

Sincerely,

K.J. Hsu

P.S. We bought a home on Zürichberg. Hope to see you here soon!

Hunt Institute for Botanical Documentation

May 1, 1967

Dr. K.J. Hsü
Geologisches Institut
E.T.H.
Zurich, Switzerland

Dear Ken:

Should you now be addressed as Prof. Dr.? Please advise.

I enjoyed your letter about the trip very much. I so much envy your uncanny ability to have fun and find spare time to sightsee in the midst of a life as busy as is mine. We seem quite pedestrian in comparison.

I must write you a genuine letter as soon as I can find a few minutes or a couple of hours, but for the moment this is just to felicitate you on finally arriving in your new job and to wish you every kind of good fortune in it. I do hope that we see you one of these years.

So far, I have only processed a couple of the Franciscan samples. One of them to my surprise does contain spores--not many and somewhat corroded but unmistakable. I haven't really settled down to careful analysis of them but I would say they looked upper Mesozoic-ish. Pretty soon I shall run the rest of the samples and write you more fully about it. Lauren Wright, the chairman of the department here, apparently is also interested in the Franciscan and knows you. I haven't discussed the samples with him. If, after looking at the other samples, it looks palynologically promising I shall want to correspond more with you about what you think I should do about it.

Best wishes from all of the Traverses to all of the Hsus.

Yours very truly,

Alfred Traverse
Associate Professor of Geology

AT:kaw

Hunt Institute for Botanical Documentation

P&O ~ Orient Lines

CHUSAN

At Sea,
April 7

Dear Al and Betty:

Tomorrow we shall arrive at Le Havre after 20 days of voyage. The older children enjoyed the trip very much, but the change somewhat bewildered Andrees. Martin has been particularly good and he ate very well, often finishing his plates while other children barely touched their plates. He was very happy to have the 3$ from you for the journey. He bought an Indian hat with red feathers and a wooden toy canoe at a Miami Indian handcraft shop. Thank you very much for your thoughtfulness we too enjoyed the voyage. We stopped

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over at Acapulco, Balboa, Cristobal, Kingston, Nassau, Miami, and at Bermuda. We were particularly impressed by the Canal transit. Watching the tropical jungle on both sides, and sipping gin and tonic on deck, we might as well be cruising down the Mississippi. It must be a botanist paradise there. The colors at Kingston, Jamaica, are also remarkable. Everyone plants Bougainvillia (sp.?) in their garden. We also went to a public botanic garden, and we missed you there. (The plants are only incidentally identified for the visitors)

It is also wonderful that I do not read newspaper or news magazine. Vietnam might as well be on the moon for me. Perhaps you ought to take your vacation on a

Hunt Institute for Botanical Documentation

P&O ~ Orient Lines

CHUSAN

Caribbean Cruise once. You do seem to take a more distant view on current world crises.

I have been reading a lot during the trip. Just finished a book on American Revolution. Viewing it ~~impatient~~ with a historical perspective, V.C's claims for comparison with the Revolutionary Americans are not unjustified. The Revolutionary war lasted 7 years, ended in total British defeat because the Britains could not afford to fight a total war. World

Hunt Institute for Botanical Documentation

The American effort be less half-hearted? or would the results be the same? Of course LBJ has more destructive power at his disposal than King George. He might even win this war!

I envision some busy months ahead for myself. Meanwhile, please write at your leisure (if there's any). I would be very happy to hear from you.

By the way, did any pollen grains come out of the samples I sent you? All?

Best wishes and fond regards

Your friend

Ken

We arrived last week. All are fine and well.
Our address is
Sonneggstr 5
Geologisches Institut
E. T. H.
Zürich, Switzerland.

HSV

Hunt Institute for Botanical Documentation

February 8, 1967

Dr. K. J. Hsu
Department of Geology
University of California
Riverside, California 92507

Dear Ken:

The nine samples of rock, "Hsu spores" (you dreamer, you), etc. came in good shape. I have put them in the hopper, and will get to them one of these days--I have a pretty good record of finishing what I start, tho' I sometimes remind myself of the sign we have posted in the sub-departmental office: "we guarantee prompt service, no matter how long it may take".

