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

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

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

30 January, 1995

Dr. Jiang Dexin:  
Langzhou Institute of Geology  
Chinese Academy of Sciences  
Panxuan Road  
Lanzhou, Gansu 730000  
PR China

Dear Dexin:

I seldom have an opportunity to spend a day in reading and study, but today was such a day. In the pile of things I had brought home to read was your 1993 Xmas-New Years greeting card (not 1994--I recently responded to that!). It was dated 12 Dec., 1993, and included xerox copies of your "Permian plates of the Tarim basin." I take it that the formation is called the "Baliklike Formation," because that is how the plates are labelled. I found the plates very interesting, with all sorts of old friends. Now I am wondering if it was this material that you lost in the Detroit airport.

In any case, I want you to know that I greatly honor our friendship and am very sorry that circumstances have prevented me from being more responsive. I do hope that we will meet again before too long.

All the best to you and your family.

Yours very truly,

Alfred Traverse

encl.:reprints

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

9 January, 1995

Dr. Jiang Dexin  
Lanzhou Institute of Geology  
Academia Sinica  
Lanzhou, Gansu 730000  
P. R. China

Dear Dexin:

It was so good to hear from you at Xmastime. We often think and talk of you, especially because beautiful gifts from you are so prominently displayed in our home.

It is sad to hear that you were so near to us but didn't/couldn't come to see us. You are always welcome at "Alphabet" (=our home).

You don't say how you "lost" your piece of luggage in Detroit, and we hope you weren't robbed. I gave a keynote address at the 10th Congress of the Spanish-speaking palynologists in Valencia, Spain, last Sept. On the way, we were robbed in the Madrid airport and lost everything of practical value, except my passport and air tickets, which were fastened to me--cash, credit cards, all identification cards, travellers' checks, dark glasses, etc. It was very embarrassing to have to tell the welcoming committee in Valencia on arrival that I needed to borrow some money to make phone calls to cancel the credit cards, etc.

Betty and I wish you and Junchao all the best for 1995. One of these years we'll turn up in China. I enclose some reprints that I seem not to have sent you.

Yours very truly,

Alfred Traverse

encl.:reprints

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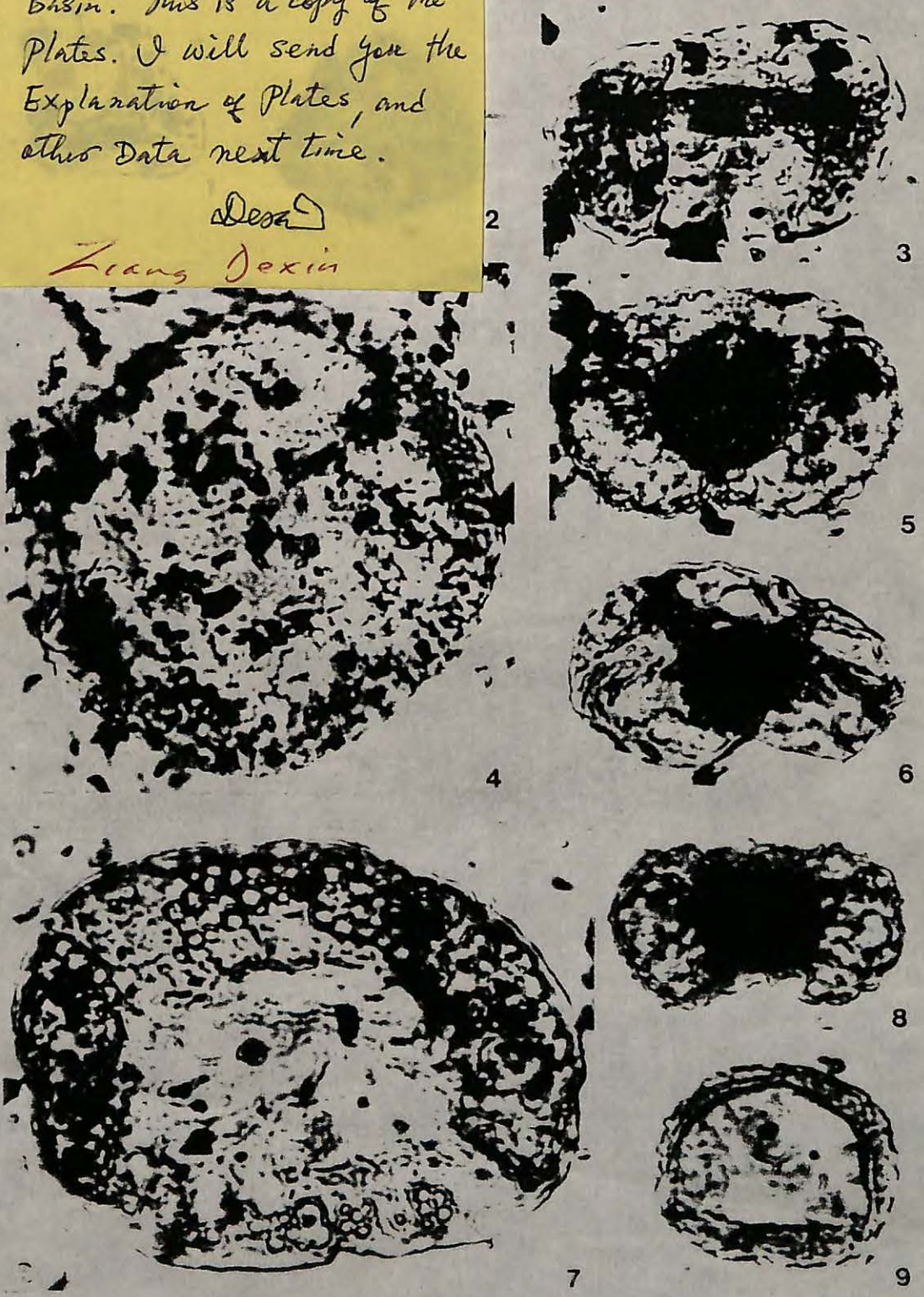
Dear Alfred: Dec. 12, 1993

I have just finished the Permian Plates of the Tarim Basin. This is a copy of the plates. I will send you the Explanation of Plates, and other data next time.

Desa

Zhang Dexin

like Formation Plate I



Dec. 7, 1994

Dear Dr. Traverse:

Kindly excuse me for my long negligence in writing to you.

I went to Norfolk, Virginia to visit my daughters in January and returned in September.

I was so unlucky that I lost a suitcase with palynological data, money and other important things in it at Detroit airport on Jan. 12. Otherwise, I would go to visit you in Summer.

Very truly yours,

Jim Deane

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

7 December, 1992

Dr. Jiang Dexin  
Lanzhou Institute of Geology  
Academia Sinica  
Lanzhou, Gansu 730000  
P. R. China

Dear Dexin:

Thanks for your nice letter of 24 November. Congratulations on still further strides with your English!

I look forward to working with you on the Permian material. I have an earliest Permian project to work on here, after a couple of other matters get taken care of. At the moment the palynology course is going, with 17 students, and that takes all my time. I am sure that we can also work on the magnoliad pollen together. We have good TEM and SEM facilities. They do cost money, however, so we'll have to think in terms of some sort of grant. Maybe the Chinese Academy could provide you with a certain number of hours. The cost is about \$20 an hour.

Betty and I reciprocate the good wishes. Visiting China some day is becoming a dream that I hope Betty and I can fulfill.

Yours very truly,

Alfred Traverse

中国科学院兰州地质研究所

LANZHOU INSTITUTE OF GEOLOGY, ACADEMIA SINICA

中国·兰州

LANZHOU, CHINA

Phone: 21068

Tel. 6347

24 November, 1992

Dr. Alfred Traverse  
435 Deike Building  
University Park, PA 16802  
U.S.A.

Dear Alfred:

Excuse me for my delay in answering your kind letter of 31 August. The reason for the delay is that I was in Beijing when your letter arrived, and I was busy at urgent matter on my return.

I went to Reston and completed a cooperative paper on spores and pollen in crude oils with Norrie this summer. We hope to publish the paper in "Science" magazine.

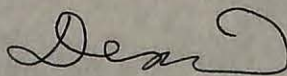
Now I am working on the Early Permian Palynofloras of the Tarim Basin, which I plan to cooperate with you. I intend to finish the preliminary identification and study here, then go to your Laboratory and work with you. Another project which I plan to cooperate with you is about morphology of Magnoliaceae pollen ---- that is very interesting. I have always had a great admiration for you, and I am sure our cooperation will be successful. The financial support will probably be provided partly by the Chinese Academy of Sciences and partly by personal funds.

I hope you can visit China in 1994, and you are welcome to China anytime.

Junchao gives his best regards to you.

Best wishes to you and Betty.

Very truly yours,



Dexin Jiang

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

31 August, 1992

Dr. Jiang Dexin  
Lanzhou Institute of Geology  
Chinese Academy of Sciences  
Panxuan Road  
Lanzhou, Gansu 730000, PRC

Dear Dexin:

It was a shock to get your "Dear Dr. Traverse" letter of 24 August, saying that you're not coming. I met George Tseo on the street the other day, and he told me that you were going to stay with them, and we were all expecting you. (By the way, please call me "Alfred" or "Al"--if you don't, I'll have to switch back to Dr. Jiang!) I just left a message at their home that you're not coming. I am sure they share our disappointment.

It is still embarrassing to me that I've never completed the work on the manuscript materials you left with me at the time of your last visit. So it is a pleasant surprise to learn that you would still be interested in working with me! It would be fun, and you are welcome here. I should mention that I will probably be gone all of August, 1993, in Japan, in connection partly with the International Botanical Congress, and partly with lectures etc. that I will give in Japan to justify the Japanese government paying my travel expenses to their country.

I still want to visit China some day, but it can't be '93--one month is all I can devote to overseas travel. Perhaps I could organize a Korea-China visit for '94? It's too early to know for certain what will develop for that year.

In the meantime, best wishes as always.

Yours very truly,

Alfred Traverse

AT/et

Aug. 24, 1992

Dear Dr. Traverse:

I am very sorry to tell you that I cannot go to Penn State to work with you this year, because I have to return to China next month.

I have just finished a paper on spore/pollen in crude oils together with Dr. Robbins, and have some work to do in Norfolk. I plan to finish a paper on the Early Permian palynofloras of the Tarim Basin in cooperation with you. Because I have not finished the necessary preparation, it seems impossible to finish the paper this time. So I need to continue the preparation in China and work with you next year. I hope you would like to do it next year.

The enclosed is a part of the plates and lists of the Early Permian miospores (copy) from the Tarim Basin. As soon as I finish the other parts of the plates, I will send it to you from China.

Best wishes to you and Betty.

Very truly yours,

Devin Jiang

Dr. Jiang Jiefan  
Jiangzhou Institute of Botany  
Academia Sinica  
Jiangzhou, Pansu 730000  
PR China

73-IV-9

Dear Jiefan,

Good to get your letter of 6 April today.  
It is somewhat discouraging that you are  
bound to "go Transverse"! Oh well, you're  
still Jiefan to us!

