

Hunt Institute for Botanical Documentation
5th Floor, Hunt Library
Carnegie Mellon University
4909 Frew Street
Pittsburgh, PA 15213-3890
Telephone: 412-268-2434
Email: huntinst@andrew.cmu.edu
Web site: www.huntbotanical.org

The Hunt Institute is committed to making its collections accessible for research. We are pleased to offer this digitized item.

Usage guidelines
We have provided this low-resolution, digitized version for research purposes. To inquire about publishing any images from this item, please contact the Institute.

Statement on harmful and offensive content
The Hunt Institute Archives contains hundreds of thousands of pages of historical content, writing and images, created by thousands of individuals connected to the botanical sciences. Due to the wide range of time and social context in which these materials were created, some of the collections contain material that reflect outdated, biased, offensive and possibly violent views, opinions and actions. The Hunt Institute for Botanical Documentation does not endorse the views expressed in these materials, which are inconsistent with our dedication to creating an inclusive, accessible and anti-discriminatory research environment. Archival records are historical documents, and the Hunt Institute keeps such records unaltered to maintain their integrity and to foster accountability for the actions and views of the collections' creators.

Many of the historical collections in the Hunt Institute Archives contain personal correspondence, notes, recollections and opinions, which may contain language, ideas or stereotypes that are offensive or harmful to others. These collections are maintained as records of the individuals involved and do not reflect the views or values of the Hunt Institute for Botanical Documentation or those of Carnegie Mellon University.

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.

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

e-mail: bettyandal@juno.com

26 January, 1998

Dr. Volkan S. Ediger
Turkish Petroleum Corporation
Research Center
06520 Ankara, Turkey

Dear Volkan:

Betty and I are spending Jan. and Feb. in Florida before returning to (we hope) the last of the snow and ice in PA. Betty is working on a MS in her field (medieval German), and I am working on two palynological papers, using a small library I brought along, data generated at PSU, and of course our laptop computer, with modem and printer. I do not have with me my card file of addresses, so I can't use e-mail to contact you.

The reprints in the neat plastic cover were forwarded here and have been read with pleasure. Thank you very much. The Tortonian/Messinian paper reminds me of Miocene work I've done lately at PSU. The localities were mostly in Maryland. Your hydrocarbon potential paper was especially interesting to me because of info on cryptospores/spores from the Ordovician/Silurian. I hope to get a reprint of the paper with more detailed information that you all mention, when it is published.

The Ar-Ge'de Dünya Nereye Gidiyor article I could read without difficulty (though I did have to check a few words in the two Turkish dictionaries I brought with me.) "Ar-Ge" puzzled me until I got to lines 30-31, where it is explained. Regarding Fig. 1--interesting, but it should be noted, I suppose, that the USA had a tremendous lead in such expenditures for decades, and furthermore has much research and development that probably isn't counted (state governments, private foundations?).

The introduction to the atlas of biostratigraphy for southeastern Anatolia (neither otokton or istif is in my dictionaries, but I suppose something like autochthonous deposits?) Is the Atlas for sale? Maybe I could talk PSU library into buying a copy.

In October-November Betty and I spent several weeks in Germany. In Frankfurt I was at my old stomping grounds of the Senckenberg Museum. The day after we arrived a Turkish palynologist came also, and we liked her very much: Dr. Akgün ("Whiteday.") She

Hunt Institute for Botanical Documentation

~~also, and we liked her very much: Dr. Akgün ("Whiteday.") She~~ works in Izmir.

All the best. Regards to Elcin.

Very truly yours,

Alfred Traverse
Professor Emeritus of Palynology

Hunt Institute for Botanical Documentation

Received: from petrol.tpao.gov.tr (bati@petrol.tpao.gov.tr [194.27.220.2]) by pa
Received: (from bati@localhost) by petrol.tpao.gov.tr (8.6.12/8.6.9) id OAA12314
Date: Wed, 3 Apr 1996 14:24:08 +0300 (EET DST)
From: Zuhtu Bati <bati@petrol.tpao.gov.tr>
To: traverse@ems.psu.edu
Message-ID: <Pine.LNX.3.91.960403141937.12305A-100000@petrol.tpao.gov.tr>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Dear Al:

Thank you very much for your letter of March 17, 1996.

I talked to Kaya Ertug, Representative of IFPS about the subject.he told me that he has already sent the money (within the envelope). It appears that Jim hasn't received it yet.Please inform him.

I appreciate your kind offer to solve the problem...I'll send some Turkish books soon...I don't have the e-mail number but you can use one of my friend's (Dr. Zuhtu Bati).

Regards to dear Betty.All the best...

Yours truly,

Volkan S. Ediger

Hunt Institute for Botanical Documentation

Date: Wed, 3 Apr 1996 11:21:25 -0500 (EST)
From: "Alfred Traverse" <traverse@ems.psu.edu>
To: bati@petrol.tpao.gov.tr
Cc:
BCc:
Subject: various
X-NUPop-Charset: IBM 8-Bit

Dr. Volkan S. Ediger, c/o Dr. Bati:

Dear Volkan:

This is a marvellous way to communicate, isn't it? We have it on our home computer too (Alnbet@aol.com), and just yesterday I accidentally discovered that I have still another address at PSU, in case the one listed above ever fails: axt8@psu.edu (I haven't checked yet, but I guess the x means no middle initial. God knows what the 8 means.

I would have paid the very small amount of money to IFPS because of love for Turkey without further ado, but I thought I'd better check for fear it would offend somebody. Good thing I did, because it turns out that it was paid, as Canright has since informed me.

Under the circumstances you are certainly under no obligation to send Turkish books, but if you wish to--used is fine!--they would be much appreciated. I just finished a series called "Minik" this and that, Minik Ordek, Minik Kopek, Minik Sincap....That's about my level. With my teacher I study mostly the incredibly complex grammar--at the moment participles, infinitives and dependent clauses made from them. It's great fun.

Greetings to you and also to Elcin. Al. (My other Turkish friends, including my former teacher in Ankara, who could be Miss Turkey if she were interested, call me Alfred. In America male persons are allowed only one syllable as a normal thing--you would undoubtedly be Volk or Kan here.)

Hunt Institute for Botanical Documentation

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

17 March, 1996

Dr. Volkan Ş. Ediger
Türkiye Petrolleri A. O.
Araştırma Merkezi
Mustafa Kemal Mah. 2, Cad. No. 86-06520
Ankara, Türkiye

Dear Volkan:

Jim Canright, current president of IFPS, writes me that there is a problem about the Turkish palynologists--they haven't paid the assessment required by IFPS and are about to be omitted from the International Directory, which is in final stages of preparation.

I don't want this to happen to colleagues in one of my favorite places. I propose that I pay the assessment, which is only about $30, in exchange for as many children's Turkish books as you would care to send me. I have been reading the "Heidi" series published by Serhat, and it is about the right level for me.

I won't do this until I hear back from you that it's o. k. I know that there are bad economic and political problems in your country from my teachers, and from articles in the German newspapers to which we subscribe. I wouldn't be surprised if foreign exchange is one of the difficulties.

Regards to Elçin. All the best.

Yours very truly,

Alfred Traverse

c:J. E. Canright

P. S. Do you have access to e-mail?

Hunt Institute for Botanical Documentation

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

19 November, 1995

Dr. Volkan Ş. Ediger
Türkiye Petrolleri A. O.
Araştırma Merkezi
Mustafa Kemal Mah. 2. Cad. No. 86-06520
Ankara, Türkiye

Dear Volkan:

We are on an Alfred (or Al) and Volkan basis, aren't we? Don't worry, I'll "siz" you in Turkish instead of "sen" when and if I get bold enough to try either!

Thanks very much for your nice letter of 2 November. No, I never got an earlier letter. Makes me wonder if all my packages of publications have arrived--I should have numbered them. Guess I'll have to look further for the missing Pollen et Spores. Some of my publications do grow feet or wings right here in the lab. More duplicates will be coming to you.

The first of my Turkish lady teachers was Emine Kortan, whose father is, if I understood her correctly, a professor (of economics?) at your university. She finished her degree here and is back in Ankara. She is one of the most beautiful Turkish women I have ever seen, but beauty is admittedly hard to explain or quantify--"It's in the eye of the beholder." Emine is a linguist, and I tried to stimulate her to work on methods of teaching your language to foreigners. It is an incredibly difficult language, and that's one of the reasons I find study of it so much fun. Emine speaks picture-perfect English, by the way. My present teacher, İlknur Lider, is the best teacher of the three, though all have been very good. She also speaks marvellous English, but has trouble with some words--e. g., "vowel." The other teacher was Gülin Ofluoğlu, who had to move to Oklahoma when her husband got a job there. She is in landscape architecture (what an open field in Turkey!) and is a fascinating young woman. At Penn State she worked at the flower gardens, and her husband, Salih, is also interested in horticulture, so they enjoyed our place and the fruit from our orchards.

Betty was pleased by your greeting. She is working hard on getting publications out of her dissertation--she just finished

Hunt Institute for Botanical Documentation

one for an Austrian publication, which she had to write in German. It was to good to hear that your two ladies are getting along o. k. We often wonder if Elçin now heads up her own clinic.

Best regards.

Yours very truly,

Alfred Traverse

Hunt Institute for Botanical Documentation

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

U.S.A.

November 2, 1995

Dear Dr. Traverse

Thank you very much for your letter of October 13, 1995. I got the impression from your letter that you haven`t received the letter I sent you about a month ago. I had answered your questions there.

I checked again the material you kindly sent me. I haven`t received Pollen et Spores, v.6, no.2. Either you haven`t sent it to me or it is lost. The anwer to your second question is "Yes, Please". I`ll appreciate your sending the extra copies of your literature collection.

I am glad to hear that you continue studying Turkish. You are lucky that you can find some Turkish ladies to teach you Turkish. I certainly agree with you that the ladies are much better teachers than men.

Everything is fine with us. I am teaching a graduate course entitled "The economics of energy resources" at the Middle East Technical University. I was quite busy this year. I gave two papers at "The Symposium on Thrace Basin Geology" and one paper in Baku, Azerbaijan I will also give a paper at "The Geology of Gondwana" and in Turkmenistan in November. Şirin and Elçin are doing quite fine too.

Greetings to Dear Betty. All the best.

Yours very truly,

Volkan Ş. Ediger

Volkan Ş. Ediger

Hunt Institute for Botanical Documentation

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

13 Oct., 1995

Dr. Volkan S. Ediger
Türkiye Petrolleri Anonim Ortakligi
Arastirma Merkezi
Mustafa Kemal Mah.
06520 Ankara, Türkiye

Dear Volkan:

I've misplaced my directions for getting Turkish letters with Word Perfect and must correct them by hand this time (except umlauts, which are the same as in German).

Perhaps you'd be interested that I'm having a marvellous time with the Turkish language studies on which you got me started, so very long ago. I'm now studying with my third Turkish teacher. I try to get graduate student wives. Women are far better teachers than men. But the husbands eventually finish, and they move on. Currently I have Ilknur Lider. She comes from the Kara Deniz area, as does her husband, but they met at Penn State. She is also a graduate student in her own right and is a marvellous teacher.

A while back I wrote you with two questions. First, I think I may have made a mistake and sent you a Pollen & Spores number that I shouldn't have (Vol. 6, no. 2). I may even have sent two of them--in which case, keep one and send one back. If I only sent one of them, please return it. Secondly, I wanted confirmation that you still want me to keep sending duplicates. I have other former students who could use them if you don't really want them. I'm going to send a copy of this letter to the home address I have also, with the idea that maybe the lab address isn't working.

I guess I probably told you in my last letter that I became officially emeritus on 30 June. It doesn't matter much, except my pay is less, and we don't have as good medical insurance. I am still giving the palynology course as usual. My projects go on. Betty isn't as available to help me since she got her Ph. D. in May--she's working on publications that will come out of the dissertation. (Mediaeval German, in case I haven't previously mentioned it.)

Greetings to Elcin. (I was reminded of her by one of my vocabulary words this morning--Elci--Gesandte in German. Just for the fun of it, I learn all my Turkish vocabulary in German.)

All the best.

Yours very truly,

Alfred Traverse

Hunt Institute for Botanical Documentation

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

14 July, 1995

Dr. Volkan Ş. Ediger
Türkiye Petrolleri Anonim Ortaklığı
Araştırma Merkezi
Mustafa Kemal Mah.
06520 Ankara, Türkiye

Dear Volkan:

Greetings. I have first an emergency: I am wondering if I made a mistake and already sent you Pollen et Spores Vol. 6, no. 2? According to my records (I put it all in a computer file) I have only sent no. 1 from Vol. 6. However, I needed to copy material out of no. 2 before I sent it. Could you please check for me and let me know the situation? I may even have sent two copies of no. 2 by mistake. Things have been very hectic around here since the first of the year because of my formal retirement (it isn't going to affect much except the source of my monthly income), and Betty getting her Ph. D. at the Spring Commencement.

I'm really to have this opportunity to write anyway, in addition to the abovementioned emergency. There hasn't been much reaction from you regarding the literature. I will be soon in a position to start sending more--IF you want it. Let me have some reaction when you write me about P & S. 6:2.

Best to Elçin.

Yours very truly,

Alfred Traverse

Hunt Institute for Botanical Documentation

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

11 March, 1994

Dr. Volkan Ş. Ediger
Bardacık Sokak 89-12
Kuçükesat
Ankara, Turkey

Dear Volkan,

Merhaba! Nasılsınız? Finally I had a few minutes today to grab a few of things that are duplicates that you or somebody in Turkey can perhaps use. There'll be lots more as I find time to take care of this.

I'm sending the publications to your business address, but can send those packages to the above address if you'd prefer.

My Turkish studies are going along well. I spend about 30-60 mins. a day on it, but the most important thing is that I never skip a day. I have my lessons on Mondays. The young lady is a great teacher. It's interesting to me that the number of words of which one has to have a good command to begin using a language is about the same for all languages I've tried--3 to 5 thousand.

All the best, and to your two ladies.

Yours very truly,

Alfred Traverse

Hunt Institute for Botanical Documentation

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

11 March, 1994

Dr. Volkan Ş. Ediger
Türkiye Petrolleri Anonim Ortaklıgı
Araştırma Merkezi
Mustafa Kemal Mah.
06520 Ankara, Turkey

Dear Volkan:

Am sending you at the above address the first small batch of publications about which I wrote earlier. I hope somebody in Turkey can use them. There will be many more, as I have time to sort! (P. S.: actually, I packed up a box with about ten publications but ran into an immediate problem with the department mail office--who's going to pay, etc. So, I have a new scheme--I'll mail 'em one at a time!)

I enclose a copy of the letter I was going to send on the same subject to what I believe is your home address. If it's wrong, please let me know. I'd like to have your home address. The last phrase interested me. Means a little something, but I don't find "esat" in my dictionaries. Where should I send the publications?
If you have a fax number, you could send that to me also at your convenience?

All the best. Görüşmek üzere.

Yours very truly,

Alfred Traverse

enclosure: other letter (not mailed)

Hunt Institute for Botanical Documentation

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

24 September, 1993

Dr. Volkan Ş. Ediger
Türkiye Petrolleri Anonim Ortaklıgı
Arastirma Merkezi
Mustafa Kemal Mahallesi
06520 Ankara, Turkey

Dear Volkan:

Many thanks for your kind letter of 9 August, which did not arrive until today because the envelope was not up to the trip. The US Post Office repackaged it and included a little note about what happened. When bureaucracy gets into the picture anything can happen. But I'm very happy that apparently all arrived in good order, except the very nice Turkish stamps were all messed up, etc. The three books were perfect--not damaged at all.
They are great because I can already read some of the sentences even without my dictionary.

This is an interesting experience in terms of how hard it is to learn a language. My vocabulary is now about 1000 words, but I still can't read or speak. That's why Americans don't learn languages--they expect success too soon and get discouraged. I have completely finished the little book you gave me and am reading the stories at the back, about Hoca Nasreddin. Dr. Ertekin helped me find a young Turkish woman who will start next week to help me with pronunciation. I also need a lot of help with grammar, as it seems so irregular--I learned the conjugations and declensions in the little book, but the endings seem to vary all over the lot. In German if you learn the endings that's it, but that rule of euphony in Turkish is confusing!

I am so pleased that you would like the extra reprints and will start sending packages right away. Actually, I don't know what to do with my marvellous library and collections when I'm finished here. It should go somewhere where it will be kept together and be used by palynologists. Carnegie Museum still gets it all according to my will, but I'm going to change that one of these days because they have made clear that they wouldn't keep it together but would spread it around in various departments and throw much of it out.

Best regards to you, Elçin, and Şirin.

Yours very truly,

Alfred Traverse

Hunt Institute for Botanical Documentation

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

August 9, 1993

Dear Dr. Traverse:

Thank you very much for your letter that I received a couple of months ago. I am sorry I couldn't write you immediately because I have been really busy for last months.

As you might know I became the Deputy Head of the Research Center about six months ago. I am also teaching at the Middle East Technical University. Elçin and Şirin are doing quite well. Şirin is now a pretty young woman speaking English, French and Turkish. She is always in 1 % in her class. Elçin is also happy with her job in the dental clinic of the Ministry of Health.

Enclosed are some of Şirin's books. I purposely picked the ones with pictures. I thought it would be easier for you to read them. If you need more of those please let me know.

I will appreciate if you could send me the duplicate reprints in your library. I'll check them and give the ones that I already have to the TPAO's or Company's library with a note stating that they are the presents by courtesy of Prof. Dr. Alfred Traverse from the PSU.

Regards to Betty and the friends from the PSU.

Yours very truly,

Volkan Ş. Ediger

Volkan Ş. Ediger

Hunt Institute for Botanical Documentation

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

15 April, 1993

Dr. Volkan S. Ediger
Türkiye Petrolleri Anonim Ortakligi
Mustaafa Kemal Mah.
06520 Ankara, Turkey

Dear Volkan:

I hope you're flourishing. You are often in my thoughts. We had some good times together.

You may recall (unlikely) that you gave me a little purple book, "Turkish made easy...." I finally have started studying it seriously, have bought a tape to help with pronunciation, a dictionary, and some other helps. The dictionary is Turkish/German because it was bought in Germany. So far I am impressed with how easy Turkish is, but I thought that about Russian too, and then I ran into the verb structure! In fact, I was reminded of Russian when I started because Russian also has no gender, which is so simple compared to German. I am now perfectly fluent in German, but I make many mistakes with gender--it's so irrational. I made a couple of good Turkish friends in Germany, and that pushed me over the edge into learning your language. We correspond in German, and that seems silly, but they know no English. Question: do you have any disposable old children's books of Sirin lying around? I could read them--that method worked when I started Russian.

Which brings me to the second subject. I have piles and piles of duplicate palynological reprints, journals, etc. Could you use them, or do you have a complete library already? If you couldn't personally use them, do you know of somebody who could?

Regards to Elcin and Sirin.

Yours very truly,

Alfred Traverse

P. S. The only real problem I have with elementary Turkish is i vs. i. After 60 yrs. of dotting all is, that's hard.

Hunt Institute for Botanical Documentation

THE PENNSYLVANIA STATE UNIVERSITY
DEPARTMENT OF GEOSCIENCES
PALYNOLOGICAL LABORATORIES
435 Deike Building
University Park, PA 16802
phone: 814-863-3419
fax: 814-863-7823

17 April, 1991

Dr. Volkan Ş. Ediger
Turkish Petroleum Co.
Müdafaa Cad. No. 22, P.O. Box 209
Bakanliklar, Ankara 06420, Turkey

Dear Volkan:

Thanks for yours of 27 March, and the nice comments.

Things are very hectic here, but my "luck" is running better than last year. I have a sabbatical for 1992, and a Fulbright Scholar award, which I"ll use in Frankfurt. Betty will continue her Ph.D. work in German there. I also was awarded the (biennial) Indian International Medal for 1990-91 for accomplishments in paleobotany/palynology. I go to India in November for that.

Best to Elçin. Can Şirin still speak English?

Yours very truly,

Alfred Traverse

AT/et

Hunt Institute for Botanical Documentation

TURKISH PETROLEUM CORPORATION
RESEARCH CENTER
06520 ANKARA, TURKEY
Phone: (4) 287 53 88

Dr.Alfred Traverse
The Pennsylvania State University
Dept. of Geosciences
University Park, PA 16802
USA

March 27, 1991

Dear Alfred and Betty:

Thank you very much for your letter of January 21, 1991. I always wanted to write you but didn't have time. I am extremely busy during these days. I have 70 people working with me and am also teching at the Middle East Technical University.

I am glad that you liked my papers. We could have written several papers together but we somehow couldn't manage it because of the reasons you know very well. I think it is time for both of us to forget the past. I've got all kinds of facilities and a very good technical support here. It seems to me that we can still work on some projects together if you are willing to. Please write me on this.

I am sorry to hear that you had some bad times in 1990. I hope you will have a much better year in 1991 than the last year.

The Gulf War didn't affect us at all. Everything was quite normal here and was exactly the same as before.

All the best to you both.

Yours very truly,

Volkan S. Ediger

Dr. Volkan S.Ediger

Hunt Institute for Botanical Documentation

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

21 January, 1991

Dr. Volkan Ş. Ediger
TPAO Research Center
Müdafaa Cad. No. 22
06420 Bakanlikar
Ankara, Turkey

Dear Volkan:

Thanks for yours of 20 Dec. I thought we were on a Volkan-Alfred basis. If not, I would like to be!

I appreciated the reprints very much. So far I've only had time to read cursorily, but they are in a bag now, in the place where papers-to-be-read stay until they <u>are</u>! It looks as though the PCA-cluster and Triassic boundary papers should be especially important to us here. I have been too busy for a long while to send out reprints to my mailing list, although I <u>have</u> kept up with requests.

We reciprocate the New Year's greetings. 1991 could hardly help being a better year than 1992 for me! Most significant for me was my mother's collapse in May, move to a nursing home, operation and death in October. My sister and I had to close, empty and sell her home, etc., etc. But lots of other hard blows also came in '90--for example, Andy Schuyler had to quit because of incurable eye disease, and Judi Wakhungu (a <u>very</u> promising Ph.D. student from Kenya) just <u>quit</u> suddenly, after passing (with flying colors) her candidacy exam.

All the best to Elçin and Şirin.

Yours very truly,

Alfred Traverse

AT/et
encl: papers

Hunt Institute for Botanical Documentation

TURKISH PETROLEUM CORPORATION
RESEARCH CENTER
06520 ANKARA, TURKEY
Phone: (4) 287 53 88

December 20, 1990

Dear Dr. Traverse,

Enclosed are the reprints of my recent publications. I would greatly appreciate if you could kindly send me yours.

I wish you and your family a happy New Year.

Yours truly,

Volkan S. Ediger

Dr. Volkan Ş. Ediger
Manager,
Exploration Laboratories

Best wishes to Dear Betty.

Hunt Institute for Botanical Documentation

-E10

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

20 August, 1990

Dr. Volkan Ş. Ediger
Turkish Petroleum Co.
Müdafaa Cad. No. 22, P.O. Box 209
Ankara 06420, Turkey

Dear Volkan:

Thanks for the Dicolpopollis reprint--enjoyed it. Thanks also for the enclosed card. Yes, we're basically o.k., but it's been a very difficult period for me, especially. Since my mother's situation began to come apart in 1987, I've spent months of each year out there. Finally in May of this year we had to put her in a nursing home, empty and sell her house, etc. This morning the final papers were signed to complete the sale, so for the first time in my life, there is no parental home. Also, since both our daughters are now here without husbands (but each with a small son--2 and 3 years old), Betty helps out with baby-sitting when one of the kids is ill or one of the mothers has to work on the weekend when the day-care center is closed.

Betty got her M.A. last Saturday and will go on for a Ph.D. Influenced partly by that, I will not retire. We have applied for a sabbatical in Germany in 1992.

Best to Elçin and Şirin. We worry about your part of the world.

Yours very truly,

Alfred Traverse

AT/et

Hunt Institute for Botanical Documentation

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

27 July, 1989

Dr. Volkan Ş. Ediger
Turkish Petroleum Co.
Müdafaa Cad. No. 22, P.O. Box 209
Ankara 06420, Turkey

Dear Volkan:

How nice to hear from you. The Pediastrum paper is very interesting. I find some samples of Trinity River, Texas, water packed with thousands of them, of various spp.--one is almost identical to some of yours. Have you wondered, as I have, how such cells, presumably cellulosic, are preserved? Is there really sporopollenin? (color doesn't seem right).

Thanks also for the fungal spore paper. It's fun to have another species named for me! Thanks. I studied the photos for a while to see if there's a hidden joke, as Lacrima- made me wonder. I derive some amusement just from the fact of a fungal spore with my name. The paper is very nice.

The enclosed messare is addressed to "Dr._____." I think it is long since time for you to be on an Al or Alfred basis. Indeed, your successors here now call me that. I gave up fighting it. American male persons get one syllable, so although I prefer "Alfred," I don't fight that anymore either. If you were an American you'd be either "Volk," "Kan," or (most likely) "Ed."

Now about your "last letter"--Betty and I are drawing a blank--unless you mean your postcard of 26 Aug. 88. That I answered on 10 Oct. 88. I thought in the meantime Bruce had taken advantage of his free year at Columbia to complete his part of the MS and get it off to you. If this is not true (as I also said in mine to you of 10.X.88), let me know what you would like me to do (call BC?--if so, with specifically what message?).

All the best, and greetings to Elçin and Şirin (who doubtless remembers little about her USA days).

Yours very truly,

Alfred Traverse

AT/et
encl

Hunt Institute for Botanical Documentation

± 10 July '89

Dear Dr. Traverse :

☐ I would greatly appreciate if you could kindly send me a reprint of your article entitled :

☐ I acknowledge, with many thanks, the receipt of your article entitled ·

Enclosed are two reprints of my recent publications, including L. traversii Ediger and Alişan 1989. I hope everything is o.k. with you and Betty. I am looking forward to hearing from re: the matters I mentioned in my last letter. ??

Sincerely yours,

Vochan S. Ediger

Turkish Petroleum Corp: 237090/170
Middle East Technical Univ: 237100/2682

Hunt Institute for Botanical Documentation

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

10 October, 1988

Dr. Volkan S. Ediger
Turkish Petroleum Co.
Müdafaa Cad. No. 22, P.O. Box 209
Ankara, Turkey 06420

Dear Volkan:

Your card of 26-VIII-88 was here when we got back from 7IPC--where you were missed! Betty and I had a fine trip of it, and it was all the more joyous for us, as she had emergency surgery (hysterectomy-plus) on 19 July, and was able nevertheless to take off in just three weeks for Hawaii and Australia, on 9 August.

I understand your feelings per the card very well, and I share your frustration. The problem, of course, is B.C. I don't control him any more than I do you. He is now with Paul Olsen at Columbia, and their grad student, Sarah Fowell, is here for a semester to take the palynology course and to get whatever we have to offer.

What would you suggest I do?

Best, also to dear Elçin and Sirin.

Yours very truly,

Alfred Traverse

AT/et

Hunt Institute for Botanical Documentation

August 26, 1988

Dear Alfred :

☐ I would greatly appreciate if you could kindly send me a reprint of your article entitled :

☐ I acknowledge, with many thanks, the receipt of your article entitled ·

I've also written to Cornet today. I am sick and tired of waiting for you guys. I think four years are more than enough for it. If I don't hear from you soon re: our joint paper, I am going to publish it by myself!

Sincerely yours,

Vedat S. Ediger

Turkish Petroleum Corp: 237090/170
Middle East Technical Univ: 237100/2682
CC: Cornet

Hunt Institute for Botanical Documentation

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

30 March, 1988

Dr. Volkan Ş. Ediger
Turkish Petroleum Co.
Müdafaa Cad. No. 22, P.O. Box 209
Bakanliklar, Ankara, Turkey 06420

Dear Volkan:

You will have received Prof. Schweitzer's letter of 20 March '88. I am not involved in the dealings between you and him, but I need to set the record straight on one thing. He sent me your MS, assuming that I am like a German professor and can give you orders--he told me what should be done about this and that. I simply packaged it up and returned it to him immediately, noting that you are even more independent than the average American Ph.D. student, and I have no control over you at all. I told him he must deal with you, not me. I did not tell him I discussed your MS with others, and I haven't discussed it. I don't know where that is coming from. I simply shipped the MS back to Bonn.

No more word from Cornet about the famous "joint paper"--one day I'll call him again about it.

All the best to you and the family.

Yours very truly,

Alfred Traverse

AT/et

Hunt Institute for Botanical Documentation

Prof. Dr. H.J. Schweitzer
Institut für Paläontologie
der Friedr.-Wilh. Universität Bonn

D 5300 Bonn 1, den 20.3.1988
Nussallee 8
West-Germany

Herrn Kollegen Traverse
mit besten Empfehlungen
zur Kenntnisnahme
H.-J. Schweitzer

Dr. Volkan S. Ediger
c/o Turkish Petroleum Corporation
Müdafaa Cad. No. 22 P.O. Box 209
Bakanhklar,
A n k a r a , Türkei

Dear Dr. Ediger,

thank you very much for your manuscript, which arrived safely and also for your second letter. Immediately after the arrival of the manuscript I read it and found that it coulnd't be accepted for Palaeontographica in the present form, because a lot of literature is not considered. This concerns for instance also the works of all my pupils. We had been busy with Upper Triassic and Jurassic spores of the Orient (Persia & Afghanistan) as well as of Southern Germany since 1971 and four rather extensive Palaeontographica papers appeared. Therefore I returned the manuscript to Prof. Traverse in order that he should discuss the problems with you. However, today I received your manuscript once more with an enclosed letter by Prof. Traverse. He discussed the manuscript with several American colleagues and they all agreed like me that the manuscript should not be published in the present form. It must be thouroughly revised.

I enclose a reprint in which all our results in stratigraphical respect are mentioned and new European literature is cited. That does not mean at all that you should take over our opinion but at least it can be expected that these extensive stratigraphical results and the far-reaching correlations are considered.

Furthermore tne manuscript does not agree with the instructions for authors of Palaeontographica. That means mainly that all genus and species names must be underlined wavely and all author names in a broken line. I enclose the instructions for Palaeontographica authors.

As to the plates: Plate 16 and 17 could be omitted because they are nearly worthless. The spores on plate 8 fig. 1, plate 12 fig. 3 and 4, plate 13 fig. 1, plate 15 fig. 1 and 2 should be reduced in scale because they are too large and do not show special structures. I know the problem:

Hunt Institute for Botanical Documentation

These large spores are figured in the same scale as the smaller ones. However, they are too big. Please consider the print of a plate is very expensive (1 plate about 350,-- DM) and we have to take care that Palaeontographica should not grow too expensive.

After the revision of the manuscript you should send it to Prof. Matten, who is the responsible co-editor for manuscripts of American authors or American themes.

With best regards
Yours sincerely

H. D. Schweitzer

1 encl.

Hunt Institute for Botanical Documentation

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

21 September, 1987

Dr. Volkan S. Ediger
Turkish Petroleum Co.
Müdafaa Cad. No. 22, P.O. Box 209
Ankara 06420, Turkey

Dear Volkan:

There have been a number of complaints that the source of figured specimens in your thesis plates is not given. Could you provide me with a list of such? Shouldn't be a big job, just a list:

Pl. 1, Fig. 1, xyz
Pl. 1, Fig. 2, yzx
Pl. 1, Fig. 3, as 1 [whatever], etc.

Thanks.

Yours very truly,

Alfred Traverse
~~Professor of Palynology~~

P.S. Did you ever get more info re a sample with good locality data etc. of jet from the original Gagat place?

AT/et

Hunt Institute for Botanical Documentation

18 June, 1987

Dr. Volkan S. Ediger
Turkish Petroleum Co.
Mudafaa Cad. No. 22, P.O. Box 209
Bakanliklar
06420 Ankara, Turkey

Dear Volkan:

Betty and I were gone from 31 May until a few days ago on a mixture of business and family matters. Your MS and letter were therefore both here on our return. Now I am madly trying to get MS for Berlin (July) and MS for Calgary (Aug.) meetings ready. Also, the publishers "lost" one of my textbook plates with 41 photos--we must reconstruct immediately (also the computer printer is in for repairs, so it's back to the typewriter--Betty).

Therefore I have only checked your MS for obvious errors. ThedEnglish is 99% very good. There are some tiny nomenclatural errors. However, I have not checked synonymies, etc. As you wanted this back two weeks ago (....!) I guess we'd better mail it yesterday! There just isn't time to do the systematics.

Re your letter of 22 May: nothing more on joint paper, but I have not forgotten it! Re letter of 5 June: I noticed the "surprise" with pleasure.

Best to Elcin and Sirin!

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

encl:MS & reprint

P.S. We will spend 8 days in Greece in August on a Bot. Cong. field trip. I can already taste the Baklava!

Hunt Institute for Botanical Documentation

Dr. Volkan S.Ediger
Turkish Petroleum Corporation
Research Center
Ankara, TURKEY
(41)-223 70 90

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

June 5, 1987

Dear Traverses:

Thank you very much for the Betty's letter of May 19, 1987. I hope you received and sent the manuscript on the fungal spores back to me by the time this letter reaches you.

I tried to solve the reprint problem by sending its xerox copies to the colleagues who requested it.

I hope you liked my surprize in the text ! I am still looking forward to hearing from you about our joint paper.

We also often think of you. All my best to you both.

Yours very truly,

Volkan S. Ediger

Dr. Volkan S.Ediger

p.s. I agree with Betty. You can keep the items on my paper there. Room 435 is probably the best place to store the things on paleopalynology !

Hunt Institute for Botanical Documentation

Dr. Alfred Traverse
The Pennsylvania State University
Department of Geosciences
435 Deike Bldg.
University Park, PA 16802
U.S.A.

May 22, 1987

Dear Dr. Traverse:

I know well that you are a very busy man, but I still would like to ask you to take a look at the enclosed manuscript since you are one of the best English-speaking editors I've ever known and also are a good systematist who knows the rules of the I.C.B.N. better than anyone among us. Besides I have a little surprize! for you in the manuscript. I hope you'll like it.

This paper summarizes the studies done on the fungal palynomorph biostratigraphy of the Thrace Basin. These studies started in 1977 and many people contributed it. I've corresponded with Dr. Elsik on the subject several times. Although he made some suggestions to improve the quality of the paper but he could not accept to edit it formally because he is now very busy in compiling his previous studies on the fossil fungal spores for a publication. He could edit it in a couple of months.

Unfortunately, I have a deadline to meet and I cannot wait for Dr. Elsik to edit it. The authorities of the company urge me to publish this paper A.S.A.P. So you have a limited time to work on the manuscript. I am sure that you'll try to do your best. However, for any reason, if you cannot finish it in a week or so, please send the manuscript back to me as soon as possible.

I presume you received my letter on our joint paper. I am still waiting to hear from Dr. Cornet about it.

I am sorry if this may cause you any inconvinience. Best wishes to you and Dear Betty as ever. We always talk about you and our visit to U.S. at home.

Yours truly,

Volkan S. Ediger

Volkan S.Ediger

P.S. Draftman is still working on the figures. The enclosed table and the figures are the copies of the first draft.