I suppose that if I have any questions about the exact locations, I can contact you. Better find out if there is a palynological story first. I must say that the apparent size of the sediment particles looks good for pollen. I notice that one bag says "spores, Leffingwell", and it makes me wonder if my friend, Harry Leffingwell of Humble, is also having a crack at the problem. Hmmmmm.

Best wishes as always.

Yours very truly,

AT

Alfred Traverse
Associate Professor of Geology

AT:kaw

Hunt Institute for Botanical Documentation

February 6, 1967

Dear Al: Thank you for your letter of the First. We also received the three dollars you sent Martin. I am just about to start a savings account for each of my three children. So Martin will start with $1003.00 instead of the round sum.

I too remember our conversation in S. F. It also made a deep impression on me. Recently, our congressman sent me a questionnaire soliciting opinions on Vietnam. There were five alternatives to choose from. My emotional alternative would be to bomb the hell out of those innocent people and then pull out. However, I am too much a Christian to select such a beastly alternative. I winded up choosing the "dovest" of all the alternatives; Get out now and unconditionally. I believed that I felt already in November that the long-range view clearly indicates that we should not be involved in Vietnam. However, I took the view of face-saving and felt that we could not leave now. On a deeper search, it was finally possible to see that we should have the courage to carry out our conviction. I think this is the two-step discussion that is necessary to educate the public and eventually to have enough public sentiment to cease the folly. Meanwhile, I wish the bearded Vietniks would leave the issue alone.

The U.C. is going through a grave crisis. I am afraid that the situation is very serious. I am happy for myself that I am leaving here, and I suspect that the place will not be the same if I should come back in five years for a visit. Although the Berkeley students had some valid reasons for griping, their radical actions have inalienated the public to such an extent that the University must suffer the consequence of the follies. In a way, the opponents of our involvement in Vietnam also needed to present a better public image. I liked to watch Fulbright on T. V., but draft-card burners only inflammed the atmosphere without accomplishing anything.

Hunt Institute for Botanical Documentation

UNIVERSITY OF CALIFORNIA, RIVERSIDE

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DEPARTMENT OF GEOLOGICAL SCIENCES

RIVERSIDE, CALIFORNIA 92502

Thank you for your letter of 8th after you received my samples. I surely hope you find something in those rocks. By the way, I don't know Harry Leffingwell. The reference to Leffingwell is to a locality name on the beach(The Leffingwell Creek empties into the Pacific near San Simeon).

I am in the process of packing, so I shall write you again soon. Meanwhile, many best wishes. We are leaving on March 17 and shall be there on April 8. My address in Zurich will be

Geologisches Institut

E. T. H.

Sonneggstrasse 5

Zurich Switzerland.

Hope to hear from you often.

Your friend

Hsu

Hunt Institute for Botanical Documentation

February 1, 1967

Dr. K. J. Hsu
Department of Geological Sciences
University of California
Riverside, California 92502

Dear Ken:

Good to hear from you, as always. Of course I remember about the Franciscan samples. I also remember having had an unsuccessful crack at one of the same origin a while back, so I am not "counting my chickens" as yet--better wait till they hatch. I shall do my darndest to extract pollen from the nine samples when they come, and--who knows--we might score! Needless to say, I would greatly enjoy the field work that might ensue--I have had rather little luck of that sort, but I have had a full and exciting life, and am not complaining.

We are all sorry that you can't make it up here, but we understand. As has often been noted, one can't really visit State College on the way to anywhere. It just isn't. It would be grand if we really could visit you all in Zurich one of these years--the sooner the better--and maybe I can actually think of a way of promoting it--international geological congress or something.

I shall long remember the talk in the hotel room in S. F. Wide ranging and thought-provoking. One feels so helpless in the face of forces one cannot control--it is at least helpful to discuss them.