I was really sorry that I couldn't organize  
an official invitation (required permission  
of our Head, & the Dean) for a time when  
I wouldn't be in PA, etc.

You are most welcome to come to PSU  
in September. We would enjoy having you  
at "AB" when you first arrive, but  
I believe it would be better for you to  
stay at the university's house for academic  
visitors after that - as you would  
be very isolated at our place - but it's  
up to you. Maybe you had planned to  
stay again with your friends in State College?  
I had to know, so I can put in for a reservation  
for you - but we do expect of you for the  
first couple of days at the on house.

We - or at least I - are planning  
to visit Japan for the Int. Bot. Congress  
in 1993. I plan to take advantage  
of the situation to visit Korea (where  
I know an ex-M.I. student, Jock Choi) and  
China (Beijing, because we must visit  
Beijing & Lanzhou, because of you).  
I haven't the exact dates here, but it is  
around mid-August. I hope you'll be  
there then!?

All the best

~~Y/S~~

~~AS~~

~~AP~~

中国科学院兰州地质研究所  
LANZHOU INSTITUTE OF GEOLOGY, ACADEMIA SINICA

中国·兰州

LANZHOU, CHINA

Phone: 21068

Tel. 6347

April 6, 1992

Dear Dr. Traverse:

Many thanks for yours of 25 February from Germany.

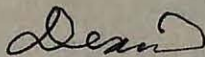
I am very glad to learn that you are working on a new book and other projects in Germany, and that you have just visited Dr. K. J. Hstl in Zürich. Dr. Hstl is very famous in China, and we Chinese geologists show respect to him.

I have received a formal invitation letter from U.S. Geological Survey along with my IAP-66 Form. So you needn't take pains for my visa. As the procedure is overelaborate, I can't start until late June. I plan to visit the Branch of Coal Geology of U.S.G.S. in Reston in July, where I will work with Norrie. And I hope to work with you for our joint project in September. Only three weeks is available for our cooperative project this time, because I have to return home for a project on petroleum of the Tarim Basin in late September. I intend to finish a paper on the Early Permian palynofloras of the Tarim Basin in cooperation with you. Now I am busy at this work in order to take the sufficient palynological data and photographs of fossil spore/pollen with me.

Junchao gives his best regards to you and yours.

Best wishes to you and Betty.

Very truly yours,



Dexin Jiang

Dexin Jiang  
Lanzhou Institute of Geology  
Academia Sinica  
Lanzhou, Gansu 730000  
People's Republic of China

FORSCHUNGSINSTITUT UND NATURMUSEUM FRANKFURT  
PALAEBOTANISCHE SEKTION  
SENCKENBERGANLAGE 25  
6000 FRANKFURT A.M. 1, DEUTSCHLAND (Germany)

25 February, 1992

Dr. Dexin Jiang  
Lanzhou Institute of Geology  
Academia Sinica  
Lanzhou, China 730000

Dear Dexin:

Yours of 27 January was forwarded to us here. I hasten to correct your impression that we are "on vacation." We are working very hard on a number of projects, the most important of which is a new book, now almost done.

Now, about your proposed visit to Penn State: you are always welcome to occupy my "visiting scientist" desk, use the microscopes, etc., providing that I am at home, and no other visitor is already "booked in."

As you know, I won't be home until the first week of July, and naturally there will be a host of problems to take care of after such a long absence. The first of August would seem to be the earliest that it would be practical for a foreign visitor to arrive. The formal invitation that you need will require the approval of my department head, Dr. Arthur. I don't think that we can extend an invitation for a time that we know is not available--e. g., May, June, July, 1992, as you propose. I understand what you have in mind, but it just isn't possible under the circumstances. Could you revise your plans? If so, I am sure that Dr. Arthur will approve a formal invitation for a period beginning, say 1 September, 1992.

Regarding a visit to China, especially Lanzhou, I know that you have repeatedly extended such an invitation, and I do wish to do it. I would also like to have a joint project with you one of these days. More about all of that latter. Incidentally, I just visited Zürich to give a lecture, and my host, K. J. Hsü said that he had visited Lanzhou and met you. He is my closest friend in science.

All the best, also to Junchao.

Yours very truly,

Alfred Traverse

c:Dr. M. Arthur

中国科学院兰州地质研究所

LANZHOU INSTITUTE OF GEOLOGY, ACADEMIA SINICA

中国·兰州

LANZHOU, CHINA 730000

Phone: 21068

Tel. 6347

January 27, 1992

Dr. Alfred Traverse  
435 Deike Building  
University Park, PA 16802  
U.S.A.

Dear Dr. Traverse:

Thanks for your letter dated 20 December. I am glad to learn about your sabbatical leave. I wish you and Betty a very happy vacation in Germany. Also, I am pleased to learn that you intend to visit China next year. I will do my best to support your research plan on spore/pollen in the river-water.

I hope we can carry out a cooperative project on the Lower Permian palynology of the Tarim Basin of China in your laboratory from August to September this year. If you agree with me, the time of my visiting U.S.A. will be decided upon from May to October. A formal letter of invitation from you for six-month-visit from May to October this year is required for my visa. I plan to stay with my two daughters in Norfolk, before you return to State College. My daughter, Jiang Wei, has been teaching 3 courses of computer sciences in Norfolk State University since 1989. Her younger sister, Jing Wei, is an undergraduate student of Virginia Wesleyan College ---- she is supported by her uncle Benjamin Wei. They said they would like to help me do something about my work, for example, typing.

Junchao is still busy with the Sino-Japanese cooperative project on remote sensing. He gives his best regards to you and Betty.

With best wishes.

Very truly yours,



Dexin Jiang

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

20 December, 1991

JIANG Dexin  
Lanzhou Institute of Geology  
Chinese Academy of Sciences  
Panxuan Road  
Lanzhou, Gansu 730000  
People's Republic of China

Dear Dexin:

Your interesting paper with the excellent photos (how printing quality in China has improved!) came recently.

I would be most happy to have you here, but the time frame you suggest won't work. Betty and I will be on sabbatical in Germany from 27-XII-91 to more or less 1-VIII-92. Therefore, before I can extend the invitation you need, we have to get the time "sorted out!"

Also, I'd like to say that we have not given up the idea of visiting China. One possibility that occurs to me is in connection with the International Botanical Congress in Japan, summer of 1993. I still have interest in the river-water sampling and have some new ideas.

We reciprocate the good wishes for 1992 to you and yours, especially our friend, Jungchao. We were too preoccupied with getting ready to go to Germany to send out greetings this year! (In addition, I spent most of November in India.)

Yours very truly,

Alfred Traverse

AT/et

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

23 January, 1991

Dr. Jiang Dexin  
Lanzhou Institute of Geology  
Chinese Academy of Sciences  
Panxuan Road  
Lanzhou, Gansu 730000  
People's Republic of China

Dear Dexin:

Thanks for the very nice New Year's card, and your most interesting letter. Your trip to Japan sounds like a great experience.

1990 was a difficult year for me. The biggest problem was the collapse in May and eventual death in October of my Mother. She was 98, and her death was not a tragedy, but the whole thing was hard on us all.

I feel very guilty that I have never brought to fruition our various plans for cooperation, nor visited China! I have not given up, although at the moment I am not in a position to carry our projects forward. We join in wishing you and Jungchao all the best.

Yours very truly,

Alfred Traverse

AT/et

中国科学院兰州地质研究所

LANZHOU INSTITUTE OF GEOLOGY, ACADEMIA SINICA

中国·兰州

LANZHOU, CHINA

Phone: 21068

Tel. 6347

January 6, 1991

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

Dear Dr. Traverse:

Haven't written to you for a long time. The only reason is that I was really busy with work in the past year. I worked in the field with Japanese geologists and Chinese colleagues in the Tarim Basin in September and October, and went to Tokyo for the joint petroleum research project in December. Now I have just returned home.

The enclosed is a reprint of mine. I am very sincerely grateful to you for all of your help. I hope to get your comments and advice.

May the year 1991 find all your family in the best of health and spirits, and may it brighten your prospects wherever you go.

Very truly yours,



Dexin Jiang

中国科学院兰州地质研究所

LANZHOU INSTITUTE OF GEOLOGY, ACADEMIA SINICA

中国·兰州

LANZHOU, CHINA

Phone: 21068

Tel. 6347

October 5, 1989

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

Dear Dr. Traverse:

Thanks for yours of 29 August. I was out when it arrived.

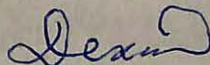
I have recommended your new book to my colleagues and several libraries of China. I am sure some of them will buy it.

I will go to North Korea to visit the Institute of Petroleum Geology, the Academy of Sciences of Korea next week and will be back next month.

You are welcome to China any time. I hope you will come next year.

Best wishes to you and Betty.

Very truly yours,



Dexin Jiang

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

29 August, 1989

JIANG Dexin  
Lanzhou Institute of Geology  
Academia Sinica  
Lanzhou, Gansu 730000  
People's Republic of China

Dear Dexin:

Thanks for yours of 15 August and the reprint about your favorite subject! Glad you liked the book--it has some errors, which I hope to correct in a second edition. I hope PRC will buy some copies to help make that possible!

I hope the long-planned trip to China will yet occur some day. I haven't given up!

Best to Jungchao.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et

中国科学院兰州地质研究所  
LANZHOU INSTITUTE OF GEOLOGY, ACADEMIA SINICA

中国·兰州  
LANZHOU, CHINA

Phone: 21068  
Tel. 6347

August 15, 1989

Dr. Alfred Traverse  
435 Deike Building  
University Park, PA 16802  
U.S.A.

Dear Dr. Traverse:

Many thanks for your wonderful new book. The parcel arrived safely last week.

Your new textbook on paleopalynology is the best one I have ever known. Let me offer my most sincere congratulations upon your success. Also, allow me to congratulate my dear friend Betty ---- your success involves hers.

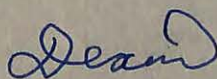
I have always had a great admiration for you and your works. Your new book must be very helpful for palynologists in China. So I intend to translate the new book into Chinese. Although both time and money are problems, I will do my best to fulfil my will.

I was glad to read the paragraph "Palynomorphs in Petroleum" in your book.

The enclosure is an offprint of my new paper.

With best wishes to you and Betty.

Yours very truly,



JIANG Dexin

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

11 April, 1989

Dr. Jiang Dexin  
Lanzhou Institute of Geology  
Chinese Academy of Science  
Panxuan Road, Lanzhou, Gansu  
People's Republic of China

Dear Dexin:

Yours of 26 March received just before I leave for 1)Michigan, to care for my mother and 2)Europe, to attend a couple of meetings.