Hunt Institute for Botanical Documentation

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

19 May, 1987

Dr. Volkan S. Ediger
Turkish Petroleum Co.
Müdafaa Cad. No. 22, P.O. Box 209
Ankara, Turkey

Dear Volkan:

The original plates an figures from your paper in Micropaleontology were returned to you here (see enclosed letter). It is quite a large package, so I thought I would check before forwarding it, to see whether you want these items, or whether you want us to keep them here. Just let me know.

Also enclosed is a request postcard from Deb Willard. It really is a shame that we couldn't afford reprints! National Science Foundation is being really stingy lately--latest Triassic proposal also turned down, but we're still fighting! The Devonian work has been funded, though at a much lower figure than originally proposed.

We think of you all often and wish you well. Things are the usual frantic mess around here, as we prepare for the International Botanical Congress in Berlin in July, etc., etc.

Yours as ever,

Elizabeth Traverse
Research Assistant

Hunt Institute for Botanical Documentation

What happened to our joint paper ??

Dear Betty and Al: 15-I-87

☐ I would greatly appreciate if you could kindly send me a reprint of your article entitled :

☐ I acknowledge, with many thanks, the receipt of your article entitled ·

Please note the change of address

Betty, I am terribly sorry about my mail business. I've sent my change of address to everybody but some people still send their mail to the Penn State.

With all my best. Sincerely yours, Love

Volkan S. Ekiz

Turkish Petroleum Corp: 237090/170
Middle East Technical Univ: 237100/2682

Hunt Institute for Botanical Documentation

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

27 January, 1987

Dr. Volkan Ş. Ediger
Turkish Petroleum Co.
Müdafaa Cad. # 22, P.O. Box 209
Ankara, Turkey

Dear Volkan:

Thanks for postcard--very impressive!

I have been on the phone repeatedly re the joint paper. I can report that both Bruces claim to be well along toward completing their parts. However, I may have more trouble with B.C. re his demand to have all Richmond Basin slides to "redo the palynoflora." We'll see.

Don't worry about mail--I just put a [redacted]note-tab on the items: "forward to VE" and it happens.*

Best.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

*Al is right--mail really no big problem--will sort itself out in time. Betty.

Hunt Institute for Botanical Documentation

7 January, 1980

Dr. Volkan S. Ediger
Türkiye Petrolleri A.O.
Müdafaa Cad. No. 22, P.O. Box 209
Bakanliklar, Ankara
Turkey

Dear Volkan:

Thanks for yours of 24 November, which arrived during the end of semester madness here, and thus has waited a while for answer. Also, Betty's father mercifully died on 22 November, and that cost us quite a bit of time, as you can imagine. (Her mother had a serious stroke, and her brother a very serious stomach operation the same week.)

Good to get your news. Looks as if you might have the best of both worlds. I look forward to seeing Elcin's clinic one day. We are very fond of her. Sirin should keep up her English and plan to play a role in Turkey's political future. Will Turkey be ready for a woman president?

Thanks for additional info re samples. That subject is now also on my mind because I have a strange request from Bruce C. He wants a slide of each of your preparations, in order to "redo the palynoflora." We don't have time to make all those slides anyway, but I also wouldn't do it without your o.k. For the moment I am contenting myself with forgetting to answer. Poor Bruce is still unemployed, but that means that he is free to do whatever he pleases, and he has a home office set up, as well as the use of a consulting lab's processing facilities.

Re your paper in Micropaleo.: the author is supposed to get a few free copies, I believe. Why not write to them? I just went to Dr. Alexander for plate charges for Farley's forthcoming paper in the same journal and failed there too. However, my Devonian project now has some NSF funding, and I'll be able to pay in January. It is not common for universities to pay such costs for students. Harvard didn't pay for any reprints when I was there, for example.

The joint paper is still hung up on the drafting from Bruce C. He may make the big order of slides a sine qua non?

Greetings to you and the ladies.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et (hi!)

P.S. Thanks for new addresses.

Hunt Institute for Botanical Documentation

TURKISH PETROLEUM CORPORATION

TÜRKİYE PETROLLERİ ANONİM ORTAKLIĞI

Capital : 2.000.000.000.— TL.
Address : Müdafaa Cad. No. 22 P. O. Box 209 Bakanlıklar, Ankara, Turkey
Cable : Petrol Ankara, Turkey
Telex : 42426 TPAO. TR, Ankara, Turkey

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

November 24, 1986

Dear Dr. Traverse:

Thanks for the letters of September 30, 1986 and November 4, 1986. Sorry for my hand writing. I hope you won't have any difficulty in reading it. They still didn't assign me a secretary!

I began working for the Turkish Petroleum Corp. Research Center in Ankara about a week ago. I also am teaching a graduate-level course on the paleopalynological biostratigraphy at the Middle East Technical University. Elçin's connection with the dental equipment dealers is continuing. As soon as we find a suitable place she will have her own clinic! Şirin is doing very well with school. Her Turkish and English is about the same now, but I am afraid she is loosing

TP-Stok No. : 78.130.030 (20.000 Adet)

Hunt Institute for Botanical Documentation

TÜRKİYE PETROLLERİ ANONİM ORTAKLIĞI

Capital : 2.000.000.000 — TL.
Address : Mebusan Cad. No. 22 P. O. Box 209 Balgatlıklar, Ankara, Turkey
Cable : Petrol Ankara, Turkey
Telex : 42429 TPAO. TR. Ankara, Turkey

We also think of you often. We already missed you and State College. With our best as ever.

Yours Very truly.

Vedat S. Eldiş

P.S. Elçin and Sirin send their best to you both.

Home:
Bardacık Sok. 89-12
Küçükesat - ANKARA

Office
Turkish Petroleum Corp.
Research Center
Ankara

Hunt Institute for Botanical Documentation

13 November, 1986

Dr. Volkan S. Ediger
Tandogan Meydani
Turgut Reis Cad.
Barbaros Apt. 4/5
Ankara, Turkey

Dear Volkan:

The primary reason for writing is that I am suddenly reminded by a paper I just read of my long-standing interest in jet (= gagȯt). The original location for jet was not Whitby, England, which later made it famous, but an area of Turkey, whose name is the source fo "Gagot". I have in the past written letters to Turkish geologists, asking if they could rediscover the source and get me some sizable (1 kg.?) samples thereof to experiment with. Samples of the enclosing rock would also be helpful - ±essential. Want to have a crack at it for me? Any chance you ɯould visit the locality? It must be fairly near one of the ancient settlements.

Cornet and Ziegler have requested xerox copies of your thesis, and I lent them mine for that purpose--what about the plates, though--Cornet would like photocopies, not xeroxes. Can you think of any way to accomplish this? One way would be to loan the original plates to me for a couple of weeks to have them photo-copied. I'd return them insured (thus, registered), which is the way they should be sent too. I am in touch with B.C. practically every day about the drafting, etc., re the famous joint paper. I'm not dragging my feet on it. We at present need a certain map from B. Goodwin for B. Cornet to use.

Paul Olsen is trying to arrange a job at Columbia for B. Cornet. If it goes through, I guess I'll have to settle for the Devonian!

People at AASP all asked after you.

Best to you and the family.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

Corresp.

Dr. Volkan Ş. Ediger (Elçin, Şirin)
Tandoğan Meydani
Turgut Reis Cad.
Barbaros Apt. 4/5
Ankara, Turkey

1980 (after return to Turkey)

Hunt Institute for Botanical Documentation

30 September, 1986

Dr. Volkan S. Ediger
Tandogan Meydani
Turgut Reis Cad.
Barbaros Apt. 4/5
Ankara, Turkey

Dear Volkan:

Thanks for the card of the dam in Ankara---with the good news of your safe arrival in Turkey, etc.

We were delighted to hear that Sirin took hhhemove in stride. We were concerned that she might say, "This country is a mess. I want to go home."

Nothing as yet about the paper, tho' Cornet calls me all the time about "his angiosperms."

Best.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

Çubuk Barajı
The Çubuk Dam
ANKARA-TURKEY

IX-66

Dear Dr. Travis and Betty,

After a nice vacation in Istanbul, we came to Ankara 2 days ago. It is terribly hot and dry here. Everything looks very different to us. after four years. Some of the things are better others are worse than it used to be. I do not know how long it will take to adopt ourselves to Turkey again. It is really very nice to be with our friends and families again. Especially Sirin liked it very much here. I am very busy during these days. I'll write you in detail soon.

With all our best Ediz ers.

P.S. Thanks for everything again! Please say hello to everybody.

06 - 70

AND KARTPOSTAL ve YAYINLARI KOLL. ŞTİ. 32405
Ankara Cad. Nakipoğlu İş Hanı No. 60/1 Sirkeci-İSTANBUL Telefon
Şube Hükümet Cad. Adliye Sokak No:4/E Ulus-ANKARA Telefon 86 74

Hunt Institute for Botanical Documentation

Copy

Volkan S. Ediger
Alfred Traverse
Palynological Laboratories
The Pennsylvania State Univ.
Deike Building
University Park, PA 16802

March 3, 1986

Dear Volkan and Al,

Thank you for your recent letter regarding a joint paper on the stratigraphic classification and summary of the geology of the Richmond Basin. I have worked up a proposal for a study on the palynological zonation, organic-matter facies, and petroleum potential of the Richmond-Taylorsville rift system, and hope to get industry participation. In this study I will have to establish the basic stratigraphy, and show how the stratigraphy was influenced by structure in these basins.

Much of my data comes from the enormous wealth of well logs and outcrop information available, published and unpublished. I have already worked out the major stratigraphic units and the depositional facies they contain. Because of the my understanding of the geology, I forsee a period of learning on your part before any paper could be written. The literature and outcrop data are insufficient for an accurate publication, and the surface geology isn't what published maps would like us to believe. In this regard, I forsee my contribution to be the basis for a simplified geologic framework, and your contribution to be some of the outcrop examples of lithologic sequences within that framework. I do not feel that we know enough yet to go further, and we may have differences of interpretation and opinion that could make cooperation difficult. Even Dan Ziegler of SEPCo and I have our differences, since Dan has interpreted the basins using the conventional half-graben model.

Some fundamental differences with previous concepts of Richmond-Taylorsville geology are:

OLD CONCEPTS	NEW CONCEPTS
The Otterdale SS overlies the Vinita Beds, and interfingers with Vinita Beds shales at depth.	The Otterdale SS is lithologically distinct from the underlying Triassic, and fills deep erosional canyons.

Hunt Institute for Botanical Documentation

OLD CONCEPTS	NEW CONCEPTS
The Otterdale SS is Triassic in age.	The Otterdale SS is probably basal Jurassic, and contains a basal conglomerate composed of large shale clasts with palynomorphs indicating the source of the clasts from much older strata at the tops of local buried structure.
The Vinita Beds underly the Otterdale everywhere.	The Vinita Beds are exposed only where structural deformation has brought them to the surface. In wells, the Vinita Beds can be recognized both lithologically and palynologically, and they blanket basement except on top of some of the highest buried structure, where they may be absent.
All strata under the Otterdale SS can be assigned to the Vinita Beds.	The Vinita Beds are overlain by as much as 3,800 ft. of lacustrine-deltaic sediments that have limited exposure at the surface. This intermediate sequence between the Vinita and Otterdale thins dramatically on buried structure, where as much as 1,500 ft. of it is missing.
The structure in the Richmond Basin is relatively simple, with normal faults dominating a half-graben.	The structure in the basin is very complex, with reverse dips and reverse faults common. Buried structure indicates syndepositional deformation with the reactivation of underlying Paleozoic thrust faults. At least one major angular unconformity can be traced seismically, and another unconformity higher in the sequence can be recognized as a diastem or condensed palynofloral zone. Reworked Paleozoic acritarchs occur in the sediments just below this second unconformity, which is overlain by a widespread lacustrine black shale sequence.

Hunt Institute for Botanical Documentation

like that of these lacustrine shales in the Richmond Basin. The lacustrine sequence ends upwards with the progradation of fluvial-deltaic sediments.

3) The last major depositional unit, the Otterdale Sandstone, formed in a more arid climate, contains more unweathered (pink) feldspar than the underlying Triassic, and contains abundant silicified logs of basically one type of wood (Cheirolepidaceae?).

Even with all the structure recognized in the basins, the Horner No. 1 and Bailey No. 1 record upwards-coarsening sedimentary cycles that appear to have a different periodicity from the structural cycles. On a smaller scale, 80-120 ft. upwards-coarsening cycles can be recognized on well logs. Perhaps these smaller cycles are what Volcan has described in his recent manuscript. There appear to be at least 60 such cycles in the Horner and Bailey wells, with room at the top of the section for another 10 cycles.

The uniformity of flora and fauna from top to bottom, with the exception of an Aratrisporites peak zone near the bottom, presents a problem for calibrating age. The major palynofloral facies correlate with changing lithologic facies. Significant changes in palynofacies composition overshadow any recognizable effects of reworking: It is unlikely that an entire palynofacies will be reworked along with its corresponding lithofacies. Therefore, reworking cannot explain the relative uniformity of the palynoflora, and the amount of time represented by strata below the Otterdale probably does not exceed the length of the shortest Triassic stage.

The above observations and interpretations are given with the hope that we can come to similar conclusions as co-authors. The original Tuckahoe and Chesterfield Groups by Shaler and Woodworth cannot be used, because they included the Vinita Beds and Otterdale Sandstone in the Tuckahoe Group, and the Productive Coal Measures and Barren Beds in the Chesterfield Group. The Otterdale should be classified as a distinct formation from the others, because it is clearly different lithologically and structurally. The middle depositional unit between the Otterdale and Vinita should receive its own status as either a group or formation, with one formation or member represented by the fill sequence below the transgressive lacustrine shale, and the other formation or member starting with the shale and going up to the Otterdale. That shale is a mappable unit of the upper sequence, and contains a recognizable palynoflora (distinct in composition, but not in age). The lower depositional unit has been well described in the literature, but well data provide a stratigraphic sequence that rivals mine shaft data.

Hunt Institute for Botanical Documentation

As you can see, the geology of the Richmond Basin is different from what theory would predict. The Vinita Beds and underlying coal measures and Barren Beds were apparently deposited in a basin much larger than the present limits of the Richmond Basin. The overlying lacustrine-deltaic sequence, which fills synclines between major structural highs, was deposited in numerous subbasins created by the tectonic folding of the Vinita Beds and underlying formations. After deposition reached the tops of now-buried structure, a major transgressive lacustrine unit formed, and the basin once again enlarged beyond its present boundaries. The sequence above that lacustrine unit becomes deltaic, then fluvial, and ends with thick channel and overbank deposits. The Otterdale Sandstone was deposited last, but only after the underlying Triassic was further deformed, uplifted, and eroded. Deep erosional canyons were eroded in the underlying Triassic, with some canyons as deep as 1,200 feet. Steep canyon walls permitted large boulders of Triassic to fall as talus into the bottoms of those canyons. Such talus was encountered in the J.R. Hicks No. 1. The canyons also indicate the existence of a large river crossing the basin.

Palynological correlations with the Taylorsville Basin indicate a similar geologic sequence, with all three major depositional units represented:

1) A basal sequence contains the Vinita Beds (type), Productive Coal Measures, and Barren Beds. It begins and ends with a fluvial-deltaic facies, and contains significant thicknesses of lacustrine shales (up to 1,400 ft.). Interbedded with these shales are common storm surge sandstones, slumps, and turbidites. The basal unit is separated from a middle unit by an unconformity, which becomes angular on structure.

2) The middle unit fills depressions between structural highs, and forms a blanket deposit over the tops of structure. The middle unit begins with an extensive sequence of thick turbidite sands alternating with thick shales. The sands become coarser and more poorly sorted upwards as local depressions filled. They also become thinner towards the south and away from a structural arch in the northern part of the basin, which brings Vinita Beds to the surface. The sand was sourced primarily from the erosion of fluvial-deltaic sands at the top of the underlying depositional unit. Near the top of the fill sequence, massive, poorly-sorted arkosic sandstones are found, suggesting low gradient braided rivers (Core #1 in the Horner well). A transgressive lacustrine shale overlies the tops of structure, and indicates renewed subsidence over a large area. The shales at Stop 1A and 1B in Stagg Creek, Taylorsville Basin, contain a palynoflora

Hunt Institute for Botanical Documentation

The lower unit should receive formational status, with the Vinita Beds, Productive Coal Measures, and Barren Beds being lowered to member status.

A further problem is presented by the stratigraphy and formal naming of formation and members in the Taylorsville Basin by Weems (1980). Since there is no clear indication of differences in stratigraphy between the Richmond and Taylorsville basins, and erosion may be responsible for the present separation of the two basins, the Doswell Formation name could be used. But, the type section of the Stagg Creek Member along Stagg Creek palynologically correlates with some of the highest or youngest strata in the Richmond Basin, whereas the Falling Creek Member correlates with the Vinita Beds. The Newfound Member is younger than the Stagg Creek Member, but the Stagg Creek is younger, not older, than the Falling Creek Member. In addition, the Stagg Creek contains strata near the base of that section that correlate palynologically with the basal part of middle depositional unit in the Richmond, and the plant bed and shales at Stop 1A and 1B along Stagg Creek correlate palynologically with the transgressive shale unit in the upper part of the middle depositional unit. The Newfound Member correlates with sandstones and shales in the uppermost part of the middle depositional unit. Strata equivalent in age and lithology identical to the Otterdale Sandstone are locally preserved as a veneer in the Taylorsville Basin, and are exposed at Stop 3 along the RR tracks in the 1985 Fieldtrip Guidebook. The silicified wood from that exposure is similar to that of the Otterdale.

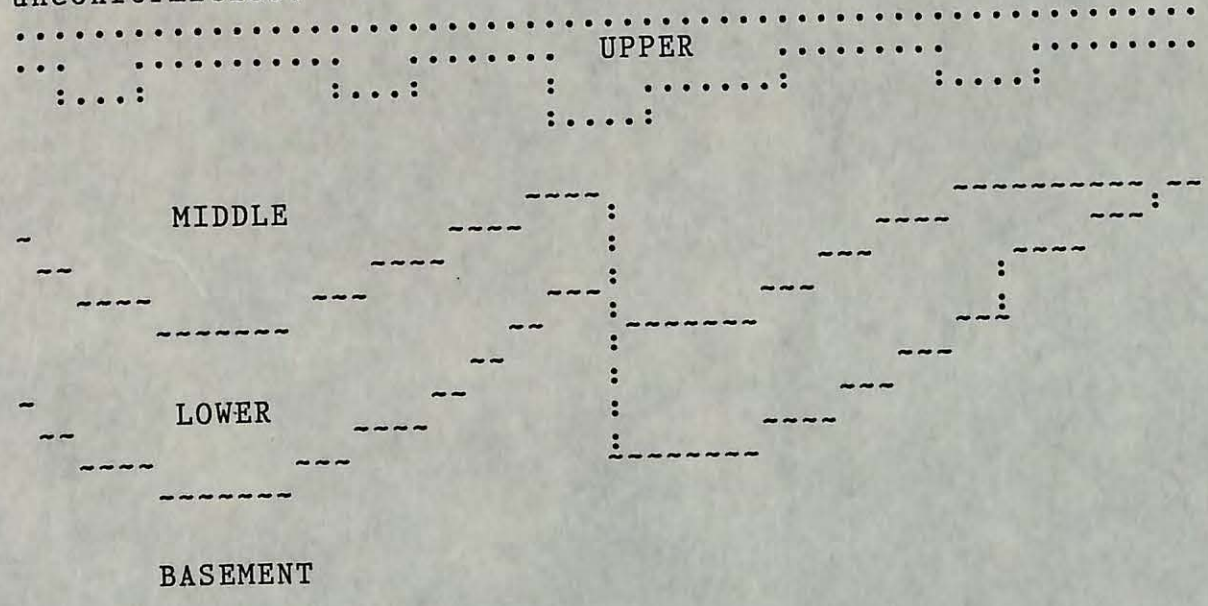
Unfortunately, the upper transgressive lacustrine unit is included in the Stagg Creek Member rather than the Newfound Member. Had it occurred in the latter, those two names could be used in the Richmond Basin for the upper and lower members of the middle depositional unit. The Falling Creek Member covers the same stratigraphic sequence as the Vinita Beds, and is therefore redundant. The Doswell Formation name has to be abandoned or restricted in usage, because it presently includes sequences that are genetically and structurally distinct. The Doswell Formation could be used for the middle depositional unit only, whereas another new formational name could be used for the Vinita Beds, Productive Coal Measures, and Barren Beds, which would be lowered to member status.

A summary of my findings is presented in table form below:

Hunt Institute for Botanical Documentation

DEPOSITIONAL UNIT	RICHMOND	TAYLORSVILLE
UPPER	OTTERDALE SS	NOT NAMED (but exposed)
MIDDLE	NOT NAMED (but exposed)	NEWFOUND MBR STAGG CREEK MBR
LOWER	VINITA BEDS	FALLING CREEK MBR
	PRODUCTIVE COAL MEASURES	NOT YET RECOGNIZED (not exposed)
	BARREN BEDS	NOT YET RECOGNIZED

Simplified W-E cross section of Richmond Basin showing the the three major depositional units, each separated by unconformities:



Sincerely yours,

Bruce

Bruce Cornet
13567 Portobello Dr.
Houston, TX 77083

cc: Dr. Goodwin

Hunt Institute for Botanical Documentation

Dr. Eleanora I. Robbins
U.S. Geological Survey
956 National Center
Reston, VA 22092

file: edger

January 27,1986

Dear Norrie:

Thank you very much for spending some of your valuable time to review my manuscript on the lacustrine cyclic stratification of the Richmond Group. I took a quick look at your comments and suggestions. I strongly believe they will improve the quality of the manuscript.

I didn't know that you are such a determined "anti-cyclist" ! You are right you are apparently not the right person to send a manuscript to on lacustrine cycles. Are you serious about "..not putting your name in a paper on cycles..." ? Everybody knows that the acknowledged people are not necessarily agree with the content of the paper. Incidently, I also put your name together with Dr. Traverse, Dr. Barss, and Dr. Playford in the paper on the sieving techniques. Do you want me to delete it ?

I also do have some comments:

1) The statement like "Modern rift lakes exhibit only a very weak periodicity in their overturn patterns." do not mean much as far as cyclicity in the fossil rift lakes are concerned. We are talking about cycles of 42,000 years. Do you have enough data to prove that such cyclicity is definitely not significant in the modern rift lakes ? On the contrary, especially the "obliquity cycles" are extremely common in the Pleistocene deposits (see Evans and Freeland, 1976 and Ward, 1981 for details). It doen't matter if these examples are not from the rift lakes, simply because it is obvious that such global cyclicity affects all kinds of deposition on the surface of the earth without any discrimination.

2) I definitely agree that "...each lake is doing its own thing-some are oxygenated at depth, others are anoxic...". Nobody can expect exactly the same reactions to global changes from each lake. Not only that but also different parts of each lake will react in different ways as I tried to explain below.

3) You claim that "...the sedimentary changes are controlled primarily by oxygenation, deoxygenation, overturn..." etc. That is perfectly alright with me, I don't argue that. But how about the large-scale causes controlling such local phenomena ? Do you think they occur just by chance ? I definitely believe that Milankovitch cycles occur globally. Such astronomical periodic variations

Hunt Institute for Botanical Documentation

Hunt Institute for Botanical Documentation

eventually change the distribution of the climate belts on the surface of the earth. Such changes will then control the geological phenomena in each depositional environments. However, the effect of the global variations is always found as superimposed on the local variations and in most cases it is very difficult to interpret the resultant effects. This is one of the major problems of the study of cyclic stratification.

4) You claim that you count 50 cycles where I count only 11 cycles. I really liked that, because this means that cycles are so obvious that even an "anti-cyclist" can differentiate them on a very small scale diagram. Your cycles are also correct, but I studied "meso-scale" cycles, you counted smaller scale-cycles. If you count varve couples which can be defined as annual cycles, you will come up with a number like 43,000*11= 473,000 cycles. Further you can count eccentricity cycles (about 11:2.5= 4 cycles), or larger-scale cyclothems (my whole section represent only a small portion of such cycles).

5) You also noted that Cornet (1977) suggested that abundant spores occured during a wet period and bisaccates occured during a dry period. I don't understand this. What are the evidences of a wet period in Triassic rift basins other than palynology ? I mean did he find abundant spores where he proved to have deposited in a wet climate by other methods ? You also know that lithology is impossible to use for such interpretation in lake deposits. So what else do we have: a Triassic hygrometer ?

This is a very complex mechanism. In the wetter periods we expect to find a deeper and more extensive lake than in the drier periods. I agree that spores are abundant in wet climates, but the distance between any particular depositional location (in my case the location of the well) and the source where the spore-producing plants live will be big in wetter periods. This situation will decrease the relative percentages of spores. However, in drier periods, lake is expected to be small and shallow. Although there are less spore-producing plant around the lake, since the transportation is very significant because of short distance, the relative abundance of spores will be higher. This explanation is probably true for a depositional location in the deeper part of the lake. However, the story in shallower parts (I mean the places which were almost always shallow during the depotional history of the lake) will of course be different.

All the best to you and Brian.

Yours very truly,

cc/ Dr. Traverse

Volkan S. Ediger

file
Coliger

Mr. W. A. Brugman
Rijksuniversiteit Utrecht
Laboratorium voor Palaebotanie en Palynologie
Heidelberglaan 2, Postbus 80.102
3508 TC Utrecht
The Netherlands

December 20, 1985

Dear Tim:

We haven't heard from each other for a while. I hope everything is O.K. with you and your family. I began writing my thesis entitled "Paleopalynological biostratigraphy, organic matter deposition, and basin analysis of the Triassic Richmond Rift Basin, Va." I am planning to finish sometime by this summer, if everything goes well.

Some of the chapter titles of my thesis will be "geology of the Richmond Rift Basin and vicinity", "coal measure geology", "sedimentological and dispersed organic matter studies on the carbonaceous mudrocks", "Richmond Group meso-scale cycles", "systematic paleopalynology", "paleopalynological biostratigraphy", and "basin analysis". Some of these chapters will be submitted for publication soon.

I made a lot of biosystematic studies and literature survey on the genus Aratrisporites. In my thesis, I placed the specimens of this genus in A. saturni spore group and used them for age and environmental interpretations of the coal measures. The coal measures are stratigraphically lower than the lacustrine cyclic mudrocks. I correlated them with the Lettenkohle of the Germanic Facies and interpreted them as the Late Ladinian. The upper lacustrine mudrocks are the Latest Ladinian and Early Carnian.

As you know well, Triassic stratigraphy has many problems. A well documented correlation between continental and marine biostratigraphic zones is still not available. I tried to compile all the available records, and used it for correlation of North American Triassic with the European Triassic.

Hunt Institute for Botanical Documentation

Enclosed are three appendices on the stratigraphic correlation of the Triassic continental and marine biozones of Europe and North America, the stratigraphic distribution of the Richmond Basin spores-pollen taxa, and the stratigraphy of the Lettenkohle. I would like to discuss them with you. I think you are the right person for this purpose, and your comments are very important for me. Please feel free to make some changes on the manuscripts.

I will contact to you especially on Aratrisporites and other matters related to the Triassic stratigraphy in the coming future. I think we should find a way to establish a bridge between American and Europen Triassic systems on both sides of the Atlantic Ocean.

Thanking in advance. I am looking forward to hearing from you soon. Merry Christmas and a happy New Year.

Yours very truly,

Volkan S.Ediger

p.s. I would very much appreciate your sending me reprints of your recent publications.

Hunt Institute for Botanical Documentation

file. Cauger

Mr. W. A. Brugman
Rijksuniversiteit Utrecht
Laboratorium voor Palaebotanie en Palynologie
Heidelberglaan 2, Postbus 80.102
3508 TC Utrecht
The Netherlands

April 1, 1985

Dear Pim:

I should wrap my thesis up during these days as I am going to defend it in a couple of months. For this, I would appreciate if you could send me your comments as soon as possible. I certainly would like to include them in the latest version of my dissertation. Because, unlike most other people, I consider a dissertation to be the perfect presentation of a graduate study. That is why I untraditionally wanted to discuss some parts of the thesis with you and with other distinguished scientists. I believe, although risky for a graduate student, that a PhD dissertation should also include ideas of different "school of thoughts", since PhD is an international academic degree of philosophy of science.

As I have stated in my previous letters, I have sent you some of the appendices which are complementary to my dissertation. However, they were the first drafts and did not include all of my results since it was more than three months ago. In the meantime, Dr.Traverse and I discussed your letters in detail, and tried to establish the connection between some of the things you've mentioned in your letters and my findings. Because we did not have a chance to exchange our ideas during this period, I thought it would be a good idea to give the following explanations on some important points. I hope they will help you to understand my results better before you shape up your evaluations:

1) If we ignore the details, those appendices include two basic results as I have discussed in their latest versions: a) The Lettenkohle lithostratigraphic unit was deposited sometimes in Late Ladinian in Germanic basins, and b) the Richmond Group coal measures can be correlated with the Germanic facies Lettenkohle lithostratigraphic unit both lithostratigraphically and paleopalynostratigraphically.

2) I think it is clearly demonstrated that the age of the Lettenkohle lithostratigraphic unit is Late Ladinian in the Germanic and in Alpine basins (e.g. Scheuring, 1970 and 1978; Mostler and

?

Hunt Institute for Botanical Documentation

Scheuring, 1974; Kozur, 1975; Krystyn, 1982). The most recent studies also support this idea (Heunish, 1984; Van Buggenum, 1985). Heunish (1984) also states that Bouman (1981) found similar results (incidently it will take at least four months for me to get this thesis, is it possible for you to send me at least the title, abstract, results, and important table of Bouman's thesis ?). Especially Mostler and Scheuring (1974) and Bouman (1981) did exactly what I did in my thesis by putting the boundary between Ladinian and Carnian in the Lower Gipskeuper lithostratigraphic unit of the Germanic facies.

3) There is no doubt that the Lettenkohle is diachronous. In fact I also believe that the ages of Lettenkohle and lithostratigraphically equivalent units vary from Uppermuschelkalk (in the choronostratigraphic sense) especially in the northern parts to Karnian (again in the chronostratigraphic sense) in the southern part. However, we also know that this regressive series contain clastics in the north, coal at the middle, and carbonates and shallow-water marine deposits in the south. Besides, some parts of the Alpine basins have never been completely terrestrial. For this reason, the palynofloras of lower-Middle Ladinian of some parts are sometimes considered as equivalent to the late Ladinian of some others, yet Carnian of the Alpine basins.

5) Partly because of these reasons, spores are considered as not important stratigraphically. Especially Aratrisporites spp. are thought to be facies-controlled. Therefore, their absence can not be used as a significant stratigraphic event, but their presence can. However, because they are facies-controlled, but also climate-controlled, they are very important for stratigraphic correlations. The key point here is the "acme-zone" principle not the traditional "concurrent range zone" principle. The acme zone of a particular taxon (I am still working on this complex theory) is not the stratigraphic position of that taxon which has a maximum occurrence, but it is the exceptionally abundant zone. This zone is expected to be synchoronous within reasonable spatial and temporal limits, and represents an unusual, mostly sudden (geologically speaking) climatic variation. For example, one of the acme zones of Aratrisporites saturni spore group occurs in the Late Ladinian. We see this exceptional abundance in Germany (Maedler, 1964; Reitz, 1985, Heunish, 1984; Van Buggenum, 1985), France (Adloff and Doubinger, 1969, 1977, 1978; Doubinger and Adloff, 1977, 1981; Adloff et al., 1984), Poland (Pautch, 1973; Orlowska-Zwolinska, 1979, 1982), in Libya (Kar et al, 1972 ;Brugman et al, 1985), and in the Richmond Basin (Ediger, 1986, in prep.). The relative percentages of this spore group goes upto 40-50 % in these locations. Do you know any place in the western Tethys and North Atlantic, where the Aratrisporites saturni spore group have relative percentages upto 40-50 % in Carnian ?

6) The geographic distribution of this zone is directly related

Hunt Institute for Botanical Documentation

to the shore line of the Late Ladinian Tetys Sea. We know that the Tetys Sae level dropped down about 10 m suddenly between Late Ladinian and Early Carnian. Biddle (1984) traced this boundary, which is as an uncormity or a sudden facies chance from marine to brackish or continental deposits in the central and western Europe. I strongly think this sudden regression in the western Tetys Sea was caused by the formation of lowlands in the proto-Atlantic region. This increase in the land/ocean ratio caused a sudden change in the climate in the proto-Atlantic and western Tetys Sea. I think this change caused the exceptional abundance of Aratrisporites-producing plants around the Late Ladinian sea shore.

7) There are several evidences suggesting an age of older than Late Carnian for the Richmond Group coal deposits. Some of them are the occurrence of the deepest rift basin in the east of the Richmond-Deep River basin complex (Carolina Trough), the presence of the thickest salt deposits (upto 10 km thick) in this trough, the occurrence of the thinnest continental crust (about 9 km thick) around the Richmond-Deep River Basin complex, the presence of coal deposits only in the Richmond-Deep River Basin complex in the N.E. North American rift system, and the change of the dike pattern northward beyond the Richmond Basin. Olsen and Cornet (1985) in their most recent publication also suggest an age older than Late Carnian for the Richmond Group. My studies on the coal stratigraphy and lacustrine meso-scale cycles also shows similar conclusions.

8) We know that the age of the first oceanic crust is Early-Middle Jurassic (190 my) from the studies on residual magnetism. If we apply Vierbuchen's (1982) nomographs, we will see that about 40 million years are needed to obtain a crustal thickness (9 km) about 30 % of its original thickness (about 30 km) under $7\text{-}8\times10^{16}$/sec. This means that the earliest rifting should go back at least to Late Ladinian (about 230 m.y.).

9) There are also big difference in the lithology and palynoflora of the coal measures and the lacustrine deposits of the Richmond Basin. The fluvial-lacustrine upper series is definitely Carnian, therefore the lower sequences should be older than that.

10) After evaluating all of these evidences I concluded that the most possible age of the Richmond Group coal deposits is Late Ladinian. I also argue that the lithostratigraphic boundary between Ladinian and Carnian is not real palynostratigraphically. In other words this boundary is not sharp as far as the stratigraphic distributions of palynomorphs are concerned. But, exceptional abundance of spores occurs in the Late Ladinian, a mixture of spores and pollen in the Early Carnian, and exceptional abundance especially of circumsaccate, ? monosaccate, and bisaccate occurs in the Late Carnian (I do not use Middle Carnian as proposed by Lieberman, 1980; my Lower Carnian is equivalent to traditional Lower and Middle Carnian)

Hunt Institute for Botanical Documentation

11) In addition to spores, the pollen such as Microcachyridites spp., Triadispora boelchii, Retisulcites perforatus, Eucommiidites-type pollen, pollen very similar to Scheuring's Podosporites amicus and/or Cucullispora spp., and tetradoprotosaccate pollen (I am still working on the taxonomy of this group) which are tetrads possibly of Triadispora spp. or Microcachyridites spp type saccate pollen. This last group may also include I. suspecta which Scheuring found only in the Late Ladinian. But as you know well, because of exceptionally poor preservation of the Scheuring's specimens it is very difficult to use his nomenclature in other Triassic deposits.