Yours as ever with best wishes,

Alfred Traverse, Editor
Catalog of Fossil Spores & Pollen

AT:kaw

Hunt Institute for Botanical Documentation

UNIVERSITY OF CALIFORNIA, RIVERSIDE

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DEPARTMENT OF GEOLOGICAL SCIENCES

RIVERSIDE, CALIFORNIA 92502

January 23, 1967

Professor Al Traverse
Department of Geology
Pennsylvania State University
State College, Pennsylvania

Dear Al: As you might recall, I was very interested in the possibility of dating Franciscan rocks by pollen + spores.

I am sending you under separate cover a box of 9 samples. I have given a locality description. If something interesting does come up, I will send you a map of sample localities.

I am particularly concerned about the age of Formations A and B. I suspect they are Cretaceous. Any information at all from pollen (e.g. Cretaceous or Jurassic, e.k.) would be a great help!

I am sorry that I won't be able to visit you at Penn State. I did fly out to Princeton last week for a talk, but the visit was very hurried so I could not stop by. See you in Zurich soon, I hope.

Best wishes.

Sincerely,

Ken

Ken

K. J. Hsu

KJH/rf

P.S. I shall send you a pre-print of my guidebook article on the proposed stratigraphy of these samples. If you find something, it will be worthwhile to carry out a N.S.F. project dating these coastal rocks. (Beautiful vacation or beach for you + Betty).

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7 November, 1966

K. J. Hsu

Dear Ken and Christine:

Greatly enjoyed your note of 31 October--I hope this one reaches you more promptly than that one reached me here! Efficient mail service is not one of the advantages of central Pa.!

Martin's artistic effort was appreciated and will be displayed at home along with Celia's. The photo--one of the best I have seenoof the young man--is posted here in my office.

The idea of lunch with you both in San Francisco appeals to me very much indeed. Trouble is that I have signed up for and paid for the pre-meeting Coal Division field trip to coal mines in Utah. Leaves on Friday, gets back (to Salt Lake City) on Sunday afternoon. Sat. night we'll be in Prine, and there is apparently no way I could leave the trip there and make it to SLC and to San Francisco before afternoon Sunday. The reservations I hold for San Francisco are, in fact, for Sunday evening, getting me to SF something like 11:00 p. m. I guess I am just out of luck. I do hope, though, that we can get together--Ken and I at least--during the meeting. I have a meeting set up for Wednesday night in connection with the Catalog of Fossil Spores and Pollen, of which I have found myself editor. Monday night is one of the few technical sessions at which I feel that I must be present. That leaves Tuesday night--unless you feel that you must be on hand for the presidential address, Ken, why don't we get together for dinner (at Chinatown?--I would tremendously enjoy that.). Failing that, perhaps breakfast Monday? (I'll phone you as soon as practical to check.--Sunday evening, if it isn't too late.)

I'll be staying at the Francisdan Hotel, probably a flea-bag? At least the rates are low for San Francisco.

Yours very truly,

Al

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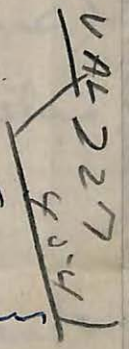
[K. J. Hsu] Oct. 31 66

Dear Al + Betty:

I am swamped with University work this fall! There are many things I want to do still in U.S.A that I don't see how am I going to leave in March.



I shall be in G.S.A. and shall stay in El Cortez S.F. Christine will be accompanying me until Sunday afternoon

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before G.S.A. Could you come earlier & we have a Chinese lunch Sunday in China Town. If you tell me to pick you up in your hotel Sunday (13th) I'll do so. (I shall drive) so you ~~might~~ can meet Christine.

Enclosed is a photo of Martin & one of his recent efforts at modern arts

Best wishes.

Your friend

Oley

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(K. J. H50)

Riverside, 9. October, 1966

Dear Al and Betty:

Thank you for your telegram and the beautiful and practical gift. My old table lamp was out of commission several months ago. I was very happy to get such a beautiful replacement. I am now writing under the illumination of the lamp and found it very convenient.