I had seen the application material for Mr. Feng Sun, as the Committee wanted my opinion. I am sure Mr. Sun is a talented man, and I would be willing to work with him. There are, however, problems about his admission. First of all, on paper his college grades don't look competitive with other applicants. I took the transcript to a couple of PRC students here, who told me that in China a B-average is pretty good. I wrote my recommendation on that basis, but I fear I can't convince the Committee. Second, his GRE scores are only average--would be o.k. if the grades were higher, but these GRE scores don't help his grades. Third, the recommendation letters seem to stress the candidate's working characteristics, not his native ability, and this particular committee (mostly geochemists) is not impressed. Fourthly, and most important, is that I don't have a grant at present and, thus, Mr. Sun's support might ultimately be a responsibility of the department. If I were able, as I sometimes have been, to go to the Committee with assurance that I'd have the \$ for, say, three years' support for Mr. Sun, he'd perhaps be admitted. But I can't do that. As I say, my recommendation was good, but I'm not on the Committee, and they would only listen if I had had support money. I do hope you'll understand.

As I've previously written, I greatly appreciated the year-of-the-bull medallion. I took George Tseo out to lunch, to hear about Lanzhou matters. We went to the Canton Restaurant, which you'll remember (It's all right" )!

Please let me know more about the possible trip to China. I think various of the Chinese paleobotanists-palynologists might like to hear about my ideas discussed at Berlin IBC, Brisbane IPC, and about which I am going to talk in Switzerland and Germany in the coming weeks (reprint enclosed). Perhaps also our current Devonian and Triassic work is worth a couple of lectures. And, of course, there is still the question of looking at the water of the Yangtze before it is utterly dammed(!). The trouble will be fitting such a trip into the schedule here--what months were you thinking of? I should get the proposal into the works again.

The reprints were most welcome. You seem really to be getting to the bottom of the palynomorphs-in-oil question! You also have obviously been very busy with other matters. I especially enjoyed the Pleistocene paper.

Under separate cover I am sending you a copy of my palynology text.

All the best.

Yours very truly,



Alfred Traverse

AT/et  
encl: reprint

中国科学院兰州地质研究所  
LANZHOU INSTITUTE OF GEOLOGY, ACADEMIA SINICA

中国·兰州

LANZHOU, CHINA

Phone: 21068

Tel. 6347

March 26, 1989

Dr. Alfred Traverse  
435 Deike Building  
University Park, PA 16802  
U.S.A.

Dear Dr. Traverse:

I would like to recommend Mr. Feng Sun to enter your Laboratory as a graduate student for Master and Ph.D. degrees. Mr. Sun graduated from the Department of Geology, Lanzhou University in 1984. Then he was admitted into Lanzhou Institute of Geology, Academia Sinica as a graduate student of mine for Master degree. By studying very hard, he distinguished himself as one of the top students in the institute, and received Master degree awarded by Beijing Institute of Geology, Academia Sinica in 1987. Since 1987 he has been a member of my Laboratory.

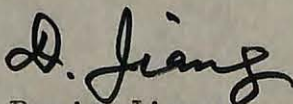
Mr. Sun is an excellent student ---- clever, capable, motivated and conscientious. He is a reliable young man with a pleasing and cooperative personality. With his academic ability and experience, he is competent in teaching assistant or research assistant. I am sure he will be able to accomplish his study, if he is admitted into your Laboratory and under your guidance.

Mr. Sun sent his application and other material to the Coordinator of Graduate Programs, Department of Geosciences, Penn State in January.

I am enclosing his TOEFL examinee's score record and GRE report of scores herewith.

Best wishes.

Very truly yours,



Dexin Jiang  
Head of Palynological Laboratory  
Associate Professor of Palynology

中国科学院兰州地质研究所  
LANZHOU INSTITUTE OF GEOLOGY, ACADEMIA SINICA

中国·兰州  
LANZHOU, CHINA

Phone: 21068  
Tel. 6347

March 27, 1989

Dr. Alfred Traverse  
435 Deike Building  
University Park, PA 16802  
U.S.A.

Dear Dr. Traverse:

I am very glad to see your photograph in the new PALYNOS. Also I was so glad to hear that your new book was out.

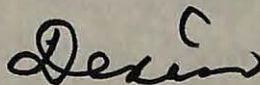
I have proposed an application for your visiting China this year. As soon as it is approved, I will tell you. And I hope you can come this time.

George Tseo returned home last December. I asked him to bring a small gift to you. That means Long live and Lucky. I hope you like it.

I am enclosing 3 off-prints of my papers herewith. Please give me your advice.

Best Wishes

Very truly yours,



Dexin Jiang



# GRE REPORT OF SCORES

Your GRE scores have been sent to the authorized recipient at each institution or fellowship sponsor listed below.

INSTITUTION OR FELLOWSHIP SPONSOR	INST. CODE	DEPT. CODE	REPT. CODE
UI CHINA INTERNATIONAL EXAMINATI	0744		2
GI PENNSYLVANIA ST UNIV UNIV PAR	2660	0506	2
GI STANFORD UNIVERSITY	4704	0504	2
GI UNIV ARIZONA	4832	0506	2
GI UNIV NEW MEXICO	4845	0504	2

## SCORES REPORTED (REPT. CODE)

1 OF 1

- 1 = All scores were reported to the recipient named.
- 2 = Only General Test scores were reported.
- 3 = Only Subject Test scores were reported.
- 4 = No scores reported (U.I. only)

If the REPT. CODE box shows a "2" and you have no General Test scores, or a "3" and you have no Subject Test scores, a score report has NOT been sent to the recipient whose name and code number appear on that line.

1210-872

FENG SUN  
DONG GANG XI LU 198  
LAN ZHOU  
PEOPLE'S REP OF CHINA

GI = Graduate institution or fellowship sponsor  
UI = Undergraduate institution

Your GRE score record is printed below. See the reverse side for an explanation of your MOST RECENT GENERAL TEST and/or SUBJECT TEST scores. The PREVIOUS GENERAL TEST and SUBJECT TEST areas show all scores on record since 10/1/83. If you asked to have scores reported that are not part of this record because of their age, the mailing of these scores will be acknowledged separately.

MOST RECENT		PRINT DATE
TEST DATE	REGISTRATION NUMBER	
02-89	1210-872	03/04

BATCH NUM.-GEN: 8510-0056

SUB:

MOST RECENT GENERAL TEST																
TEST DATE		VERBAL	BELOW	RIGHTS	WRONGS	OMITS	QUANTITATIVE	BELOW	RIGHTS	WRONGS	OMITS	ANALYTICAL	BELOW	RIGHTS	WRONGS	OMITS
02	89	400	28	33	43	00	680	78	49	11	00	480	37	24	26	00

THIS REPORT IS NOT VALID FOR TRANSMISSION OF SCORES TO AN INSTITUTION.

MOST RECENT SUBJECT TEST											
TEST DATE		CODE	SCORE	BELOW	SS1	SS2	SS3	RIGHTS	WRONGS	OMITS	FORMULA SCORE

### SUBJECT TEST CODES

- 24 Biology
- 27 Chemistry
- 29 Computer Science
- 31 Economics
- 34 Education
- 37 Engineering
- 44 French
- 46 Geography
- 47 Geology
- 52 German
- 57 History
- 64 Literature in English
- 67 Mathematics
- 71 Music
- 74 Philosophy
- 77 Physics
- 79 Political Science
- 81 Psychology
- 87 Sociology
- 91 Spanish

PREVIOUS GENERAL TEST							
TEST DATE		VERBAL	BELOW	QUANTITATIVE	BELOW	ANALYTICAL	BELOW

PREVIOUS SUBJECT TEST								SUBSCORES		
TEST DATE		CODE	SCORE	BELOW	SS1	SS2	SS3			

SUBJECT TESTS WITH SUBSCORES			
Test Codes	Test Names	Subscore Numbers	Subscore Names
24	Biology	1)	Cellular and Subcellular Biology
		2)	Organismal Biology
		3)	Population Biology
37	Engineering	1)	Engineering
		2)	Mathematics Usage
44	French	1)	Interpretive Reading Skills
		2)	Literature and Civilization
46	Geography	1)	Human Geography
		2)	Physical Geography
47	Geology	1)	Stratigraphy, Sedimentology, Paleontology and Geomorphology
		2)	Structural Geology and Geophysics
		3)	Mineralogy, Petrology, and Geochemistry
57	History	1)	European History
		2)	United States History
* 71	Music	1)	Theory of Music
		2)	History of Music: Medieval-Baroque
		3)	History of Music: Classical-Twentieth Century
81	Psychology	1)	Experimental Psychology
		2)	Social Psychology
91	Spanish	1)	Interpretive Reading Skills
		2)	Peninsular Topics
		3)	Spanish-American Topics

\* Music Test scores earned before October 1985 will include only two subscores, Theory of Music, History of Music.

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

13 March, 1989

Dr. Jiang Dexin  
Lanzhou Institute of Geology  
Chinese Academy of Sciences  
Panxuan Road  
Lanzhou, Gansu, PRC

Dear Dexin:

George Tsao brought me the marvellous zodiacal medallion. In American slang "bull" has many meanings, mostly pejorative. However, one meaning is for persons who make money in the stock market on rising stock prices. To be a "bull" or "bullish" is in this way very complimentary! I really like that idea. Thank you very much!

I feel bad that a trip to China has not materialized. We did get to Australia last summer for IPC, and we're going to Germany, Switzerland and Austria this summer. But those are comparatively short-time trips which could be easily interrupted. The problem is continuing responsibility for our two very old mothers. Mine is now in her 97th year and still in her own home!

However, if my health holds up, I'm still determined to visit China some year! Best to Junchao and you from us both.

As ever.

Yours very truly,

Alfred Traverse

AT/et

中国科学院兰州地质研究所

LANZHOU INSTITUTE OF GEOLOGY, ACADEMIA SINICA

中国·兰州

LANZHOU, CHINA

Phone: 21068

Tel. 6347

March 30, 1988

Dr. Alfred Traverse  
435 Deike Building  
University Park, PA 16802  
U.S.A.

Dear Dr. Traverse:

Thank you so much for your reprints and your letter of 14 March. The former departed on September 23, 1987 and arrived on March 25, 1988; the latter was sent from Hong Kong and reached me yesterday.

It is a pity that several serious problems prevent you from coming to China this year. However, I am glad to learn that you will propose the project on palynomorphs in water of the Yangtze River and deal with the problem next year. I will certainly do my best to accomplish our co-operation.

May your mother and Betty's mother live a long and joyful life.

Looking forward to seeing you and Betty in Australia.

Junchao sends his best regards to you and yours.

All my best wishes.

Very truly yours,



JIANG Dexin

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

14 March, 1988

Dr. Jiang Dexin  
Lanzhou Institute of Geology  
Chinese Academy of Sciences  
Panxuan Road  
Lanzhou, Gansu  
People's Republic of China

Dear Dexin:

Your kind letters of 12 February and 1 March have both reached me, and George Tseo has been by to talk to me also.