12) I also found it very common to use the exceptionally high spore content to distinguish Ladinian from Carnian deposits. For example, Kar et al. (1972) separated Ladinian completely based on the high spore content, especially Aratrisporites saturni (p. 450). In the studies of Van Buggenum (1985) and Heunish (1984), "Unterer Keuper" are distinguished mainly based on the high spores contents (Aratrisporites, Calamaspora, Verrucosisporites, Cyclotriletes, Punctatisporites, Fig. 5). When I saw Van Buggenum's Fig. 5, I was astonished from the resemblence between the German Lower Keuper and Richmond Basin Coal measures. Finally Brugman et al. (1985) noted the importance of striking dominance of Aratrisporites, and said "...Libyan Middle Triassic is characterized by the absence of characteristic Anisian elements, an incoming of rare representatives of Circumpolles-group.... These forms, together with some trilete miospores... indicate a Ladinian age." p. 107.

I know that you are busy with so many other things. But because of the reasons I mentioned at the beginning of my letter, I've got to get your comments as soon as possible. I hope this letter will help you to understand some of the key points, I did not want you to loose the overall picture for the details. As I have stated above, my age assignment does not based only on the palynostratigraphic correlation, which is extremely difficult for the Late Ladinian-Early Carnian deposits between Europe and America. I was planning to mention all of these after I receive your comments, but because of time constraints I replied before I get your letter.

All my best to you and Dr. Visscher (hoping to meet him soon). Please give a copy of this letter to Dr. Visscher; his ideas are also very important for me. Dr. Traverse also sends his best to you both.

Thanking in advance,

Yours very truly,

Hunt Institute for Botanical Documentation

Volkan S.Ediger

c.c. Dr.Traverse

Hunt Institute for Botanical Documentation

file Ediger

Mr. W. A. Brugman
State university of Utrecht
Laboratory of Palaeobotany and Palynology
Heidelberglaan 2, Postbus 80.102
3508 TC Utrecht
The Netherlands

January 28, 1985

Dear Pim:

Thanks for your letter of January 1, 1986, and the copy of the thesis by Dr. Heunisch. I received the thesis about a week before your letter. Because there was no letter in it and no name on the envelope, I automatically thought that it was your thesis. It took a while to realize that the thesis belongs to someone else (with the help of Dr, Traverse) !

I am terribly sorry for misspelling your name. You probably noticed that I use IBM PC in my correspondence. I am still a very bad typist, but I partly owe this to my spending hours to type and edit my thesis in last months.

Dr. Heunisch's thesis is a good piece of work. My German is not very good but I can read with the help of a dictionary. I will definitely consider her findings in my thesis.

Thanks for your help. I look forward to hearing from you. With all my best.

Yours very truly,

cc/ Dr. Traverse

Volkan S.Ediger

Hunt Institute for Botanical Documentation

12 November, 1982

Mr. Volkan S. Ediger
Oruc Reis Cad. Imar-2 Bl.,
No1 5/8, Telsizler
Ankara, Turkey

Dear Volkan:

The pack of stuff re Elcin, and yours of 19 October, just arrived. I have immediately xeroxed same and, with Mrs. Ronald Litwin's (wife of my grad student; she is a dental assistant) assistance will get the dossier into circulation where it will help.

As you say, the assistantship is not much money, though people do live on it. I would imagine that Elcin will find a job before too long, though it will take a few weeks, and she will have to be here to interview, etc. I doubt that anybody will hire her sight-unseen. I am assuming aboug January 15 arrival for her? You are, of course, hoped for sooner. Perhaps this is the place to add that Betty and I will be in Germany from about 5 January - 30 January, 1983. I hope you will have been here at least several weeks before we leave.

Best wishes to you.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

P.S. I love Elcin's pictures!

Hunt Institute for Botanical Documentation

2 November, 1982

Mr. Volkan S. Ediger
Oruc Reis Cad. Imar-2 Bl.
No. 5/8, Telsizler
Ankara, Turkey

Dear Volkan:

Got yours of 15 October on about the 20th. Went to work at once to be sure that proper forms went out immediately. Presumably you have them now--they tried to insist that I must have your, Elcin's and Sirin's birthdates and places-of-birth in order to process the request at this end--but they finally relented. We were able from my business files to find your date and birthplace anyway, and also from our "social" files at home, Sirin's, but not Elcin's. So it'll be in my records here, could you send Elcin's birthdate and place of birth (we recall that she grew up near you, but can't remember the exact place)-I'll keep the information under lock and key!).

Don;t worry unduly about time of arrival, as long as it's sometime during Winter Term, the earlier the better. I have everybody programmed to expect you as a "late registrant"--just get here as fast as you can.

Let us know about what we can do, if anything, to help re housing--but I won;d do anything until and unless you want me to. The Turkish Student Association could perhaps help? Aside from personal considerations, it probably would work best for you to come alone and work on the housing full time while staying with us. On the other hand, if you can get an apartment in Grad Circle before you come, there's no need to look further, and you all might as well come together.

Very rushed because palynology course is on , and it's near the end of term. All the best.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

Dr.Alfred Traverse
The Penn. State University
Palynological Laboratories
435 Deike Buliding
University Park,PA 16802

October 19,1982

Dear Dr.Traverse:

You have probably taken my last letter of October 15,1982.

Thank you very much for your concern about a job for Elçin. As you have emphasized in your letter of September30, 1982, a graduate assistantship pays only a starvation wage. Therefore we definitely have to find a job for Elçin.

I enclosed some documents prepared by Elçin. You are really the best friends of us in U.S.A. Thank you for everything.

All the best to you and Betty.

Yours very truly,

Encl.Document about Elçin.

Volkan Ş.Ediger

Hunt Institute for Botanical Documentation

Hunt Institute for Botanical Documentation

October 15, 1982

Dear Dr. Traverse:

I have received two letters with the forms from the Graduate Admissions and the OISA. I wanted to write you as fast as possible, so please excuse the scrawl.

1. OISA sent me the Immigration and Naturalization Service Form I-20 (F-1 Student Status). As you have noted in your previous letters (especially in the one dated March 31, 1982), we need "Exchange Visitors" visas. Mrs. Frisbay whom you talked to take care of such visas, probably forgot to talk to Mr. A. Craig Millar about our visas. I didn't write to Mr. Millar directly, because I wanted you know the problem first. I am not going to fill and return back the Form I-20 before I get your reply.

2. As I have written to you before, under these circumstances, I won't be able to arrive before December, 1982. According to these letters, I am expected to report the school not later than November 29, 1982. Do you want me to write about this to anybody?

3. I finally found two different books for you to learn Turkish. I'll bring them with me and I'll be happy if I can help you to learn Turkish.

4. I haven't made the ticket reservation yet. I want to solve the passport and visas problem first. I'll write you the arrival date immediately after I buy the tickets.

5. I applied for graduate housing. If I can solve the accommodation problem before I get there, I am planning to come there together with my family. Otherwise, Elçin and Sinin will come later (Of course if we can solve the other problems concerning our home in Turkey).

Thank you for your kind invitation to your house. Elçin and I send our best wishes to you and Betty.

I am looking forward to hearing from you very soon.

Yours very truly,

Volkan Ediger

Hunt Institute for Botanical Documentation

6 October, 1982

Mr. Volkan S. Ediger
Oruc Reis Cad. Imar-2 Bl.,
No. 5/8, Telsizler
Ankara, Turkey

Dear Volkan:

We don't want to push the idea of Elcin working in a dental clinic (or whatever) while you're here--it's your business, of course. If she <u>does</u> want to do this, however, my information is that we should already be working on it. Ron Litwin, my graduate student whose wife is an orthodontic assistant, just came in to suggest that Elcin should prepare a "vita" and send it to us, so that it could be circulated in the right places. It should give her date of birth, education and work experience. I would stress that her English is excellent, which it <u>is</u> despite her modesty on the matter.

All the best.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

30 September, 1982

Mr. Volkan S. Ediger
Oruc Reis Cad. Imar-2 Bl.,
No. 5/8, Telsizler,
Ankara, Turkey

Dear Volkan:

Yours of 20 September got here in "only" a week. I should first of all thank you both for concern re my hand--it'll be a long time before it's mended, but with physical therapy it's much better (e.g., I can write without much discomfort).

I am sorry that your lives have been so complicated by bureaucratic problems at both ends. On this end Dr. Deines assured me in August that the formal letters you need were on their way to Turkey, when in fact they had been delayed and not finally sent until about 10 days ago. By now, however, you should have the formal letter from the Department, assuring you of support. As you say, application for a place in Graduate Circle is imperative because a graduate assistantship pays only a starvation wage, and the graduate housing is such a good deal. As you know, I think Elcin could probably later on get part-time employment here to improve your "cash-flow", if that's a concern, and I have some other ideas along that line.

If by 15 October, you still don't have all the needed letters and forms, let me know which ones were lacking, and I'll get on it immediately. I just called International Student Affairs, and they say that your packet, including housing application forms, etc., will go out in "about a week". That's why I "guesstimate" 15 October for arrival of all that.

The Cretaceous-Tertiary of SE Turkey is a hot idea, and you and I should definitely go forward on that as soon as you get here. I am really excited about it! (In order to communicate with Prof. Akyol, I'll have to learn either French or Turkish, I guess, at least enough to mix with English and make myself understood. In case I do decide to take a crack at Turkish, could you acquire a copy of a book that is highly regarded for teaching anglophones Turkish?)

Enough fornnow. Try to get here as soon as you can. Your pay starts the day you arrive if I know ahead when it'll be. Naturally, you are welcome to stay with us when you get here, until you get things straightened out.

Yours cordially,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

30 September, 1982

Alfred Traverse, Professor of Palynology, 435 Deike

International Student Affairs, 111 Kern

re: Volkan Ediger

The abovenamed Turkish palynologist has been admitted to study for a Ph.D. with me. I need him here ASAP because the funding from NSF for him actually began with Fall Term. Now I am hoping I can get him here at least by Winter Term, but the red tape in Ankara is unbelievable, and if you could possibly send him the forms he needs immediately, it would be greatly appreciated. (I was told that you would routinely send these out "in about a week", but I am appealing for quicker action in this case, if that is at all possible.)

CC: Dr. Peter Deines

Hunt Institute for Botanical Documentation

22 September, 1982

Alfred Traverse

Peter Deines

Just to confirm that I did write Ediger informally, indeed 2-3 times, saying that I had support for him if he could come at once, i.e., for Winter Term. I told him that formal confirmation of this would arrive from the Department very soon. (That was in August.) He needs the formal letters so that he can get visas, etc.

Hunt Institute for Botanical Documentation

TURKISH PETROLEUM CORPORATION

TÜRKİYE PETROLLERİ ANONİM ORTAKLIĞI

Capital : 2.000.000.000.— TL.
Address : Müdafaa Cad. No. 22 P. O. Box 209 Bakanlıklar, Ankara, Turkey
Cable : Petrol Ankara, Turkey
Telex : 42426 TPAO. TR, Ankara, Turkey

September 20,1982

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

Dear Dr.Traverse:

I received your letter of September 3rd,1982 today, thank you. Elçin and I worried about your hand injury very much. We hope you get better very soon.

As you know well, things are going very slow in Turkey. Passport, visas, trip permission, ticket reservation etc. usually take a lot of time. That was the reason why I wrote you that it was impossible for me to come tthere in November.I discussed your suggestion with Elçin.I think we may find a way to solve this problem.Elçin(and also Şirin) may stay in Turkey for two months more and make the rest of the arrengments concerning our trip to State College.So January 1,1983 is O.K. for us, and I may come there late in December. Therefore you may now request my registration as a student starting from January 1,1983.

I was working on SE Turkey Cretaceous-Tertiary sequences and was planning to send some documents to you with this letter.I think you won't need them at this moment. I also macerated some of the samples taken from measured stratigraphical sections from SE Turkey, they seem very promissing.It is a good idea to discuss this matter in detail sometime in 1983.

Now our main problem will be the accommodation on campus.I will apply for a house right after I am officially admitted. I hope we not have any problem on this subject.

I need to have all the official forms concerning our trip there as soon as possible.I'll write you more about our trip after I got the passports and visas.

All the best to you and Betty.

Yours very truly,

Volkan Ş.Ediger
Chief Palynologist-T.P.A.O.

TP-Stok No. : 78.130.030 (20.000 Adet)

Hunt Institute for Botanical Documentation

20 September, 1982

Mr. Volkan Ş. Ediger
Türkiye Petrolleri Anonim Ortakliği
Araştirma Gr., Palinoloji Lb.
Müdafaa Caddesi No. 22, Bakanliklar
Ankara, Turkey

Dear Volkan:

When I sent you your birthday card I hope I remembered to thank you for the beautiful stamps--the Cappadocian mountain certainly evoked fond memories! Thanks Again.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

P.S. Have you received the formal letter from the department re Winter Term, and can you come? (I know it'll be difficult.)

Hunt Institute for Botanical Documentation

3 September, 1982

Mr. Volkan S. Ediger
Oruc Reis Cad. Imar-2 Bl.,
No. 5/8, Telsizler
Ankara, Turkey

Dear Volkan:

I am writing longhand for Betty to type (rather than dictating into my dictaphone) to get this out quickly. It is hard for me, because I had a fall in a quarry 10 days ago and injured my hand. (Doctor says it will take months to get the hand straightened out.) I respond to yours of 19-VIII-82.

Our problem with getting you here is, of course, 100% the support question. I have secured support, effective 15 August, for a graduate student for about two years, in connection with my NSF grant for Triassic work. That is a short-run soludion to the problem. But it does mean you should come as soon as possible. If you can't make it by 1 December, how about Iwan.? I could pay you hourly wages (at the assistantship rate) until the assistantship started in March.

The "project-in-Turkey" is a long-run proposition, which you, Prof. Akyol, and I can work on after you get here. Sometime in 1983 I would go to Izmir to consult with Prof. Akyol about a proposal to do research in Turkey--(you guess I'll have to learn Turkish!)--you will be able to help me promote this, and I even hope I could arrange for you to accompany me to Turkey. Presuming I can then get funded, this would provide assistance for the latter part of your stay here. (Several of your suggestions sound very promising--especially the SE Turkey K-T sequences.)

However, in the short run, you will be supported on my Triassic grant. It is therefore urgent that you come as soon as possible, or I'll be under pressure (I already am) to give the assistantship to somebody else. If that happens, we're back to where we started--no support for VE.

The reason why I said "March, 1983", before is that I didn't have the assistantship available then. I have just been assured that it is quite possible for you to register as a student (if I request it) at any time.

All the best to you and Elcin.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

Hunt Institute for Botanical Documentation

Prof. Alfred Traverse
The Penn State University
Palynological Laboratories
435 Deike Building
University Park, PA 16802

August 19, 1982

Dear Dr. Traverse:

Thank you very much for your letter of August 5, 1982, and the good news about support problem. I am in Istanbul to attend a meeting now. I will probably stay there for about a week. I am sorry for my hand writing, I hope you won't have difficulty to read it.

You would probably have received my last letter with maps, reference list etc. about SE Turkey. Cretaceous-Tertiary will be o.k. for me too. There are quite a lot shaly and silty formations of U. Cretaceous-L. Tertiary age especially in the SE Turkey. I will send more informations about Cretaceous-Tertiary sequences of Turkey as a whole, when I got back to Ankara (around the beginning of September).

There is really not much to do with the Turkish Neogene. As far as I know, leaf fossils of the Permian rocks which cropped out in SE Turkey are studied by Wagner (from Sheffied University, England). He concluded that the Permian paleoflora of this part of Turkey is a mixture of both Cathaysian and Angoran assamblages (I will send more information about this too.).

Finally I may say that Cretaceous-Tertiary palynology of the rock sequences cropped out in the SE Turkey may be a good project. Some Jurassic or Triassic may also be added if necessary. I will discuss this with Prof. Akyol as soon as possible.

But there is one problem which is very important. You write in your letter that I'll be admitted for winter term (Late November 1982). As you remember you wrote in your last letters that the postponement of my admission to March, 1983 would be necessary. I was trying to make my plans to March, 1983. As you know there are lots of thing to do after I am officially admitted. Remember that we haven't decided the project yet. So, I think I'd better be admitted for Spring Term (March, 1983). I wish you receive this letter before September 1. (I mean before Dr. Gold returns).

You know that accommodation is another problem. For this reason I need to learn my admission status as far as I am officially admitted. I have to apply for an on-campus housing as early as possible. I also have a lot of thing to do before I leave Turkey.

I am looking forward to hearing from you very soon.

Best wishes to you and Dear Betty.

Yours very truly,

Volkan S. Ediger

Hunt Institute for Botanical Documentation

TURKISH PETROLEUM CORPORATION

TÜRKİYE PETROLLERİ ANONİM ORTAKLIĞI

Capital : 2.000.000.000.— TL.
Address : Müdafaa Cad. No. 22 P. O. Box 209 Bakanlıklar, Ankara, Turkey
Cable : Petrol Ankara, Turkey
Telex : 42426 TPAO. TR, Ankara, Turkey

August 10,1982

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

Dear Dr.Traverse,

I hope you got my last letter about the project. I received a letter from Prof.Akyol on the same subject yesterday. He is willing to join us, but would like to have more information about his status, what he is expected to do etc.

He also discussed general palynological characteristics of Turkey and proposed some very interesting subjects. One of them is about the palynology of the Paleozoic sequences(Silurian-Permian) of Taurus Mountains(remember that Adana Basin is one of the important intra-cratonic basins within these mountains). These shallow-marine deposits are composed mainly of carbonates. There are also some fine clastics within carbonates and they contain abundant spores and pollen grains. Many allocthonous large blocks are transported in these shallow-marine deposits forming large scale nappes. First, which paleo-province both transported and autocthonous(in situ) deposits belong to is not known. The age of the transportation is also unknown. Prof.Akyol suggest to study the Taurids around Adana Basin.

The other project is about SE Turkey. There are mainly two different depositional environment in SE Turkey. One is formed on Arabian Plate whereas the other is on Anatolian Plate. The collision time of these plates are not known definitely.There are lots of different theories on this subject, but it is probably from Jurassic-Triassic(?Upper Permian) to Cretaceous(Tertiary). According to Prof.Akyol the comparison of the Mesozoic and Lower Tertiary microflara of these two plates will give very important clues about the geological history of SE Turkey. The detailed aging and the paleo-environmental interpretations are also very important in this region.

TP-Stok No. : 78.130.030 (20.000 Adet)

Hunt Institute for Botanical Documentation

TURKISH PETROLEUM CORPORATION

TÜRKİYE PETROLLERİ ANONİM ORTAKLIĞI

Capital : 2.000.000.000.— TL.
Address : Müdafaa Cad. No. 22 P. O. Box 209 Bakanlıklar, Ankara, Turkey
Cable : Petrol Ankara, Turkey
Telex : 42426 TPAO. TR, Ankara, Turkey

I enclosed the abstract and Fig.1 of one of the most detailed studies on the general geology of SE Turkey. You may easily find the whole paper which was published in Bulletin of AAPG. A list of the other important publications are also enclosed which, I beleive, are available in your library. Did Prof. Dewey suggest anything about SE Turkey?

With all my best.

Yours very truly,

Volkan S. Ediger
Chief of the Paly. Section, TPAO.

TP-Stok No. : 78.130.030 (20.000 Adet)

Hunt Institute for Botanical Documentation

TURKISH PETROLEUM CORPORATION

TÜRKİYE PETROLLERİ ANONİM ORTAKLIĞI

Capital : 2.000.000.000.— TL.
Address : Müdafaa Cad. No. 22 P. O. Box 209 Bakanlıklar, Ankara, Turkey
Cable : Petrol Ankara, Turkey
Telex : 42426 TPAO. TR, Ankara, Turkey

Some important references about SE Turkey:

Rigo and Cortesini, A.
De Righi, M.V., 1964, Gravity tectonics in foothills structure belt of Southeast Turkey: Bull. A.A.P.G., v.48, No.12, p.1911-1937.

Temple, P.G., and Perry, L.J., 1962, Geology and oil occurance, Southeast Turkey: Bull. A.A.P.G., v.46, No.9, p.1569-1612.

İlhan, E., 1967, Toros-Zagros folding and its relation to Middle East oil fields: Bull. A.A.P.G., v.51, No.5, p.651-667.

Rigassi, D., 1971, Petroleum geology of Turkey: in Campbell, A.S. (Editor), Geology and history of Turkey; Petroleum Exploration Soc. Liban, 13th Ann. Field Conference, p.453-482.

p.s. Referances are not in order.

TP-Stok No. : 78.130.030 (20.000 Adet)

Hunt Institute for Botanical Documentation

BULLETIN OF THE AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS
VOL. 48, NO. 12 (DECEMBER, 1964), PP. 1911-1937, 10 FIGS.

GRAVITY TECTONICS IN FOOTHILLS STRUCTURE BELT OF SOUTHEAST TURKEY[1]

M. RIGO DE RIGHI[2] AND A. CORTESINI[3]

ABSTRACT

The article deals with the geology of the foothills structure belt of the Taurus Mountains in Southeast Turkey. This area includes three main geological provinces from the south northward: (a) the foreland area, (b) the foothills structure belt, which grades into (c) the Taurus orogenic ridge.

(a) The foreland area is characterized by a thick Mesozoic-Tertiary carbonate section with subordinate clastics, resting on predominantly shaly-sandy Paleozoic sediments, and is generally affected by gentle folding with normal or high-angle reverse faulting.

(b) In the foothills structure belt a stratigraphic record including Paleozoic to Upper Tertiary sediments is present. This belt was affected by intense tectonism, which originated faulted imbricated structures and disharmonic folding. Moreover, extensive gravity gliding tectonics occurred in the area during late Cretaceous time. As proved by regional geologic studies and wildcat drilling carried out by Turkish Gulf Oil Company, a 10,000-foot thick gravity slide, composed of allochthonous sheets of eugeosynclinal sediments and basic igneous rocks, was found intercalated in an Upper Cretaceous shaly-sandy sequence. The allochthonous formations are considered as the indirect evidence of the existence of a Mesozoic geosynclinal trough in the north. The sedimentary filling of this trough was uplifted and tectonized during the Alpine diastrophism in an early cordillera phase. Subsequently it was displaced southward, near the northern edge of the shelf, by gravity tectonics. These large-scale gravity slides had remarkable effects on the evolution of the Southeast Turkey sedimentary basin.

(c) The Taurus orogenic ridge is mainly composed of a partly metamorphosed rock sequence, very tectonized and affected by southward thrusting and long-distance gravity gliding. The rock sequence, referred to as "Anatolian facies," is considerably different from the Southeast Turkey facies, as it is largely composed of metamorphosed remnants of the Taurus eugeosyncline deposits and of flysch-type sediments intercalated with igneous rocks. The "Anatolian facies" sequence, herein interpreted as corresponding with a backland area, occurred during the late Alpine orogeny.

After a general description of the stratigraphic units in the area, emphasis is given to the geology of the allochthonous slide complex. A general hypothesis on the origin and emplacement of these regional gravity slides is outlined. The article ends with some considerations on problems of oil exploration in areas affected by gravity slides.

Harvard Institute for Botanical Documentation



FIG. 1.—Index map of Turkey and Middle East.

Hunt Institute for Botanical Documentation

5 August, 1982

Mr. Volkan S. Ediger
Türkiye Petrolleri Anonim Ortakligi
Arastirma Gr., Palinoloji Lab.
Müdafaa Caddesi No. 22, Bakanliklar
Ankara, Turkey

Dear Volkan:

Many thanks for the interesting letter of 20-VII-82, maps, etc. I believe I am very near a temporary solution to the support problem and that you will be admitted in plenty of time to come for Winter Term (late November, 1982), but I can't do anything official until Dr. Gold returns, about 1 September. The solution will probably be to appoint you for Winter Term on one of my current grants. However, that will not be the permanent solution. The permanent solution in my opinion will still lie in developing a Turkish-based, U.S.-financed project for you and me.

It may well be that Dr. Dewey did not understand the lithologic requirements for palynological work when he urged an Adana project. Your geological map makes it look hopeless--for goodness sake, what Cretaceous-Paleogene sections are there? Did he really mean the Amanos Mountains, perhaps? He is back in U.K., I believe. The fact that an area is not a good oil prospect, however, is not critical to its acceptability for an important palynological project. (On theoother hand, a good prospect wouldn't hurt!!) Re the Adana area: the fact that clastics are not abundant would not matter, if they are, despite scarcity, present, at least as thin siltstone lenses. In the U.S. Triassic/Jurassic Basins, for example, that's all we ever get. If you could find out if there are such lenses (K-T@) and if 1-2 samples of them yielded palynomorphs, it would help the preliminary proposal greatly.

No, Dr. Dewey only discussed the Adana Basin as being ripe for biostratigraphic investigation. I was immediately attracted because of the built-in interest I have in the Cretaceous/Cenozoic interface.

Tell me more about the Cretaceous formations in SE Turkey--what parts of the Cretaceous? Are there strata with megafossil plants? This could be very important for future development of the project, getting Smithsonian interested, etc. (I don't shy away from Permo/Triassic, but assuming you mean Late Permian to Early Triassic, it would be a new "ballgame" for me.)

Hunt Institute for Botanical Documentation

Another possibility certainly would be to tie in the Turkish Neogene to my Black Sea work. Any ideas along those lines? My instinct, however, is that that project is not "innovative" enough to attract support. Various German palynologists have already done quite a bit, etc. "It's been done--you're reinventing the wheel", etc.

Dr. Akyol's interest could be critical because my first move would be to request NSF money to visit him in Turkey to consult with him about the project and hopefully also to visit the selected area with him. Then a proposal would be written for the research. So, he should be happy with the project and think it potentially rewarding, etc.

Best wishes to you and Elçin.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

TURKISH PETROLEUM CORPORATION

TÜRKİYE PETROLLERİ ANONİM ORTAKLIĞI

Capital : 2.000.000.000.— TL.
Address : Müdafaa Cad. No. 22 P. O. Box 209 Bakanlıklar, Ankara, Turkey
Cable : Petrol Ankara, Turkey
Telex : 42426 TPAO. TR, Ankara, Turkey

July 20,1982

Prof.Alfred Traverse
The Penn State University
435 Deike Building
Palynological Laboratories
University Park, PA 16802

Dear Dr.Traverse:

Thank you very much for your letter dated June 17th,1982. Now, both you and I know the matter better. This will help us to solve the problem.I am sorry I couldn't write you right after I got your letter, because I had to go to a field trip for one week.I agree with you about the example of Turgay Ertekin and the general policy of Turkish Government.I think I'd better emphasize that my family and I like to live in Turkey as long as we are managed to do that.So we want to return to Turkey when we attain the aim(Ph.D.).

It is really a big chance to talk to Prof.Dewey about the support problem. I know him very well from his publications and conferences in Turkey although I haven't met him yet. He is a quite well-known person in Turkey. Several geologists from TPAO are studying with him about plate tectonics.Turkish government was supporting M.Sc. and Ph.D. studies at that time.

Cretaceous-Paleogene boundary of the rock units in Adana Basin is really problemmatic. I enclosed a geologic map, a rock-time correlation table and the descriptions of the Cretaceous-Paleogene rock units (I am sorry that copies are not good.These are the best ones I can get right now).

After a brief examine of the general geology of Adana Basin,I discovered that it has some disadvantegeous. First of all, Adana Basin is no longer a prospect area for oil and gas because most of the wells are dry and geologic reports are mostly negative. Second, the oil-bearing formations mostly belong to Miocene age, and third, fine clastics(clay and silts) are not abundant in the Cretaceous-Paleogene boundary(major rock type is limestone). If you think that it may still be a good project, I may send you more-detailed information about this basin and even process at least some samples in order to see whether they are fossilliferous or barren.

TP-Stok No. : 78.130.030 (20.000 Adet)

Hunt Institute for Botanical Documentation

CRETACEOUS AND PALEOGENE ROCK UNITS

CRETACEOUS

Tokmaklı Limestone

White, gray and brown cryptocrystalline oolitic, dolomitic and sometimes massive, thick-layered limestones. It is probably reefal limestone and contain very few fossil. Thickness is about 500 m.

Ophiolite Complex

It is genetically related to ophiolite complexes which are quite common in the Southern part of Turkey.

Çona Formation

It is massive, reefal limestones containing abundant micro-and macro-fossils. A thick basal conglomerate serie which is composed mostly of ophiolite complex is observed at the bottom of limestones. Clay content is quite high in limestones especially at the top of this formation. Total thickness is about 600 m.

Bozfinik Formation

It is composed of gray dolomitic limestones and dolomites, black-brown claystone and shales, and clayey and massive sandstones. This formation and Çona Formation probably belong to the same age. Total thickness is about 500 m.

PALEOCENE-EOCENE(?)

Kuyuluk Limestone

Gray-brown, thin crystalline and thin-layered dolomitic limestones. It is fossilliferous but a definite age could not be determined. Total thickness couldn't be measured in the field.

MIDDLE EOCENE

Gavurkale Limestone

Gray, massive, thin-layered, cherty limestones. Lower contact is unconformable. Fossils, especially large foraminiferas are abundant. Thickness is about 300 m.

Hunt Institute for Botanical Documentation

UPPER EOCENE-OLIGOCENE

Kaypak Basalt

Gray-black porphyritic basalts. Total thickness is 300-700 m.

Karataş Clastic Facies

It is composed mainly of limestone, mudstone, calcerous shale, graywacke, conglomerate and various other clastics. Some volcanics are also present in this formation. There are many reworked fossils which belong to Middle or Upper Eocene. It is about 2500 m. thick.

İsalı 'Catastrophic' Facies

It is a very complex rock unit and composed of transported large limestone blocks, different types of volcanic rocks, cherts, claystone, graywacke, sandstone and conglomerate. Total thickness is about several thousand meters.

OLIGOCENE(?)

Garajtepe Formation

Massive conglomerate having a thickness of about 500 m. It is unfossilliferous.

Karsantı Formation

This formation is composed of brown, very thin-layered claystone. There are also some plant fossils and lignites in it. Total thickness is about 1000 m.

Meydan Formation

It is composed of shale, fossilliferous limestone, siltstone with lignite, conglomerate and sandstone. Total thickness could not be measured in the field.

Karsantı and Meydan Formation are covered with Miocene Karaisalı Limestones and locally with Çingöz Formation.

Hunt Institute for Botanical Documentation

SECTOR

ADANA – KÖPEKLİ – KARSANTI – SEYHAN NEHRİ – HANDERE

Caliche & Alluvium

URFACE OF ADANA PLAINS : KURANŞA GRAVELS

Handere fm

ADANA GROUP

eparlı mbr.

Kepez mbr.

Lower Tuff Zone

Çaparlı mbr.

?

Güvenç sh

fm

Topallı mbr

SEYHAN GROUP

Köpekli sh mbr

R Girdilli fm.

Meydan fm

Karsanti fm

Garattepe fm

IN INTRAMONTANE BASIN OF KARSANTI (EXACT AGE UNCERTAIN MAY BE LATEST OLIGOCENE – EARLIEST MIOCENE ?)