We also received your letter to Martin. He was always happy to get letters. (He once complained that he only wrote post cards + "never" got letter in return). We are sorry that we cannot be closer so that we can see each other more often. Thank you also for the check. Christine is going to order a "Children's Bible" by Anne de Vries. as your gift to Martin. Martin is a very good boy. I love all three children. But in different ways they get your heart. Martin is the most generous and most cooperative of the three. I also believe he might turn out to be the most intellegent. He went to a private school last year. However, that school closed this autumn. So now, he is back in public school, starting first grade. (Although he is about a year or ½ year younger than his classmates, already he must repeat what he learnt last year.) He is happy to be in the same school as Elisabeth. The two do fight sometimes. However, they are really very close to each other. And both love baby

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says hello. Hope to hear from you soon, again.

Andreas solicitously.

We had a simple wedding. We chose the Unitarian Church because it is the most beautiful church in town, and most suitable for a small wedding. (The church was built in 1870s & is about to be torn down to make room for modern city buildings!) I was somewhat disturbed to find the minister an atheist. However, both Christine and I believed that ceremony is less important than what we believe in heart. Also, we have no difficulty to persuade him to read from Bible. (He is actually a very fine person otherwise!) So we had actually a very good ceremony. Afterwards, we had a Champagne party. (about ½ dozen) Not all guests drank, those who did finished 3 cases! We all had a good time. and Christine and I almost missed the plane for the start of our wedding trip.

We went to Mexico and thoroughly enjoyed our exploration of the Indian ruins. Spent some time around Mexico City & and then around Oaxaca (near the Isthmus). Afterwards we detoured through Houston to visit my sister. Her family now live in our Houston house. They like the house. and I felt sad thinking of the planning Ruth and I did. The maple-oak we planted is growing to be a tall tree and the front yard is well shaded. After a very brief stop at Grand Canyon, we are back home.

We must now plan for our big move. Already we booked passage (Pacific - Orient), via Canal, to Europe. If everything goes according to plans, we shall be in Switzerland in April, 67.

I shall write you again soon, on The issue of Vietnam, etc.

Meanwhile, I send you our best greetings, & Christine

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11 October, 1966

(K. J. Hsu)

Dear Ken and Christine:

The picture of Ellie and Martin was very thoughtful and much appreciated. Also, Betty and I are both glad to have some more details about the wedding, and we naturally look forward to meeting you, Christine. I gather that your means of getting to Europe precludes a visit to Pennsylvania, which we much regret. However, I keep saying that the next time I visit Europe I'll take Betty, and we'll visit friends and live it up a bit. Perhaps in a couple of years we'll really be in a position to do it. (The next botanical congress, in 1968, unfortunately is in Seattle.) Then we can, hopefully, visit with you.

Everything going along well here. I'm giving a seminar in palynology. Next term an introduction to palynology. Then, in the spring, historical geology for undergraduates. I thoroughly enjoy that. It seems odd to be giving the undergrad course first, but it's the way the schedule worked out here.

Had a wonderful time of it in Europe in September. I am really very fond of the Netherlands, and had an especially good visit this time. I also was in England for a week, visiting old friends and (to make it legal) collecting some samples in Yorkshire in which I have had some interest. I had a rental car in England, and am still revelling in the stories about driving to the left and related matters.

Am planning to attend GSA meetings in San Francisco in November. Perhaps I'll see you there?--or are you gradually pulling away from such things in preparation for the big move?

I met a Swiss palynologist at the International meeting who knew all about your appointment to the wonderful job in Zurich and said that there were some very disappointed Swiss geologists left standing in the wings who were miffed that a foreigner should be preferred above them. There might be no truth to the yarn, but I thought that it might be of value to you to hear the story. The palynologist in question did not seem to be a bad source of information. Incidentally, he claims to have known Ruth because he was one of Schweighauser's best friends.

Greetings to Martin, and to Ellie and Andreas too.

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he used to regale me with stories about the furor it would cause in the Unitarian congregation in Houston when the new U. minister ~~xxxxxxxx~~ would turn out to be a theist! They had a regular drag down fight once when the new man baptized a baby, since the old guard thought that superstitious.

I am very glad, though, that you could have a memorable, beautiful service for your wedding. That makes me vicariously happy. I have a very great affection for the Hsu family. May God bless you always and very richly.