I am sorry that I've been so uncommunicative lately. I am sure you realize that the reason has been not lack of concern for you--I have the highest respect for both you and your esteemed husband.

The problem has been related to

1) difficulties with both Betty's mother and my mother, which have required us to travel repeatedly to the center of the country, when we could otherwise have been making scientific progress here at PSU. In addition, one of our daughters and her baby arrived in town last year, and we have had to spend much time helping them.

2) I have had increasingly heavy teaching responsibilities. For example, I have had to develop a paleobotany course this year--something I've never before taught.

3) Various research and writing projects with high priority have made unexpectedly heavy demands on my time.

We are planning to attend 7IPC and IOP in Australia in August, 1988. That will require us to be out of the country for the first ten days of the Fall Semester (which starts in mid-August).

Therefore, I reluctantly conclude that despite the CAS' deadline, I could not possibly also plan to visit China in 1988. However, I am still hoping to follow through with you on the project on palynomorphs-in-the-water of the Yangtze River, and I'll propose that for summer, 1989. I hope we can then get the CAS to change its mind, but I'll have to deal with that problem later.

I also realize that I have never found time to work on the MS material you left with me--I haven't forgotten, and I still hope to do it "some day". I'm sorry about the disappointment I probably am for you!

All the best to Jungchao.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et

中国科学院兰州地质研究所

LANZHOU INSTITUTE OF GEOLOGY, ACADEMIA SINICA

中国·兰州

LANZHOU, CHINA

Phone: 21068

Tel. 6347

March 1, 1988

Dr. Alfred Traverse  
435 Deike Building  
University Park, PA 16802  
U.S.A.

Dear Dr. Traverse:

I have just received your letter dated 7 February. Many thanks for your kind season's greetings. Thanks are also for telling me interesting news about you and yours.

I sent you a letter on 12 February. In the letter I told you that my proposal to invite you to visit our institute for three weeks this year has been approved. I hope you will come and hope to begin our Yangtze River project.

Dr. George Tseo has obtained a postdoctoral position in Lanzhou Institute of Desert Research, Academia Sinica. I think he will come soon. He will be the best interpreter for us and I am sure he will be pleased to help us. So I hope you can be here this year.

I am looking forward to your reply.

Best wishes to you and Betty.

Junchao send his regards to you and yours.

Very truly yours,



JIANG Dexin

cc: Dr. George Tseo

中国科学院兰州地质研究所  
LANZHOU INSTITUTE OF GEOLOGY, ACADEMIA SINICA

中国·兰州

LANZHOU, CHINA

Phone: 21068

Tel. 6347

February 12, 1988

Dr. Alfred Traverse  
435 Deike Building  
University Park, PA 16802  
U.S.A.

Dear Dr. Traverse:

I am glad to tell you that my proposal to invite you to visit our institute for three weeks has been approved once more by the Chinese Academy of Sciences. I was warned that the invitation could not be deferred to the next year. So I hope you will come this year at your convenience.

An international symposium on sedimentology will be hold in Beijing from July 30 to August 4 this year. Perhaps Dr. E. I. Robbins will come to attend the meeting. I intend to present a poster contribution for the meeting. Still I plan to attend the 7th IPC in Australia. And I hope the project about pollen and spores in water of the Yangtze River will be able to start this year. Will you please tell me something about your arrangements in 1988 ?

I look forward to your reply.

All my best wishes.

Yours very truly,



JIANG Dexin

*blind copy sent  
to George Tseo*

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

12 March, 1987

Dr. Jiang Dexin  
Lanzhou Institute of Geology  
Chinese Academy of Sciences  
Panxuan Road, Lanzhou, Gansu  
People's Republic of China

Dear Dexin:

Thanks for yours of 14 February. It came during our (so-called) "Spring" break. We used the time to visit my mother in Michigan and celebrate her 94th birthday. She is fine and still lives in her own home. We also visited Betty's mother in the hospital in Indiana--she is not so good--mostly discouraged and depressed. Betty appreciated the condolences.

Thanks for the vitae for you and Professor Yang. Just what I needed. I was hoping, however, that you'd have some additions, corrections, or comments on the proposal itself. In their absence I must assume you thought it o.k. I am revising it some, adding your and Professor Yang's vitae, as well as mine, and will be submitting it soon.

Best wishes. Best regards to Junchao.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et

19 January, 1987

Dr. Jiang Dexin  
Lanzhou Institute of Geology  
Chinese Academy of Sciences  
Panxuan Road  
Lanzhou, Gansu,  
People's Republic of China

Dear Dexin:

Have just been in touch with the National Science Foundation ("NSF"), which is the U.S. government agency that would have to fund the sort of project we have in mind. The people at NSF encourage me to submit a proposal for support of the project, which is not to say that the proposal will be successful, i.e. funded. I have failed to get support for proposals a number of times--it's a competitive business, and success or failure depends largely on the quality and number of competing proposals, plus imponderable factors.

The person who is in charge of the "China desk" says that I can request dollars for: 1) my travel, 2) supplies and 3) living and research costs while in China. (The gasoline water-pump, filters, etc., needed are not technically allowable, but the amount of money is small enough that the "China desk" thinks I can include it under "supplies" without going into detail. However, they warn me that they cannot pay field laboratory or travel expenses for others in China.

Regarding the modern pollen to be encountered in the study: they will represent in my experience a surprisingly small number of taxa, and identification of them can best be investigated after the results of the water-study start coming in, so that we can see what the major contributing plants are.

Collecting the water samples is a very simple matter, if one has a small boat available. What I do is to go by public transportation to the places where I need to sample, rent a boat for 1/2 day, collect the samples and either ship them off or do preliminary processing on the spot if facilities are available.

So, I'll put together a proposal and submit it to NSF. I'll send you informally a copy of the proposal, so you can see what's going on.

All the best.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et

13 November, 1986

Dr. Jiang Dexin  
Lanzhou Institute of Geology  
Chinese Academy of Sciences  
Panxuan Road  
Lanzhou, Gansu, PRC

Dear Dexin:

How nice to hear from you, per yours of 24 October!

I am glad that you agree that the pollen-in-the-water project is a good one. I have a lot of experience with it (though little as yet published), and I should be involved in design of the sampling program. I also have considerable "know-how" as to the best ways to collect and process the water samples.

I believe that funding from the U.S. government for my part of this is possible but I need advice from you as to what you think I should propose: money for travel to China, of course, Perhaps also money for the basic water-pumping and processing equipment we need (which is cheap and readily available here). I suppose your Academy of Science could provide the boats necessary (they are only needed for a few hours each time), etc.? But please let me know exactly what you have in mind. I would think perhaps I should for now try to get \$ for the visit, and for the basic equipment, so that I could demonstrate what to do, and help with design of the sampling program, leaving the equipment with you for further sampling. Let me have your reaction to this as soon as possible. I will, however, contact some of our government people immediately.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et

22 August, 1986

Dr. Jiang Dexin  
Lanzhou Institute of Geology  
Chinese Academy of Sciences  
Panxuan Road  
Lanzhou, Gansu, PRC

Dear Dexin:

Thanks for yours of 21 July. We appreciated your good wishes very much.

Wouldn't it be marvellous to do a study of the Yangtze River pollen?! There is a study of the palynomorphs of the sediment in the literature (Wang, K., Y. Zhang & Y. Sun, 1982: Acta Geog. Sinica 37:3, 261-271), which is always helpful.

The literature in the field is very scanty. Traverse & Ginsburg, 1966: (Marine Geology 4, 417-459) studied pollen in water of Grand Bahama Bank; my student, Martin B. Farley, has a study of the Caribbean in press in Micropaleontology (copy of MS enclosed). Federova studied the Volga a bit (see Farley's bibliography), and Groot (also in Farley's bibl.) studied Delaware Bay, eastern USA. I have a nearly complete study of Trinity River and Bay, Texas (not published as yet), and I probably have the most experience in the field of anybody. I have a very good grasp of the questions of how to collect samples (small gasoline pump) and how to process the water collected (filtration on silica filters, HF processing), etc. Perhaps I could also propose this to an American funding source, as a way of partially financing a visit to China?

Looking forward to hearing more and with best wishes from us both to you and Yungchao, I am

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et  
encl: copy of Farley MS

中国科学院兰州地质研究所

LANZHOU INSTITUTE OF GEOLOGY, ACADEMIA SINICA

中国·兰州

LANZHOU, CHINA

Phone: 21068

Tel. 6347

July 21, 1986

Dr. Alfred Traverse  
435 Deike Building  
University Park, PA 16802  
U.S.A.

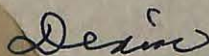
Dear Dr. Traverse:

Thank you very much for yours of 7 June. It is with great pleasure that I hear of the happy news of your daughter's wonderful wedding. I wish the bride and bridegroom happiness, and I trust that their marriage will be a source of blessing and happiness to them.

A seasonal study of pollen and spores in the water of the Yangtze river is an interesting palynological project. It is important and useful. I would like to co-operate with you and to do my best to make your thought become true. I think it is possible to collect the water samples from some representative localities of the Yangtze river in different seasons respectively. The only difficulty is to get money. I intend to apply the national science fund for the project. Perhaps it is an available way to get the necessary money. References in this field will be helpful for the application.

Best wishes to you and yours.

Very truly yours,



JIANG Dexin

7 June, 1986

Dr. Jiang Dexin  
Lanzhou Institute of Geology  
Chinese Academy of Sciences  
Panxuan Road  
Lanzhou, Gansu  
People's Republic of China

Dear Dexin:

Many thanks for yours of 14 May. It came while we were away on the latest family business--our younger daughter's surprise wedding.

The problems with Betty's parents will not get better--her father is permanently in the hospital as a result of strokes and general debility. We can only visit and try to see to it that they're well cared for.

If it were possible to arrange, I can think of some important palynological projects that I could do in China. One would be a seasonal study of pollen/spores in the water of a principal river, perhaps the Yangtze. I have such a study of the Trinity River, Texas, in the course of preparation. Very interesting results. I also hope we can visit you. Finding the necessary money is a major difficulty.

Your paper arrived, and I've passed the copy for Ron Litwin on to him. He now has completed the Ph.D. requirements and has begun to work for the U.S. Geological Survey, Reston, Virginia. It is a very good job.

Best wishes.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et

中国科学院兰州地质研究所

LANZHOU INSTITUTE OF GEOLOGY, ACADEMIA SINICA

中国·兰州

LANZHOU, CHINA

Phone: 21068

Tel. 6347

May 14, 1986

Dr. Alfred Traverse  
435 Deike Building  
University Park, PA 16802  
U.S.A.

Dear Dr. Traverse:

Thank you for yours of 10 April.

I am sorry that you cannot come this year. But it is possibly available to defer my invitation to the next year. I will do my best to make your visit be accomplished. Lectures about your current research projects are most welcome. I hope you can come next year.