DOĞAN GROUP

POZANTI – KARSANTI AREA

BASIC INTRUSIVES ("OPHIOLITES") OF MAINLY

LATE CRETACE (PRE-UPPER? MAESTRICHTIAN) AGE

AESOZOIC CONTACT PROBABLE NOT EXOSED IN SOUTHERN TOROS RANGE

EAST OF ÇAKIT ÇAYI AND WEST OF SEYHAN NEHRİ

SECTOR 4

GÜZLE – AREA NORTH & EAST OF KOZAN

Caliche & Alluvium

TERRACE GRAVELS

UPPER MIOCENE – PLIOCENE

NOT DEPOSITED OR ERODED

Hekkadag cgl

Dinger fm

Outcrop of Isalı "catastrophic" facies (?)

at Dinger Tepe :

EXOTIC LS BLOCKS IN EXTRUSIVES

BASE NOT EXPOSED

Kuyuluk ls

Tekmatlı ls

Andildağ ls

Düzağaç fm

Dali dol

Göreken fm

Güzle fm

BASE NOT EXPOSED

SECTOR 5

NORTH & EAST OF KADİRLİ – CEYHAN

Caliche & Alluvium

TERRACE GRAVELS & BASALT FL

Kadirli fm

Dinger fm

Nurfet fm

Isalı "catastrophic" facies

Karataş clastic facies

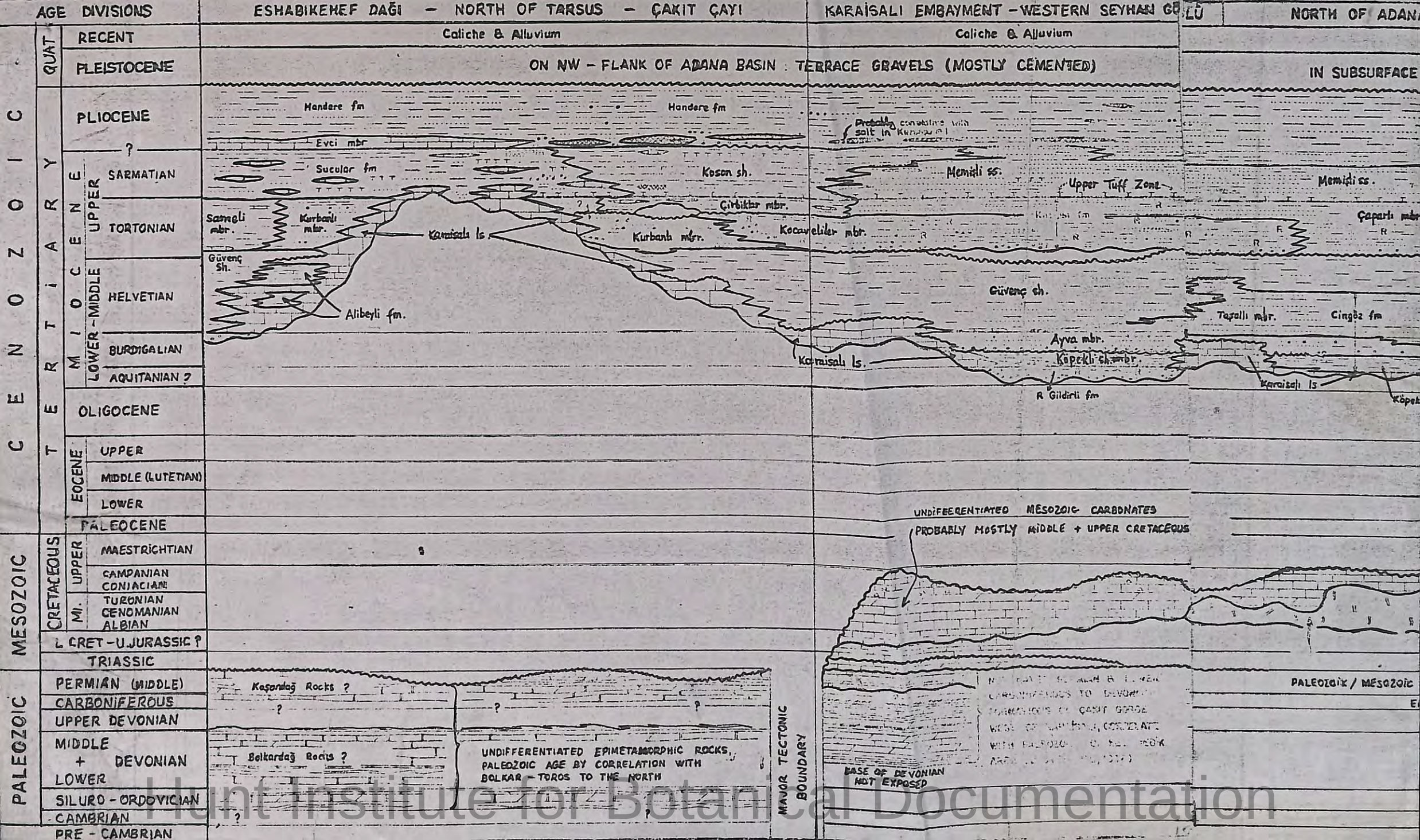
BASE NO

Tekmatlı ls

BASE NOT EXPOSED

MAGNITUDE OF UNCONFORMITY UNKNOWN

Hunt Institute for Botanical Documentation

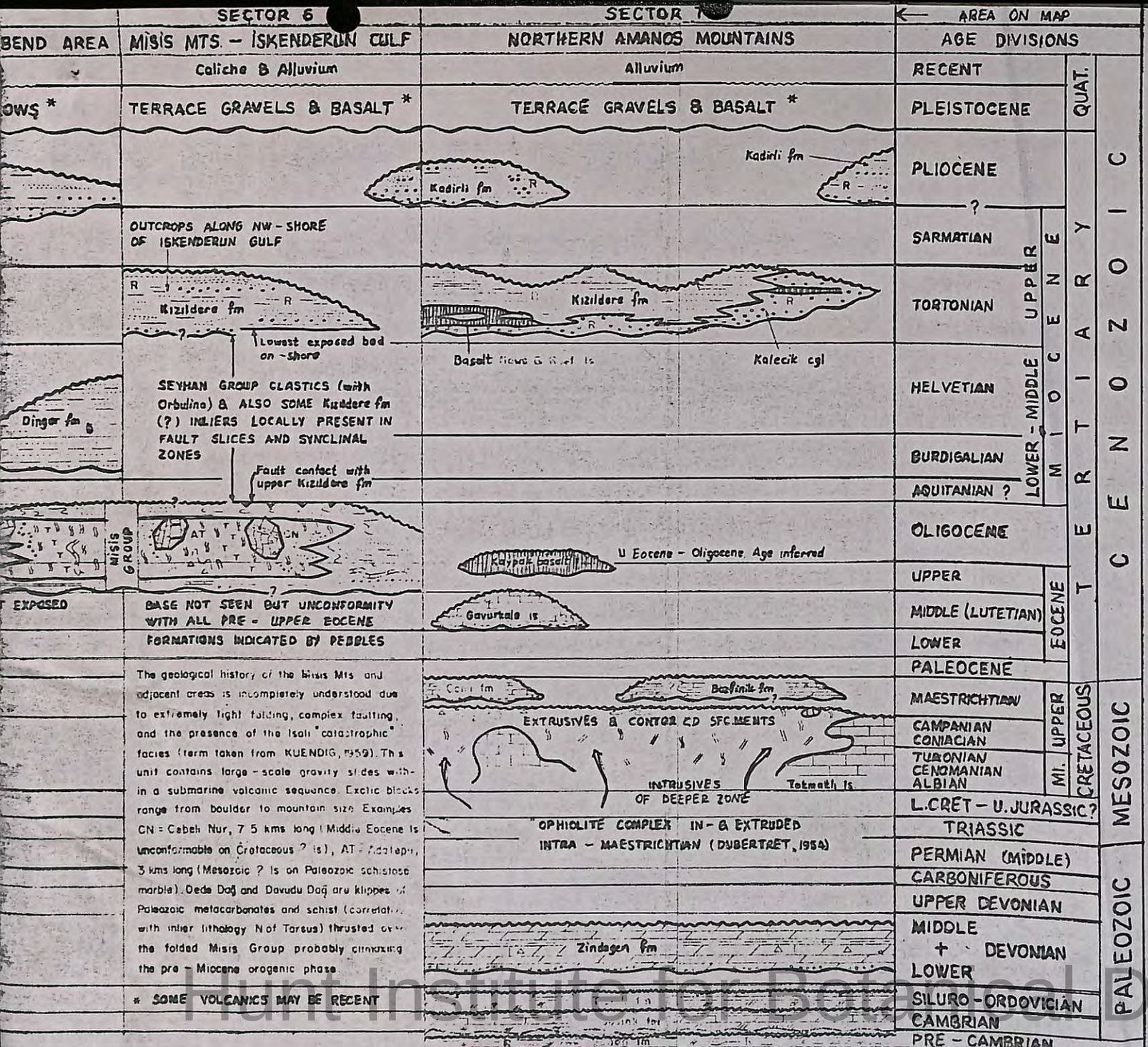


Hunt Institute for Botanical Documentation

MOBIL EXPLORATION MEDITERRANEAN INC

AGE RELATIONSHIPS OF EXPOSED ROCK UNITS IN THE ADANA BASIN & SURROUNDING LANDS TURKEY

PETROLEUM DISTRICT VII



The geological history of the Misis Mts and adjacent areas is incompletely understood due to extremely tight folding, complex faulting, and the presence of the Isali "catastrophic" facies (term taken from KUENDIG, 1959). This unit contains large-scale gravity slides within a submarine volcanic sequence. Exotic blocks range from boulder to mountain size. Examples CN = Cebeh Nur, 7.5 kms long (Middle Eocene is unconformable on Cretaceous ? ls), AT = Adatepe, 3 kms long (Mesozoic ? ls on Paleozoic schistose marble). Dede Dağ and Davudu Dağ are klippes of Paleozoic metacarbonates and schist (correlative with inlier lithology N of Tarsus) thrusted over the folded Misis Group probably climaxing the pre-Miocene orogenic phase.

* SOME VOLCANICS MAY BE RECENT

LEGEND

- Conglomerate
- Sandstone
- Siltstone & Sandy Shale
- Shale & Claystone
- Limestone
- Dolomite
- Chert
- Anhydrite & Gypsum
- Lignite
- R Red & Variegated Beds
- TTT Tuff & Tuffite
- ± Serpentinized Basic Igneous Rocks, in part associated with intermediate Rocks. Text on chart indicates whether ex- or intrusive.
- Basalt Flows

Epimetamorphic Rocks

- Marble
- Quartzite
- Phyllite & / or Schist

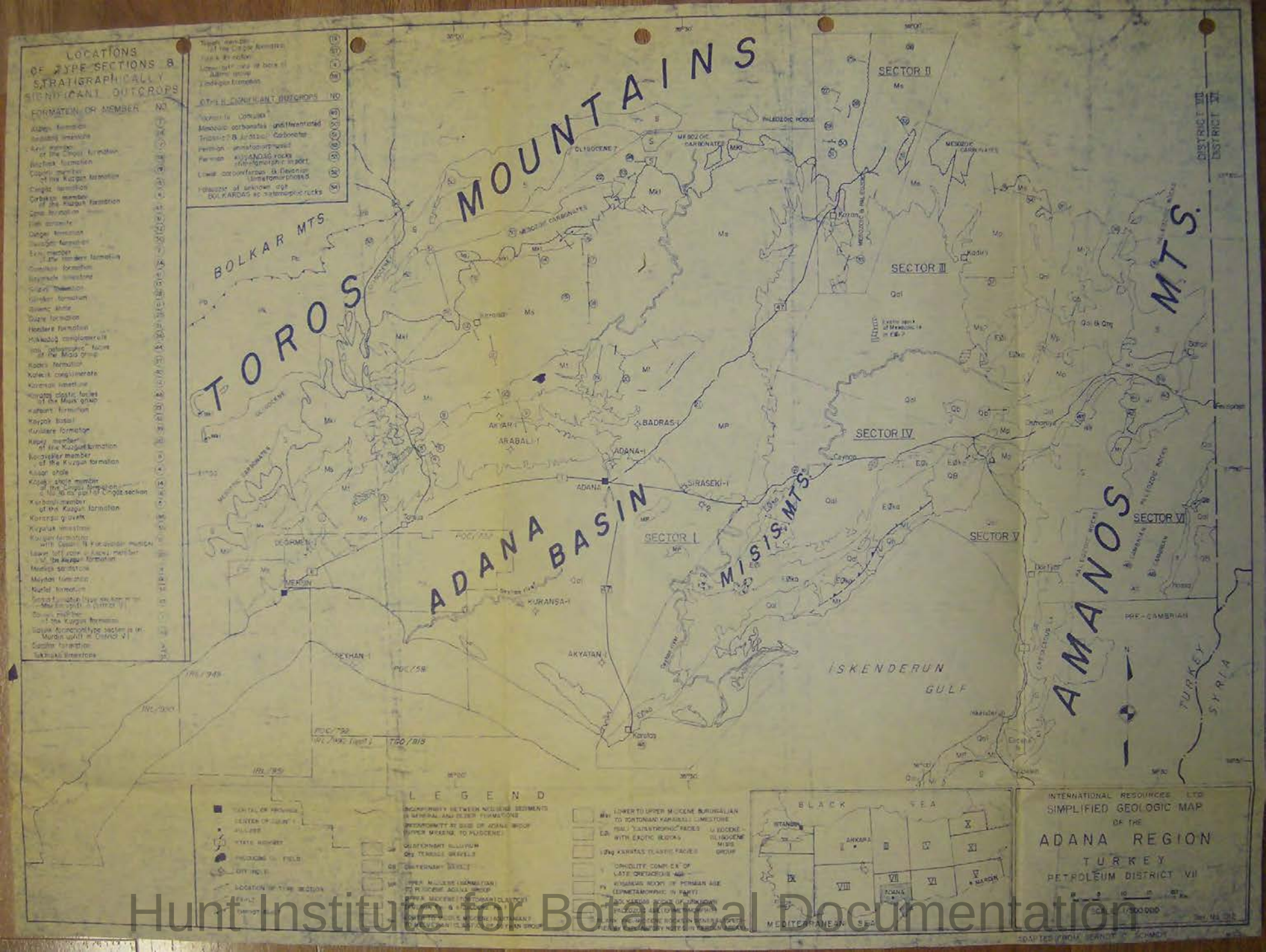
- Time plane
- Formation boundary
- Erosional and / or depositional break (where shown in direct contact with overlying formation indicates break of unknown or slight duration, where shown below a non-sequence indicates top of eroded lower formation).
- Base of transgressive formation following a non-sequence
- Break of unknown or slight duration passing into non-sequence of associated time value
- Intrusive contact, younger than time unit which is transected.

Recent erosion is neglected

CHART BY G.C. SCHMIDT
BASED ON FIELD WORK AND PALEONTOLOGICAL STUDIES BY MOBIL STAFF COMBINED WITH PUBLISHED INFORMATION.
ANKARA, JUNE 1962

PLATE 2

Hunt Institute for Botanical Documentation



Hunt Institute for Botanical Documentation

17 June, 1982

Mr. Volkan S. Ediger
Türkiye Petrolleri Anonim Ortakligi
Palinoloji Lab.
Müdafaa Caddesi No. 22, Bakanliklar,
Ankara, Turkey

Dear Volkan:

Thanks for yours of 3 June. I now understand that it is not practical for us to think in terms of a really super-short Ph.D. program. However, I really do believe we could get it done in 2½ years. I also believe I understand, on the basis of two recent conferences, about how to accomplish support for you. I also understand why TPC (and Turkey generally) is not so crazy about encouraging Ph.D. work in the USA. Turgai Ertekin is a perfect example. However, you and I know that you will return to Turkey--Turkey needs you, and many more like you.

I have worked very hard to figure out how to support you here. What is maddening is that I had no trouble getting Duck Choi here from Korea, though I didn't know him at all, because at that time the department was supporting everybody. After he got here, it was touch-and-go every term, but he never starved, and now NSF has finally come through with a nice grant for the rest of his and my work.

Elcin would, I am sure, eventually get a job that would help with your expenses, but it would take a while. I now realize--perhaps 6 months or even more.

I hadn't realized fully the ramifications of the visa problem, because Choi was my only previous experience, and he sailed right in (although his wife did not get a visa which permitted her to work). Of course, we could then promise support. I might as well drop a couple of my efforts to get support for your, because they wouldn't satisfy Penn State even if they came through (too temporary--they were just ways I thought up of getting you here).

A few days ago the National Science Foundation advised me to contact a British professor (John Dewey) at the State University of New York-Albany. I wish I had talked to him long ago. He says that in fact the best way to get support for you is to get a grant from NSF (or NASA, etc.) on a Turkish research project which could then offer you an assistantship. Professor Dewey has supported several Turkish students as graduate assistants this way. He suggested that the Adina Basin has

Hunt Institute for Botanical Documentation

sections that run across the Cretaceous-Paleogene boundary and which are begging for stratigraphic study. What do you know about it? If you agree it's a hot prospect, you should send me a short (about 10 pages with maps) report on same, which I could use as the basis for a proposal. Would Prof. Akyol, or somebody else at a Turkish University, be interested in joining the project? If so, that would be very helpful in terms of the politicking. (I need this info as fast as possible.)

I have by no means given up on this, as you can see, but you are right that a postponement is in order--let's say to Winter or even Spring Terms (Dec.'82; Mar.'83).

I just checked with the appropriate authorities here and have ascertained that your admission will be kept open indefinitely, if they know what's going on. Therefore you should immediately write both the Graduate School and Dr. D. P. Gold (Geology Program, Geosciences Dept., Deike 303, University Park, PA 16802), stating that you accept the admission, that you intend to study for a Ph.D. with me (mention my name) and that the only problem is support, which Prof. Traverse is seeking at present.

Best to all.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

TURKISH PETROLEUM CORPORATION

TÜRKİYE PETROLLERİ ANONİM ORTAKLIĞI

Capital : 2.000.000.000.— TL.
Address : Müdafaa Cad. No. 22 P. O. Box 209 Bakanlıklar, Ankara, Turkey
Cable : Petrol Ankara, Turkey
Telex : 42426 TPAO. TR, Ankara, Turkey

Dr.D.P.Gold
Geology Program,
Geosciences Department
303 Deike Building
University Park,PA 16802,U.S.A.

July 7,1982

Dear Dr.Gold:

I received a letter from Dr.Peter Deines, Coordinator, Geosciences Graduate Programs, notifying that Department of Geosciences can not support my graduate studies with an assistantship.

Please note that I accept the admission and intend to study for a Ph.D. with Prof.Alfred Traverse. Prof. Traverse is seeking for a support at present.

I'll be glad if my admission will be kept open until the support problem is solved.

Yours sincerely,

Volkan Ş.Ediger
Palynologist

TP-Stok No. : 78.130.030 (20.000 Adet)

Hunt Institute for Botanical Documentation

TURKISH PETROLEUM CORPORATION

TÜRKİYE PETROLLERİ ANONİM ORTAKLIĞI

Capital : 2.000.000.000.— TL.
Address : Müdafaa Cad. No. 22 P. O. Box 209 Bakanlıklar, Ankara, Turkey
Cable : Petrol Ankara, Turkey
Telex : 42426 TPAO. TR, Ankara, Turkey

Alfred Traverse
The Penn State University
Palynological Laboratories
435 Deike Building
University Park, PA 16802 USA.

June 3,1982

Dear Dr.Traverse:

Thank you very much for your letter of May 5,1982. I have also received two letters from the Graduate Admissions and the Office of Internatinol Student Affairs(OISA).

First, I would like to make clear some of the most important points concerning my Ph.D. study:

1.As I told you before, a short Ph.D. program is not preferable for my case. Turkish Petroleum Co. principally do not put the personnel on leave of absence for any reason including training or further education for more than six months, especially after military government is established. They also don't provide any financial support for master or Ph.D. programs. For this reason, I have to resign my work at TPC when I am leaving. If I am able to complete my Ph.D. study before I come back to Turkey, it will be much easier for me to find a new job at a university or somewhere else. Besides this, TCP will probably offer me a higher position then. In fact, I prefer to work for an academic institution after I return back to Turkey.

2.Under present circimstances, it is impossible to find a support for a graduate study in Turkey, because of economic crisis. I practically checked all the possibilities, but I could'nt find anything.

3.Elçin is willing to help support me if she can have a paid job. As it is written in the brochures sent by OISA, spouses of J-1 exchange visitor visa holders may request work permission only for his or her and the children's support. I think she won't have any problem on this subject. But this does't solve my visa problem, because when OISA have adequate certification that I can meet the financial requirements can my admission be finalized. Therefore, if I can not find a support for my Ph.D. study, both Turkish and U.S.A. authorities won't give me the nesessary visas for our trip there(J-1 and J-2 exchange visitor visas).

TP-Stok No. : 78.130.030 (20.000 Adet)

Hunt Institute for Botanical Documentation

TURKISH PETROLEUM CORPORATION

TÜRKİYE PETROLLERİ ANONİM ORTAKLIĞI

Capital : 2.000.000.000.— TL.
Address : Müdafaa Cad. No. 22 P. O. Box 209 Bakanlıklar, Ankara, Turkey
Cable : Petrol Ankara, Turkey
Telex : 42426 TPAO. TR, Ankara, Turkey

4.You have written in your last letter that you are trying the National Science Foundation and the State Department. If you think you'll find something but you need a longer period of time or if you think it will be good for any reason we may postpone the arrival time as long as necessary(to winter term etc.)
5.OISA sent me the necessary forms for visa application and admission for the students who will be supported by personal funds. They also noted that my admission will not be completed until they received the necessary information about the financial support.
6.I received a letter about on-campus graduate housing. They are not going to process my request untill I am officially admitted. I hope we won't have a problem a place to stay.

I tried to summarize our present conditions clearly. I did all I can do to study with you for my Ph.D. study. We also beleive that you did your best on the subject(even more you have to). Both Elçin and I would like to thank to you for your kind efforts concerning our visit to U.S.A. If you can not find someting finally, please do not fell sorry for the things behind us.

All our best to you and Dear Betty.

Yours very truly,

Volkan Ş.Ediger
Chief of Paly.Section

TP-Stok No. : 78.130.030 (20,000 Adet)

Hunt Institute for Botanical Documentation

518-457-8309

John Janney

(Janney + Sand)

at

Univ. of New. York.

Albany

John Lavee

re Turkey grant

5-4241?

Dept of Geol. Sci.

518-457-3974

(Kevin Burke is Chairman

of Dept.)

Nat. Acad. of Science

Hunt Institute for Botanical Documentation

5 May, 1982

Mr. Volkan S. Ediger
Türkiye Petrolleri Anonim Ortakliği
Araştirma Gr., Palinoloji Lab.
Müdafaa Caddesi No. 22, Bakanliklar
Ankara, Turkey

Dear Volkan:

Yours of 21-IV came within the last few days. By coincidence, your complete graduate school dossier sits on my desk as well. The members of the admission committee are giving you very good marks for admission, despite the fact your GRE and TOEFL nos. are not quite as high as I had predicted. The problem will, as you have surmised, boil down to financial support. At the moment I have no (=0) support on tap for any of m y current graduate students. I have three proposals in the works with the National Science Foundation but no definite news on any of them. Teaching assistantships will cover at least two students, and one new student has a fellowship he brings with him. So clearly I can't absolutely promise anything. However, as I've said before, nobody has ever dropped out of one of m y programs for financial reasons. If she is willing, Elcin can help support you. Further, I think it's likely I'll find something for you. I am trying the State Department, etc. Still further, I am certain we can push you through the year's required residence, language, candidacy, and comprehensive exams and have your thesis project well underway in a little over a year--that's what Norrie Robbins did. That is why I favored a Turkish research project, because you could then, in say 18 months, go back to TPC and finish the Ph.D. thesis in evenings and week-ends. However, that idea does raise one problem--if I do get lucky with the National Science Foundation, I can't pay you from NSF funds unless you work on one of the NSFpfunded projects. I think it would be best to keep your independence and tough it out for the relatively short period involved. Or don't you like the idea of a short Ph.D. program?--it seems to me to be the correct approach for people like Norrie Robbins and Volkan Ediger, who already are trained scientists. You are right about visas--OISA at PSU will see to it that the correct application forms are sent. The problem is that I am pretty sure that visa would theoretically preclude Elcin from earning money. But OISA gives me the impression that could be straightened out here later, if a local dentist offered her a job.

The local authorities want you to come if we can solve the $ problem. Are there any funding avenues we haven't explored--vis-à-vis NATO, etc., etc.?

Hunt Institute for Botanical Documentation

The Permian stratigraphic problem sounds especially interesting and new--but can you get hold of some cored intervals to sample? Is there any chance that your offer to do it as a Ph.D. project would prompt TPC to put you on leave of absence and perhaps provide a little money (if would be a bargain) to help you for, say, 18 months over here?

Enough for now. All the best. Love to Elcin and Sirin.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

TURKISH PETROLEUM CORPORATION

TÜRKİYE PETROLLERİ ANONİM ORTAKLIĞI

Capital : 2.000.000.000.— TL.
Address : Müdafaa Cad. No. 22 P. O. Box 209 Bakanlıklar, Ankara, Turkey
Cable : Petrol Ankara, Turkey
Telex : 42426 TPAO. TR, Ankara, Turkey

Dr.Alfred Traverse
The Penn State University
Palynological Laboratories
435 Deike Building
University Park,PA 16802
U.S.A.

April 21,1982

Dear Dr.Traverse:

Thank you very much for your letter dated March 31th,1982, and information about support for me and Elçin's potential work there.

As I wrote you in my last letter, my first choice for PhD study will always be the Palynological Laboratories of Penn State University. There is no problem concerning program. Only problem arises from financial matters. I am sure you will understand me for being too particular on this subject. As you remember from our conversations in Turkey, Elçin and I have to resign our works when we are leaving, and we should return back with PhD diploma. Otherwise we'll face to many problems concerning employement etc.

As far as I know, PhD studies need at least three or four years at Penn State. So, will we manage to get a teaching assistantship or some hourly wages etc. each term during my stay there? Otherwise do I have to pay any tuituion to the university? You say that Elçin will have no problem getting employement. You are the only person who knows both Elçin and dentists there. So I don't see any reason to talk about this matter anymore.

I have already applied for one of two-bedroom apartments of Graduate Circle to the Assignment Office for Campus Residences. But university bulletin says that "students must be admitted to the graduate school before their requests for on-campus living accommodations can be processed". I hope we won't have any problem concerning our housing at Graduate Circle.

I also talked to the authorities of the US Embassy in Ankara and read some documents about exchange visitor visas. As far as I understood, the Office of International Student Affairs will send us the appropriate visa application form after I am approved for

TP-Stok No. : 78.130.030 (20.000 Adet)

Hunt Institute for Botanical Documentation

TURKISH PETROLEUM CORPORATION

TÜRKİYE PETROLLERİ ANONİM ORTAKLIĞI

Capital : 2.000.000.000.— TL.
Address : Müdafaa Cad. No. 22 P. O. Box 209 Bakanlıklar, Ankara, Turkey
Cable : Petrol Ankara, Turkey
Telex : 42426 TPAO. TR, Ankara, Turkey

admission. I think there won't be any problem in getting such visas if university send us the necessary forms.

I am continuing to search for a research project. There is really nothing left to study on the northern part of Thrace Basin. But I may study on the southern part of it where there is practically no well drilled and thick Tertiary squences cropped out well. The other possibility is the Permian stratigraphy of SE part of Turkey. Which paleoprovince this part belongs to is still unknown. I haven't applied to the authorities of Turkish Petroleum Co. for a research project yet. I am waiting to be officially admitted. I am sure that there won't be any problem in finding a subject. I need to know some details like the number of samples, type of samples etc. Do you want me to process at least some of the samples in Turkey? Whatelse do you require about thesis? Please write me the details soon.

Norrie Robbins wrote me a letter after she got her diploma. I think you talked to her about your trip to State College. She tried to tell me what to expect and give some advice. Her ideas and her thinking system as a whole is really different than most of the people's.

We have to evaluate our present situation as truthfully as possible for not having some headaches in the future. As I told you many times you are really precious to us and we don't want to loose you for any reason.

I am looking forward to hearing from you soon. Best wishes to you and Betty as ever.

Yours very truly,

Volkan S.Ediger
Chief of Palynological Section

TP-Stok No. : 78.130.030 (20,000 Adet)

Hunt Institute for Botanical Documentation

31 March, 1982

Mr. Volkan Ş. Ediger
Türkiye Petrolleri Anonim Ortakliği
Araştirma Gr., Palinoloji Lab.
Müdafaa Caddesi 22, Bakanliklar,
Ankara, Turkey

Dear Volkan:

Yours of 22 March much appreciated. I am sorry that I have worried you about financial matters. Nevertheless, one must frankly admit that things in that department are not so good as they were five years ago. However, none of my graduate students has ever yet left here because the money ran out. It's been close a few times, though! The support of foreign students is especially difficult because they do not qualify for many of the special programs. You are in a strong position, however, because Elçin could support you and Şirin, temporarily at least, while we are rooting around for money in other ways. I am very sure that eventually we can come up with support, as I have for my present Korean student, Duck Choi. However, the possibility of Elçin's working puts you in a stronger position than the Chois. I do hope you will not go elsewhere solely because of the money. If you go elsewhere because of the program or for personal reasons, I will of course understand. For my part, I only wanted to make it clear that the financial problem will cause us both some headaches. Have you looked into all the various possibilities at your end for funding of Turkish students abroad (NATO fellowships, etc.)?

Now, regarding Elçin's potential work here--all of my information is that she will have no problem getting employment. There is even a pedodontist whom she could perhaps assist. I have a number of "irons in the fire", and Elçin is even known to one of the local dentists! IMPORTANT: I have just been in contact with the International Students' Office, and the lady in charge of such matters, Mrs. Frisbey, says that it is very important that you both get "Exchange Visitors" visas, not student visas. This will allow Elçin to apply later for permission to work, whereas a student's visa doesn't. Mrs. Frisbey has written herself a memo to take care of getting such a visa. (They are issued by Penn State directly.) But before you leave Turkey be sure your visas are such "Exchange Visitors" visas. As scientists with your credentials, you should have such visas anyway.

The Fall Term does not begin until 30 August (not 3 August!)--and that is only an orientation time for new students. The classes don't actually begin until 4 September (my birthday!). However, if you wanted to arrive early, that would be good--for example, it would

Hunt Institute for Botanical Documentation

be helpful re the job-for-Elcin business.

Once again, as far as support for you is concerned, I feel confident we would find some way, but I can't absolutely promise it, because at the moment I don't even have support beyond this term for any of my present students. However, that was almost equally true a year ago (I had support for one) and yet we managed to get by term after term--a teaching assistantship here, some hourly wages there, etc. I am at present trying to get graduate student support from some of the oil companies.

Don't forget to apply for housing at Graduate Circle. (The apartments are really quite nice and hence are much sought.)

Very best to you all.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

TURKISH PETROLEUM CORPORATION

TÜRKİYE PETROLLERİ ANONİM ORTAKLIĞI

Capital : 2.000.000.000.— TL.
Address : Müdafaa Cad. No. 22 P. O. Box 209 Bakanlıklar, Ankara, Turkey
Cable : Petrol Ankara, Turkey
Telex : 42426 TPAO. TR, Ankara, Turkey

March 22,1982

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

Dear Dr.Traverse:

Thanks for your letter dated February 18,1982.

You are absolutely right to define the GRE and TOEFL tests as "pesky". They are given once every three months and it is really difficult to make the registration for them due to bureaucracy in Turkey. Anyhow, I finally took both of the tests and I think the scores will be in very soon. Now, my addmission both for graduate study and assistantship has been completed.

Thank you very much for your great efforts for a job for Elçin. We don't have much idea about "work-permit" and "work-type visa" which you say are necessary for a paid job. We are both sure that you are doing your best for us as our best friends in U.S.A. This is more important for us than anything else. Please don't fell sorry for the things which are out of you. I may also try some other ways to get my PhD in U.S.A. But I first want to try every possibilities for the Penn State University. Because you know very well that my main purpose is to study with you whom I respect most as a palynologist and a human being. So whatever the result will be, you and Dear Betty will remain as one of our best friends, as always.

If I am admitted for Fall Term, we will be arriving sometime in July since the Fall Term begins on August 3,1982. As you have written graduate housing will be the best way for us. I am waiting to be officially admitted for such arrangements.

Hope to see you both in this summer. Best wishes to you and Betty.

Yours very truly,

Volkan Ş.Ediger
Chief of Palynological
Lab.Section of T.P.A.O.

TP-Stok No. : 78.130.030 (20.000 Adet)

Hunt Institute for Botanical Documentation

18 February, 1982

Mr. Volkan Ediger
Türkiye Petrolleri Palinoloji Lab.
Müdafaa Caddesi No. 22, Bakanliklar
Ankara, Turkey

Dear Volkan:

When your letter came, I knew what it was about before I opened it. We were very saddened, as were the others here who knew her. She had written about Christmas time that her problem was liver cancer, and I am aware that usually doesn't spare one for long. She was such a confident, cheerful person that even then we continued to hope. We feel so sorry for Ilham and Bülent and Samime's mother, and wish there were something we could do.

The reprints have come, and the letters, but not long enough ago to have been read and answered yet!

I am assuming that you'll be admitted for Fall Term, once the pesky GRE-TOEFL scores are in. When will you be arriving? Why don't you plan to live in graduate housing?--it's the best deal financially and quite adequate. If you are interested, as soon as you are officially admitted, you should get your application in immediately (you will get information with your offer of admission). You will need one of their two-bedroom units. I am already working on employment for Elcin. Dr. Marshall, whom she'll recall, is also working on it. As I understand it (perhaps you have different info?), Elcin must come on a work-type visa, or she wouldn't be allowed to have a paid job. Under present circumstances, that is probably going to be very important, as the current situation in the US is chopping graduate student financial support to smithereens. Dr. Marshall seems to be sure that eventually something will work out. I also have asked my student, Ronald Litwin, to get his wife to look around. She's an orthodontic technician.

All the best to you all.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

TURKISH PETROLEUM CORPORATION

TÜRKİYE PETROLLERİ ANONİM ORTAKLIĞI

Capital : 2.000.000.000.— TL.
Address : Müdafaa Cad. No. 22 P. O. Box 209 Bakanlıklar, Ankara, Turkey
Cable : Petrol Ankara, Turkey
Telex : 42426 TPAO. TR, Ankara, Turkey

February 9,1982

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

Dear Dr.Traverse:

It is with the deepest sorrow that I am writing to tell you that Prof.Dr.Samime Artüz died suddenly on February 5,1982.

I hope you have received my last letter and the reprints of two recent studies of mine.

All the best to you and Dear Betty.

Yours very truly,

Volkan Ş.Ediger

TP-Stok No. : 78.130.030 (20.000 Adet)

Hunt Institute for Botanical Documentation

TURKISH PETROLEUM CORPORATION

TÜRKİYE PETROLLERİ ANONİM ORTAKLIĞI

Capital : 2.000.000.000.— TL.
Address : Müdafaa Cad. No. 22 P. O. Box 209 Bakanlıklar, Ankara, Turkey
Cable : Petrol Ankara, Turkey
Telex : 42426 TPAO. TR, Ankara, Turkey

January 17,1982

The Pennsylvania State University
The Graduate Admissions Office
201 Kern Graduate Building
University Park,Pennsylvania 16802
U.S.A.

Subject: Amendments on application documents for admission and a graduate assistantship.

Dear Sir:

Please note the following changes on my application documents:

1.My compulsory military service has already been completed, and I began working for Turkish Petroleum Co.,Research Center in Ankara, Turkey as Chief of Palynological Laboratories on December 22,1981. Please add this information to Appendix III.

2.Two recent papers of mine was published in 1981.Please change Appendix IV as following:
Ediger,Volkan Ş.,1981,Fossil fungal and algal bodies from Thrace Basin,Turkey:Paleontographica,Abt.B,Bd.179,Lfg.1-4,p.87-102.
Ediger,Volkan Ş.,1981,Some Tertiary dinoflagellate cysts from Thrace Basin,Turkey, and their usage in paleoenvironmental analysis: Revista Espanola de Micropaleontologia,v.13,No.1,p.89-103.

3. Unfortunately I was unable to take GRE test on date which has already been informed to you by me. I will probably take GRE test on February 6,1982 and TOEFL test on March 13,1982.

Yours sincerely

Volkan Ş.Ediger

cc.Coordinator
of Geosciences Graduate
Programs.

Note: I sent the reprints under a seperate cover.
All the best to you and Betty

TP-Stok No. : 78.130.030 (20.000 Adet)

Hunt Institute for Botanical Documentation

xxxxxxx
863-3419

17 December, 1981

Mr. Volkan Ediger
Oruc Reis Cad. Imar-2 Bl.,
No. 5/8, Telsizler
Ankara, Turkey

Dear Volkan:

Thought you'd like to see the enclosed--Betty and I went and had a great time. One of the interesting sidelights was that 90% of the things in the "film show" were things you arranged for us to see! Of course, some of them (Hittite Museum, etc.), we saw only from the outside!

All the best to you, Elcin and Sirin for 1982! It should be a great year for our friendship.

As ever,

Alfred Traverse
Professor of Palynology

AT/et
enclosure

Hunt Institute for Botanical Documentation

new# xxxxxx
863-3419

10 November, 1981

Mr. Volkan S. Ediger
Oruç Reis Cad.İmarf2 Bl., No. 5/8
Telsizler, Ankara
Turkey

Dear Volkan:

Your letters of 1 and 3 November came today and were very welcome. Thanks for the Turkish philatelic leaflet--I really enjoyed it and will put it with the stamps, which did come. I wrote you about that earlier. Thanks also for the birthday card, with picture of the crystals, and for the nice sentiment that accompanied it.

As you say, the experiences with your papers is a good lesson. It is so little extra effort to take every precaution to make a paper the very best one can do, that it is the only way to go. If you write in English, you should take advantage of my editorial "savvy". In Turkish you should find a critique from a Turkish-speaking colleague and ask him/her to be as critical as possible.

All the best.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

Dr.Alfred Traverse
The Penn State University,
Palynological Laboratories,
435 Deike Building,
University Park PA 16802,U.S.A.

November 3,1981

Dear Dr.Traverse:

Thank you for your letter of October 20,1981. I sent mine of November 1,1981 yesterday. I think you will receive them together.

I am sorry that I forgot your birthday. Please forgive me and accept this very late card which is a picture of gypsum crystals in the form of "desert rose". I think these beautiful crystals express best my feelings about you and our relationship.

Thank you for the information concerning my application to your university. I am going to send all the necessary forms xxx to the Graduate School very soon.

All my best to you and Betty.

Very truly yours,

Volkan Ş.Ediger

Hunt Institute for Botanical Documentation

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

November 1,1981

Dear Dr.Traverse:

I hope you received my letter dated September 25th,1981 with Atatürk's stamps on it and including the copies of the necessary forms for assistantship which I sent to the Coordinator of the Commity on Admissions in Geosciences.

I enclosed some more information about the "Commemorative set of the Birth Centenary of Atatürk" hoping that the stamps arrived in a good manner.

I also send all the "evaluation letters" to the Coordinator couple of weeks ago.So my application for an assistantship has almost been completed.

Unfortunately my study on Tertiary dinoflagellates was published in Revista.. v.12,no.1,p.89-103.Dr.Perconig,Editor of Revista.. has written me that he is very sorry not to contact with me before printing. They have published two more articlesabout Turkey in v.12, and they wanted mine to appear together with them. That is the reason why he didn't obey the international printing rules of scientific studies. Can you imagine that he didn't even send me the first proff. Besides this they don't have a person to correct at least the language. I got my lesson for my next studies. He has also written me that he is going to make up for this fault by publishing the corrections in the coming future.