Yours as ever, with love,

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#5U

August 11, 1966

Dear Al:
Thank you for your letter of 4 July. I was in Morro Bay until Monday. Please excuse me for not writing sooner.

I was very please to learn that you decided to go to the Penn State. I like the eastern United States. I said many times, recently, that I would probably settle down in the East if I do not go to Switzerland. Now about the teaching position at E. T. H., I believe I told you all about it in Kansas City. The formal appointment has not yet come through, but I have been given the impression that the delay is the usual red-tape. If all go according to oral agreements, I shall resign from UC at the end of the Winter Quarter and sail to Europe at the end of March, 1967.

You are probably in Europe when this letter reaches University Park. I am sorry that I am not yet in Switzerland. Andreas's godfather, who now lives in Toledo, Ohio, is also going to be in Switzerland this summer. It seems that there will be more chance of meeting you in Europe than in the U. S. Both Toledo and University Park are off the beaten tradk. We are happy that Elisabeth's godfather, who teaches at Univ. of Houston, will come to visit us in a few weeks.

Your unfortunate story with your houses is not surprising. The Chinese always believe that scholarly traites and business acumen are mutually exclusive in a person. I trust everything will work out all right. As your favorite saying goes, "God will provide ". You can always console yourself that it is only money you lost, and not something irrevocable. After one has gone through personal tragedies, he can learn to view life with proper detachment.

We spentalmost two months in Morro Bay. It was healthy for the children to get away from the smog. Martin is very fond of shells. He collected more than 20 abalone shells and many other goodies. He is getting to be a very good rock climber. I foresee many worries when he is old enough to climb the Matterhorn. The children's personal traites are getting well developed. Their aunt Lee-wen, who is taking care of them this summer, could read them very well. Martin is tough and careless in appearance, but very sensitive inside. He is able to tolerate a certain amount of what he considers "nonsense" from the other people before he would decisively protest. His grandmother did not quite understand him; they had some feuds. However, when she left to return to Switzerland, she actually became more partial to Martin than to Elisabeth. Andreas is different from the other two. He is the baby and everyone likes him.

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You must be quite shocked by the tragedy at Austin. My other sister, Lee-hsia, was in Austin then. She teaches Library Science in the Summer Sessions. Fortunately, she had to leave early for lunch that day and missed all the unpleasant excitement. This event together with Yeakel's suicite, which we discussed in our last exchange of correspondence, frightened me. I cannot remember who said it, but the distinction, or rather the division of insanity from saneness is such a thin partition. I know it also too well from my personal experiences. I remember the Camden, N. J. incident. My reactions to that episode and to the very similar recent events are completely different. I have changed.

Since you mentioned that you thought Yeakel was not a Christian, I think we should explore the definition of Christians again. I happened to know that Yeakel was baptised and confirmed and a fairly regular church goer. That the Austin killer was a catholic is not surprising either. The importance of the ceremonial aspect of the religion may be at times so over-emphasized that the true essence of Jesus teaching becomes glossed over. Sometimes, I wonder if the Germanic mentality is compatible with the oriental religion. One learns to love through tolerance and forgiveness, both of these traites are not well developed among many of my Swiss and American acquaintances. At the moment, what concerns me most in raising my children is not whether I love them enough, nor whether they would love me enough. I am most concerned whether they could learn loving, not only those who are dear to them, but life and the whole world.

I cannot discuss Vietnam intellegently because my opinions are necessarily shaped by the data provided by a press which is not impartial. I wonder if it had not been a mistake to go into Indochina after the French pulled out. However, escalation became unavoidable once it began. Now, the military solution seems to be the only way out. Perhaps, it has been a frightening lesson that we might be led to a global war because of some past inconspicuous actions of a few who commited the fate of the United States with out exploring the consequences of their actions.

It should not come as a surprise to you that I am to be remarried next month. Christine is Martin's godmother. She was also one of Ruth's closest friends. She is quite different from Ruth, in many ways. On the other hand, they shared many interests and similar view points in the philosophy of life. I believe we would bring up the children much along the same path as Ruth and I would have.

Hope your family is again with you in Pennsylvania. Many greetings

Your friend,

Ken

Hunt Institute for Botanical Documentation

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

4 July, 1966

Dr. K. J. Hsu
Etc.