I am looking forward to reading your new book and I hope our papers will be published as soon as possible. When you come here, you will find that some significant research projects might be proposed for our co-operation. A reprint of my recent paper is sent separately. I ask advice of you.

I certainly was sorry to hear that Betty's father was in hospital. I would like to know how he is getting on now, and I sincerely hope he will soon recover his health.

Best wishes to you and Betty.

Very truly yours,

*D. Jiang*  
JIANG De-xin

10 April, 1986

Dr. JIANG Dexin  
Lanzhou Institute of Geology  
Academia Sinica  
Lanzhou, China

Dear Dexin:

Many ~~hhahs~~ thanks for yours of 24 and 25 March. We are sorry that the calendar arrived so late. It was our intention to send it air mail, and I thought we had--about 30 November, 1985!

Regarding the formal invitation to visit China: I am, of course, very honored. When and if the time comes, the lecture topics you suggest should be reevaluated. 1 & 2 seem all right, but I believe 3 would be better changed to something about one of my current research projects, for example, the sedimentation of palynomorphs. We can look at all that again later. I realize that the list was only a suggestion.

However, 1986 does not seem like a good year for the visit. Mostly this has to do with family problems. Betty's parents had to be moved to a nursing home in May, 1985. Her father is now worse and is in a hospital. He will presumably never come out of it alive. In March we had to move Betty's mother again. The whole situation is too unstable for us to leave the country. Raising the \$4500 to get us to Beijing is also a problem, but perhaps we'll have some ideas later. I have already discovered that funding from our government for such lecture tours is not available.

Anyway, I am hoping that the invitation could be ~~reinstated for 1987~~ date.

I'd also like you to know that I haven't forgotten about your papers! When my textbook is done, and a few other emergencies taken care of, I hope to get back to Dexin's papers!

Best to Junchao.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et

中国科学院兰州地质研究所

LANZHOU INSTITUTE OF GEOLOGY, ACADEMIA SINICA

中国·兰州

LANZHOU, CHINA

Phone: 21068

Tel. 6347

March 24, 1986

Dr. Alfred Traverse  
435 Deike Building  
University Park, PA 16802  
U.S.A.

Dear Dr. Traverse:

I am glad to tell you that our institute has decided to invite you to visit China and the decision has already been approved by the Chinese Academy of Sciences ( Academia Sinica ).

As a valid representative of Lanzhou Institute of Geology, Academia Sinica, I now send you a formal letter of invitation for three-week-visit at your convenience this year. Your visit will include visiting laboratories, giving lectures and field trips. Our institute will take the responsibility for your expenses for hotel, food and travelling during the three weeks when you stay in China.

I suggest that your lectures comprise the following contents:

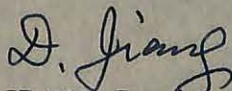
1. Current situation of researches on palynology;
2. Evolution of palynofloras and palaeoclimatic changes in geological history;
3. Palynological application for oil and gas exploration.

The contents of the lectures, however, will be decided by you yourself. The above contents are suggested only for your reference.

An early reply will greatly oblige.

Best wishes.

Very truly yours,



JIANG Dexin  
Head of Palynological Laboratory

中国科学院兰州地质研究所  
LANZHOU INSTITUTE OF GEOLOGY, ACADEMIA SINICA

中国·兰州  
LANZHOU, CHINA

Phone: 21068  
Tel. 6347

March 25, 1986

Dear Betty and Alfred:

Many thanks for your season's greetings and the nice gift. The small packet reached us this morning. In spite of a long way travelling, the beautiful calendar still maintains perfect.

We hope you will visit China this year.

With kind regards to your family.

Yours very truly,

*Dexin Junchao*  
Dexin & Junchao

# 中国科学院兰州地质研究所

LANZHOU INSTITUTE OF GEOLOGY  
CHINESE ACADEMY OF SCIENCES  
PANXUAN ROAD, LANZHOU, GANSU, CHINA

December 11, 1984

Dear Alfred & Elizabeth Traverse:

It gives us much pleasure to receive your lovely card and good wishes for Christmas and New Year. We thank you very much for the marvellous Calendar which you were kind enough to send us.

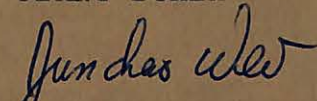
May this Christmas find you well and happy.

May peace and happiness be yours in the New Year.

Yours very sincerely,



JIANG Dexin

  
WEI Junchao

中国科学院兰州地质研究所

LANZHOU INSTITUTE OF GEOLOGY, ACADEMIA SINICA

中国·兰州

LANZHOU, CHINA

Phone: 21068

Tel. 6347

Dec. 4, 1985

Dr. Alfred Traverse  
435 Deike Building  
University Park, PA 16802  
U.S.A.

Dear Alfred:

Thanks for yours of 23 October, which came during my field investigation in Xinjiang.

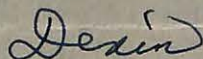
I am working on Early Cretaceous Palynomorphs from South Xinjiang.

I will look forward to seeing your nice textbook. I would like to learn and translate it into Chinese.

A Christmas card is sent separately. May this Christmas find you well and happy. May peace and happiness be yours in the New Year.

Best wishes to you and Betty.

Very truly yours,



JIANG Dexin

23 October, 1985

Dr. Jiang Dexin  
Lanzhou Institute of Geology  
Chinese Academy of Sciences  
Panxuan Road  
Lanzhou, Gansu  
People-s Republic of China

Dear Dexin:

Thanks very much for yours of 12 October, which came during my participation in the AASP convention at El Paso. Several people there asked about you, remembering your presence at the convention in Washington, DC, last year.

Sorry about your being unable to go to UK because of visa problems. I'll look forward to seeing your paper.

Betty and I hope the trip to China will one day materialize! It's like a dream. As you say, we certainly could do some good palynological things together. I am embarrassed to have made so little progress on the projects you left here with me. The truth is that until I finish my textbook, everything else stumbles along!

All the best. We are reminded of you constantly by the beautiful art work that adorns our home!

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et

P.S. Please call me "Alfred"!

# 中国科学院兰州地质研究所

LANZHOU INSTITUTE OF GEOLOGY  
CHINESE ACADEMY OF SCIENCES  
PANXUAN ROAD, LANZHOU, GANSU, CHINA

12 October, 1985

Dr. Alfred Traverse  
435 Deike Building  
University Park, PA 16802  
U.S.A.

Dear Dr. Traverse:

Thanks for your letter dated September 10. I was glad to learn that the Chinese postcards had attracted you. The Great Wall, the Palace Museum, the Summer Palace and the various places of interest and scenic spots of China are really attractive. I hope you and Betty will someday visit China.

I intend to invite you to visit our institute next year, if possible. I hope we can co-operate on the Mesozoic palynostratigraphic and palaeoclimatical investigations.

I lost a chance to attend the conference of "Lacustrine Petroleum Source Rocks" held in London last month, because the British visa was 3 days late. What a pity! Your student, Dr. E. I. Robbins attended the meeting.

My contribution for the meeting is titled "Spores and pollen as indicators of lacustrine source rocks". The proceedings of the meeting will be published by Blackwells next year.

Best wishes.

Very truly yours,



JIANG Dexin

10 September, 1985

Dr. Jiang Dexin'  
Lanzhou Institute of Geology  
Chinese Academy of Sciences  
Panxuan Road  
Lanzhou, Gansu  
People's Republic of China

Dear Dexin:

Many thanks for the packet of beautiful cards from China--what a fascinating country (long live Sino-American friendship!).

It was kind of you to remember my birthday. It is hard to believe I am now 60 years old! And to think that my mother was able to phone me on the occasion (she was 33 when I was born).

All the best to you and Junchao.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et

# 中国科学院兰州地质研究所

LANZHOU INSTITUTE OF GEOLOGY  
CHINESE ACADEMY OF SCIENCES  
PANXUAN ROAD, LANZHOU, GANSU, CHINA

August 18, 1985

Dr. Alfred Traverse  
435 Deike Building  
University Park, PA 16802  
U.S.A.

Dear Dr. Traverse:

Thanks for yours of 1 August. I was very glad to hear that you had eventually received the book from Dr. Hstü Jen.

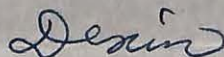
Your birthday is coming. Allow me to congratulate you with all my heart. I wish you many happy returns of the day. May you live a long and joyful life.

The accompanying gift I send you is a token of my sincere wishes for your success and happiness.

Best wishes to you and Betty.

Junchao sends his best regards to you and yours.

Yours very truly,



JIANG Dexin

1 August, 1985

Dr. Jiang Dexin  
Lanzhou Institute of Geology  
Chinese Academy of Sciences  
Panxuan Road  
Lanzhou, Gansu  
People's Republic of China

Dear Dexin:

Many thanks for yours of 14 July. (The stamp was beautiful!) The book from Dr. Hsi Jen came o.k., and I've had slides for teaching made from it already!

Best to Jungchao.

Yours as ever,

Alfred Traverse  
Professor of Palynology

AT/et

# 中国科学院兰州地质研究所

LANZHOU INSTITUTE OF GEOLOGY  
CHINESE ACADEMY OF SCIENCES  
PANXUAN ROAD, LANZHOU, GANSU, CHINA

14 July, 1985

Dr. Alfred Traverse  
435 Deike Building  
University Park, PA 16802  
U.S.A.

Dear Dr. Traverse:

Thanks for your letter of 22 May and also for the AASP field trip slides.

When your letters arrived, I was in South China on business. The letters had been lying on my desk before I returned on Friday. Now the first thing I must do is to write these few lines to express my deep regret to you.

Dr. Hsu Jen answered me that his secretary had no sooner sent the book to you than he received my letter for getting the book. I do not know why you have not received it yet. Perhaps the secretary sent it by sea mail. I hope it will arrive at Penn State in safety.

Best wishes to you and Betty.

Yours as ever,



Jiang Dexin

22 May, 1985

Dr. Jiang Dexin  
Lanzhou Institute of Geology  
Chinese Academy of Sciences  
Panxuan Road  
Lanzhou, Gansu  
People's Republic of China

Dear Dexin:

Thanks for yours of 27 April, 1985.

I am sure Dr. Gold will appreciate the invitation to visit Lanzhou.  
What an experience! I hope we can make it when "our number comes up".

Best wishes to you and Jungchao.

Yours as ever,

Alfred Traverse  
Professor of Palynology

AT/et

# 中国科学院兰州地质研究所

LANZHOU INSTITUTE OF GEOLOGY  
CHINESE ACADEMY OF SCIENCES  
PANXUAN ROAD, LANZHOU, GANSU, CHINA

April 27, 1985

Dr. Alfred Traverse  
435 Deike Building  
University Park, PA 16802  
U.S.A.

Dear Dr. Traverse:

Thank you for yours of 18 March and 8 April.

I am glad to know that you have processed the 3 samples from North Tibet. Perhaps you will discover some new types. I am sure you will soundly make up for lack for the manuscript.