You are so kind to send me a very nice birthday card.Thank you very much.

With all mybest wishes.

Very truly yours,

Volkan Ş.Ediger

Hunt Institute for Botanical Documentation

20 October, 1981

Mr. Volkan Ediger
Oruç Reis Cad. Imar-2 Bl., No. 5/8
Telsizler, Ankara
Turkey

Dear Volkan:

Thanks for yours of 25 September and the nice gift of Atatürk stamps--including some poses that were new to us! Thanks also for all the copies of your application materials. I checked to be sure the originals had arrived in the admissions office, and they had. Ms. Linda Gruhn in the Graduate Admissions Office of our department says that you're supposed to send in your application to the graduate school (The Graduate School, Pennsylvania State University, 317 Kern Building, University Park, PA 16802) AS SOON AS POSSIBLE. (A xerox copy to Ms. Gruhn, 503 Deike, would be nice but is not required.) It is true that it won'd be "processed" until all else is in, but the application itself should be completed and sent in now. As you know, the GRE & TOEFL test scores, and the recommendation letters are the major lacunae to be filled in your "dossier", but don't wait for these items before sending in the application.

All the best.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT.et
P.S. My birthday was 7 September--so the stamps were a birthday present!

Hunt Institute for Botanical Documentation

Dr. Alfred Traverse
The Penn State University,
Palynological Laboratories,
435 Deike Building,
University Park,PA 16802,U.S.A.

v w. Linda Graham,
The white Volcano/
her sent transcripts to Grad Sch.

September 25,1981

Dear Dr.Traverse:

Thanks for your letter of September 7,1981 and also for your deep concern on the details of our future stay in State College. Now we have a lot of time to discuss such things ahead of us.

I enclosed the copies of all the necessary forms which have already been sent to Dr.Graham,Coordinator of the Committee on Admissions in Geosciences, to apply for an assistantship in your department starting from fall semester of 1982.

The stamps on the envelope were purposely chosen by me as a gift to you from Edigers. It is the commemorative set printed for the "Birth Centenary of Atatürk" this year. I hope you will like them.

Today is my birthday and we are celebrating it in Ankara.How nice that we will probably do it altogether in State College next year.

All the best to you and Dear Betty as ever.

Yours very truly

Volkan Ş. Ediger

Encs.
Copies of the letter and
the forms sent to Dr.Graham.

Hunt Institute for Botanical Documentation

Dr.E.K. Graham
Coordinator,
Committee on Admissions in Geosciences,
503 Deike Building,
The Pennsylvania State University,
University Park,PA 16802,U.S.A.

September 25,1981

Dear Dr.Graham:

Please find enclosed the forms necessary for the application for an assistantship in your department during the fall term of 1982.

I have already made the registration for the TOEFL and GRE tests which will be given on November 21,1981 and December 12,1981 respectively. Test scores will be sent around January,1982.
The Office of Graduate Admissions have informed me that my application would not be processed until all the admission items including the test scores were received. For this reason, I have to wait for the test scores to apply to the Graduate School.

Recommendation letters will be forwarded to you either by me or by the persons who have been asked to fill them out under seperate covers very soon.

If there are any points I missed I will appreciate to be informed about them.

I am looking forward to hearing from you,

Yours sincerely

Volkan Ş. Ediger

Encs.
Appendix I-VI(2 copies of each)
Transcript(2 copies)
Application form(2 copies)

Hunt Institute for Botanical Documentation

APPENDIX I. COPIES OF B.Sc. AND M.Sc. DIPLOMAS

REPUBLIC OF TURKEY

MIDDLE EAST TECHNICAL UNIVERSITY

ANKARA

Şevket Volkan Ediger

HAVING SATISFACTORILY COMPLETED ALL REQUIREMENTS OF
THE DEPARTMENT OF

GEOLOGICAL ENGINEERING

IN THE FACULTY OF
ENGINEERING
ON JANUARY 20TH. 1976

HAS BEEN AWARDED THE DEGREE OF

BACHELOR OF SCIENCE IN GEOLOGICAL ENGINEERIN(

WITH ALL THE PRIVILEGES CONNECTED THEREUNTO

CHAIRMAN, BOARD OF TRUSTEES

PRESIDENT

DEAN OF THE FACULTY

Hunt Institute for Botanical Documentation

REPUBLIC OF TURKEY

MIDDLE EAST TECHNICAL UNIVERSITY

ANKARA

Şevket Volkan Ediger

HAVING SATISFACTORILY COMPLETED ALL REQUIREMENTS OF

THE DEPARTMENT OF

GEOLOGICAL ENGINEERING

IN THE FACULTY OF

ENGINEERING

ON JUNE 25th 1980

HAS BEEN AWARDED THE DEGREE OF

MASTER OF SCIENCE IN GEOLOGICAL ENGINEERING

WITH ALL THE PRIVILEGES CONNECTED THEREUNTO

IRMAN, BOARD OF TRUSTEES

PRESIDENT

DEAN OF THE FACULTY

Hunt Institute for Botanical Documentation

APPENDIX II. COPIES OF SOME IMPORTANT PARTS OF MASTER THESIS

GEOLOGY
OF THE KÜÇÜK ÇAMLI TEPE-ORTA TEPE DIASPORITE DEPOSITS
(MİLAS-MUĞLA)

A MASTER THESIS
SUBMITTED TO THE DEPARTMENT OF GEOLOGICAL ENGINEERING
AND THE COMMITTEE OF THE FACULTY OF ENGINEERING
OF MIDDLE EAST TECHNICAL UNIVERSITY
IN PARTIAL FULFILLMENT OF THE REQUIREMENTS
FOR THE DEGREE OF
MASTER OF SCIENCE

By
Volkan Ş. Ediger
June, 1980

Hunt Institute for Botanical Documentation

I certify that I have read this thesis and that in my opinion it is fully adequate, in scope and quality, as a thesis for the degree of Master of Science.

Supervisor

I certify that this thesis satisfies all the requirements as a thesis for the degree of Master of Science.

Chairman of the Department

Examining Committee in Charge :

Prof. Dr. Zeki Doğan

Asst. Prof. Dr. Ayhan Erler

Doc. Dr. Coşkun Uran

Asst. Prof. Dr. Oğuz Arda

Prof. Dr. Teoman Norman

Committee Chairman

Hunt Institute for Botanical Documentation

ABSTRACT

GEOLOGY OF THE KÜÇÜK ÇAMLI TEPE AND ORTA TEPE DIASPORITE DEPOSITS, MİLAS-MUĞLA.

EDİGER, Volkan Ş.

M.S. in GEO.E.

Supervisor : Asst.Prof.Dr. Ayhan Erler

June 1980, 70 pages.

The present thesis consists of a study of the general geological and mineralogical features of the Küçük Çamlı Tepe and Orta Tepe (Milas-Muğla) region. For this purpose, geological mapping and sample collection in the field and chemical, mineralogical and petrographical analyses in the laboratory were carried out.

The rock units in the studied area are pre-Permian Menderes Schists and Permian-Triassic Menteşe Formation. The lower limestone member, diasporite horizon, upper limestone member and schist member are the members of the Menteşe Formation. Faults, folds, unconformities, joints and schistosity are the main structural elements.

The diasporite deposits which are the metamorphosed products of the lateritic material of unknown origin occur between the lower and upper limestone members of the Menteşe Formation. The diasporite deposits were studied in detail in two districts: Küçük Çamlı Tepe and Orta Tepe. The Danişmen prospect was also studied. The main constituent of the samples is Al_2O_3 of which the distribution is probably normal. The variation of the Al_2O_3 content of the deposits

Hunt Institute for Botanical Documentation

at the surface and underground workings of both Küçük Çamlı Tepe and Orta Tepe are not similar. The other constituents of the samples are Fe_2O_3, SiO_2, TiO_2 and L.O.I. The principal minerals of ore deposits are diaspore and chloritoid. Some clay minerals such as illite, kaolinite and montmorillonite are abundant especially in the clay layers above and below the diasporite horizon. Similar mineralogical assemblage of the diasporite horizon and the clays below it indicates that there is a genetic relationship between them.

Key Words: Diasporite, Milas, Muğla, Geology, Mineralogy, Geochemistry.

Hunt Institute for Botanical Documentation

C O N C L U S I O N S

This thesis is the first study which covers the detailed geological, chemical and mineralogical investigations of a diasporite deposit in the Milas region.

In the present work, basic geological features and diasporite deposits of the Küçük Çamlı Tepe and Orta Tepe region in Milas, Muğla are studied. The detailed geological maps of the region are prepared at the scales of 1:25 000, 1:5 000 and 1:500. Various formations overlying the Menderes Massif are identified and mapped. These formations which are ranging from Paleozoic (pre-Permian) to Triassic are the Menderes Schists and the Menteşe Formation. The Menteşe Formation was studied in detail, and differentiated into four main units as the lower limestone member, the diasporite horizon, the upper limestone member and the schist member.

Faults are the main structural features of the area of study. Reverse faults which strike nearly N 60 W are dominant. There are mainly four fault zones which are approximately parallel to each other. The major reverse fault was observed as a wide deformed zone around the Küçük Çamlı Tepe mining district. Many other small scale normal faults are distributed throughout the studied area. These small faults generally transect the reverse faults. A small syncline was also observed. Joints and schistosity are common in crystallized limestones and schists respectively.

Hunt Institute for Botanical Documentation

Diasporite deposits between the lower and upper limestone members of the Menteşe Formation are of Permian-Triassic age. Lower contact of the diasporite horizon is more irregular than the upper one and both contacts are unconformable.

The chemical analyses of samples indicate that the Al_2O_3, Fe_2O_3, SiO_2, TiO_2 and L.O.I. contents are generally normally distributed throughout the deposits. Al_2O_3 which is the main constituent varies from 53.19 to 68.50 %.

Mineral assemblages of ore deposits and the adjacent rocks were determined by infrared absorption spectroscopy (IR), differential thermal analysis (DTA) and X-ray diffraction (XRD) methods. Major mineral of ore samples is diaspore, and chloritoid is always found with diaspore. Samples which were taken from the overlying and underlying clayey beds contain illite, kaolinite, montmorillonite and also chloritoid. Calcite is found around the contacts of especially the diasporite horizon and also fault planes as a secondary mineral.

The recommendations for the future work are:

1. Detailed geological maps of each mine have to be completed.
2. Detailed physical and chemical analyses are necessary for marketing of diasporite ore. These analyses have to be carried out using systematic samples to investigate the distribution patterns of minerals and main constituents.
3. The ore horizons have to be correlated throughout the region especially for prospecting purposes. This can be done by mapping and studying the rock units in detail.
5. Metallurgical research has to be carried out to find out economically feasible means of obtaining alumina from diasporite. New consumption areas have also to be searched for.

Hunt Institute for Botanical Documentation

APPENDIX III. PERTINENT EXPERIENCE

1976-1977 : Research Assistant
Middle East Technical Univ., Geological Engineering Dept.
Research and Teaching.
-General geology and geochemistry of the diasporite and emery deposits along the southern border of the Menderes Massif, Turkey. (Etibank State Mining Organization Project).
-Assistance in General Geology, Mineralogy, Petroleum Geology and Statistical Geology courses.

1977-1980 : Stratigraphical Palynologist
Turkish Petroleum Co., Research Center.
Research and Industry.
-Palynostratigraphical studies of the sequences in Thrace Basin, Turkey. (Turkish Petroleum Co. Project).
-Application of statistical geology and computer sciences to the stratigraphical analysis. (Turkish Petroleum Co. Project).
-Palynological investigations of the salt deposits and the related rock units from Salt Lake Basin, Central Anatolia. (Turkish Petroleum Co. Project).
-Micro-organisms and their usage in paleoecological and historical analysis around the archeological sites in Turkey. (Turkish Scientific and Technical Investigations Society Project).

1978 : Trainee
Gulf Research and Development Co., Houston, Texas, USA.
-Application of statistical palynology to the stratigraphy: Palynostratigraphy of Well Abalar-1 and the interpretation of paleoenvironment. (United Nations Project).

1979 : Trainee
Pennslyvania State Univ. Dept. of Geosciences, Palynological Laboratories.
-Attending the course named "Introduction to Palynology".

1980-Present: English Translater and Interpreter
General Staff of Turkey.
Compulsory Military Service.

Hunt Institute for Botanical Documentation

APPENDIX IV. THESIS AND PUBLICATIONS

Ediger, Volkan Ş., 1976, Diasporite deposits around the Menderes Massif: M.E.T.U., Graduate Seminar, 16p., Unpublished.

Ediger, Volkan Ş., 1977, Palynological report of the Well Gerdelli-1, Thrace Basin : Turkish Petroleum Co. (T.P.A.O.), Report No.195, (In Turkish). Unpublished.

Erkmen, U., Ediger, V.Ş. and Sinanoğlu, E., 1978, Age determinations and the stratigraphical correlations of the units underlying the Kurraçine Formation in the Wells Telhasan-1 and Girmeli-1: T.P.A.O., Report No.190. (In Turkish). Unpublished.

Ediger, Volkan Ş., 1979, Palynological investigations of some samples taken from the Devonian sections of Pennslyvania, USA: The Penn. State Univ., Final Report of Geol.423. Unpublished.

Ediger, Volkan Ş., 1979, Palynological studies on Core No.3 of Well TG-1/B: T.P.A.O., Report No.279. (In Turkish). Unpublished.

Ediger, Volkan Ş., 1979, Palynology and its application to geology: Çukurova University, Conference Texts. (In Turkish). Unpublished.

Kutluk, H. and Ediger V.Ş., 1979, Palynological analysis of the samples taken from Tekirdağ-Kumbağ Section: T.P.A.O., Report No.287. (In Turkish). Unpublished.

Ediger, Volkan Ş., 1980, Palynology: Its past, present and future: Yeryuvarı ve İnsan, v.5, No.1-2, p.21-26. (In Turkish).

Ediger, Volkan Ş., 1980, Geology of the Küçük Çamlı Tepe-Orta Tepe diasporite deposits (Milas-Muğla): M.E.T.U., M.Sc. Thesis, 70 p., Unpublished.

Kutluk, H. and Ediger, V.Ş., 1980, Palynology of evaporites and an application in Salt Lake Basin: T.P.A.O., Report No.345. (In Turkish). Unpublished.

Kutluk, H. and Ediger, V.Ş., 1980, Palynological investigations of the Salt Lake Basin, Central Part of Turkey: Pollen et Spores. In press.

Harput, B. and Ediger, V.Ş., 1980, Application of organic maturation methods to source rock analysis: Fifth Congress of the Turkish Assoc. of Petroleum Geologists, p.69-76. (In Turkish).

Ediger, Volkan Ş., 1981, Fossil fungal and algal bodies from Thrace Basin, Turkey: Palaeontographica, Abt.B, 13p., In press.

Ediger, Volkan Ş., 1982, Some fossil dinocysts from Thrace Basin, Turkey and their usage in paleoenvironmental analysis: Revista Española de Micropaleontologia, v.14, No.1. In press.

Hunt Institute for Botanical Documentation

CONFERENCES, LECTURES AND TALKS

March 1978 : Turkish Petroleum Co., Research Center, Ankara.
Results of palynological analysis of Well Abalar-1, Thrace Basin, Turkey.

May 1979 : Çukurova University, Adana.
Palynology and its application to geology.

June 1979 : Turkish Petroleum Co., Research Center, Ankara.
Introduction to palynology (Lecture).

March 1980 : 26th Congress of the Geological Society of Turkey, Ankara.
Grand Canyon and its vicinity.

May 1980 : 5th Congress of the Turkish Association of Petroleum Geologists.
Application of organic maturation methods to source rock analysis (With Mr. Bülent Harput).

March 1980 : Turkish Petroleum Co., Research Center, Ankara.
Palynology of the Salt Lake Basin, Turkey (With Miss. Hatice Kutluk).

September 1980 : Turkish Petroleum Co., Research Center, Ankara.
Application of statistical palynology to stratigraphy.

Hunt Institute for Botanical Documentation

APPENDIX V. PREVIOUS FELLOWSHIPS OR SCHOLARSHIPS AND HONORS AWARDED

1970 : Konya-Ereğli High School.
Graduation as third of his class.

1972-1976 : Etibank State Mining Organization.
Scholarship.

1975 : Middle East Technical Univ.,Geological Engineering Dept.
Top Honor for the spring semester of the undergraduate prog.

1976 : Middle East Technical Univ.,Geological Engineering Dept.
Graduation as second of his class.

1976 : Middle East Technical Univ.,Gedlogical Engineering Dept.,
Top Honor for the fall semester of the graduate program.

1977 : Middle East Technical Univ.,Geological Engineering Dept.
Top Honor for the spring semester of the graduate program.

1979 : United Nations Developing Program.
Fellowship.

MEMBERSHIPS

1973-Present : Geological Society of Turkey, MEMBER.

1976-Present : Chamber of Geological Engineers of Turkey, MEMBER.

1978-Present : Turkish Association of Petroleum Geologists, MEMBER.

1979-Present : American Association of Stratigraphical Palynologists, MEMBER.

1979-Present : Turkish Committee for Palynology, MEMBER.

1979,1980 : Turkish Committee for Palynology, PRESIDENT.

1979,1980,1981 : Turkish Committee for Palynology,TURKISH REPRESENTATIVE.

1980 : Geological Society of Turkey, EXECUTIVE MEMBER.

1980 : Turkish Association of Petroleum Geologists, GENERAL SECRETARY OF SCIENTIFIC COMMITTEE.

Hunt Institute for Botanical Documentation

APPENDIX VI. PERSONS WHO HAVE BEEN ASKED TO SEND RECOMMENDATION LETTERS.

1. Prof.Dr.Erol Akyol
   Aegean University,
   Faculty of Earth Sciences,
   Bornova, İzmir,
   Turkey

2. Dr.William C. Elsik
   Exxon Company, U.S.A.,
   P.O. Box 2180,
   Houston, Texas 77001,
   U.S.A.

3. Mr.Erhan Dileköz
   Deputy Manager,
   Exploration Laboratory,
   Turkish Petroleum Cor.,
   Petroleum Development Center,
   Ankara, Turkey

4. Dr.Turgay Ertekin
   Petroleum and Natural Gas Engineering,
   The Pennsylvania State University,
   612 Berkshire Drive,
   State College, PA 16801,
   U.S.A.

5. Asst.Prof.Dr.Ayhan Erler
   The Middle East Technical University,
   Geological Engineering Department,
   Ankara, Turkey

Hunt Institute for Botanical Documentation

MIDDLE EAST TECHNICAL UNIVERSITY
ANKARA - TURKEY
ACADEMIC RECORD

Office of the Registrar :

Name of Student :

Last : Ediger Faculty : Engineering

Others : Şevket Volkan Department : Geological

Date of Birth : 1953 Date of Entry : 1970

High School or Lycée : KONYA EREĞLİ LİSESİ

Date of Leaving :

Degree : B.Sc Date : Jan 20,1976

GRADING SYSTEM

Grade Percentage	Grade	Points counted
90—100	AA Excellent	4.0
85—89	BA Very Good	3.5
80—84	BB Good	3.0
75—79	CB Fairly Good	2.5
70—74	CC Average	2.0
65—69	DC Fair	1.5
60—64	DD Poor	1.0
55—59	FD Very Poor	0.5
54—and below	FF Failure	0.0

S Satisfactory (non credit)
Honours : GPA 3.00 - 3.50
High Honours : GPA 3.51 - 4.00
Probation : GPA Less than 2.00

THE GENERAL MEDIUM OF INSTRUCTIONS THROUGHOUT THE UNIVERSITY IS ENGLISH

first YEAR

FALL SEMESTER 1971

Subject	Course No.	Grade	Credit Rating	Credits
Calculus 1	Math 151	CB	18	45.0
General Phys.1	Phys 105	CC	15	30.0
General Chem.1	Chem 101	CC	12	24.0
Freshman Eng.1	Eng 101	CC	9	18.0
Engg.Computation	E.S. 100	DD	6	6.0
GPA : 2.05	TOTALS		60	123.0
Cum. GPA :	PREVIOUS TOTALS			
Standing :	GRAND TOTALS			

SPRING SEMESTER 1972

Subject	Course No.	Grade	Credit Rating	Credits
Calculus 11	Math 152	CC	18	36.0
General Chem.11	Chem 102	CB	12	30.0
General Phys.11	Phys 106	CB	15	37.5
Engg.Graphics	M.E. 101	BA	9	31.5
Freshman Eng.11	Eng 102	BB	9	27.0
GPA : 2.57	TOTALS		63	162.0
Cum. GPA :	PREVIOUS TOTALS			
Standing :	GRAND TOTALS			

SECOND YEAR

FALL SEMESTER 1972

Subject	Course No.	Grade	Credit Rating	Credits
General Geology	Geo 201	CC	9	18.0
Int.to Mineral Ind.	Mine 215	CB	6	15.0
Survey Eng.Meas	C.E. 202	AA	8	32.0
Elem.Engg.Mech.	E.S. 220	CB	9	22.5
Diff.Equations	Math 255	FD	(9)	(4.5)
Analy.Chem.	Chem 211	CC	12	24.0
GPA : 2.19	TOTALS		53	116.0
Cum. GPA :	PREVIOUS TOTALS			
Standing :	GRAND TOTALS			

STUDENT COPY
NOT VALID FOR TRANSFER PURPOSES

SPRING SEMESTER 1973

Subject	Course No.	Grade	Credit Rating	Credits
Prin.of Miner.	Geo 202	CC	9	18.0
Historical Geology	Geo 206	CC	6	12.0
Mapwork	Geo 208	BA	9	31.5
Mineral Exp.Dril.	Mine 218	BB	6	18.0
Stren.of Mater.	E.S. 224	CC	9	18.0
Intro.Comp.Prog.	C.S. 200	FF	(9)	(0.0)
GPA : 2.03	TOTALS		48	97.5
Cum. GPA :	PREVIOUS TOTALS			
Standing :	GRAND TOTALS			

THIRD YEAR

FALL SEMESTER 1973

Subject	Course No.	Grade	Credit Rating	Credits
Prin.of Petrog.	Geo 301	CB	9	22.5
Optical Minerology	Geo 303	DD	9	9.0
Prin.of Starat	Geo 305	AA	9	36.0
Geomorphology	Geo 307	BB	9	27.0
Geomechanics	Mine 317	DC	9	13.5
Linear Algebra	Stat 203	DD	9	9.0
Intro.Petrol.Indust	Pete 217	BB	6	18.0
GPA : 2.25	TOTALS		60	135.0
Cum. GPA :	PREVIOUS TOTALS			
Standing :	GRAND TOTALS			

SPRING SEMESTER 1974

Subject	Course No.	Grade	Credit Rating	Credits
Paleontology	Geo 212	BB	9	27.0
Structural Geology	Geo 306	BB	9	27.0
Sedime Rock Anal.	Geo 310	BB	9	27.0
Petrography	Geo 312	CB	9	22.5
Geological Mapping	Geo 308	BA	12	42.0
Intro.Comp.Prog.	C.S. 200	CB	9	22.5
Hydrogeology	Geo 316	CB	9	22.5
GPA : 2.89	TOTALS		66	190.5
Cum. GPA :	PREVIOUS TOTALS			
Standing :	GRAND TOTALS			

REMARKS

SIGNATURE OF REGISTRAR : for

DATE 29 MAY 1981

Prepared by

Checked by

Hunt Institute for Botanical Documentation

Sheet No. 2

Name of Student : EDIGER
LAST : EDIGER
FIRST : VOLKAN

Faculty : ENGINEERING Department : GEOLOGICAL

FOURTH YEAR

FALL SEMESTER 1974

Subject	Course No.	Grade	Credit Rating	Credits
Hist.Türk.Rev.	Hist 400	-	-	-
Economic Geology	Geo 401	CB	9	22.5
Intro.to Geop.	Geo 405	BA	9	31.5
Pet.Met.Rocks	Geo 417	CC	9	18.0
Geostatistics	Geo 419	CC	9	18.0
Photogeology	Geo 409	CC	6	12.0
Geochemistry	Geo 413	AA	6	24.0
Diff.Equations	Math 255	CC	9	18.0
GPA : 2.53	TOTALS		57	144.0
Cum. GPA :	PREVIOUS TOTALS			
Standing :	GRAND TOTALS			

SPRING SEMESTER 1975

Subject	Course No.	Grade	Credit Rating	Credits
Engg.Geology	Geo 406	FF	(9)	(0.0)
Econ.Geology	Geo 402	FF	(9)	(0.0)
Hist.Türk.Rev.	Hist 400	-	-	-
Geochemical	Geo 414	FD	(6)	(3.0)
MiningsGeology	Geo 411	FD	(6)	(3.0)
Petroleum Geology	Geo 410	DC	(9)	(13.5)
Comparative Educ.	ED 310	FF	(9)	(0.0)
GPA : 0.41	TOTALS		48	19.5
Cum. GPA :	PREVIOUS TOTALS			
Standing :	GRAND TOTALS			

FOUTH YEAR

ADDITIONAL SEMESTER 1975

Subject	Course No.	Grade	Credit Rating	Credits
Engineer.Geology	Geo 406	AA	9	36.0
Econ.Geology	Geo 402	AA	9	36.0
Hist.Türk.Rev.	Hist 400	-	-	-
Geochemical Pros	Geo 414	AA	6	24.0
Petroleum Geology	Geo 410	AA	9	36.0
Comparative Educ.	ED 310	BB	9	27.0
Mining Geology	Geo 411	AA	6	24.0
GPA : 3.81	TOTALS		48	183.0
Cum. GPA : 2.62	PREVIOUS TOTALS		389	963.5
Standing :	GRAND TOTALS		437	1146.5

SPRING SEMESTER

Subject	Course No.	Grade	Credit Rating	Credits
GPA :	TOTALS			
Cum. GPA :	PREVIOUS TOTALS			
Standing :	GRAND TOTALS			

YEAR

FALL SEMESTER

Subject	Course No.	Grade	Credit Rating	Credits
GPA :	TOTALS			
Cum. GPA :	PREVIOUS TOTALS			
Standing :	GRAND TOTALS			

SPRING SEMESTER

Subject	Course No.	Grade	Credit Rating	Credits
GPA :	TOTALS			
Cum. GPA :	PREVIOUS TOTALS			
Standing :	GRAND TOTALS			

STUDENT COPY
NOT VALID FOR TRANSFER PURPOSES

REMARKS

Due to the boycott most of the students failed to take the final examinations of the spring semester 1975 and they were given "FF" grades. With the decision of the Honourable Board of Trustees of our University students retake the courses during the Additional Semester 1975 and the "FF" grades reduced from the total of this semester which was added at the beginning of the academic year 1975-1976.

Prepared by

Checked by

SIGNATURE OF REGISTRAR :

DATE 29 MAY 1981

Hunt Institute for Botanical Documentation

MIDDLE EAST TECHNICAL UNIVERSITY
ANKARA - TURKEY
ACADEMIC RECORD
FOR THE DEGREE OF MASTER

Office of the Registrar :

Name of Student :

Last : EDİGER Faculty : ENGINEERING

Others : VOLKAN Department : GEOLOGICAL

Date of Birth : 1953 Date of Entry : 1970

Previous degree earned	Date	Name of the Institution
B.Sc	Jan 20,1976	METU

Degree offered by METU : M.S. Date : June 25,1980

GRADING SYSTEM

%	Grade	Point Count
90 - 100	A Excellent	4
80 - 89	B Good	3
70 - 79	C Acceptable	2
Below 70	F Fail	0
	I Incomplete	—
	W Withdrawn (with permission)	
	S Satisfactory (Transfer grade)	—
	P Pass	—
	U Unsatisfactory	—

Probation : GPA Less than 2.51

THE GENERAL MEDIUM OF INSTRUCTIONS THROUGHOUT THE UNIVERSITY IS ENGLISH

FIFTH YEAR

FALL SEMESTER 1975

Subject	Course No.	Grade	Credit Rating	Credits
Adv.Structural Geo	Geo 501	AA	12	48.0
Geo.Türk.Mid.East	Geo 524	AA	6	24.0
Adv.Ign.Met.Pet.	Geo 503	AA	9	36.0
GPA : 4.00	TOTALS		27	108.0
Cum. GPA :	PREVIOUS TOTALS			
Standing :	GRAND TOTALS			

SPRING SEMESTER 1976

Subject	Course No.	Grade	Credit Rating	Credits
Adv.Seismic	Geo 502	BB	6	18.0
Graduate Seminar.	Geo 590	AA	3	12.0
Instrumental Geo.	Geo 416	AA	9	36.0
Advanced Geostat	Geo 517	AA	9	36.0
Mineral Economics	Geo 510	AA	6	24.0
M.Sc Research	Geo 592	-	-	-
GPA : 3.82	TOTALS		33	126.0
Cum. GPA :	PREVIOUS TOTALS			
Standing :	GRAND TOTALS			

FIFTH YEAR

FALL SEMESTER 1976

Subject	Course No.	Grade	Credit Rating	Credits
Master Thesis	Geo 591	-	-	-
GPA : -	TOTALS		-	-
Cum. GPA : 3.90	PREVIOUS TOTALS			
Standing : satis	GRAND TOTALS		60	234.0

STUDENT COPY
NOT VALID FOR TRANSFER PURPOSES

SPRING SEMESTER 1977

Subject	Course No.	Grade	Credit Rating	Credits
Research + Thesis	Geo 592	-	-	-
GPA :	TOTALS		-	-
Cum. GPA : 3.90	PREVIOUS TOTALS			
Standing : satis	GRAND TOTALS		60	234

FIFTH YEAR

FALL SEMESTER 1977

Subject	Course No.	Grade	Credit Rating	Credits
[illegible]	Geo 591	-	-	-
GPA :	TOTALS			
Cum. GPA :	PREVIOUS TOTALS			
Standing :	GRAND TOTALS			

HE WAS GRANTED LEAVE OF ABSENCE FOR THE ACADEMIC YEAR 1977-1978.

SPRING SEMESTER 1978

Subject	Course No.	Grade	Credit Rating	Credits
GPA :	TOTALS			
Cum. GPA :	PREVIOUS TOTALS			
Standing :	GRAND TOTALS			

REMARKS

SIGNATURE OF REGISTRAR :

DATE 29 MAY 1981

Prepared by

Checked by

Hunt Institute for Botanical Documentation

FOR THE DEGREE OF MASTER

Sheet No. 2

Name of Student : .....
LAST : EDIGER
FIRST : Volkan

Faculty : Engineering Department : Geological Engin.

FIFTH YEAR

FALL SEMESTER 1978

Subject	Course No.	Grade	Credit Rating	Credits
Research and Thesis	GEO 591	-	-	-
GPA : -.--	TOTALS		-	-
Cum. GPA : 3.90	PREVIOUS TOTALS		60	234.0
Standing : satis.	GRAND TOTALS			

SPRING SEMESTER 1979

Subject	Course No.	Grade	Credit Rating	Credits
HE WAS GRANTED LEAVE OF ABSENCE.				
GPA :	TOTALS			
Cum. GPA :	PREVIOUS TOTALS			
Standing :	GRAND TOTALS			

FIFTH YEAR

FALL SEMESTER 1979

Subject	Course No.	Grade	Credit Rating	Credits
Research and Thesis	Geo 592	-	-	-
GPA : -.--	TOTALS		-	-
Cum. GPA : 3.90	PREVIOUS TOTALS			
Standing : satis.	GRAND TOTALS	60	234.0	

SPRING SEMESTER 1980

Subject	Course No.	Grade	Credit Rating	Credits
Res. and Thesis II	Geo 592	S	-	-
GPA : -.--	TOTALS		-	-
Cum. GPA : 3.90	PREVIOUS TOTALS		60	234.0
Standing : satis.	GRAND TOTALS		60	234.0

YEAR

FALL SEMESTER

Subject	Course No.	Grade	Credit Rating	Credits
GPA :	TOTALS			
Cum. GPA :	PREVIOUS TOTALS			
Standing :	GRAND TOTALS			

STUDENT COPY
NOT VALID FOR TRANSFER PURPOSES

SPRING SEMESTER

Subject	Course No.	Grade	Credit Rating	Credits
GPA :	TOTALS			
Cum. GPA :	PREVIOUS TOTALS			
Standing :	GRAND TOTALS			

REMARKS

SIGNATURE OF REGISTRAR :

DATE 29 MAY 1981

Prepared by

Checked by

Hunt Institute for Botanical Documentation

7 September, 1981

Mr. Volkan S. Ediger
Oruç Reis Cad. Imar-2 Bl., No. 5/8
Telsizler
Ankara, Turkey

Dear Volkan:

Just got back from XIII International Botanical Congress to find your letters of 20 and 23 August already here--what beautiful Turkish stamps!

Well, good, we all have a convenient date to plan on--and I can begin the various steps with an eye on about 1 September, 1982. I can now begin in earnest working on the job for Elçin, etc.

Betty and I are agreed that the best housing deal for you would be Graduate Circle--at least temporarily for the first term, while you consider other possibilities. We expect you'll want to stay with us for some days when you first arrive.

Re the GRE-TOEFL exams--under the present circumstances, there is no need to worry about them--just take them whenever they're available. There'll be no problem. As I've said before, I could get TOEFL waived for you, if you'd like to save the money. On the other hand, the super score you'll get will look very good. GRE you must take, and I'd review math for it, if I were you.

Your research project in Thrace seems good to me--unless, for example, Dr. (Mr.?) Okay has an idea re another biostratigraphic problem you could work on which would help both Turkey and Ediger more. Perhaps during the year you could let me have more details re the Thrace problem--once you're admitted, it might be a smart move for me to apply over here for funding to some foundation, or to NATO, that would pay for an assistantship for you and also might provide some other funds, for example, for travel for you and me to meetings, etc. But I'll have to wait until your admission is more or less a fact.

Thanks for the great pictures and your philosophical comments, which are very sensible. j Sorry about my handwriting. Best to the girls.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

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

August 23,1981

Dear Dr. Traverse:

I got your last letter dated July 30,1981 couple of hours ago. I sent mine of August 20,1981 two days ago, I think you will receive my two letters together.

As I have explained the reasons in detail in my last letter, I have decided to take GRE on December 12,1981 and TOEFL on November 21,1981.They will probably send the scores of GRE around January 28,1982, and of TOEFL around December 25,1981. I have also decided to apply for graduate study for fall term of 1982 which starts on September 1,1981. My family and I will probably be there in August,1982. I think this will be better for us.We will have enough time to get prepared.

I have completed all the forms which are necessary for the addmission both for graduate study and assistanship except GRE and TOEFL test scores. The Graduate Addmissions Office has written me that my application will not be processed until all the necessary items including test scores are receieved. However the Commity on Addmissions of your department hasn't written me such an obligation. I think I'd better apply for assistanship earlier. So,do you want me to send them now or wait for the test scores (January 28,1982)? Could you please write what I have to do as soon as possible.

Thank you very much for your deep concern about a job for Elçin. All the best to you and Betty, as ever.

Very truly yours,

Volkan Ş. Ediger

Hunt Institute for Botanical Documentation

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

August 20,1981

Dear Dr. Traverse:

Thank you so much for your letters dated June 29th,1981 and July 6th,1981, and for "the promised photo". I really had difficulty to read your handwriting. Although there are still some words which I couldn't read, I understood what you meant in general. I hope you don't face with the similar problems in understanding my letters.