Dear Ken:

Yours of 3 June was forwarded to me by Betty and was very, very welcome. As you can see from the above address, I decided to take the job here that had been so often offered me. Really, I would much rather have stayed in Texas, but that was not to be. I tried very hard to get on at S. M. U. and very nearly but not quite pulled it off. Had I advertised the fact that I would come with an NSF grant of 30-40 thousand in my back pocket, they would probably have taken me, but I couldn't see selling myself that way. For that matter, I am sure that UT would have kept me had they taken seriously my application for the grant. Actually, only Steve Clabaugh in that group reckoned with the possibility that I would get it. The others probably thought my application was a joke.

At the moment my major problem is housing--we still own the place in Houston. That's a long story, but the short of it is that the foundation collapsed a year ago. I spent $3000 having the foundation repaired and put it on the market. The place was sold about four months ago, but there has been a great deal of difficulty with the loan. I am still waiting for news from Betty on that. Meanwhile, we foolishly (as it turned out) bought a place in Austin. That one is going to be even more difficult to get rid of, unless we are willing to throw it away, which I am not disposed to do. So, Betty and Paul, Martha, and Celia are down there awaiting developments. I brought John with me. He is enrolled in the excellent park program they have here in State College while I am settling into my new office. We are staying in the attaic of the Episcopal Church's old rectory (now a Sunday School place), and are half-heartedly looking for a house. We can't get serious about it until soom news breaks from Texas, not so much because of the money we probably won't get from those kplaces as because we can't qualify for a loan until we are rid of the other obligations.

I guess it would be obvious to you that I will be professing palynology here--a place with a considerable palynological background. I have been sort of a consultant palynologically here for many years. This is where the Catalog of Fossil Spores and Pollen is published. On the face of it, it should be a natural.

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Thanks for sending my resume to Santa Barbara. That will have done no harm. Who knows but what, several years down the road, I may yet go to California. I somehow have the feeling that I will not put my bones in Pennsylvania soil. But I have been wildly wrong in such prediction before and could be again (in the other direction!). I thought we'd be in Austin for the rest of our lives.

You say not a word about your impending departure for Switzerland. I take it that this either means that it is so well an established fact that you feel it not worth comment, or that you have changed your mind. It sounded like a wonderful job, tho' it would be sad to have the Hsus so far away.

I have had two papers accepted for the meeting of palynologists in Utrecht in August and am planning to go. One paper will be a precis of my Bahamas thing. I have listed Bob Ginsburg as co-author. Attending that meeting will help considerably in reestablishing me on the international palynological scene. (A very tiny plot of territory, I must say.)

You don't mention your reactions to the current international situation--it is an ever-changing kaleidoscope. I still fear the emergence of our country as a de facto military dictatorship (Eisenhower years ago warned against the dangers of military-industrial fusings of interest--he seems to have forgotten his own warnings as he now supports this crazy war in Viet Nam.). I think it is a very bad thing that the military are getting their way--war is their hobby, and they are as inclined to see war as the solution of any international problem as a labor leader is to see the solution of domestic problems in terms of increased pay and decreased working hours.

So much for all this. Must get lunch for John and help him decorate his bike for the 4th of July parade. It galls me that they don't permit firecrackers anymore, because I remember them as one of the real joys of childhood.

God bless you, Martin, Elizabeth, and Andreas. Thank you so much for being my friend. You have meant a very great deal to me over the years.

Keep us informed of your whereabouts.

Yours faithfully,

Alfred Traverse

Hunt Institute for Botanical Documentation

June 3

Dear Al: I received your invitation shortly before my field trip to The Coast Ranges. I just came back and begin to catch up on my correspondence.

I am sorry That I could not attend the ordaining ceremony. This is one factor in American life — distance — which prevents us from enjoying the fruits of human relations. If we were in Switzerland, it would be easy enough for one to jump on a train to go from Basel to attend a wedding in Bern, a baptism in Zürich, or a confimation in Geneva. In fact that would be the incentives for old friends to get together. Here The distance is so great & cost of travel to monthly salary ratio so high, we are separated from Those dear to us. I particularly regret the fact that Martin cannot see his god father for quite some time now.