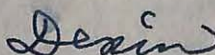
I have written to Dr. Hsu and his student to inquire for the book you wanted. Maybe they are too busy to send it, but you will certainly get it.

The actual date of publication of Lujin Zhang's "Late Triassic spores and pollen from central Sichuan" is April, 1984. I will send you the book as soon as possible.

Dr. David P. Gold will be invited to visit our institute this summer. We intend to invite you to visit China next year.

All my best wishes to you and your family.

Yours very truly,



JIANG Dexin

18 March, 1985

Dr. Jiang Dexin  
Lanzhou Institute of Geology  
Chinese Academy of Sciences  
Panxuan Road, Lanzhou, Gansu  
People's Republic of China

Dear Dexin:

Thanks for yours of 11 February, which arrived recently.

The materials you mentioned had all come. I will get to them as soon as possible (things are always hectic here, as you had an opportunity to observe)). The three samples from North Tibet have now been processed and are (as you knew) richly ~~pay~~ myriophorous!

The book from Hsu Jen has not yet come but presumably will. I am more than willing to get American publications for you--just let me know what you need.

Thanks for the greetings from Shi Yafeng (12 Dec.'84), and, of course from you and Junchao at Christmas-New Year. I may have failed to respond.

Your visit is remembered by us with great fondness, especially your wonderful sense of humor.

Betty and I are o.k. We expect a third grandchild now. Betty's parents are not well and are a grave concern to her. Betty will have to move them to a retirement home this summer.

Best regards to both you and Junchao.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et

# 中国科学院兰州地质研究所

LANZHOU INSTITUTE OF GEOLOGY  
CHINESE ACADEMY OF SCIENCES  
PANXUAN ROAD, LANZHOU, GANSU, CHINA

Feb. ~~January~~ 11, 1985

Dr. Alfred Traverse  
435 Deike Building  
University Park, PA 16802  
U.S.A.

Dear Dr. Traverse:

Thank you for your letter dated 16 January.

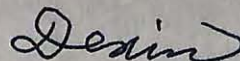
There were just 3 samples of North Tibet in the box. But I begin to worry about losing the other mails I sent you last December. I wonder if you have received the two envelopes of material I sent you on 8 December and on 10 December respectively. The former is about North Tibet and the latter is mainly about Talimu Basin.

Dr. Hsu Jen replied me that he would like to send you the book you wanted to get. I hope he has sent it to you.

I am enclosing 5 copies of the letters I sent you last December.

Best wishes to you and Betty.

Very truly yours,



Jiang Dexin

16 January, 1985

Dr. Jiang Dexin  
Lanzhou Institute of Geology  
Chinese Academy of Sciences  
Panxuan Road  
Lanzhou, Gansu, PRC

Dear Dexin:

Three rock samples came from you a few days ago, viz.:

1. No. W-196, Dingqing Fm., Hongxing, North Tibet
2. No. W-177, Dingqing Fm. (uppermost part), Hongxing, North Tibet
3. No. W-122, Niubao Fm., Niubao (North Tibet)

Unfortunately the box was damaged in shipment. However, these three samples are in 100% good order. Were there just 3 samples, or were some lost during the damaging of the box? Hope not!

Thanks very much.

Best from us both.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et

# 中国科学院兰州地质研究所

LANZHOU INSTITUTE OF GEOLOGY  
CHINESE ACADEMY OF SCIENCES  
PANXUAN ROAD, LANZHOU, GANSU, CHINA

December 12, 1984

Dr. Alfred Traverse  
435 Deike Building  
University Park, PA 16802  
U.S.A.

Dear Dr. Traverse:

I have just received your letter of 26 November.

I think I will be able to get the book by Hsü Jen and Wan Xiu-Qin. As soon as I get it, I will send you. Books are cheap in China. If you need to get any more Chinese books, please let me know.

If you buy American publications for me, please send me the receipt or bill.

Best wishes to you and yours.

Dr. Shi Yafeng, our vice-president sends his regards to you.

Very cordially yours,



JIANG Dexin

# 中国科学院兰州地质研究所

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LANZHOU INSTITUTE OF GEOLOGY  
CHINESE ACADEMY OF SCIENCES  
PANXUAN ROAD, LANZHOU, GANSU, CHINA

December 11, 1984

Dear Alfred & Elizabeth Traverse:

It gives us much pleasure to receive your lovely card and good wishes for Christmas and New Year. We thank you very much for the marvellous Calendar which you were kind enough to send us.

May this Christmas find you well and happy.

May peace and happiness be yours in the New Year.

Yours very sincerely,

*D. Jiang*  
JIANG Dexin

*Junchao Wei*  
WEI Junchao

# 中国科学院兰州地质研究所

LANZHOU INSTITUTE OF GEOLOGY  
CHINESE ACADEMY OF SCIENCES  
PANXUAN ROAD, LANZHOU, GANSU, CHINA

December 10, 1984

Dr. Alfred Traverse  
435 Deike Building  
University Park, PA 16802  
U.S.A.

Dear Dr. Traverse:

Last Saturday I sent you a mail to answer the questions about the paper of Tibet. I think you will receive it before Christmas.

I enclose herewith a columnar chart including the Zhangshan section, a map of Talimu Basin showing sample localities and a flow diagram showing method of extraction of spores / pollen from crude oil.

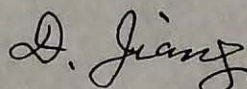
Fourteen to forty-two specimens of spores / pollen were found from per liter of crude oil sample in the Talimu basin.

Three samples from Tibet will be sent separately.

If I can answer any more questions about the papers, please tell me.

Best wishes, as ever.

Yours very truly,



JIANG Dexin

# 中国科学院兰州地质研究所

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LANZHOU INSTITUTE OF GEOLOGY  
CHINESE ACADEMY OF SCIENCES  
PANXUAN ROAD, LANZHOU, GANSU, CHINA

December 3, 1984

Dr. Lucy E. Edwards  
U. S. Geological Survey  
970 National Center  
Reston, VA 22092  
U. S. A.

Dear Dr. Edwards:

Many thanks for your nice letter of October 25, three copies of your reprints and the microscope slide which were sent by Dr. Traverse from State College. I have just received them in China.

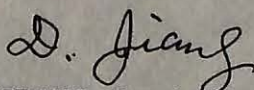
My pleasant visit in your country will always remain in my memory.

Thanking you again for your kindness.

I hope to see you again.

With best regards.

Yours very sincerely,

  
JIANG Dexin

cc: Dr. Alfred Traverse

# 中国科学院兰州地质研究所

LANZHOU INSTITUTE OF GEOLOGY  
CHINESE ACADEMY OF SCIENCES  
PANXUAN ROAD, LANZHOU, GANSU, CHINA

December 3, 1984

Dr. Alfred Traverse  
435 Deike Building  
University Park, PA 16802  
U.S.A.

Dear Dr. Traverse:

Thank you so much for your letter of 12 November and also for sending me Lucy's letter, reprints and slide.

I bought many Chinese postcards for you in Beijing and sent you a single card on 18 November. I returned home safe and sound on 28 November. Much to my regret I was unable to write you soon, because I had something urgent to deal with.

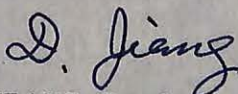
I send my warmest thanks for your kind reception and also for the good send-off you gave me. Although my visit was so short, it will longest remain vivid in my remembrance. My memory of you and Betty is one of the most delightful experience I have ever had. I would very much like to continue our friendship and co-operation.

I will send you the material which will be used in our papers as soon as possible.

With best wishes to you and Betty.

Junchao sends his regards to you and yours.

Very truly yours,

  
JIANG Dexin

26 November, 1984

Dr. Jiang De-xin  
Lanzhou Institute of Geology  
Chinese Academy of Sciences  
Panxuan Road  
Lanzhou, Gansu  
People's Republic of China

Dear De-xin:

Just saw notice of a new book by Hsu Jen and Wan Xiu-Qin, "Reconstruction of landscapes in the principal regions of China throughout geological time". Could you let me know how to obtain a copy? If you could get it and send it, and let me know the cost, I will send you something from here in exchange. Perhaps I would do this sort of thing on a regular basis.

Best wishes, as ever.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et

12 November, 1984

Dr. Jiang Dexin  
Lanzhou Institute of Geology  
Chinese Academy of Sciences  
Panxuan Road  
Lanzhou, Gansu  
People's Republic of China

Dear Dexin:

Just a hurried note to tell you not to bother to get the Ginkgo pollen for me. It turns out that a commercial source (\$3 per gram) exists in the U.S.

Hope your return went o.k. We miss you.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et

October, 1984

Jiang Dexin

Jan. 1981

江德新 一九八一年一月

江德新

于博斯·维拉特·詹

Jiang Dexin offer

江德新

于博斯·维拉特·詹

Seal

Dr. A. Traverso

于博斯·维拉特·詹



File on computer  
Jiang Dexin



Dr. Jiang's visit schedule, pg. 2

Tuesday, 23 Oct.            12:20 - 1:10 p.m. palynology lecture (337 Deike)

Wednesday, 24 Oct.        conference with A. Traverse

Thursday, 25 Oct.        10:10 - 11:00 a.m. palynology examination (no lecture)

                                 12:20 - 1:10 p.m. palynology practicum (418 Deike)

Friday, 26 Oct.            conference with A. Traverse

Saturday, 27 Oct.         Free day

Sunday, 28 Oct.            pack up to leave; late afternoon, go with Traverses to  
                                 their home for dinner and overnight.

Monday, 29 Oct.            8:30 a.m. depart for New York by train from Huntingdon  
                                 (near Traverses' home). Arrive New York City about  
                                 2:30 p.m. at Pennsylvania Station (34th St. & 8th Ave.;  
                                 train is called "Broadway Limited")

14 September, 1984

Dr. Jiang Dexin  
Lanzhou Institute of Geology  
Chinese Academy of Sciences  
Panxuan Road  
Lanzhou, Gansu, PRC

Dear Dr. Jiang:

Thanks for yours of 4-IX-84. I will immediately take care of registration for you for the AASP convention.

I just phoned the program chairman (Dr. Lucy Edwards) for the meeting, and she says that the program has already gone to the printer, and the paper-sessions are full in any event. It will therefore be impossible for you to present an oral paper. However, Dr. Edwards offers the possibility of your presenting your paper as a "poster-session". For this, one puts up diagrams, photos, etc., on a board (about 60x90 cm in size), and discusses this material with interested visitors, but now it is too late for this to be listed in the program. Dr. Edwards would announce your presence at the meeting and say that you are presenting a poster session titled so-and-so (whatever you tell her). I think it would be a good idea. If you want to do this, bring photos and diagrams with you, and we'll call Dr. Edwards when you arrive.