I am sorry I couldn't write you immediately, because my family and I were in İstanbul for about twenty days(I took the rest of my annual vacation). I have also waited to solve the problems concerning tests and evaluation letters.

Elçin and I are both glad to hear that your health is completely alright now. We all were really lucky that you haven't got sick during your trip to Turkey.

I checked on all the possibilities for GRE and TOEFL test, unfortunately the Turkish-American Association is the only organization which has the authority to coordinate these tests in Turkey. There is no other possibilitiy to take these tests in Turkey.Besides this, the authorities of the Association told me that the application forms for GRE tests which will be given in 1981-1982 haven't arrived yet. So it is impossible for me to take the tests in October. Therefore,I have decided to apply for both tests which will be given on Late November and Early December. They are going to send the scores within two months. As you have written in your letter that there is no need to hurry up. I think so that it would be easier to wait until fall term of 1982 which is the normal time for entrance.So I will have enough time to get prepared and the summer is a good time to travel for Elçin and Şirin.

Prof. Erol Akyol from Aegean University, Dr.Turgay Ertekin from your university, Asst.Prof.Ayhan Erler from the Middle East Technical University and Mr.Erhan Dileköz Deputy Manager of the Exploration Laboratories of Turkish Petroleum Cor.(Because Mr.Hayrettin Okay will not be in Ankara for a while) have already filled out the evaluation letters for me. I am going to send them with the other forms to your department for assistanship soon.

Hunt Institute for Botanical Documentation

I got a letter from Dr.Elsik as an answer to my letter in which I asked whether he woulk like to fill out one of the evaluation letters for me. I think he talked to Dr.Fournier about me after he received my letter. He likes to fill it out for me but wants to know the details of my previous visit to Houston, and the relationship between Dr.Fournier and me. I sent a detailed letter to him and am waiting for his answer to send that letter to be filled out. He may contact to you on this subject.

I continue to search for the field area for my PhD. I think Thrace Basin is the best place regarding the points which you remarked in your letter. The only problem with the Thrace Basin is that cores are limited although about 200 wells were drilled. The outcrops are very good especially in the southern part of the basin. What about the field samples which will be taken systematically instead of well samples?

You know much about Turkey.I have never been in the eastern part of Turkey, but I have many friends from that part. I beleive most of what you have written about the Turkish Christians. My Christian friends told me very similar things about their life there. It is not easy for the people whose religions, languages and cultures are different, to live together without any problem. But there is one thing which is really interesting. Even 80% of the non-Moslem people live in İstanbul, there is absolutely no problem among them there. Because most of the Moslem and non-Moslem people who live in İstanbul and in the other big cities are educated people.The problem concerning the Kurdish people are very similar with that between Bask Nationalists and Spain, Ireland and Britan, white and black people in America and Africa, and Indians and American people in US. This problem never ends until the minorities have their own countries. As you know that this is practically impossible. So the best thing is to learn to live together friendly, although it is not easy.

I enclosed two photos from our trip to Capadocia. Both of you look great. It seems that you are not suffering from the appendicitis as yet.

Best wishes to you and Betty.Sorry again about this late answer.

Yours very truly,

Volkan Ş. Ediger

Hunt Institute for Botanical Documentation

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

Department of Geosciences
435 Deike Building

Area Code 814
865-2342

July 30, 1981

Mr. Volkan Ediger
Oruc Reis Cad.,
Imar-2 Bl., No. 5/8
Telsizler
Ankara, Turkey

Dear Volkan:

Finally back at my desk here. Betty is with her parents. Hence my files are in a mess. I know I answered yours of 30 June. I now have some comments based on consultations here: first, if somehow it is impossible to get admitted for Spring, 1982, there really is no point in starting in summer--might as well wait until Fall (ca. 1 Sept.). However, I find that if the TOEFL and GRE scores are in sometime in December I can get around the 1 Dec. deadline -- actually, I could probably get TOEFL waived altogether in your case because of your demonstrated fluency in Amerenglish. But it doesn't help because GRE test is later anyway, and your anticipated very high score on TOEFL will help with your admission.

Let me have your reaction to this as soon as possible, because if affects our job campaign for dear Elcin.

All the best, as ever.

Yours very truly,

Alfred Traverse
Professor of Palynology

cc: Graduate Admissions Committee

/jb

AN EQUAL OPPORTUNITY UNIVERSITY

Hunt Institute for Botanical Documentation

Prof.Alfred Traverse
c/o Dr.K.J.Hsü
Geologisches Institut,
E.T.H.-Zentrum,Sonnegg.5,
CH-8092 Zürich,Switzerland

sent 6-VII-81 no copy made

June 30th,1981

Dear Dr.Traverse:

Thanks for your letter dated June 20th,1981 and the photo you kindly sent me. Elçin and I are both happy to hear that you are getting well. We hope you are feeling better now and wish you a speady recovery.

I hope you received my letter of June 24th,1981. I recently got the necessary forms for graduate program from the Graduate Admission Office. They, like Coordinator of the Commity on Admissions of your faculty, have emphasized that the application wouldn't be processed until all of the items including all the completed forms, trancripts and scores of TOEFL and GRE were sent at least three months before the beginning of the prospective term. As I have written you in my previous letter that the earliest TOEFL and GRE are on October 3rd and 17th respectively. They send the scores at least two months after the examination dates.

check or PSO / can we write to you?

If I take both of the exams in October it will be impossible for me to send the completed forms before December 1st which is the dead line for Spring term. Therefore we won't be able to attend Spring term which begins on March 7th,1982 under normal circumstances. What about Summer term which begins on June 7th,1982?

When are you leaving Zürich for Australia and how long are you going to stay there?

With my best regards as ever.

Yours faithfully,

Volkan Ş. Ediger

Volkan Ş. Ediger
Oruç Reis Cad.,
İmar-2 Bl.,No.5/8,
Telsizler,Ankara,Turkey

Hunt Institute for Botanical Documentation

Dr.Alfred Traverse
C/O Dr.K.J. Hsü,
Geologisches Institut,
E.T.H.-Zentrum,Sonneggstrasse 5,
CH-8092 Zürich,Switzerland

June 24,1981

Dear Dr. Traverse:

Thanks for your letters dated June 4 and June 8,1981. Both Elçin and I got very sorry to hear that you got acute appendicitis and had surgery. We wish you a speady recovery and hope you are quite well again now.

I think you didn't receive my letter of June 14 about my study on fossil fungal spores when you were in USA. They sent me the first proof, I made the corrections and sent it back to them immediately. Unfortunately I was unable to add the generic author references of Alternaria and Tetraploa because I didn't have the time to wait for your letter. I hope I will have the opportunity to do that on the second proof. Anyway I corrected the most important part!

Dr. Graham, Coordinator of Geosiences Graduate Programs sent me the necessary forms for assistanship. But I haven't got the admission materials from the Graduate School yet. He requested me in his letter to take both the GRE and the TOEFL. I learned that the Turkish-American Association is giving these examinations in Turkey, and applied to them. But unfortunately the earliest GRE and TOEFL are in October. After I completed the "letters of evaluation" I am going to send the forms and other necessary documents to Dr. Graham and give information about GRE and TOEFL.

I wrote letters to Prof. Akyol, Dr.Elsik and Dr.Ertekin asking them whether they would like to fill the evaluation letters for me. I am also going to talk to Mr.Okay and Dr.Akıman, Head of the Department of Geology of the Middle East Technical University on the same subject.

I talked to Mr.Okay about the eventual thesis subject. There are some alternatives which I am investigating on. What do you think about the area of study, scope and purpose of study, and the age and type of rock to be studied? Which one would you like most: to study an area in Turkey, USA or some other country? What about the geologic mapping of that area?

As I have written to the Commity on Admissions of the Graduate School and your department, the earliest best time to go to State College for us is March,1981. If this will be possible I will have

Hunt Institute for Botanical Documentation

three more months after my military service has been completed. Then I probably continue to work for TPAO. What do you think about the time to go to Penn. State? Is Spring Term alright for you regarding your program and academic calendar?

You'd better go ahead with the job search for Elçin. As I told you before we need to find a job for Elçin related to her profession in order to be able to go to USA with all my family and stay there about two years. I mean most of the arrengements pertaining to our trip to USA largely depend on this job for Elçin. So we'll be appreciated if you can write the details of the possible job as soon as possible.

All the best to you.

Yours faithfully,

Volkan Ş. Ediger

Hunt Institute for Botanical Documentation

Prof. Alfred Traverse
Pennsylvania State Univ.,
Palynological Laboratories,
435 Deike Building,
University Park, PA 16802, USA.

June 14, 1981

Dear Dr. Traverse:

I hope you received my letter dated May 19th, 1981 and the copies of two letters which I sent to the Office of Graduate Admissions of the Penn. State University and the Commity on Admissions of your Department, asking for the necessary forms both for admission to the graduate program and assistanship.

I recently received a letter from Prof. Sweitzer, Editor of Palaeontographica as an answer to my letter which both you and I wrote when you were in Turkey. He also sent the proofs to be corrected. I made all the corrections on the proofs and sent it back to him. I also did not forget to emphasize that especially the corrections on the first page are the most important one for me. I don't see any reason for them not to correct the manuscript, because they didn't get the page-proofs (second proofs) yet. So, the problem on "fungal spores" seems to me completely solved.

All of us are doing well. I am looking forward to hearing from you soon.

Our best wishes to you and Dear Betty.

Yours very truly,

Volkan Ş. Ediger

Hunt Institute for Botanical Documentation

8 June, 1981

Mr. Volkan Ediger
Oruç Reis Cad. Imar-2 Bl., No. 5/8
Telsizler, Ankara, Turkey

Dear Volkan:

Yours of 19 May came today! I just checked with graduate office, and they received yours a week ago and have already responded. Oh well, just ignore mine of 4 June!

The question of whom to ask for recommendations is very important. Don't ask anybody of whose opinion you are the least bit doubtful. Although only three letters are required, it does no harm, indeed is helpful, to have more, providing they are as adulatory as possible. Professor Akyol would be ideal, if he could get it translated into English. Turgay Ertekin would also be excellent, if you are sure he has a super opinion of you (as he should!). Mr. Okay at TPAO would write a very good letter, fI am sure. Apparently Bill Elsik thinks highly of you, and that would look very good, too.

You will need to take the Graduate Record Examination ("GRE"), and should arrange it at the Technical University in Ankara. Perhaps you have already taken it. Usually they require an English proficiency test too of Turkish students, but that is obviously no problem in your case. Indeed, I doubt that the tests pose any difficulty for you except the difficulty of arranging them. In any event, PSU will make clear to you what is required.

Should we go ahead with a hetjob search for Elcin?

Don't apologize for the miscreant Turk. Nobody blames Turkey, as far as I know.

All the best.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et
P.S. The generic author references you needed for your paper:
Alternaria Nees ex Wallroth
Tetraploa Berkeley & Broome

Hunt Institute for Botanical Documentation

4 June, 1981

Mr. Volkan Ediger
Oruç Reis Cad. iImar-2 Bl., No. 5/8
Tşlsizler, Ankara, Turkey

Dear Volkan:

Got back here onnSunday, 17 May, about 10 p.m. The next day I got acute appendicitis, had surgery on 19 May. Then, later, an abscess under the incision. All in all, I have been in and out of the hospital for nearly three weeks. But, thank God, am now on the mend! God willing, I go back to Europe on 9 June.

Thought you'd enjoy the enclosures. I am still rapturous about wonderful Turkey!

Hope you ggotyour manuscript back for corrections.

Do let me know as soon as you're committed to coming here, so we can find Elçin a job. Also you must apply formally to our graduate program and compete for admission like any other prospective student. I anticipate no problem whatever in getting you accepted as a Ph.D. student, but the forms must be filled out. If you have not already done so, you should write to Ms. Linda Gruhn, Secretary for Graduate Admissions, Department of Geosciences, 503 Deike Building, University Park, PA 16802, requesting the necessary forms and information, mentioning that you have already been here and that you are in touch with me. You should also tell her in what term you plan to enroll, to give her an idea of the urgency of the application.

All the best to you, Elçin and Şirin.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et
encl.

Hunt Institute for Botanical Documentation

Oruç Reis Caddesi,
İmar-2 Bl.,No.5/8,
Telsizler,Ankara,Turkey.

May 20th,1981

Office of Graduate Admissions
201 Kern Building,
The Pennsylvania State University,
University Park, PA 16802, USA.

Dear Sir,

I would like to enroll in the doctoral program in the Department of Geology and Geophysics in your university. I intend, if my application is accepted, to start my studies early in 1982.

I am 28 years old and a graduate in geology of the Middle East Technical University in Ankara, Turkey. I have also completed master's degree in geology of the same university in june 1980. For three and a half years, from March 1977 to September 1980, I worked for the Turkish Petroleum Co. as a stratigraphic palynologist. Before joining this company, I was an assistant for one year in the Middle East Technical University.

I would also inform you that I mailed a similar request to the Commity on Admissions of the Department of Geology and Geophysics of your university.

I would be grateful to you if the necessary forms for admission to the graduate program in the Penn. State University are sent to my address shown above.

Yours faithfully,

Volkan Ş. Ediger
Palynologist

Hunt Institute for Botanical Documentation

Oruç Reis Caddesi,
İmar-2 Bl.,No.5/8,
Telsizler,Ankara,Turkey.

May 20th,1981

Commity on Admissions
Department of Geology and Geophysics,
Deike Building,
The Pennsylvania State University,
University Park, PA 16802, USA.

Dear Sir,

I would like to apply to the doctoral program in your department to study under the supervision of Dr. Alfred Traverse in the field of palynology. I intend, if my application is accepted, to start my studies early in 1982.

I am 28 years old and a graduate in geology of the Middle East Technical University in Ankara, Turkey. I have also completed master's degree in geology of the same university in June 1980. For three and a half years, from March 1977 to September 1980, I worked for the Turkish Petroleum Co. as a stratigraphic palynologist. Before joining this company, I was an assistant for one year in the Middle East Technical University.

I would also inform you that I mailed a similar request to the Office of Graduate Admissions of your university.

I would appreciate if the necessary forms for admission to the graduate program and assistanship are sent to my address shown above.

Yours faithfully,

Volkan Ş. Ediger
Palynologist

Hunt Institute for Botanical Documentation

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

May 19th,1981

Dear Dr. Traverse,

Thanks for your letter of May 9th,1981 and your nice statements for us. Elçin and I got very happy that you liked your trip to Turkey. We just tried you to have a good time when you were in Turkey, and did whatever we could. It was really a great pleasure for us to have both of you, and to travel and to chat with you during the trip.

It is also nice that you had a good time on your last day in İstanbul. Thanks to Dr. İ. Artüz for this and especially for his great contribution on " the mullet".

We, like all of the Turkish people, are very sorry for Pope John Paul II to be wounded by a stupid Turkish terrorist. In fact, he is an international terrorist. As you probably heard about him he has killed one of our most famous journalist, Mr. Abdi İpekçi about three years ago, and was sentenced to death penalty. Later he escaped from the prison. He has been living in Germany and married a German woman for nearly one year. Turkish government warned the German authorities many times but they did not want to do anything on this subject for some unknown reasons. Anyway, I am really very sorry and am willing that all the countries in the world unite to solve this international problem as soon as possible.

Please find enclosed the copies of the letters both to the Commity on Admissions of your faculty and the Office of Graduate Admissions asking for the application forms for admission and assistanship. If you would be kind enough to answer, I would like to ask some questions on this subject: Whom do you want me to contact for recommadation letters ? What about Dr. Turgay Ertekin who is Asst. Prof. in Petroleum Engineering of your faculty and a friend of mine from the Middle East Technical University, Prof. Erol Akyol, Prof. Eran Nakoman, Prof. Samime Artüz, Prof. İbrahim A.C. Okay, the Chairman or some other professors of the Department of Geology of M.E.T.U., the authorities of the T.P.A.O., like Mr. Hayrettin Okay, Dr. William Elsik, Prof.Gerhard O.W. Kremp and the President of the Geological Society of Turkey etc.

Hunt Institute for Botanical Documentation

Do you think that the Office of Graduate Admissions requests me to take the Graduate Recording Examination , TOEFL or some other examinations ? Are there some other points which you want me to keep in mind both for application and in general ?

I am going to write you about the thesis subjects, the possible contributions of T.P.A.O. to my Ph.D. study, and the best time for us to go to US very soon, probably in my next letter after I talk to Mr. H. Okay and the other people.

On behalf of all the members of T.C.P. I would like to convey my sincere thanks to you for your valuable lectures in İzmir and in Ankara.

Elçin and I send our best wishes to you and Dear Betty.

Yours very truly,

Volkan Ş. Ediger

Hunt Institute for Botanical Documentation

Pennsylvania State University
Palynological Laboratories
435 Deike Building
University Park, PA 16802 USA

9 May, 1981

Volkan-Elçin Ediger
Oruç Reis Cad. Imar-2 Bl., No. 5/8
Telsizler, Ankara, Turkey

Dear friends,

What marvellous hosts you were! We had such a great time, and you both did so much for us. We couldn't possibly tell you how grateful we are!

The trip home via Istanbul was more or less routine. We were a half-hour late to I. Ilham Artüz met us. We took photos of beautiful Istanbul from across the Bosporus. Then we had breakfast at Artüzes. Then to the old tower-complex built by the Conqueror in 1453 on the Bosporus, then to Ilham's laboratory, nearby. It was part of the Grand Vizier's palace complex pre-1920. (Ilham is a fish-expert and told us that kefal is mullet.) Then we drove on to the Black Sea, and back to Yedinköy (sp.?) for lunch and then to a beautiful park, full of tulips, for tea (what else?). It was an old pasha's place, restored and operated by the Turkish auto club. Very nice. Samime amused us by quite independently saying to Betty, "Let's go rate the toilet-room." They came back with a "5-star" rating. We all laughed. Then to the airport. I was able to change my remaining 2000 lira back to $20 US at the airport.

Well, thanks so very much for everything. Please write soon (to PSU, of course--we leave here 14 May) about your firm commitment to come to US, and I'll get started on the job-for-Elçinaand paper work (mountains of it!). Dr. Hochuli tells me that his dentist here in Zürich is a Turkish "Zahnartztin"--very good. It grieves me that US regulations are so sticky. But, even as an assistant, Elcin will make much more money in S.C. than in Ankara, nad if she works at it, will also learn a lot.

All the best to you both.

Fondest regards,

Alfred Traverse
Visiting Professor
and
Betty

P.S. We are continuing to enjoy the delicious Turkish paste--all three flavors are terrific!

Hunt Institute for Botanical Documentation

Prof.Alfred Traverse
c/o Dr.K.J.Hsü,
Geologisches Institut,
E.T.H.,Zentrum,
Sonneggstrasse 5,
CH-8092,Zürich,Switzerland

April 19,1981

Dear Dr. Traverse:

Thanks for your letter dated April 10th,1981.I hope you'll receive this letter before you leave.

Elçin, Şirin and I will be in İstanbul on Saturday morning. Şirin will stay with her grandmother and grandfather(Elçin's mother and father)for about a mounth, that is the reason why we are bringing her with us to İstanbul. Elçin and I will meet you at Yeşilköy Airport.I am going to call Prof. Artüz in İstanbul and talk to her the details. I think both Artüzes and we will be at Yeşilköy.

Everything is almost ready. I made the reservations and bought the airplane, bus and train tickets. I hope everything goes alright and we all have a good trip.

We usually have a good weather (sunny and warm) during this season in İstanbul.But as you know well from your previous trips to İstanbul , we may have a couple of rainy days during our trip.So you'd better bring your light overcoats or raincoats with you. You also have to think about any surprise of weather conditions.

Do not worry about the confusion in İstanbul. We still have most of them.

All the best to you and dear Betty.

Yours very truly,

Volkan Ş. Ediger
Palynologist

Hunt Institute for Botanical Documentation

10 April, 1981

Mr. Volkan Ediger
Oruç Reis Cad. Imar-2 Bl., No. 5/8
Telsizler, Ankara, Turkey

Dear Volkan:

In view of the hopeless mail situation, I suppose this might as well be my last effort to write you, pre-Istanbul! I have yours of 3 April, which clears up some things about which I wondered. I will plan to give my Black Sea talk twice. As I have previously said, that is pretty easy!--indeed, I gave a pretty good Black Sea lecture in Prague without any prior notice at all! (Fortunately, I had a few slides in my pocket!) So, not to worry!--I don't mind speaking at all, and could have done it also in Istanbul, if necessary.

We also look forward to seeing you--I gather that we will see both you and the Artüzes in Istanbul on 27 April, as Samime has also written that they will meet us.

As you probably know, there are about 50,000 Turks in Switzerland, so we read and hear a bit about T. in the papers here. I was a little distressed to read in yesterday's paper that the hordes of fish dealers and so forth in Istanbul had been greatly restricted--and it was said to look neater, but I suspect different from my recollection. (I loved the confusion in Istanbul.)

All the best.

Yours very truly,

Alfred Traverse
Visiting Professor

AT/et

Hunt Institute for Botanical Documentation

Prof. Alfred Traverse
c/o Dr. K.J. Hsü,
Geologisches Institut,
E.T.H.- Zentrum,
CH-8092 Zürich, Switzerland

April 3, 1981

Dear Dr. Traverse:

Both of your letters dated 17 March and 31 March, 1981 were there two hours ago. I was waiting them anxiously for about three weeks. I don't understand what is going on the way between Ankara and Zürich. I agree that my letter of March 23 was considerably late. However, it took a long time to talk to Prof. Akyol and Mr. Okay about your lectures in Izmir and in Ankara. At that time they were not in Ankara and we do not have the well-organized communication systems in Turkey. I finally was able to talk to both of them at the 36th Geological Conference of the Geological Society of Turkey which was held last month in Ankara.

I have to correct the misunderstanding in my last letter. You will speak on your Black Sea work at 1) the Aegean University in Izmir, and 2) TPAO in Ankara. Both of them will be in English so, it won't take much of your time to prepare. As you have stated in your letter of 17 March that it will be a vacation trip for Betty and you. The only reason for the lecture arrangements is that your lectures will really be helpful and a very good chance to meet you for the Turkish palynologists and some of the geologists. We usually don't have the distinguished palynologist like you in Turkey! Your statement of "If I speak in English, I could even give all three talks, one at each place" encouraged me to make the lecture organizations. I need to know whatever you think finally on the subject.

Hunt Institute for Botanical Documentation

I will keep in touch with Prof. Artüz on the details of the trip program. The final program will be shaped up very soon after I finished all the arrangements and reservations.

It was so good to add Tuesday to the program. It will help me too much. It will really be a very concentrated program, but I want you to visit all four places. You will get tried a little but I am sure that you will be very happy to visit beautiful Istanbul, Mary's house and Ephesus in Izmir, Capadocia and Ankara, the capital of Turkey.

Thanks for the abstract of your talk, it will make easy for me to translate your lecture. I have all the reprints of your papers on Black Sea, I'll also study on them.

See you on Monday, 27 April in Istanbul.

With all my best wishes.

Yours very truly,

Volkan S. Ediger
Palynologist

Hunt Institute for Botanical Documentation

31 March, 1981

Mr. Volkan Ediger
Oruç Reis Cad. Imar-2 Bl., No. 5/8
Telsizler, Ankara, Turkey

Dear Volkan:

Yours of 23 March was here this a.m. on our return from the annual meeting of the Arbeitskreis für Paläobotanik und Palynologie (in Strasbourg, France). By now you will have received mine of 17 March, in which we informed you of our arrival (27 April, 3:55 p.m.) and departure (5 May, 4:55 p.m.) dates from Istanbul.

From your letter, I deduce that I will speak on my Black Sea work at 1) the university in Izmir, and 2)36th Geological Conference of the Geological Society of Turkey in Ankara. I am slightly confused by your statement that I "will be able to speak at TPAO in Ankara". I assume that is the same as "36th Geological Conference", but in any case if I speak on the Black Sea work and in English, by now it goes more or less automatically, and it doesn't really matter if it's two or three times. I do keep adding the new things I discover and readjusting what I say to the audience. (I am studying Black Sea slides today!) For that reason, I hope you will realize that the enclosed summary is not binding--I may say it a bit differently at the time!

Best wishes as ever.

Yours very truly,

Alfred Traverse
Visiting Professor

AT/et
encl: abstract

Hunt Institute for Botanical Documentation

Alfred Traverse
c/o Dr.K.J. Hsü,
Geologisches Institut,
E.T.H.-Zentrum,
Sonneggstrasse 5,
CH- 8092, Zürich, Switzerland

March 23,1981

Dear Dr. Traverse:

I hope you have received my letter of March 3,1981.

I had a chance to talk to Prof. Akyol about the details of your trip to İzmir and the lecture at the 36th Geological Conference of the Geological Society of Turkey in Ankara. He and I agreed that Subject 1 (=Black Sea Neogene Studies) will be the best one regarding the popularity of it in Turkey.

I have also talk to Mr. Hayrettin Okay who is the General Director of the Turkish Petroleum Co.(=TPAO) Research Center, Ankara and the other authorities of TPAO whom they were waiting for your answer about the lecture in Ankara. They got very happy to hear that you will be able to speak at TPAO in Ankara. Black Sea Neogene Studies is the best one according to them too.

So, there will be only two lectures, in İzmir and in Ankara. You'd better speak in English at both of them because English is the most common foreign language among Turkish geologists. Both Prof. Akyol and Mr. Okay requested me to translate your lecture to Turkish since some people do not know English. So you'd better send the summary of your talk for me to prepare myself.

I'll write you later what kind of clothes you'll need in Turkey during your trip.

I am looking forward to hearing you very soon about the exact arrival and departure dates and times. All the best to you.

Yours very truly,

Volkan Ş. Ediger
Palynologist

Hunt Institute for Botanical Documentation

17 March, 1981

Mr. Volkan Ediger
Oruc Reis Cad. Imar-2 Bl., No. 5/8
Telsizler, Ankara, Turkey

Dear Volkan:

Yours of 3 March came late last week. The time required for an exchange of mail between us is "scary".

We will arrive on Monday, 27 April, in Istanbul, via Swissair, at 3:55 p.m. Samime Artüz has written that she will meet us and we will stay with her in Istanbul. Presumably you will be in touch with her. We will depart from Istanbul on Tuesday, 5 May at 4:55 p.m. That gives us one more day to work with!

It appears from a glance at a map that you may have to pare and cut some things a bit? I wish we could stay longer, but the Swiss government is paying me (a little) to work here, and I could not easily explain an absence of much more than a week.

Perhaps you should leave the lectures at just the one for Aegean Univ? It is supposed to be a vacation trip for Betty and me, and even the simplest lecture takes preparation, of course (and also probably one-half day of our precious time in Turkey). But I need to know, so that I can arrange the slides, etc., and I will do whatever you think would be really helpful.

All the best!

Yours very truly,

Alfred Traverse
Visiting Professor

AT/et
encl: copy of letter to S. Artüz

Hunt Institute for Botanical Documentation

Alfred Traverse
c/o Dr.K.J.Hsü
Geologisches Institut,
E.T.H.-Zentrum,
Sonneggstrasse 5,
CH-8092 Zürich,Switzerland

March 3,1981

Dear Dr. Traverse:

Thanks for your letter of February 25,1981. As far as I understand from your explanations about the fares, we have to got to stick to arrival on Monday, 27 April and departure on Monday,4 May. Although it won't be easy I'll try to make a trip programme from Monday to Monday. You may help me by buying tickets from Zürich to istanbul from the earliest flight and from İstanbul to Zürich from the latest flight. If you can do that we'll have more time for sight-seeing. So there is no problem on the dates. Your arrival will be to İstanbul on 27 April and departure will be from İstanbul on 4 May.

It was nice to hear that you would be happy to speak for Professors Akyol and Nakoman. I wrote a letter to Prof. Akyol about the subject and the date of the lecture. I'll write the results to you in my next letter. Final decision on the other lectures (İstanbul and Ankara) will also be included in it.

I got a letter from Prof.Samime Artüz about your trip. She says that she'll be happy to be visited by you. She likely wants to do whatever she can when we get to İstanbul.I'll contact her for the details soon. She probably wrote a letter to you too- I hope you got it.

I need the exact times of arrival to and departure from İstanbul. The program has almost been figured out.I'll write the more details of about everything in my next letters.

Yours very truly,

Volkan Ş. Ediger
Palynologist

Hunt Institute for Botanical Documentation

25 February, 1981

Mr. Volkan Ediger
Oruç Reis Cad. Imar-2 Bl., No. 5/8
Telsizler, Ankara, Turkey

Dear Volkan:

Thanks for yours of 19 February. First I should discuss the most critical matter in your letter--we have to start on a weekday because of the fares, and we must stay at least a week for the same reason--it makes a huge difference in the fare. In other words, I believe we have got to stick to arrival on Monday, 27 April and departure on Monday, 4 May. Hope you'll understand. (However, we could delay departure from Istanbul to Tuesday, 5 May. Would that help?). Incidentally, you understand that we will be arriving and departing from Istanbul, so our travels within Turkey (to Ankara, Cappadocia, etc.) must of course include a return to Istanbul.

Now for the other questions. Yes I'd be happy to speak for Professors Akyol and Nakoman, both of whom I "know" from the literature. I could talk easily on one of three following subjects (let me know soon which would be best):

1. Black Sea Neogene studies (enclosure)
2. Spores and spore-like palynomorphs from the earliest land plants of Pennsylvania
3. Current status and general results of the Penn State Triassic project.

I speak more fluently in English, of course, but I am quite understandable in German; as you can see from the enclosure I have prepared the Black Sea lecture in German. I'm not sure I understand what you have in mind for "conferences"in Istanbul and Ankara--do you mean give the lecture again? If I speak in English, I could even give all three talks, one at each place. If you want it in German, however, I'd prefer to give the same lecture each place.

Whatever you arrange re accommodations will be fine.

As to intra-Turkey travel, I would prefer train, but really must depend on your judgment. Night travel would be o.k., although we might need some compensatory rest the next day, unless you mean with sleeping berths. In sleepers on a train I sleep almost as well as at home. Let's avoid air travel--a. too expensive, b. don't see anything of Turkey.

That covers it. But I need to hear back right away about lecture subject(s) and date we should come back here (4 or 5 May).

Hunt Institute for Botanical Documentation

Best to you all.

Yours very truly,

Alfred Traverse
Visiting Professor

AT/et
encl

P.S. Sooner or later you should tell us whether we'll need warm clothes in Ankara. Istanbul I have already experienced in May (1975)--beautiful!

Hunt Institute for Botanical Documentation

Dr. Alfred Traverse
c/o Dr.K.J. Hsü,
Geologisches Institut,
E.T.H.-Zentrum,
Sonnaggstrasse, 5,
CH-8092 Zürich,Switzerland

February 19th,1981

Dear Dr. Traverse:

Thanks for your letter dated Feb. 10th,1981. I felt satisfied when I heard that you approved the draft trip progaramme.

I have written a letter to Prof. Samime Artüz, telling about the details and asked what may her contributions be for the programme. I am looking forward for her answer to schedule the İstanbul side of the programme.

I got a letter from Prof. Akyol about our trip to İzmir. He is eagerly looking forward to meeting you. He is trying to find out a place for accommodation at the facilities of the Aegean University or of some other organisations. So, I solved one of our problems for İzmir. He also requested me to ask you whether you would like to give a talk on any subject you would prefer at the University. He stated in his letter that both he and Prof. Nakoman who is an another professor of palynology at the same university would be very happy to hear you, if possible. Although they don't know what you'll think on the subject, they made a conference program including a coctail party after talk. They are waiting for your answer to fix the programme. What about to repeat the conferences at İstanbul and Ankara if they won't cause any problem for you. You are going to come here to relax and to go around,not to work.

I am trying to find out a good but not expensive hotel and a car for our trip to Capadocia. Whenever we determine the dates, I'll try to make the reservations. I am also looking for a friend who will take us to Capadocia with his car. Then we won't have to spend a night there. We will not face with any problem when we get to Ankara, simply because we are living there.

The dates of 27th April-4th May is also O.K. for me. But can you add 25th or at least 26th (saturday or sunday) of April to the programme ? If you'll able to do that, then I'll easily be able to complete the programme.

The other thing which I want to discuss with you is the transportation between İstanbul,İzmir and Ankara. Train is the most

Hunt Institute for Botanical Documentation

comfartable and the cheapest one, but it is too slow. Then bus and train come. Airplane takes the shortest time but it is relatively expensive. So which one do you prefer to travel by? Do you have any objections to travel at night by bus or train ?

I think now you may buy your airplane tickets. Do not forget that your arrival will be to Istanbul on 25th, 26th or 27th April and departure from Ankara on 4th May.

The other thing which I want to remind you that this is a draft programme and may easily be changed especially if you are going to travel in Turkey! Be prepared for everything not to be surprized later!

I am looking forward to hearing from you soon about all the details which is not clear yet ~~soon~~.

With all our best wishes to you and Betty.

Yours very truly

Volkan Ediger

Volkan Ş. Ediger
Geologist, Palynologist

Hunt Institute for Botanical Documentation

10 February, 1981

Mr. Volkan Ediger
Oruc Reis Cad. Imar-2 Bl., No. 5/8
Telsizler, Ankara, Turkey

Dear Volkan:

Yours of 3 February was so thoughtful and complete!

I never knew before of your interest in stamps--we should discuss it in Turkey!--perhaps we can exchange? I am sorry that my use of the "frank" here doesn't help your collection! It certainly helps our budget!

No, I have no time for recreation until March, when my course here (very hard work) and my lecture (in German) in Basel will be over.

Thanks for the encouragement re finances. The tickets to Istanbul will already be a big investment for us--it's further than I thought. It would be two full days and nights on the train--which is why we decided to fly via Swissair.

In Istanbul, I suppose we should stay with Samime Artüz? I fear she would be hurt if we don't? Have you contacted her? We won't do so independently, as there should only be one chief for a program!

Your preliminary schedule sounds very ambitious and all good--of course we recall Cappadocia and Efesus from postcards you've sent, as well as from Holy Scripture, of course. The houses cut out of tuff in Cappadocia were fascinating! I have nothing to add or request. I hope we have a little time to talk about palynological concerns!

Tentatively, we would plan to arrive in Istanbul via Swissair on Monday, 27 April and would contemplate returning to Zürich on Monday, 4 May. Is that o.k., or would you prefer a week earlier (20 April)? Since this earlier week is immediately after Easter, a great Christian holiday time, we might have more difficulty securing plane reservations, but would certainly be able to do it if we allowed enough time.

All the best to you all!

Yours very truly,

Alfred Traverse
Visiting Professor

AT/et
P.S. There is a Turkish consulate here in Zürich, so visas should be no problem.

Hunt Institute for Botanical Documentation

Prof.Alfred Traverse
Geologisches Institut,
E.T.H.- Zentrum,
Sonnegstrasse 5,
CH-8092 Zürich,Switzerland

February 3,1981

Dear Dr. Traverse:

Thanks for the letter of January 24,1981. I am glad that you liked the plant stamps. I am also trying to make stamp collection, but not only the plant stamps. I'll continue to send the plant stamps when new series have been emmissioned by the Postal Office of Turkey.