Martin is developing very well. He attends school now & learns writing and arithmatic. He is very bright, like his god-father, and very introverted. He is at heart very affectionate, but I fear he is not sufficiently communicative. I am very fond of him as I do every one of the three. He still has the fine features and fair complexion and looking more and more like his mother. I am sure that you will be partial to him even if he was not your godson.

I was very depressed today. One of my very good friends in Houston, Lloyd Teakel, committed suicide; ~~today~~ so I heard today. Lloyd confided in me quite a deal during the last few years.

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I tried hard to help. I saw him a month ago and had another long talk with him. When I left, I was struck by the hopelessness of his mental attitudes and futility of my attempts to help. It was always very depressing, and saddening to learn of the ruin of a close friend.

I called you when I was in Houston, but you happened to be in St. Louis A.A.P.G. meeting then. Please tell me of your experiences there. By the way, you must also have heard that Don Higgo has been transferred. I wonder if your threat to go to Hague might have triggered the whole event.

I sent your resume to U.C. Santa Barbara; they are awaiting the decision of Kleinpell before they looke further afield. Meanwhile, if you are still looking, please send me more of the resumes. I am not a member of any "IN" group, but I can always try to do a little.

My sister Lee-wen will come to spend the summer with us, replacing my mother-in-law who will return to Switzerland in 2 weeks. We shall spend sometime in Morro Bay, but will stay in Riverside for most of the summer.

Hope to hear from you. Best greetings to you and Betty and the children

Your old friend

Lee

Hunt Institute for Botanical Documentation

July 24, 1970

Dr. K.J. Hsü
Geologisches Institut
8006 Zürich
Sonneggstrasse 5
Switzerland

Dear Ken:

Enclosed is an abstract of a paper I plan to present in October regarding the work on the samples you gave me of the Franciscan mélange materials. I have done a bit more processing and much more study than I had when you were here last year, but the story is not greatly changed. I have, however, found some quite unequivocal microfossils and in sufficient numbers to convince sceptics. As I told you previously, TH-2 is Upper Cretaceous without doubt--I believe that before the meeting I will be able to pin it down to a stage. B-395A is Jurassic all right, but at the moment I am not sure that it isn't Lower instead of Upper Jurassic. That too will be resolved. Also, if this is of interest, B-395A is marine without question, whereas TH-2 is non-marine.

We were delighted to hear about the new arrival and have sent off a small token of our esteem. Hope it makes it!

Best wishes from us all.

Yours very truly,

Alfred Traverse
Professor of Geology & Biology

AT:kc

Enclosure: abstract

Hunt Institute for Botanical Documentation

Nov. 24, 1969

Dear Al + Betty: It's almost christmas again. Christine told me that I better send my Xmas mail away, because I am taking another tour across the Atlantic, and shall not be back until just before Christmas. It will be a 2-3 week tour. lectures, field trip, Penrose Conference, recruiting (geophysics), and meeting (JOIDES). It seems that I make more coast-to-coast tours now that I am in Europe. The "quickie" trip to Montreal + Woods Hole in June, was in connection with an invited talk to Flysch Symposium at Montreal. + JOIDES discussion at Woods Hole.

The family too had quite a bit of outings this year, thanks to the unusually good summer and autumn weather. We went all to Dalmatian Coast, with family of Christine's brother after I finished my JOIDES report + summer semester (= your Spring semester). We had two very relaxed weeks. The water was warm + we found cool shades under pine trees right next to the coast. (How did the pines keep away the salt water?) Much swimming and reading for us. The kid learnt to swim and gathered bushels of shells. After we came back, we did much hiking in the mountains. The children

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are now big enough to go wherever we could. We found the so-called "Pass-Wanderung" most interesting. We would take a train to one valley, hike across an Alpine pass to another valley & take another train home. Or make a round-trip across two or three passes back to the car. There are many possibilities in Switzerland for this!