Best wishes.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et

# 中国科学院兰州地质研究所

LANZHOU INSTITUTE OF GEOLOGY  
CHINESE ACADEMY OF SCIENCES  
PANXUAN ROAD, LANZHOU, GANSU, CHINA

4 September, 1984

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

Dear Dr. Traverse:

Thank you for your nice letter of 22 August and the program for the AASP convention.

I will start for New York by CAAC 981 flight on 3 October and I will telephone you at once on my arrival in New York.

Thanks for advising me that I should attend the AASP convention with you. The program for the 1984 Arlington meeting shows that the contents of the meeting are plentiful and the field trip is interesting. I have decided to attend the convention including the field trip. If you are kind enough to pre-register for me, I will appreciate your help. I intend to present a paper titled "Pollen and Spores from Crude Oil of Talimu Basin, China" at the meeting, if it is possible to be scheduled for oral presentation.

As I have said, I will take some material from China to discuss with you and I will do my best to make our co-operation mutually profitable.

I am looking forward to seeing you.

Best wishes to you and Betty.

Very truly yours,

*Jiang Dexin*  
JIANG Dexin

cc: Dr. C. Wayne Burnham  
cc: Dr. David P. Gold

Lanzhou Institute of Geology  
Academia Sinica  
Lanzhou, Gansu  
P.R.C.

**Jiang Dexin**

Associate Professor  
Head of Palynological Laboratory

Office Phone: 27981 Lanzhou  
Home Phone: 27981-234 Lanzhou  
Telecable: 6347 Lanzhou

22 August, 1984

Dr. Jiang Dexin  
Lanzhou Inst. of Geology  
Chinese Academy of Sciences  
Panxuan Road  
Lanzhou, Gansu, PRC

Dear Dr. Jiang:

Thanks for yours of 7 August. I will be looking forward to your arrival, I guess in October. No problem about accommodations-- I have discussed the various possibilities with our mutual friend, Ben Yan.

I enclose a preliminary program for the AASP convention in October. You should plan to attend that with us. The only reason I didn't submit a preliminary registration for you is that I wasn't sure you would be here by 17 October. Perhaps you should even attend the field trip?

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et  
encl

# 中国科学院兰州地质研究所

LANZHOU INSTITUTE OF GEOLOGY  
CHINESE ACADEMY OF SCIENCES  
PANXUAN ROAD, LANZHOU, GANSU, CHINA

7 August, 1984

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

Dear Dr. Traverse:

Thanks for your nice letter of 25 July.

It is a pity that I cannot attend IPC in Calgary, but I am sure that you would like to help me to make up for the lose.


I will be very happy to accept your kind invitation this autumn. Of course I am delighted to stay longer, because that will benefit both my study and our co-operation. But I am sorry to say that it will be impossible to increase the financial support from the Chinese Academy of Sciences. My visit, however, can be prolonged beyond the 4 week limit, if I acquire the financial support from your university. I wonder whether I can get it from your program or not. Perhaps in half a year or longer we will be able to finish a research project together.

Thank you for taking care of my accommodations. When my departure date is confirmed, I will write you. And when I arrive in New York, I will phone you. I want to stay at a hotel nearby, for I have enough money to pay for it within the 4 weeks. ( If I deny myself to save up money, I must return the spare money to the Chinese Academy of Sciences and cannot use the money for my prolonged visit. ) Later on, if I get the financial support from your university, I will base my expenditure upon my income to rent a house to stay.

Best regards to you and Betty.

Junchao sends his best wishes to you and your family.

Very truly yours,

  
JIANG Dexin

cc: Dr. David P. Gold

THE PENNSYLVANIA STATE UNIVERSITY

DEIKE BUILDING

UNIVERSITY PARK, PENNSYLVANIA 16802

College of Earth and Mineral Sciences

Department of Geosciences

Palynological Laboratories

Area Code 814

863-3419

July 25, 1984

Dr. Jiang Dexin  
Lanzhou Inst. of Geology  
Chinese Academy of Sciences  
Panxuan Road, Lanzhou  
Gansu, Peoples' Republic of China

Dear Dr. Jiang:

It is good to have yours of 12 July, although I was sorry you are unable to attend IPC in Calgary, as that would have benefitted you professionally.

As I've frequently said, you are most welcome to visit here, but the shortness of your visit will be a real handicap. I will be teaching two courses in the Fall Semester, and I have many other duties, so it would obviously be better if you could stay longer. Nevertheless, I will do my best to be with you as much as possible.

Have a safe trip. Is there anything we should do for you on this end? For example, have you arranged a place to stay?

Best regards to your husband.

Yours very truly,

Alfred Traverse  
Professor of Palynology

/jlb

# 中国科学院兰州地质研究所

LANZHOU INSTITUTE OF GEOLOGY  
CHINESE ACADEMY OF SCIENCES  
PANXUAN ROAD, LANZHOU, GANSU, CHINA

12 July, 1984

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

Dear Dr. Traverse:

Many thanks for your very nice letter of 26 June and the IPC circular, which came earlier than I had expected.

Thank you for your suggestion about my attending the 6th International Palynological Conference in Calgary. I have the second circular and Dr. J. K. Lentini's letter, and my paper titled "Sporo-Pollen and Oil Source" is scheduled for oral presentation at 14:40, August 30 in room 145. It is with great regret that I have to tell you I cannot go to attend the conference. I hope I can attend the 7th Conference four years later.

Your laboratory is more attractive than the conference. I will be very pleased to visit there this autumn and I intend to go at the beginning of October. When the date of my departure is confirmed, I will tell you.

Now I am making preparations for my visit. In order to make the visit effective, I will take some of Jurassic and Cretaceous material from Xinjiang and Tertiary material from North Tibet to discuss with you. Likewise I would like to work on your stuff, if possible. I am sure it will be helpful for me. Frankly speaking, I hope I can acquire much more than the Turkish palynologist. I firmly believe that I will learn much experience and knowledge from you and that we will be able to make our co-operation mutually profitable.

I am looking forward to seeing you in October.

All the best.

Very truly yours,

*Jiang Dexin*  
JIANG Dexin

cc: Dr. David P. Gold

26 June, 1984

Dr. Jiang Dexin  
Lanzhou Institute of Geology  
Chinese Academy of Sciences  
Panxuan Road  
Lanzhou, Gansu  
People's Republic of China

Dear Dr. Jiang:

Thanks for your nice letter of 7 June--your written English is now really perfect!

You are, as I've said on several previous occasions, most welcome to visit our laboratory whenever you like. You're right, of course, that 4 weeks isn't really long enough to undertake a research project. On the other hand, we should be able to come up with something that would be mutually profitable. When Dr. Artüz from Turkey was here in 1979 for four weeks, we studied one species of Turkish Carboniferous spores by SEM. Perhaps you will want to bring some of your material? Or perhaps you'd rather work on our stuff. What age material?

Fall Semester (20 August-30 December) would be the best time, for numerous reasons. I will be at the International Conference in Calgary at the end of August, and several other foreign visitors are coming here after the meeting. From that point of view, it would be best for you to come for your 4 weeks during October-November (before winter weather sets in).

On the other hand, if your government is putting out the money to get you to North America, I would think it would make very much sense for you to attend the IPC in Calgary (26 August-1 September) enroute to Penn State. You likely would learn more in Calgary than you will here! The program sounds very good.

Looking forward to seeing you in a couple of months, I am as ever

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et  
cc: Dr. C. W. Burnham

# 中国科学院兰州地质研究所

LANZHOU INSTITUTE OF GEOLOGY  
CHINESE ACADEMY OF SCIENCES  
PANXUAN ROAD, LANZHOU, GANSU, CHINA

7 June, 1984

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

Dear Dr. Traverse:

I am glad to tell you that my plan for visiting America was eventually approved by the Chinese Academy of Sciences last month. I was informed that I can stay only four weeks in your laboratories because the financial support from the Chinese Academy of Sciences is limited. I will take some slides and data to discuss with you and I would like to co-operate with you. Four weeks' co-operation seems to be too short but it will be available for our further co-operation. I should be happy to go to your laboratories at whatever time you suggest.

*I suggested Oct. - Nov. 84*

I really appreciate all of your very nice letters about invitation to visit your palynological laboratories. I look forward to meeting you.

Please reply at your earliest convenience.

Best wishes to you and Betty.

Yours very truly,

*Jiang Dexin*  
JIANG Dexin

cc: Dr. Gold

*Welcome  
Dr. Jiang!*

# THE PENNSYLVANIA STATE UNIVERSITY

UNIVERSITY PARK, PENNSYLVANIA 16802

September 6, 1983

Office of  
Personnel Administration

**JIANG Dexin**

Lanzhou Institute of Geology  
Chinese Academy of Sciences  
Panxuan Road  
Lanzhou, Gansu  
THE PEOPLE'S REPUBLIC OF CHINA

Dear Mr. Jiang:

At the request of Professor Alfred Traverse, I am sending you this form known as a Certificate of Eligibility (Form IAP-66). This form when completed and signed by you should be presented to an American Consul. If approved, you will be permitted to enter the United States as an Exchange Visitor for the period 9/1/83 to 8/31/84. Your stay in the United States can be extended if you remain at the University beyond 8/31/84.

Before signing the IAP-66, please notice that the conditions that are applicable to Exchange Visitors are outlined on the back. This office will assist you if you have any need to contact the United States Immigration and Naturalization Service.

Enclosed you will find an application and instructions for obtaining a United States Social Security number. While in the United States you will need a Social Security number if you are to receive any money from the University, to open a checking account, to register for courses, to purchase a vehicle, etc. The University will not be able to appoint you until you have been issued a number. However, as an Exchange Visitor you will not be required to pay the Social Security Tax. Please review the instructions concerning the Social Security number so that a number can be available to you when you arrive at Penn State.

When you arrive at Penn State you are to come to my office, 118 Willard Building. You should bring your passport and/or your entrance permit with you. An identification card will be issued to you to confirm your visa status and your stay at Penn State.



Robert W. Dombrowsky, Manager  
Personnel Procedures Division  
118 Willard Building

RWD/maw

Enclosures

cc: Alfred Traverse ✓  
E. P. Tiffany  
Charles Hosler

IAP-66 FACT SHEET  
(PLEASE PRINT OR TYPE)

This fact sheet must be completed and returned to R. W. Dombrowsky, 130 Willard Building. From information contained on this fact sheet, the University will prepare a certificate of eligibility offering an exchange visitor's visa (J Visa) to the alien in question.

1. Full name of alien Jiang Dexin (formerly Chiang Te-chin or T.H. Chiang)
2. Current mailing address of alien Lanzhou Institute of Geology, Chinese Academy of Sciences, Panxuan Road, Lanzhou, Gansu, Peoples Republic of China
3. If alien is currently in the United States - program number and name of present sponsor ---
4. Date of Birth 18 November, 1933
5. Nationality of alien Chinese
6. Place of Birth (city and country) Zhejiang, China
7. The alien's position or occupation in the economy and society of his home country (i.e., "Scientist in Government Service", "University Teacher", "University Researcher", etc.) Laboratory Director, Chinese Academy of Science
8. Title to be held by alien Visiting Scientist
9. Subject or field of knowledge the alien is going to study, teach, or observe (i.e., "physics - Cryogenics", etc.) Paleopalynology
10. Brief non-technical description of duties to be performed ("Research" or "Teaching" is not enough) Will carry out palynostratigraphic investigations of Mesozoic or Cenozoic rocks of an area to be agreed upon by Dr. Jiang and me.