How nice for Betty to see your son in Germany! I hope you will have more time for sight-seeing and some more skiing. As far as I remember you like very much that type of sports.

Both Elçin and I got very happy to hear some more details about your visit to Turkey. We are trying to make organizations in order to balance the time-and-money costs.I think one week will be enough at least to visit some more important geological and historical places of Turkey.Also do not worry much about the money costs. First, Turkey is a cheap country especially if you are working a non-Turkish business. I mean if you are getting your salary in dollars, this means that your salary has a value of about a hundred times than its equivalent in Turkey. Second, we are living in Turkey and Turkish people love to be visited by their friends.Both Elçin's and my parents are living in İstanbul, and we have written them about your visit there.They very much willingly are looking forward to be visited by you. I have also written to Prof.Erol Akyol who is one of the oldest palynologist of Turkey from The Aegean University in İzmir asking for a place for one or two days at their Visitor's House. I am sure that he'll do his best on the subject.My draft program is as follows: Arriving on İstanbul, spending one or two days there to visit Dr.S.Artüz and some interesting places, and for sight-seeing. This part of program will be more interesting especially for Betty. Then spending one or two days in İzmir which is the third biggest city of Turkey.We may visit Efesus, Mary's birth place, Pamukkale Travertine, Bergama,Milet and some other places. If we are lucky we may even have some swimming there. Then visiting a very important geological and historical place: Capadocia which is at the middle part of Central Anatolia. There are many lovely geological features there, even more beautiful than Bryce Canyon in USA. Most of the oldest

Hunt Institute for Botanical Documentation

churchs are at that site.All of them have been built within volcanics which are mainly tüffs and tuffites.I am sure that you'll love that place.Finally visiting Ankara, spending one or two days with us at our home and some more sight-seeing, then departure from Ankara to USA.

This is only a draft,it may be changed wholly or partly. What doyou think about it ? İs there anything which you are willing to add to or subtract from the program?

See you in Turkey on the last week of April.

I am looking forward to hearing from you very soon.

Best wishes to you and Dear Betty.

Yours very truly,

Volkan Ş. Ediger

Hunt Institute for Botanical Documentation

24 January, 1981

Mr. Volkan Ediger
Oruç Reis Cad. Imar-2 Bl., No. 5/8
Telsizler, Ankara, Turkey

Dear Volkan:

Got yours of 18 January with the nice gift of beautiful Turkish plant stamps! Thank you so much.

I am working very hard here, primarily because my teaching is of a subject I just touch on in my course at PSU--Neogene palynology. By the way, my last two lectures have been largely about Benda's work in Anatolia!

There has been a little time for sight-seeing, but only a litt.e Betty went up to Würzburg, Germany, to visit our son, John, and to the Engadin area for some skiing. I have had my nose to the grind-stone mostly, but did get to Biel once and Basel once. I am working hard on my German--but it isn't as good as your English, for which you are always apologizing, unnecessarily.

Now, about a visit to Turkey: I do want to have such a visit, but am having trouble deciding when and how. One thought we've had is to rent a car and drive--that way we could stop in Vienna for a day or two and also perhaps in Sofia or Bucharest en route. But that may not be a practical possibility. (A very different thought is to visit Turkey next summer enroute to or from Australia--I go there in August. That, of course, would be without Betty. Note from the typist--Bah! humbug!) If we go while we're here and don't get a car, we are looking into the comparative costs by air and rail. It is quite a long way, of course. I would think we'll have to balance the time-and-money costs carefully, as we are very limited for each. Probably we'll fly to and from Istanbul (or Ankara) and use trains for the rest? More later. We would want to spend a couple of days in the Istanbul area--for Betty to see the sights (including Bosporus, etc.) as well as to visit Samime et al. Then, of course, we must visit Ankara and our dear friends, etc., Edigers! If it could be worked in to see also Ephesus and/or Smyrna or some other of the old cities on the Mediterranean that would be interesting too--but I don't think we can spend more than a week total on the trip (I am employed here and am not on vacation--further I fully intend to have a longer trip to Turkey some day!)

As to date--I would think in terms of the last week of April--how would that suit? Hope you aren't too confused. Best to dear Elçin and Şirin.

Yours very truly,

Alfred Traverse
Visiting Professor

AT/et

Hunt Institute for Botanical Documentation

January 18,1981

Dr.Alfred Traverse
c/o Dr.K.J. Hsü
Geologisches Institut,
E.T.H.-Zentrum,Sonneggstrasse 5,
CH-8092 Zürich,Switzerland

Dear Dr. Traverse:

Thanks for your letter of December 23,1980. I hope you and Betty had a good time at the Anglican Church there.By conducting the Christmas services there, you had chance to carry out at least some of your ecclesiastical duties there. Besides this, I am sure that your are doing your best on this subject wherever and whenever you are.

I am also happy that your work goes all right at the Geologisches Institut. I hope you have time to visit some of the historical and natural places of Zurich and the other cities of Switzerland.

My military service is going well. This gave me chance to make practice on my poor English. I am also working on palynology out of my work. Elçin and Şirin are also fine and willing to see you in Turkey as soon as possible.

I'll be appreciated to have your program of the trip including the details of your visit to Turkey. The places which you specially want to see and all your other desires of about anything are also needed. So, I will be able to make the organizations. I want to make a perfect program and are willing you to spend a very good time here as good as possible.

Please find enclosed a very late christmas gift for you from Ediger's.I am looking forward to hearing from you very soon.

Best wishes to you and Dear Betty from all of us.

Very truly yours,

Volkan Ş. Ediger
Palynologist

Hunt Institute for Botanical Documentation

file

23 December, 1980

Mr. Volkan Ediger
Oruc Reis Cad. Imar-2 Bl., No. 5/8
Telsizler, Ankara, Turkey

Dear Volkan:

We greatly appreciated your Christmas card. It will be a comparatively quiet one for us--first time since 1951 with no children present!

My work here goes all right--I am giving a course, which is taking more time than I contemplated.

I am going to conduct one of the Christmas services at the Anglican Church here. Otherwise my ecclesiastical duties have been minimal (more or less 0).

Happy New Year to you all.

Yours very truly,

Alfred Traverse
Professor (Visiting)

AT/et

Hunt Institute for Botanical Documentation

Nov. 50

Dear Dr. Traverse

I have received both of your letter and the postcard. We got very happy to hear that the visit to Turkey next spring can be happen. I'll discuss the details of the program later.

Welcome to Europe. Best wishes to you and dear Betty.

Yours truly
Volkan S. Ediger

Hunt Institute for Botanical Documentation

Dr. Alfred Traverse
The Penny State University,
Palynological Lab.,
University Park, Penn. 16802,
U.S.A.

October 12,1980

Dear Dr. Traverse,

Thanks for your letter of September 18,1980. Thanks also for the good news which you have written in your letter.
It is really marvelous that IUGS did take ICP in.Congradulations to all the members of ICP.
Another good news is about your trip to Europe.Elçin and I got very happy to hear that a trip to Turkey could be added to your list. I think April will be the best time to visit Turkey, especially İstanbul is very nice during April. We are liviny in Ankara and our parents are living in İstanbul, so it won't be difficult to organize the trips to the interesting places of Turkey's newest and the oldest cities. It is better to keep in touch about the details of this trip.
I think you have heard about the present status of Turkey during these days. There is nothing to worry about it. Turkey is now safer and easier to live than the older days.I hope it will last long.
I do not have muck time to solve the problems of TCP.The other members of the executive committee are trying to make organizations for the meeting.I'll write you whenever I hear anything about it.
We are very good and everything is going well here. Our best to you and dear Betty. Best wishes to Celia for her first year at the Penn. State.

Truly yours,

Volkan Ş. Ediger

Hunt Institute for Botanical Documentation

24 October, 1980

Mr. Volkan S. Ediger
Oruç Reis Cad. İmar-2 Bl.,
No. 5/8, Telsizler,
Ankara, Turkey

Dear Volkan:

Just a brief acknowledgment of yours of 12 October, which was awaiting my return from the latest AASP meeting in Colorado. Ronald Litwin and I also did a couple of weeks' research in the field for his doctoral dissertation and associated matters--in Arizona, Utah, Colorado, and New Mexico.

Let's hope that the visit to Turkey next spring per your suggestion can happen. I really pray that it can, as both Betty and I are fond of Turkey because of our good friends there, if for no other reason! We leave for Switzerland in about three weeks: c/o Dr. K. J. Hsü
Geologisches Institut
E.T.H.
Sonneggstrasse 5
CH-8092 Zürich, Switzerland

Best wishes to you, Elcin and Sirin.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

18 September, 1980

Mr. Volkan S. Ediger
Oruç Reis Cad. İmar-2 Bl.,
No. 5/8, Telsizler,
Ankara, Turkey

Dear Volkan:

Yours of 15 August came in about a week, but I have been very pre-occupied since.

IUGS did take ICP in--very good news indeed!

The question of your military service is distressing, but I suppose it can't be helped. It's only that I do long for a world in which we could abandon that form of activity altogether.

We also worry about the state of affairs in Turkey generally and hope our dear friends are all o.k.

Alongside of such concerns, ICP, TCP, and related matters seem trivial. I think your idea of a palynological session as part of the Geol. Soc. Turkey session is very sound--considering your small numbers and other matters, and I do hope you can go ahead with that!

Apparently we will arrive in Zürich on 20 November and stay about six months. We are hoping to visit palynological friends in Hungary, Yugoslavia, Romania and Bulgaria, and I would imagine the best approach would be to make that one tour, in about March or April. If the situation permits, Istanbul and Ankara could be added to that list. Let's keep in touch about it.

I loved the plant stamps. Was a birthday present (7-IX-80)!

We all hope that having you here for your Ph.D., per our discussions, can be accomplished. You have at least one term of residence already accomplished!

We are all well. Celia is now a freshman at Penn State. "Time marches on." Our best to Elçin and Şirin!

Cordially,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

Dr. Alfred Traverse
The Penn. State Univ.,
Palynological Lab.,
435 Deike Building,
University Park, Penn. 16802
U.S.A.

August 15, 1980

Dear Dr. Traverse,

Thanks for your letter of July 25, 1980. I am glad to know that 5th ICP Conference was succesful and your trip to Cambridge was nice. I also hope that the affiliation of ICP with IUGS was accepted at the International Conference of IUGS in Paris.

Finally I have decided to solve the problem of my military service. I am going to join the army at the end of this month. I think it will end after one or one and a half year. During this period I will probably be in Ankara and try to organise the palynological meeting of T.C.P. But, unfortunately it is not going well. We are very few and time is getting shorter. It is not decided now, but I think it will be better to organise a palynological session as a part of 35. Congress of the Geological Society of Turkey instead of an independent meeting. I will let you know whenever someting come out.

I will be happy to know your plans for the subbatical in Switzerland whenever it is definite. We are still waiting for you to Ankara even if first palynological meeting of TCP could not be done.

Please find enclosed the available plant postage stamps. I will keep for you such things from now on. Hope to study with you after my military service very much. I am looking forward to hearing you soon.

Yours truly,

Volkan Ş. Ediger

Please use this address for a while:
Oruç Reis Cad. İmar-2 Bl.,
No.5/8, Telsizler,
Ankara, TURKEY

Hunt Institute for Botanical Documentation

25 July, 1980

Mr. Volkan S. Ediger, Palynologist
Türkiye Petrolleri A.O.
Arastirma Merkezi
Palinoloji Lab.
Ankara, Turkey

Dear Volkan:

Thank you so much for yours of 5 May. I am glad to know that you are helping out with the problem of getting "enough countries" to recommend the affiliation of ICP with IUGS.

I agree it's too bad you can't make it to Cambridge. However, you are still young and have many international palynological conferences ahead of you!

Our plans for the sabbatical in Switzerland are still indefinite, but I would think that it might indeed be possible to include TCP's first meeting in the plan, if it is to be in March of 1981. That's well into the time that we would be i n Switzerland if we actually go, but not before we have to come home.

Glad to hear that Elçin and Şirin are doing well. We're looking forward to seeing them one of these years!

Thank you so much also for the beautiful plant postage stamps. I guess you know that I collect such things especially. Is it part of a set? If so, I would like it if you got the rest of it and kept track of how much it costs so that I can get them from you and pay you when we visit Turkey. Best wishes as always.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

22 April, 1980

Mr. Volkan S. Ediger
Turkish Petroleum Co. Research Center
Arastirma Merkezi
Palinoloji Lab.
Ankara, Turkey

Dear Volkan:

Glad to hear of your activity on behalf of ICP. I hope your advocacy of the ICP cause with Dr. Altinli will result in a Turkish representative voting pro-ICP at the IUGS Council meeting, so we'll get the required 12 countries to support us!

I am delighted to learn that you're the new TCP president. Congratulations!

Too bad you can't make it to Cambridge. I believe Samime will be there for Turkish palynology.

After 5IPC, we (Betty and I) are planning to go on one of the field trips to Scotland, then home. We go to Switzerland in November for a six-month sabbatical leave. Perhaps in the spring of '81 we can visit Turkey before returning home--maybe I could get to the inaugural Turkish palynological conference? I simply loved what little I saw of Turkey and can't wait to get back!

It seems dreadful that military service is still a factor for you at your present state of personal and professional development, but I gather that nothing can be done.

Best to Elcin and dear little Sirin.

Yours affectionately,

Alfred Traverse
Professor of Palynology
President, ICP

AT/et
cc: Norris, Caratini

Hunt Institute for Botanical Documentation

22 February, 1980

Mr. Volkan S. Ediger
Türkiye Petrolleri A.O.
Arastirma Merkezi
Palinoloji Lab.
Ankara, Turkey

Dear Volkan:

Yours of 31 January came last week, with the great photos of the baby. We are delighted to be "Uncle Alfred" and "Aunt Betty" to such a neat little girl! (We think she looks like her father.)

We have decided to accept a sabbatical leave, and will be in Switzerland Nov.,1980 - April, 1981, or thereabouts.

A year has gone by since you were here for "423". You know how preoccupied I am in Winter Term. Unfortunately, I was supposed to do some work for Samime which has been lying undone since October--couldn't help it. She's probably mad at me. Now I can finally do it as soon as all exams are graded, etc.

All the best to Elçin and Şirin. Thanks for the photos.

Warmest regards,

Alfred Traverse
Professor of Palynology

and

Elizabeth I. Traverse
Assistant in Palynology

AT/et

Hunt Institute for Botanical Documentation

26 November, 1979

Mr. Volkan Ediger, Palynologist
Türkiye Petrolleri A.O.
Arastirma Merkezi
Palinoloji Lab.
Ankara, Turkey

Dear Volkan:

Thanks for your (as usual) very nice letter of 14 November. By now you probably have already had my note of 12 November, requesting just <u>one</u> additional piece of information re TCP--who is to be the representative on ICP Council? We must have that information in order to complete TCP's application. I hope you can let me know soon.

All the best to you, Elçin and the baby from us both. We are glad you finally received our little gift.

Yours very truly,

Alfred Traverse
Professor of Palynology
President, ICP

AT/et

Hunt Institute for Botanical Documentation

November 14, 1979

Dear Dr. Traverse,

I have received the copies of both the lecture and laboratory notes of the course of Introduction to Palynology three days ago. what a great chance!. Your small parcel which you have sent back to Turkey with Dr. Artüz arrived me yesterday. Both Elçin and I appreciate to you and dear Betty for your helps on the subject of my lost notes and your pretty gift for our little baby. Although my own notes were lost, the xerox copies of the hand outs will be very helpfull for my studies.

Dr. Artüz sent also a letter to me with your parcel. She is very pleased to know both of you, to have a chance to study with you and your great helps to her during her trip to Penn. State. I also want to thank to you and Betty for your helps to Dr. Artüz.

Dr. Artüz has also written me that you have read my letter about the affiliation of the Turkish Committee for Palynology (TCP) with ICP together with her. If you request more than I have written to you in the letter please write me.

Hunt Institute for Botanical Documentation

Finally I had a chance to talk to Mrs. Sina Orak from Mining Research and Exploration Institute of Turkey. Unfortunately she couldn't help me because there is practically no study on the jet (=Gagat) Deposits in Turkey. I am very sorry about this subject. If you think there is anything which I can do, please write me. Presently I am looking for other people who know something about the jet Deposits in Turkey.

Our little daughter is growing very fast in every day. It is really very nice to have a baby at home. Both Elçin and baby are perfectly healty.

Thanks again for your helps and your gift. Elçin and I send our best wishes to you and Betty.

Yours truly,

Volkan S. Edizer

Hunt Institute for Botanical Documentation

September 13, 1979

Dr. Alfred Traverse
Professor of Palynology,
The Penn. State University,
Palynological Laboratories,
435 Deike Building,
University Park, Penn. 16802

Dear Dr. Traverse,

I have received your letter of August 13, 1979 about a week ago. I am sorry I couldn't write you immediately, because Elçin was in hospital last week. I also spent all the week by going around the hospital.

Finally, we had a daughter on September 3. Both Elçin and the baby is perfectly healty. She is so pretty that we named her " Şirin" which means cute in English. Both are at home now, and we are trying to get use to the new human being .

I am appreciated to you and to Betty for your great help about my lost notes. My thanks are also due to Norrie for the bonus. I didn't receive it yet. I hope they'll arrive to Turkey this time.

As I mentioned in the previous letters, I was trying to contact with the Turkish palynologists to be able to establish the palynological committee. Finally, I menaged to establish the Turkish Committee for Palynology as a section of the Geological Society of Turkey. All the members of the T.C.P. are willing to affiliate with I.C.P. I hope what happened to the Taiwanian palynologists won't happen to the Turkish palynologists I am sure that you are going to do whatever you can.

I tried to give enough information about T.C.P. and the Executive Committee. If you need more information please write to me.

Best regards to dear Betty.

Yours very truly,

Volkan S. Ediger
Palynologist

Hunt Institute for Botanical Documentation

xxxxx

13 August, 1979

Mr. Volkan Ediger, Palynologist
Turkish Petroleum Co. Research Center
Müdafaa Caddesi No. 22
Arastirma Merkezi
Palinoloji Lab., Bakanliklar
Ankara, Turkey

Dear Volkan:

Yours of 2 August just arrived. It a great pity about your notes, and there is no substitute for them. However, Betty is sending you (under separate cover) a more or less complete set of handouts, including all lab handouts.

As a bonus, Norrie Robbins promises to send you a xerox copy of her lecture and lab-lecture notes!

The lady who has been sharing the SEM with me, (Ozden Yaykin), is from Turkey, and one of the grad students in Geology (Ibrahim Çemen) came up the other day to say that Samime Artüz, who arrives soon, was his professor in Istanbul! The Turkish influence keeps up!

All the best to you and Elcin.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

August 14, 1979

Dear Dr. Traverse,

Thank you very much for the letter of 30 July. My thanks are also due to your interest about my lost box.

I thought I wrote the details of the subject in my last letter. But I think I couldn't manage it.

None of the lab notes made it and there is no chance I still might be successful in tracing the box. Because I have tried all whatever I can do.

I am sorry that you are spending your valuable time for the notes business.

Thank you for your helps.

Best Regards to Betty.

Volkan S. Ediger

Hunt Institute for Botanical Documentation

2 August, 1979

Dear Dr. Traverse,

Thanks for your letter of July 16 and the interest about my "materials not arrived".

Unfortunately all my personal notes and the handouts about "Introduction to Palynology" were in the lost packet. I can't understand what was happened to it. I had posted five packets at the same time. I have received four of them but the most important one didn't arrive. I should have taken them with me on the flight home. But all my suitcases were full of things.

Thanks again for your helps about the lost materials.

Elçin is getting fatter and fatter every day. I think she won't be able to wait more than one month.

Elçin and I send our best regards to you and your family.

Yours very truly,

Orhaniser

Volkan S. Ediger

Hunt Institute for Botanical Documentation

July 18, 1979

Dear Dr. Traverse,

I have received both of your last letters. Thank you very much for the pictures with famous Baklava and the informations about the Lycopodium pills.

I had sent two letters to the Dean of the College about my stay in State College and a letter to you about 25 days ago. I think you received them.

All is going well here. We hope the same both to you and your family.

Elsin is perfectly allright.

Yours very truly,

Volkan S. Ediger

Palynologist

Hunt Institute for Botanical Documentation

xxxxx

16 July, 1979

Mr. Volkan S. Ediger, Palynologist
Türkiye Petrolleri A.O.
Arastirma Merkezi
Palinoloji Lab
Bakanliklar-Ankara, Turkey

Dear Volkan:

We opened your good letter of 29 June with considerable excitement--thought it might contain news about your "family"! Instead, "doggone it", some bad news--re the non-arrival of your notes. Sending you a set of "handouts" will not replace your own notes--we both recall that you took plenty of them! What a tragedy.

We wonder whether you got your laboratory notes or whether they were included in your "materials not arrived" along with lecture notes. Please let us know about this, and we'll then send the packet of sheets, providing yours have not arrived in the meantime. Did you try a "tracer"? Were they insured? What a pity you didn't take them with you on the flight home!

Glad you agree re publication of the Devonian stuff--a more comprehensive job should be done.

Thanks for getting the letter to Dean Hosler. That helps us with our program. Thanks also for the papers about Istanbul and Konya. I can't wait to get back to Turkey! Thanks also for the Rosa damascena stamps. I have quite a collection of plant stamps.

Best regards to dear Elcin.

Yours very cordially,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

June 29, 1979

Dear Dr. Traverse,

Thank you very much for your letter of 30 May, and all the nice words.

I think you are right on the subject of the Devonian staff. I knew that it wouldn't be nice to write a paper just by studing only one sample. But I wanted to publish my work on Devonian, because there is no publication on that age which was published in Turkish. On the other hand, I always agree that especially the first publications on the new subjects must be perfect. I want to thank you for the nice statements that were said for my great ability!

The second important thing is the letter to the Dean of the college. I really don't recall whether you put the notion of the subject in my head or not. And I didn't think it would be useful for the Palynological Laboratories to send a nice letter to the Dean. I think the reason is the difference between the bureaucratic system of the countries where we live in. Anyway, I talked to my boss about the subject in a proper way and sent a very nice letter which was written by him officially about my stay at Penn. State and the contribution to it of you and the Palynological

Hunt Institute for Botanical Documentation

Hunt Institute for Botanical Documentation

Laboratories to the Dean. I have also sent another letter which was written by me, to the Dean on the same subject. Thank you very much for reminding me of the letter business.

I have tried to get in touch with Mrs. Sina Orali regarding yet. two or three times. She was on vacation, so I couldn't talked to her. Mrs. Orali is going to call me when she got back to work.

I wrote letters to Prof. A.C. Ibrahim Okay whom we talked about at Penn. State, and to Dr. Samime Artiz who is the student of Prof. Okay. I mentioned to Prof. Okay about our conversation on his nationality. What a shame to me, he is a real Turk! He is retired from the University of istanbul now. I told him all the story about the Association of Turkish Palynologists. He is willing to do whatever he can on this subject. Dr. Artiz has sent me a letter telling about her trip to USA. I think she is going to work with you in this year. She was asking for the detailed informations about Penn. State.

The last thing which made me crazy is about my packages of books which I have sent to Turkey from State College. Unfortunately, I didn't receive the one which is the most important one for me. Because all my lecture notes were in it. I think it is lost somewhere in between USA and Turkey. So I will really be appreciated if you can send the extra copies

of the sheets which you distributed us in the lectures. It will be extremely useful for me, although my own notes were lost.

I also would like to thank you for your interest considering my graduate work. I really want to work on my Ph.D. thesis with you. As I have written to you previously I have some jobs to do in Turkey. When the time comes I'll be very happy and I am sure that you are going to do whatever you can.

I am sending a small paper about Istanbul. You may remember some of your nice memories, like the horses on the streets!

I am looking forward hearing from you very soon. Elçin and I send our best wishes to you and Betty and your daughter.

Yours very truly,

Volkan S. Ediger
Palynologist

P.S. Please tell Norrie that I have sent another letter to Penn. State for her.

Hunt Institute for Botanical Documentation

xxxxxxx

9 July, 1979

Mr. Volkan S. Ediger, Palynologist
Türkiye Petrolleri A.O.
Arastirma Merkezi
Palinoloji Lab.
Ankara, Turkey

Dear Volkan:

Unfinished business (I think)--the supplier for the Lycopodium pills is:

Dr. Jens Stockmarr
Geological Survey of Denmark
Thoraves 31
DK-2400, Copenhagen NV, Denmark

(cost, approx. US $20/1000)

All is going well here. Hope the same for you and Elcin.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

XXXXXX

18 June, 1979

Mr. Volkan S. Ediger
Turkish Petroleum Co. Research Center
Turkiye Petrolleri A.O.
Arastirma Merkezi
Palinoloji Lab.
Ankara, Turkey

Dear Volkan:

Enclosed are a copyle of pictures from your visit here, sent with love and fond memories. All the best to you and Elcin.

Yours faithfully,

Alfred Traverse
Professor of Palynology

and

Betty

AT/et
encl: 2 photos

Hunt Institute for Botanical Documentation

XXXX

30 May, 1979

Mr. Volkan S. Ediger
Turkish Petroleum Co. Research Center
Arastirma Merkezi
Palinoloji Lab.
Ankara, Turkey

Dear Volkan:

Thank you very much for yours of 9 May and all the interesting news. I

I shall look forward to hearing from Mr. Orab(sp?) regarding jet. Perhaps he and I could correspond. I still would like to do some more work on that substance one of these days.

Good news about the proposed "ATP". We will be glad to have you aboard when the time comes.

Congratulations to Elgin regarding her job as a periodontologist. I had heard rumors from others about Elcin's "condition", and Betty and I of course are delighted by the news. It will be a very lucky child when it arrives.

When the time comes for your to consider graduate work we can correspond more about it. As I told you when you were here, I see no reason why you could not accomplish what Norrie Robbins is doing by spending the best part of one year here at Penn State. Even if Elgin could not come you would only be away from home a few months consecutively, providing that you could afford one trip home, say in the middle of the year. On the other hand, it would be much nicer from all points of view if it could be arranged for Elgin to be with you!

I have no objection in principle to your publishing your term paper here on the Upper Devonian sample S-34. However, I would not want you to be associated with a publication that is not really worthy of your great ability. Virginia Mutti, whom you will remember, has decided to go on with the Devonian story in central Pennsylvania from the point where many previous students have left it, and she took my advanced course,"526", during the Spring Term. I am enclosing a xerox copy of her provisional report on that work. As you can see she has so far studied something like 15 samples of which S-34 is only one. It would seem to me more appropriate to get out a paper one of these days which would encompass S-34 as well as many other

Hunt Institute for Botanical Documentation

controls which we can arrange between the Chemung and the Pocono. Ginny and I were in the field yesterday to collect a further set of Chemung equivalent, Hamilton group, and Pocono for comparison with the Port Matilda section on which you worked. We collected in the Huntingdon area where she and I live, about 30 miles from Port Matilda. In other words, it is not that I am trying in any sense to "sit on" these data, but that I think that it would not be a good paper based only on the one sample. I will mention your request to Ginny, and perhaps the correct approach will be to include you in joint authorship if we ever do get the whole thing ready, as planned.

I can't imagine why you didn't get an answer from Norrie. She is pretty good about correspondence. Why not address here in care of the Geology Department here?

I did indeed get the final report about your trip to the USA. I have read it and am grateful for the nice things that are said. I don't recall whether I put the notion in your head or not, but it would be extremely useful if you and/or your boss sent some kind of a nice statement about your stay at Penn State and the contribution to it of the palynological laboratories to the Dean of this college, Dr. C. L. Hosler (Dean, College of Earth & Mineral Sciences, 116 Deike Building, University Park, PA 16802).

The cards from Cappadocia were most welcome additions to our collection and have already found places on the refrigerator! Cappadocia is quite heavily mentioned in some parts of the Bible. Very best regards to Elcin, and please tell her how happy we are with her good news.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Hunt Institute for Botanical Documentation

Hunt Institute for Botanical Documentation

May 9, 1979

Dear Dr. Traverse,

I have received your nice letter of April 23 with the recipe for glycerin jelly and the xerox about the Lycopodium pills. Thank you very much for all of them.

I called Mr. Sina Arali who studied on the jet deposits in Turkey. He is trying to find out all the informations. I am going to send the details and the copies of the publications about the jet deposits of Turkey as soon as possible.

I have written a letter to each Turkish palynologist asking what they think about the "Association of Turkish Palynologists" and ICP. I am trying to establish an organization and I am going to apply ICP for membership of our organization for ICP. I think it ~~should~~ does not take too much time.

Elçin started to work for a hospital for children. She became a periodontologist. We are very happy that we could find a job for her in a child hospital. She is waiting baby ~~for~~ and she can easily take care of her in that hospital.

I have given a talk about general palynology at TPAO and I am going give

another one at one of the Universities in Adana next week. Turkish geologists began to understand the importance of palynology at last.

I made a telephone conversation with a gentleman from the scientific committe which was established in order to solve the archeological problems of Turkey. He has proposed me to study on the spores and pollen grains.

I have also had a chance to talk to Dr. Graham Evans who collected some samples from Mediterranean sea. He is wiling to send his samples for palynological analysis. I want to study on the samples in the same way as you did for Black Sea (Steppe index, etc.). My work on the well Abalar-1 which is from Trace Basin is continuing. I am also going to study on the salty deposits from the central part of Anotalia in the future. As you see I am very busy and there are lots of things to study on in Turkey.

Thanks a lot for your interest about my graduate studies in Penn. State. I really want to study with you very much. I am going to write you whenever I am ready for PhD.

I want to publish my studies on Dr. Stolar's Upper Devonian sample in one of the Turkish bulletins if you let me do that. There is no publication about Devonian palynology in Turkish. I'll be happy to have the location map and some other informations

Hunt Institute for Botanical Documentation

about Stolar's sample No. 34, if you and Dr. Stolar don't mind. It will be very useful for Turkish Palynologists.

I have also sent a letter to Norrie (to her work address). I couldn't receive the answer from her. Is she still there?

My boss sent you my final report about my trip to USA. I hope you have received it.

My english is not enough to express my feelings about our ~~real~~ friendship, we also look forward to more news and a lifetime of friendship.

With all our best wishes to you and Betty.

Yours sincerely,

Volkan S. Ediger

Enclosures: Two cards from Cappadocia.

Hunt Institute for Botanical Documentation

23 April, 1979

Mr. Volkan S. Ediger
Türkiye Petrolleri A.O.
Arastirma Merkezi
Palinoloji Lab.
Ankara, Turkey

Dear Volkan:

It is hard to believe that you have been gone over two months!--and that your nice letter of 19 March has been in my brief case for a month!

Where to begin in answering?--perhaps by saying that you were really too kind in all your nice comments about your stay here. Betty and I enjoyed you and Elcin so much that we only wish we could have done more!

The cards of Istanbul and Ephesus are all posted--the one (from Topkapi?) of Istanbul, the Golden Horn and the Sea of Marmara is on the refrigerator, and the religious ones are posted at the church on the bulletin board you helped deliver! Thanks very much.

Betty and I are so happy that you and Elcin approved of us. We think we've got a pretty good thing going too! Not that we never have a disagreement--that would be boring. And I should add that not everybody likes us. I would also like to say that we learned much from the two of you--not just the use of a candle for single-grain mounts and how to make Börek (ours came out fine. Man, that's marvellous stuff!).

We hope that the future will hold a trip to Turkey for us. I really love Turkey and want to see much more of it. The Bosporus alone is worth a trip around the world. Naturally, a chance to visit Volkan and Elcin is an additional attraction!

Now, re your graduate studies--you certainly could do what Norrie Robbins is doing--spend one year here to complete the residence requirement, and fulfill the other "Mickey Mouse" requirements, viz. the candidacy and comprehensive exams, and the language requirements. (I would want you to learn Russian. Technically, English and Turkish would get you past the board, but you need Russian.) The thesis (on Thracian Basin?) could be completed in Turkey with perhaps one extended conference for which I'd want to go to Turkey to see your field area, slides, etc., and perhaps one additional conference (here or there) to work on the actual thesis.

Hunt Institute for Botanical Documentation

The "recipe" for glycerin jelly is enclosed. It is best to make it up in small jars to be refrigerated until needed, as it does not keep very long in the oven (at 50°C) once melted.

Re Lycopodium "pills"--I enclose a xerox of the original description of the method from Pollen et Spores. I got my small supply from Geoff Norris, but I am on the trail of the commercial source and will let you know as soon as I hear.

I look forward to whatever you can discover about gagat (=jet=azabache)--where is it now mined (or gathered?) in Turkey? Is it easy to collect in the field (perhaps we could visit when I get to Turkey?)? What sorts of Turkish literature not known in "the West" might there be about the stuff? How about the "classical" locality?

All the best to you both, dear friends! We look forward to more news and a lifetime of friendship.

Cordially yours,

Alfred Traverse
Professor of Palynology

AT/et
enclosures: xerox reprint re "pills", recipe for glycerin jelly

Hunt Institute for Botanical Documentation

March 19, 1979

Dear Dr. Traverse,

When I got to work in Ankara three days ago, your letter was waiting for me on my table. I didn't expect a letter from you so early. It made me surprized, then happy especially when I read the result of the exam.

I don't know how I am going to thank to you and Betty for all your helps and your interest. You were really so kind to accept me as a student and to try to help me iin many ways by using your valuable time. Our trip to state College was very useful for us. We have learned so many thing from you both palynologically and philosophically. You have changed all our impressions about Americans and US. You and Betty is the best couple we have ever met whole our life. We have learned lots of thing from the relationship between you and Betty.

We have seen many interesting things after we leaved state College. We have stayed two days in New York. Amsterdam was the next stop in Europe. We have spent two days there, but still couldn't discover the whole city. Finally, we have arrived to istanbul twenty days ago. As we told you before, all our parents and relatives are living in Istanbul.

Hunt Institute for Botanical Documentation

So we have spent nearly two weeks there to see some of them. We have shown our pictures and the slides to the parents and the friends, and gave some informations about us and our best friends.

It is impossible for us to forget the State College, and especially you and Betty. We are looking forward to see you again, especially in Turkey. I am sure that we won't be able to be the host as good as you. I am going to try to arrange all the possibilities to take my PhD degree near you in State College. If I can do that I'll be the happiest man in the world. I am going to write you the details in the coming future, on this subject.

I didn't have time to find out some informations about "Gagat". I'll write about it as soon as possible.

Elçin is looking for a better receipe for Turkish cooks to send to Betty. She is also happy to learn the result of Börek!

If you can write me how to prepare the "Glyserin gelly", I'll be very happy. I am also looking forward to hear some informations about "Lycopodium pells".

I am sending some views from Turkey, especially the ones which are important for you. I am going send the others later.

We are looking forward to hear from you. Miss you very much. Best wishes.

Love,

Elçin-Volkan Ediger

Hunt Institute for Botanical Documentation

Geosc(Biol) 423
Final Examination
22 February, 1979

Name Volkan S. Edizer

Soc. Sec.# ✓

+4 | 69/152

Super job! Highest by far!

1. (50 pts.) For slides provided, give the age and suggested environmental circumstances (environment of deposition and/or paleoecology).