Martin is now nine and is in the third grade. He is quite different from his siblings in appearance and in other ways. Somewhat absent-minded, he would tend to forget his homework, etc., and has a hard time trying to get good grades (they say "notes" here) in school. However, he is a naturalist at heart. born perhaps (or) years too late in the modern world of mathematical science and technology. He is a very good observer, thereby rewarded often by a miscellaneous collection of feathers, four-leaf clovers, lost earring, buttons, & small mints, etc., etc. (Oh yes, also "no-parking" signs which he fished out of a creek.) He learnt the names of wildflowers from Christel: although he does not seem to like latin names.* (*We are still trying!) Perhaps, you two could get together someday. He will be able to tell you the names of alpine flora in Swiss dialect, & you will teach him the Latin names. By the way, the books you sent

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June 10, 1969

Dr. K.J. Hsü
E.T.H. Geologisches Institut
8006 Zürich
Sonneggstrasse 5, Switzerland

Dear Ken:

Thanks for yours of 2 June. I am hoping to get the little Franciscan study done during the summer, as I told you. Which reminds me that I thought the supplementary information you sent was a little sparse, but I'll write you about that in more detail when the time is ripe.

I am sorry about the anafu regarding your honorarium. I had made a trip to the departmental office right after you left, to ask them to be sure that the matter was promptly taken care of. Then I trusted to their efficiency and dropped the matter--a big mistake. Just a few minutes ago I checked with the office again and found that, sure enough, nothing had been done. I feel sure that you will now get the money. Incidentally, I didn't say a word to them about the amount, in the hope that you will get the regular sum, not just the transportation money that you say you requested. You did an outstanding job; why shouldn't you get a full honorarium?

Best regards to your family. We are wondering what brings you to Montreal--I do hope that you will not miss any chances to visit with us.

Cordially as ever,

Alfred Traverse
Associate Professor of Geology
and Biology

AT:kwc

Hunt Institute for Botanical Documentation

Eidg. Technische Hochschule
Geologisches Institut
Zürich

Ecole Polytechnique Fédérale
Institut de Géologie
Zurich

8006 ZÜRICH,
Sonneggstrasse 5

June 2, 1969

Dear Al:

Thank you for the stuff you sent me, the last printed matter came yesterday.

You must be as busy as ever, but I hope you write up the short note for your Franciscan study.

I greatly appreciate your hospitality when I was at Penn State. However, I have as yet to receive reimbursement for my NEw York State College fare, although I wrote Lauren that I would not need any honorarium more than the travel fare. Could you see if any is due me?

With best regards to the Family. I am off to Montreal tomorrow. This time I am smarter, they send their check before I buy my air ticket!

Your friend,

Len

HSU

16097/7
Hunt Institute for Botanical Documentation

29 March, 1966

Dr. Kenneth J. Hsu
Geology Department
University of California
Riverside, California

Dear Ken:

I greatly appreciated your letter of a while back and will get off a suitable reply to you and my godson one of these weeks.

In the maantime, I wanted to ask a favor. You mentioned in your letter that certain persons told you in November at K. C. that my situation here was tenuous and that I would not be back next year. I wonder if you would confidentially let me know (write me at home--5508 Coventry Lane) who it was who told you this. I will not reveal the source of the info, if you don't want me to tell. But when I leave here I regard it as the only courageous, ethical thing to do to lodge some sort of official protest against the unethical way I have been treated here. And one part of the deal is that in November, indeed until the first of the year, they were letting me go on thinking that I would be given consideration for another year or more here.

I still have my fingers crossed re Penn State, and it may yet go through (there are budgetary difficulties there, as seemingly everywhere). If it doesn't, do you suppose anybody in the California system would be interested in a man who can teach geology as well as biology (or philosophy, for that matter)?

When you're in Houston, please at least phone us (in the evening, when it's cheap!)

Have been corresponding with Ginsburg about my campaign to get to Shell to release at least something that I could publish. He only says "tut, tut", but he has suggested further collaboration between us on some more work that he is doing, and I enthusiastically grabbed at the chance. He's a good scientist and fine fellow, I shall always believe. DVH is a twerp.

Bless all of you.

Alfred Traverse