Slide #	Age	Environmental Suggestions
1	(Upper) Triassic +1 Carnian	Continental environment, Gymnosperms are dominant. Near a gymnospermous forest.
8	Upper Cretaceous? Lower Paleocene (Normapolles)	Continental ole Similar environment as 12.
12	Upper Paleocene +1 Lower Eocene	Continental Swamp-like environments. There are lots of spores of Schizaceae (Anemia) fern. besides angiosperms.
14	Carboniferous -1 Mississippian Chester	Swamp-like environment. Densosporites with dissection also hispidite
21	Quaternary +1	Continental. Peat or bog. +1

2. (25 pts.) Summarize (list and briefly discuss)

A. the factors that contribute to occurrence in nature of a "perfect" paleopalynological rock sample

-02

Rock type is the most important factor. Sedimentary rocks most of the times contain more palynomorphs than the others. In Sed. rocks, the silt size rocks are the best rock (discussed in 2-A). The rock must be in situ. Reworking, stratigraphical leak, caving are all contaminates the older or younger particles. There must not be any oxidation. The effect of metamorphism must be very less (The color must not be too dark). Mostly if sample is from a continental environment, it is better than the marine rocks. Oxidation, reworking, stratigraphical leak, metamorphism are the major factors — not necessarily non-calcareous env.

B. the factors that may cause a sample of sedimentary rock to be paleopalynologically barren

-0

The size of the particles are important. The average size of palynomorphs is ~30 μ. (= Silt size). Therefore in silty rocks you have the chance to find more palynomorphs. If the particles are greater than silt size you can find very little palynomorphs (may be in the matrix but very little). The oxidation of sample is also important. Usually you can't find any palynomorph in the red colored (i.e. oxidized) sed. rocks. The other factors are paleoecologic conditions. If the rock is from a deep-marine environments it is almost barren. Or there may not be any flora for palynomorph deposition (also there may not be any transportation agent to carry them). Another factor is the metamorphism (or organic maturation) the burial, temperature effects the presence-absence of spores & pollen. Recrystallization is also important. Dolomites are usually barren.

(continued)

Hunt Institute for Botanical Documentation

 Name Volkan S. Ediger

+5

3. (25 pts.) Prepare a diagram that shows the probable phylogenetic (=evolutionary) history of birch pollen (Betula: P03, vestibulate, psilate) in geological time. As the British would say, "attend" only to the spore-pollen story. Start with Ambitisporites and show time periods on the left side of your diagram.

Beautiful

Cenophyta

Tertiary

U. Cretaceous

U. Cretaceous

Barremian (L. Cretaceous)

Jurassic-Triassic

Mesophyta

U. Permian

Carboniferous

Middle-Upper Devonian

L. Devonian

Lower Silurian

Angiospermae

Betula (Triporate)

Normapolles Group (Triporates)

Zonaxones (Tricolpate) → Tricolpopollenites Sp.

Clavatipollenites Hughesii

Gymnospermae

Monocolpapollenites sp.

Cycadophyte pollens (Monocolpate Gymnospermous pollen grains)

Larger, more complex sculptural spores Monocolpate cycad types

Lycopsidae Sphenopsidae Pteropsidae (Ferns, mosses etc)

Development of sculpture, processes etc. Apiculation. Saccate spores. Hystrichosph.

Simple trilete spores, retusoid Retusotriletes, Emphanisporites

Ambitisporites

Development of Trilete spores from simple to more complex

Most probable apertural Evolution:

Triporate

↑

Tricolpate

↑

Monocolpate pollen

↑

Trilete spore

Hunt Institute for Botanical Documentation

(continued)

 Name Volkan S. Ediger

+1 Marcellus

4. (52 pts.) Identify with a single sentence and/or diagram or drawing the following:

a. hypsithermal : is the warmest period which occured ± 6000 years ago within the post glacial time (started 10000 years ago)

b. Striatites the group of pollen which includes all the Striate bisaccates. These are dominant in Permian. Ex. Lueckisporites ? Haploxylopinus, Striati abietites etc.

c. tabulation the system of dinoflagellates plates occured both on the cyst and the theca. Usually there are four types of tabulation of dinos, Ceratioid, Gonyaulacoid, peridinoid, suessoid.

+1 d. carbonization the getting richer in fixed carbon content by loosing gases and volatiles. This term is usually used in the same sense of organic maturation of palynomorphs by the effect temperature, burial etc. Usually color is getting darker.

+1 e. pollen analysis palynology is first called pollen analysis (Erdtman). It is mostly the Quaternary palynology, counting of specific pollen grains to determine the paleoecologic condition

f. Aquilapollenites is an unusual pollen grain. Tricolporate (PC3) occured in the Late Cretaceous and found mostly in the Western USA & Eastern Asia.

g. Raistrickia is a carboniferous pollen (genus name), trilete spore. There are thick (+) sculptural elements on it.

h. Normapolles : is the group of pollens which are flattended equatorially & have 3-pores usually. started during U. Cretaceous & ended U. Paleocene (?) They mostly occured in W. Europe, E. USA

i. Clavatipollenites is a monocolpate clavate (clavas fused together to form a reticulum) genus name. C. Hughesii is the first angiosperm species seen in Barremian (Cretaceous)

j. Florinites is the pollen genus, bisaccate, A gymnosperm. There is a weak trilete mark started at U. Dev - L. carbon. It could be an ancestor of the coniferalein pollens.

+ k. Riss-Würm : Quaternary interglacial period. occured between Riss and Würm. Würm is the last glacial period ended 10.000 years ago. it is equivalent to the Indian-Wisconsin in USA.

l. polychaete annelids : These are the ancestor of the modern worms. The chitinous mouth part of these are called scolecodonts which are very important for Cambrian - Ordovician & Silurian.

+1 m. archeopyle is the openning on the cyst of the dinoflagellates. The living part comes out of this place. One or more plate is usually missing to form archeopyle

n. rugulate is a sculpture (0 perculum) type formed on the exines of spores & pollens. It is a (+) structure.

+1 o. glycerin jelly is the Substance having a refractive index of 1.43. It is used as a mounting medium for palynological slides because R.I is close to that of palynomorph (= 1.48)

p. Px_n^o is peri-colpate pollen grain. Colpi are not on the equator, on all of the surface — colpus

q. Circumpolles is the group name of Cicatricosisporites, Concavissimisporites, Densoisporites, Foveosporites, Gleicheniidites, Ornamentifera, Trilobosporites, Trudopollis (all are probably the same), started at Uppermost Triassic - L. Jurassic. Distally pore, proximally trilete or triangular aperture. They have a equatorial striate structure pollens of Shrubby Conifers.

(continued)

Hunt Institute for Botanical Documentation

 Name Volkmar S. Ediger

4. continued--

r. grass and composite pollen range Uppermost oligocene-Miocene to recent.

s. Traverse's Steppe-Forest Index : Ratio of steppe vegetation (Chenopodiaceae, Artemisia, Compositae) to the forest (Elm, oak, pine etc.) It is first applied in the Black Sea.

t. Paleophytic Botanical subdivision given to the paleozoic (from beginning to Middle Permian) Animals & plant did not evolve at the same time. So paleobotanical change occur in M. Permian instead of Permian-Triassic boundary

u. stratigraphic leak The presence of younger in olders (opposite of overturning). Some caves may form if younger rocks fell down.

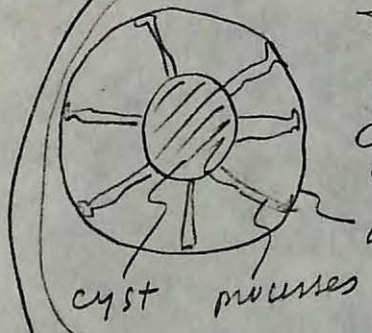
v. riparian weed theory ?

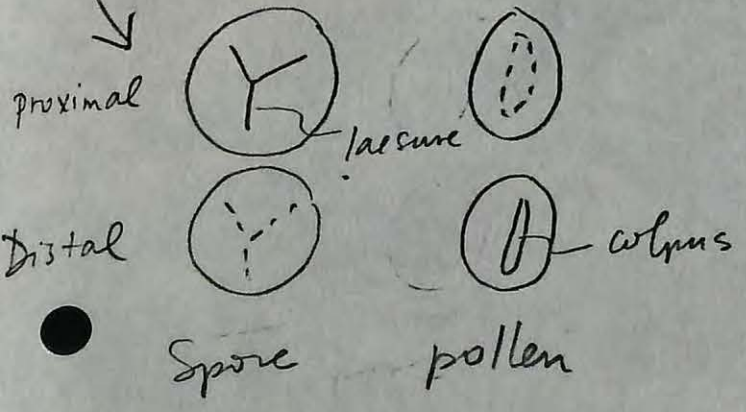
w. $ZnCl_2$ solution : is a solution used for heavy liquid seperation (seperation of organic material from inorganic rock fragments). Sp. gravity is 2.1-2.2.

x. nexine vs. endexine

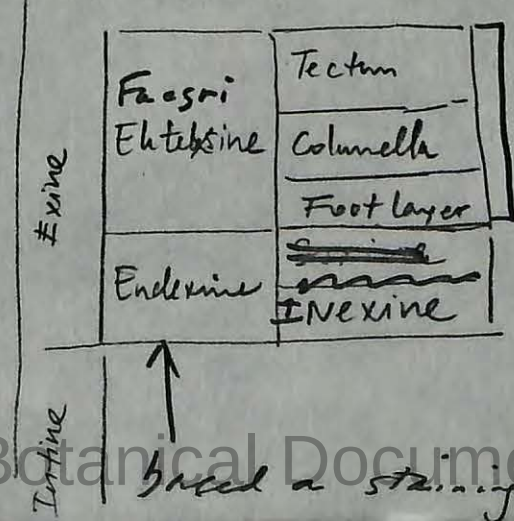
y. proximal vs. distal two different polar side of spores & pollens

z. chorate cyst is one of the cyst types of dinoflagellate. There are lots of processes on the cyst referring the tabulation. The outer layer of the exine was connecting all the tips of the processes.





x. Nexine vs. endexine.



Hunt Institute for Botanical Documentation

28 February, 1979

Mr. Volkan S. Ediger
Türkiye Petrolleri A.O.
Arastirma Merkezi
Palinoloji Lab.
Ankara, Turkey

Dear Volkan:

Just a brief note to convey your corrected final exam to you. That was a super job, even considering that you are already a professional palynologist. You did better than even the other person in the class whose status was comparable!

Tell Elçin that Betty made the börek, and it turned out great!

We already miss you very much, and can't let an opportunity go by to tell you how much your presence here was enjoyed. Best wishes.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et
encl: exam

Hunt Institute for Botanical Documentation

3 January, 1979

A. Traverse

Dean Hosler
cc: Burnham

This is regarding Mr. Volkan Ediger, a United Nations Fellow in Palynology from the government of Turkey, who is studying at a number of centers in the United States, under the sponsorship of the Office of International Visitor Program, U.S. Department of Labor.

Mr. Ediger has just completed two months in Houston, Texas, with the palynology section of Gulf Oil Co., and he is now slated to be at Penn State for the months of January and February, 1979, studying with me.

Mr. Ediger is a professional palynologist and should have office space while here. I am told that he will be permitted to use Lauren Wright's office for this period of time. He will, of course, spend much of him time in the palynological laboratories.

I have a complete file on Ediger's professional and personal background should you wish to look it over. He and his wife will be living in an apartment just off campus while here (611 E. Foster Ave.).

Alfred Traverse

Hunt Institute for Botanical Documentation

S. C. Adams
611 E. Foster

December 26, 1978

Dear Mrs. Traverse,

I have received a letter from United Nations about our trip to Pennsylvania.

We are going to leave Houston on January 3, arrive Pittsburg 1:00 pm, leave Pittsburg at 5:30 pm. and finally arrive State College at 6:20 pm. We are going to fly from Pittsburg to State College by Trans-Pennsylvania Airlines, PF 446.

I have signed and sent back the lease Agreement including $100.00 for deposit plus $230.00 for the January rent. I have also sent a money order for $100.00 to you for deposit. I hope you have already received it.

I just wanted you to know our trip program. Thank you for your helps.

Yours Sincerely,
Nathan Adams

Hunt Institute for Botanical Documentation

December 11, 1978

Dear Mrs. Traverse,

I have receiwed your letter this morning. I do not know how I'll thank to you for everything. You are spending your valuable time and getting tired because of us. You are really so nice and we appreciate for your helps.

I have sent a bank money order for $ 100.00 to Mr. Kazdin for deposit. I am also sending another money order to you for the half of the deposit which you gave them for us. I think this is the best way of sending money.

Everything seems to be allright. In fact, we are not the people who like luxury. So I am sure we will have a beautiful time there.

The trip program is going to be arranged by United Nation people from Washington. I sent a letter to them telling abaut all what you have written to me. As soon as I receive any information abaut our trip to Penn. State I'll let you know.

My wife Elcin and I send you our best wishes.

Yours sincerely,

Volkan S. Ediger

Hunt Institute for Botanical Documentation

5 December, 1978

Mr. Volkan Ediger
c/o Dr. George Fournier
Gulf Research & Development Co.
P.O. Box 36506
Houston, TX 77036

Dear Mr. Ediger:

I have found you an apartment for the months of January and February. Most people are not too anxious to rent for only two months, but I was fortunate to find something and I hope it will suit you. It is a one-bedroom apartment in the basement of a private home, but is not at all gloomy as basement apartments often are, and is very cozy and warm for winter. There is a living room with couch, tables and chairs, a kitchen with large stainless steel sink, small gas stove and refrigerator (stove and refrigerator are old, but work). The bedroom has two beds and a large closet and a dresser for clothes. There is a bathroom with tub and shower. There is a table and chairs for dining in the kitchen. None of this is at all fancy, but is certainly adequate. The house is on a pleasant residential street, about six blocks from campus and a little farther to Deike Building, but no more than 10-15 minute walk through the town. One of our other graduate students lives right across the street. The people who own the apartment and live in the house are a pleasant, young academic couple with two children, and they look forward to meeting you. The present occupants of the apartment are a graduate student couple and baby, and they plan to be out certainly by the end of December and perhaps a few days earlier, so you can move in probably whenever it suits you after Christmas. The apartment is not as cheap as I would have liked to get for you, but actually is not bad. The rent is $230 per month and includes <u>all utilities</u>. As is the custom here, a security deposit is required which will be refunded when you leave at the end of February. This is rather high--$200--but understandable, as many student renters are hard on apartments and landlords have to protect themselves. I have given them a deposit of $100 (half of the security deposit) to hold the apartment for you, and of course would like to be reimbursed as soon as convenient for you. You should send them the additional $100 for the rest of the deposit. They will be sending the lease form to you directly to sign.

Hunt Institute for Botanical Documentation

The name of the person who owns the apartment and lives in the house is Alan Kazdin. The address(which will be your address, although you have a separate mailbox) is

611 East Foster Ave.
State College, PA 16801

The apartment is quiet, unlike most student apartments around here in noisy high-rise buildings, and you will have plenty of privacy. There is a separate entrance to the apartment so you need never see the people who live in the house unless you want to--although you will probably want to, as they are quite nice. Your wife will be able to walk around and explore the town quite conveniently and there is also bus service to other parts of the area.

Hope I did the right thing in taking the apartment. I didn't want to risk writing you first, because it would have been gone. The others I have seen were either just complete dumps, or much more expensive, or very noisy, or out of town which wouldn't do for you without a car.

As I mentioned earlier in the letter, Mr. Kazdin will be sending the lease directly to you. They refused to rent without a lease, and I can't blame them. It will also protect you, of course. Looking forward to hearing more from you about your plans.

Yours very truly,

Elizabeth I. Traverse
Assistant in Palynology

Ac: G. Fournier

Hunt Institute for Botanical Documentation

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

Department of Geosciences

Area Code 814

File Edgers

Nov. 15, 1978

Dear George:

Our most reliable student advisors now tell us to hold off on the apartment hunt for Edigers until the very beginning of next term (end of November). By then, students will have solidified their plans for winter and some will be leaving at that time and will be desperate to sub-let, so we should get a better deal. There are always apartments around here, so don't worry. We'll get something, hopefully without having to pay for December (can't guarantee this, though--may still have to take for at least part of December.)

More later.

Regards as always,

Elizabeth Traverse
Jack-of-all-trades

AN EQUAL OPPORTUNITY UNIVERSITY

Hunt Institute for Botanical Documentation

wife - Člen
("Clchen")

Volkan Eligen

Turkish Student

get him a
room
w/ cooking
facilities for
2 mos. beg. 1 Jan. 79
his wife
no kids

5-6546

Hunt Institute for Botanical Documentation

Betty - reorg letter is good. Shd rec'd.
K

U.S. DEPARTMENT OF LABOR
BUREAU OF INTERNATIONAL LABOR AFFAIRS
WASHINGTON, D.C. 20210

May 23, 1978

Dr. Alfred Traverse
Deike 435
University Park, Pennsylvania 16802

Dear Dr. Traverse:

As you will note from George Fournier's personal letter as well as the official program for UN Fellow Ediger, everything has been arranged at Gulf. Following Gulf, he will proceed from Houston to University Park to conclude his program with you from January 3 through February 21.

We trust that at the appropriate time someone at Penn State can arrange for suitable living accomodations for that period. We do appreciate your kindness in inviting Mr. Ediger to Penn State to have the benefit of your instruction.

Thank you and kindest regards,

Leon B.

LEON BISCHOFF, Program Officer
Office of International Visitor Programs

Enclosures

cc: Dr. Fournier

Hunt Institute for Botanical Documentation

May 23, 1978

Dr. George Fournier
Gulf Research & Development Company
Houston Technical Services Center
P. O. Box 36506
Houston, Texas 77036

Dear George:

Thank you for your personal letter of May 8, together with the official program which was enclosed. We have advised the UN and ICA as per my memo enclosed. We are also writing to Al Traverse as per copy enclosed; and therefore, it seems that all ends have been tied.

One of my notes indicates that you will arrange a one-room apartment, hopefully within walking distance for Volkan; it would probably be at about $260.00 per month. Inasmuch as he will arrive on August 19, the arrangement can be effective from that date through December 31.

Many thanks and kindest regards,

LEON BISCHOFF, Program Officer
Office of International Visitor Programs

Enclosure

cc: Dr. Traverse
Stallard
Day book
chron
Project file

Hunt Institute for Botanical Documentation

GEORGE R. FOURNIER
10003 VALLEY FORGE
HOUSTON, TEXAS 77042

May 8, 1978

Mr. Leon Bischoff
Office of International Visitor Programs
Washington D. C.

Dear Mr. Bischoff:

I finally got a letter from Turkey which has clarified the situation regarding Mr. Volkan Ediger visit to the United States.

One of my suggestions was approved and Mr. Ediger will include in his palynological training the study of the Upper Tertiary instead of diverting his efforts to study subjects that are not familiar to him so far.

Thus, I have put together the schedule included herewith which I hope deserves your approval. It is a well balance program supervised by very competent members of our staff. In my opinion it is more in line with the needs of Palynology in Turkey which I think I know fairly well.

Sincerely yours,

G Fournier.

Hunt Institute for Botanical Documentation

Gulf Research & Development Company

HOUSTON TECHNICAL SERVICES CENTER

P. O. Box 36506
Houston, TX 77036

Volkan Ediger: Schedule of his U.S.A. visit

At Gulf Research and Development: From August 20 to Dec. 31, 1978

At Pennsylvania State University: From Jan. 2 to Feb. 21, 1979

Details of the schedule:

Gulf Research and Development, Houston, Texas:

George R. Fournier; Technical Associate: advisor.
From August 20 to October 20, 1978

1. Study of the Tertiary palynological collection including:

   a. about 200 spore types
   b. about 1500 pollen grain types
   c. about 150 dinoflagellate cyst types
   d. about 100 other miscellaneous types (fungi, etc.)

2. As much as time permits study of the Cretaceous type collection of about 2000 types.

Yow Yuh Chen, Staff Palynologist; advisor
From October 21, to November 30, 1978

Study of the Late Jurassic and Early Cretaceous palynofloras of Madagascar and the Middle East, including the all important dinoflagellate cysts of that period. Comparison with European and North American assemblages.

Bruce Cornet, Staff Palynologist, advisor
From December 1 to December 31, 1978

Study of the Cretaceous and Upper Jurassic palynofloras in the following areas:

1. COST wells G-1 and G-2, Georges Bank area.
2. COST well B-2, Baltimore Canyon area.

Analysis of the assemblages in both wells and comparison against zonation already established.

Gulf
SUBSIDIARY OF GULF OIL CORPORATION

Hunt Institute for Botanical Documentation

Alfred Traverse - Pennsylvania State University, Advisor
From January 3 to February 21, 1979

Part of the regular University course in palynology.

Houston, Texas, May 8, 1978.

George R. Fournier

Hunt Institute for Botanical Documentation

Ediger, V.

18 April, 1978

Mr. Leon Bischoff
Office of International Visitor Programs
Bureau of International Labor Affairs
U.S. Department of Labor
Washington, DC 20210

Dear Mr. Bischoff:

Sorry that it has taken two phone calls and a letter from you to jar a response from me re the proposed visit of Volkan Ediger.

First, let me say that I am eager to do whatever I can for any friend of George Fournier--a friend of his is a friend of mine.

However, there is no use in Volkan Ediger coming here when I am not able to be with him enough to make it worthwhile--my operation is a one-man show nowadays.

Therefore, Summer, 1978, would not be satisfactory because I am not officially here for July-August and may not actually be here a good part of that time.

Fall Term (29 August-13 November) would be possible but not the best because I have graduate students and possibly another visitor arriving, who will take most of my limited free time, plus a teaching program in an area only tangentially related to palynology (evolution).

By all odds the best time for Volkan to be here would be Winter Term (30 November-21 February), when I'll be giving the palynology course. He could be a part of the course, as well as conferring with me at a time when I am giving myself over to palynological instruction anyway. Perhaps he would prefer to come only for the post-Christmas part of the term, (3 January-21 February). Much of the December segment of the palynology course is elementary, and I am also usually preoccupied in December, the mad-hatterest month of the year (I hate December). So, how about the six weeks from 3 January to mid-February?

Aside from time, there will be some problem regarding space--so we should get the time settled soon so that I can try to secure space and equipment for Mr. Ediger and begin thinking about what he will do. Best wishes to you.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et
cc: G. Fournier, C. W. Barnhart

Hunt Institute for Botanical Documentation

U.S. DEPARTMENT OF LABOR
BUREAU OF INTERNATIONAL LABOR AFFAIRS
WASHINGTON, D.C. 20210

file
Edigr
folder under
graduate
student

April 3, 1978

Dr. Alfred Traverse
Deike 435
University Park, Pennsylvania 16802

Dear Dr. Traverse:

Confirming our pleasant conversation with respect to UN Fellow Volkan Ediger, we are pleased to enclose the UN Fellowship Form which includes his full bio. You mentioned during our conversation that Dr. Fournier had written you when he was in Turkey and we were pleased to confirm that "Volkan" has now been granted his six-month fellowship, and this office has been requested to arrange his program. The UN, as we mentioned, will pay his per diem and travel expenses while he is in the U. S., and the Department of State will arrange for him to receive a J-1 Visa.

As also mentioned, it would be splendid if Volkan could participate in the fall semester during September, October and November; there is outlined in the attachment to section 17 under point 4, the subject matter that he desires to study under your direction. As he is available to come to the U. S. as soon as possible, we will arrange together with Dr. Fournier, the balance of his program with Gulf, Exxon, and LSU and others that Dr. Fournier will suggest as soon as we know that he may be programmed with you during the fall quarter.

We appreciate your kind cooperation, and if there should be any questions, please telephone the writer (202/523-6292). I did mention that we have in the past had other outstanding young scientists in various departments at Penn State.

Thank you and kindest regards,

Leon Bischoff

LEON BISCHOFF, Program Officer
Office of International Visitor Programs

Enclosure

cc: Dr. Fournier

Hunt Institute for Botanical Documentation

OTC.1 (1-71) - E.

UNITED NATIONS

INFORMATION COPY
FOR DEPARTMENTAL USE
ORIGINAL ON FELLOWSHIP FILE

FELLOWSHIP NOMINATION FORM

I. LETTER OF TRANSMISSION

INSTRUCTIONS

To be completed in triplicate by a senior official of the nominating Government who will forward three copies of the certified nomination forms to the United Nations, New York, through the office of the UNDP regional or resident director through which its technical assistance requests are normally channelled.

The Government of Turkey

nominates Mr. Volkan Ş. Ediger

for a fellowship to study palynology

and certifies that:

(a) the studies to be made under this fellowship are necessary for the advancement of the economic or social development or public administration of the country, and that in the case of a fellowship being granted, full use would be made of the fellow in the field covered by his (her) fellowship;

(b) all information supplied by the nominee is complete and correct;

(c) the nominee has adequate knowledge, appropriately tested, of a language which can be used for working purposes in the proposed host country;

(d) the absence of the nominee during his (her) studies abroad would not have any adverse effect on his (her) status, seniority, salary, pension and similar rights.

On return from the fellowship it is proposed to employ the fellow as follows:

Title of post Palynologist

Duties and responsibilities Stratigraphic palynology of Tertiary sequences.

Place and date: Ankara-Turkey

Signature of responsible Government official

İsmail A. KAFESCİOĞLU
Deputy General Manager

Official address: TPAO Araştırma Grubu
Müdafaa Cad. No. 22
Ankara-Turkey

Title:

II. OBSERVATIONS OF UNDP RESIDENT DIRECTOR, PROJECT MANAGER OR EXPERT

(Changes suggested by an expert and/or the resident director in the study programme requested by the Government or its nominee have been discussed and accepted).

Place and date: *Signature and title:*

Hunt Institute for Botanical Documentation

UNITED NATIONS

FELLOWSHIP NOMINATION FORM

III. PERSONAL HISTORY AND PROPOSED STUDY PROGRAMME

Instructions

Nomination forms are available in English, French and Spanish. They should be completed by the candidate in typewritten form in whichever of the above languages is most acceptable in the proposed country of study. Three copies are required. Each question must be answered clearly and completely. Detailed answers are required in order to make the most appropriate study arrangements. If necessary, additional pages of the same size may be attached.

1. Family name (surname) (underline name by which formally addressed): EDİGER — First name: Volkan — Other names: Şevket

2. Mailing address: TPAO Araştırma Grubu, Müdafaa Cad. No.22 Bakanlıklar-Ankara, Turkey

3. Home address: Tahran Cad. Uğur Apt. No. 18/3, Kavaklıdere-Ankara - Turkey

4. City and country of birth	Date of birth: Day	Month	Year	Age	Nationality	Marital status
Konya-Ereğli-Turkey	25	9	1953	24	Turkish	Marriage in two months

5. Sex: [X] Male [ ] Female

6. Name and address of person to be notified in case of emergency: Nevzat Öztürk, Kırmızı Gül Sok. Konca Apt. 2/7 Mecidiyeköy-İstanbul

7. Languages Mother tongue: Turkish	READ			WRITE			SPEAK		
	Excellent	Good	Fair	Excellent	Good	Fair	Excellent	Good	Fair
English		X			X			X	

8. Residence in foreign countries in relation to the candidate's professional or study interests

Year:	Country:	Length of stay:

9. Education (start with last attended institution and work backwards)

Name of institution and place of study	Years of study: From - To	Major fields of study	Degrees
Middle East Technical Univ. Ankara	1976-Continuing	Geochemistry	MsSc.
" " " " "	1971-1976	Geology	B.Sc.
~~Konya-Ereğli Lisesi, Konya-Turkey~~	1965-1971	Middle-High School	
~~Dum~~ upınar İlkokulu " "	1960-1965	Primary School	

10. List membership of professional societies and your activities in civil, public or international affairs.
Geological Society of Turkey
Association of Turkish Petroleum Geologists

11. List any relevant publications you have written (do not attach)

Hunt Institute for Botanical Documentation

12. Employment record: It is important to give complete information. For each post you have occupied give details of your duties and responsibilities.

A. Present or most recent post Traniee Palynologist	Description of your work, including your personal responsibility
Years of service: from to March 1977 - present	I have been learning the basics of Tertiary palynology. Recently I have started to apply palynological analysis in order to solve some stratigraphical problems of Turkish Tertiary basins by means of applying statistical methods with the aid of computers.
Title of your post: Palynologist	
Type of organization: Petroleum Company	
Name and address of employer: TPAO Araştırma Grubu Müdafaa Cad. No. 22 Bakanlıklar-Ankara-Turkey	
Name of supervisor: Dr. Efe Sinanoğlu	
B. Previous post Assistant	Description of your work, including your personal responsibility
Years of service: from to February 1976 March 1977	I have worked on the application of numerical datas obtained from the geological investigations. I have also worked as a demonstrator on mineralogy geostatistics and geochemistry.
Title of your post: Assistant	
Type of organization: University	
Name and address of employer: Middle East Technical Univ. Geological Engineering Dept. Ankara-Turkey	
Name of supervisor: Dr. Ayhan Erler (Asst. Prof.)	
C. Previous post	Description of your work, including your personal responsibility
Years of service: from to	
Title of your post:	
Type of organization:	
Name and address of employer:	
Name of supervisor:	

Hunt Institute for Botanical Documentation

13. Proposed field of study: Tertiary Palynology

(The information given should be precise; the study programme will be based on it)

14. Detailed description of subject matter to be studied:

My main interest is to learn the taxonomy and the evolution of Tertiary microfloras in order to solve the age and the correlation problems of Tertiary rock sequences. I also would like to study the other aspects of Tertiary palynology such as the application of palynological data to computers and the interpretation of the computer results.

15. Description of the practical use you will make of this study on your return home in relation to the responsibilities you expect to assume, and the conditions existing in your country in the field of your interests.

There are many Tertiary basins in Turkey, and some of them has a petroleum potential. For that reason Tertiary basins need to be studied in detail. In many cases micropalaeontological methods cannot solve the problems because of lack of microfauna. In that case palynological analysis seem to be the only way to solve these problems. From palynological point of view, Tertiary basins have the most complicated microfloras. Although the ageing of the Tertiary rocks can some times be done without using computer, but for correlation problems and the interpretation of depositional environment including the paleogeography of the basin, the numerical data and their application to computer using statistical methods are vital.

Hunt Institute for Botanical Documentation

16. Length of time required for study: 6 months

17. Proposed country of study:(*)
(You may list in order of preference other host countries should facilities not be available in the first).

U.S.A.

Organizations, firms, institutions, or projects at which study is preferred:

- Dr. George R. Fournier : Gulf Oil Technical Service Center, P.O. Box 36506

- Dr. William Elsik : Exxon Research Center, Houston, TEXAS, U.S.A.

- Dr. George Hart : Lousiana State Univ. Geology Department, Lousiana, U.S.A.

- Dr. Alfred Traverse: Dept. of Geosciences, Pennyslyvania State Univ. University Park PA-168

(*) The United Nations reserves the right to propose an alternative host country if in its judgment the desired facilities are equally or more satisfactory in such a country; or if the desired facilities are unavailable in the country proposed by the candidate. The length of time required for study may also be adjusted by the United Nations in accordance with its own judgment and the budget possibilities.

18. Earliest date you could start if awarded a fellowship :

March 1978

19. Is there any definite period you cannot be absent from your home country?

NO

20. Give details of any fellowships or scholarships previously held by you, which you now hold, or for which you are a candidate.

NO

I certify that my statements in answer to the foregoing questions are true, complete and correct to the best of my knowledge and belief. If selected as a fellow, I undertake to:

(1) Conduct myself at all times in a manner compatible with my status as holder of a United Nations fellowship ;

(2) Spend full time during the period of the award in the study programme as directed by the agency in the country of study and by the United Nations;

(3) Refrain from engaging in political, commercial, or any other activities other than those covered by my work programme;

(4) Submit reports in accordance with the arrangements made by the United Nations;

(5) Return to my home country at the end of the fellowship .

Date: December 8, 1977 Signature of candidate: A Rediger

Hunt Institute for Botanical Documentation

Attachment to Section 17
(Details of the Proposed Program)

1. Dr. George R. Fournier (5 weeks) : At the Gulf Oil Research Center, Houston, Texas, 10.000 type species of palinomorphs will be studied to have a better understanding of the taxonomy and the evolution of Tertiary microfloras. The application of the palynological datas to the computer sciences and the obtained results from them will also be examined in order to learn the correlation techniques and the interpretations of the ancient depositional environments.

2. Dr. William Elsik (4 weeks) : To study on the Upper Cretaceous, Paleocene and Eocene Palinomorphs. Also to learn the usage of Fungal Spores in Stratigraphical palynology which is a newly developed technique by Dr. W. Elsik at his Exxon Petroleum Research Laboratories, Houston, Texas.

3. Dr. George Hart (4 weeks) : To attend the basic palynology courses which are given at the Lousiana State University and to study the fundementals of Pliocene and Pleistocene palyology.

4. Dr. Alfred Traverse (12 weeks) : During 12 weeks period the index palinomorphs for Cretaceous and Tertiary will be studied in detail. Also the study will include the taxonomy of Tertiary palinomorphs emphasizing on the index palinomorphs which occur between Tertiary and Quaternary.

Hunt Institute for Botanical Documentation

IV. RECOMMENDATIONS OF NATIONAL SELECTING AUTHORITY

Instructions

To be completed in triplicate.

1. Comments on educational qualifications, experience in the subject to be studied, age, health and personality of the candidate:

Candidate is a graduate of the Middle East Technical University (1976 February). He has been working at the Turkish Petroleum Research Center's Palynological Department since 1977. He is 24 years old, is in good health and he is eligible to be a candidate.

2. Comments on the linguistic ability of the candidate:

As he is a graduate of the Middle East Technical University he has obtained his B. Sc. in English.

3. Comments on proposed country of study, preferred institutions in that country and duration of fellowship :

The most advanced methods for Tertiary palynology are developed in the United States of America. We would like our candidate to study in the above mentioned country for six months. We agree the program proposed by the chief of the palynology department of our Research Center for the candidate will be the most suitable one.

4. Comments on use to which fellow's training will be put on his return home:

When the candidate returns home, he will work on ageing the Tertiary Sequences and will establish a palynological zonation scheme for Tertiary basins of Turkey. He will also be responsible for training of the new geologists on Tertiary palynology in the near future.

Address: TURKISH PETROLEUM CORP.
MÜDAFAA CAD. No. 22

Signature and title of responsible official
Yalçın HATUNOĞLU
Manager of Petroleum
Research Center

Place: BAKANLIKLAR-ANKARA/TURKEY Date: 12.12.1977

Hunt Institute for Botanical Documentation

V. MEDICAL REPORT

INSTRUCTIONS

To be completed in triplicate by a registered medical practitioner after thorough clinical and laboratory examination including X-ray of chest. The United Nations reserves the right to require the candidate to undergo a further medical examination before he takes up his fellowship.

Name of candidate:	Age:	Sex:
Volkan Ş. EDİGER	24	Male

Is the person examined at present in good health and enjoying full working capacity?

YES

Is the person examined able physically and mentally to carry on intensive study away from his home?

YES

Is the person examined free from infectious diseases (for example, tuberculosis and trachoma) which could present risks for both the candidate and his contacts during his fellowship?

YES

Does the person examined have any condition or defect which might require treatment during his fellowship?

NO

Full name and address of examining physician (*printed*)

Dr. M. ŞEVKET KILINÇ
Diploma No. 1533
Dahiliye Mütehassısı

Signature of examining physician: _____

Date: December 7, 1977

Hunt Institute for Botanical Documentation