IAP-66 FACT SHEET (continued)

11. Explanation as to why the services of this particular alien are needed and the significance of the training or experience to be gained by the alien Dr. Jiang's interests will mesh very well with those of our present graduate students who are working on Mesozoic-Cenozoic problems.  
She will gain from use of our library, processing laboratory and microscopic equipment.
12. Period of appointment (initial appointment may not exceed 12 months):  
From 1 September, 1983 To 31 August, 1984
13. Salary for the period of appointment not applicable
14. If salary or expenses are from a source other than Penn State, what is the source? Chinese Academy of Science
15. Will a request be made to renew period of appointment?  Yes  
 No. If "yes", what is maximum period for which alien's services are needed? \_\_\_\_\_  
\_\_\_\_\_
16. Will the alien's spouse and/or children accompany him?  Yes  
 No. If "yes", provide the names, dates and places of birth, relationships, and nationalities. Family members will not be permitted to accompany the alien unless Penn State specifically indicates approval of each member accompanying the alien \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

IAP-66 FACT SHEET (continued)

17. Employing College and/or Department Department of Geosciences,  
College of Earth & Mineral Sciences

Signature or Dean, Department Head or  
Faculty Member responsible for inviting  
the alien to come to Penn State.

23 August, 1983

Date

8/79

15 March, 1983

Dr. Jiang Dexin  
Lanzhou Institute of Geology  
Chinese Academy of Sciences  
Pauxnan Rd.  
Lanzhou, Gansu, China

Dear Dexin:

Yours of 24 February just arrived. It is very interesting to hear about your English studies. Too bad they didn't provide Jungchao with such training, as the language problem was a handicap for him, and made some of his efforts here difficult.

"A lot of water has gone over the dam" since we first corresponded about your visit. In the meantime I have acquired more graduate students and a post-doctoral investigator. Therefore, I won't have as much time for you as I would have had several years ago. Nevertheless, we will all do our best to make you feel at home and to establish common research goals with you.

Best regards to Jungchao. Best wishes for your English studies.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et  
cc: Dr. Burnham

# 中国科学院兰州地质研究所

LANZHOU INSTITUTE OF GEOLOGY  
CHINESE ACADEMY OF SCIENCES  
PANXUAN ROAD, LANZHOU, GANSU, CHINA

Feb. 24, 1983

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

Dear Dr. Traverse:

Thanks for your post card of 2 December, 1982 and the new year's congratulation.

According to the new requirements of the Chinese Academy of Sciences, I must get a qualification of proficiency in English from language college before my visiting America. So I will be sent to the Foreign Language College of Xian to study English for about five months. I will be back in July. And I will write you when I return home. I hope I can start for PSU this autumn.

My best wishes to you and Mrs. Traverse.

Junchao gives his best regards to you and Mrs. Traverse.

Very truly yours,

*Jiang Dexin*  
Jiang Dexin

*Al. - for your files.*  
*Duff -* *Ye gods - does this mean it*  
*really may happen after*  
*all?* *Al T.*

February 19, 1982

JIANG Dexin  
Lanzhou Institute of Geology  
Chinese Academy of Sciences  
Panxuan Road, Lanzhou, Gansu  
THE PEOPLE'S REPUBLIC OF CHINA

*Help!*  
*I know it's for*  
*my files. I*  
*want covered.*

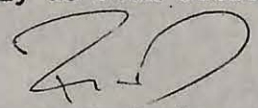
Dear Ms. Jiang:

At the request of Professor David Gold, I am sending you this form known as a Certificate of Eligibility (Form IAP-66). This form when completed and signed by you should be presented to an American Consul. If approved, you will be permitted to enter the United States as an Exchange Visitor for the period 6/1/82 to 5/31/83. Your stay in the United States can be extended if you remain at the University beyond 5/31/83.

Before signing the IAP-66, please notice that the conditions that are applicable to Exchange Visitors are outlined on the back. This office will assist you if you have any need to contact the United States Immigration and Naturalization Service.

Enclosed you will find an application and instructions for obtaining a United States Social Security number. While in the United States you will need a Social Security number if you are to receive any money from the University, to open a checking account, to register for courses, to purchase a vehicle, etc. The University will not be able to appoint you until you have been issued a number. However, as an Exchange Visitor you will not be required to pay the Social Security Tax. Please review the instructions concerning the Social Security number so that a number can be available to you when you arrive at Penn State.

When you arrive at Penn State you are to come to my office, 118 Willard Building. You should bring your passport and/or your entrance permit with you. An identification card will be issued to you to confirm your visa status and your stay at Penn State.

  
Robert W. Dombrowsky, Manager  
Personnel Procedures Division  
118 Willard Building

RWD/cms

Enclosures

cc: David Gold ✓  
C. L. Hosler, Jr.  
E. P. Tiffany

# 中国科学院兰州地质研究所

LANZHOU INSTITUTE OF GEOLOGY  
CHINESE ACADEMY OF SCIENCES  
PANXUAN ROAD, LANZHOU, GANSU, CHINA

31 January, 1982

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

Dear Dr. Traverse:

Thank you for your letter dated 15 December.

With all my gratitude for your kind invitation for visiting your laboratory, I wish my visit plan could be accomplished as soon as possible.

My husband told me in his letter that he had accepted your kind invitation for dinner with pleasure.

I think you will be glad to know that my paper "Sporo-pollen and Oil Source" was praised by the representatives of the symposium on petroleum earth sciences, the Chinese Academy of Sciences. The proceedings of the symposium will be published in the latter half of the year.

I am sending you the memoirs of our institute by separate post, which is published recently. My paper "Studies of Oil Source Rocks Judging from Pollen and Spores" was collected in it.

My best regards to you and Betty.

Yours very truly,

*Jiang Dexin*  
Jiang Dexin

XXXXXX  
863-3419

15 December, 1981

Prof. Jiang Dexin  
Lanzhou Institute of Geology  
Chinese Academy of Sciences  
Panxuan Road  
Lanzhou, Gansu, China

Dear Dexin:

Thanks very much for yours of 4 December. It was good, among other things to hear about Prof. Liu Dongsheng. He was my "office-mate" in Zürich, and I thought he was a very kind and nice man. I liked him very much.

As I have frequently said, you will be very welcome here if you can eventually come.

I see Dr. Wei occasionally. Unfortunately, we really need an interpreter to communicate, and I'm sure this makes me seem unfriendly. We will have lunch together one day this week..

Betty and I reciprocate your seasonal greetings--and we most sincerely thank you for the gorgeous calendar which just came-- thanks also for the interesting stamps on the package. The shuttlecock box was a good idea--arrived in 100% perfect condition.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et

# 中国科学院兰州地质研究所

LANZHOU INSTITUTE OF GEOLOGY  
CHINESE ACADEMY OF SCIENCES  
PANXUAN ROAD, LANZHOU, GANSU, CHINA

December 4, 1981

Dr. David P. Gold  
Head, Department of Geology  
The Pennsylvania State University  
University Park, PA 16802  
U. S. A.

Dear Dr. Gold:

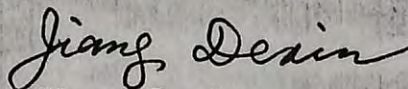
Thank you very much for your profound concern and kind help.

New year is coming. I am going to send you a wall calendar by separate post. The calendar comprised the copies of several Chinese paintings by famous painters.

Wishing you and your family happiness at Christmas and in the coming year.

Best wishes.

Yours very truly,



Jiang Dexin

# 中国科学院兰州地质研究所

LANZHOU INSTITUTE OF GEOLOGY  
CHINESE ACADEMY OF SCIENCES  
PANXUAN ROAD, LANZHOU, GANSU, CHINA

December 4, 1981

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

Dear Dr. Traverse:

Haven't written to you for a long time, but I frequently yearn for you and Mrs. Traverse.

I have just finished a paper entitled "Sporo-Pollen and Oil Source" in Chinese, which is prepared for the coming symposium on petroleum earth sciences convened by the Division of Earth Sciences, the Chinese Academy of Sciences in Lanzhou.

Having finished his visiting Europe, Prof. Shi Yafeng returned to Lanzhou last month. He instructed me to express his thanks for your letter of July 30 and give his greeting to you. He told me he had met Prof. Liu Dongsheng in Switzerland and they had talked about you and me. They were heartily concerned with my visiting America and our future co-operation. I thank them for their profound concern very much. I have been looking forward to arriving at your laboratory as soon as possible.

New year is coming. I am going to send you a wall calendar comprised several famous Chinese paintings by separate post.

Wishing you and your family happiness at Christmas and in the coming year.

Best regards.

Very truly yours,

*Jiang Dexin*  
Jiang Dexin

7 September, 1981

Alfred Traverse

Robert W. Dombrowsky

subject: Dr. Jiang Dexin

I saw yours of 1-IX-81 re Jiang Dexin. She is and was most welcome here, but I now regard it as -100% certain that the People's Republic of China will not let her come (her husband is already with us). Therefore, the alien hasn't exactly "terminated" per your memo, because she hasn't even "originated"!

cc: Dr. David P. Gold

THE PENNSYLVANIA STATE UNIVERSITY  
INTER OFFICE CORRESPONDENCE

Date: September 1, 1981  
From: Robert W. Dombrowsky  
To: E. P. Tiffany  
Subj:

JIANG Dexin is an alien currently employed by the University while on a J Visa issued under the provisions of the Exchange Visitor Program as requested by Dr. Traverse.


The current Certificate of Eligibility for this alien expires September 30, 1981. Unless the alien is granted an extension of stay by the Immigration and Naturalization Service, employment must terminate by that date. Employment beyond this date constitutes illegal employment and subjects the alien to deportation.

If it is determined to be in the best interests of the University to request an extension of the alien's visa, the alien should be directed to come to my office, 118 Willard Building, no later than September 10, 1981 and to bring the following items:

1. A statement from the appropriate faculty member responsible for initially inviting the alien to come to Penn State. The statement should request an extension of stay for a specific period of time and should indicate the approximate amount to be paid to the alien during that time.
2. His/her passport and the passports of other members of his/her family accompanying him/her in the United States. The passports must be valid for a period of six months beyond the ending date of the requested extension.

This office will assist the alien in obtaining the extension of stay. However, the Immigration Service may deny an extension if there is a delay in requesting the extension. The extension should be requested prior to the expiration date shown on the Immigration form found in the passport (Form I-94, Arrival-Departure Record).

Please advise me if the alien is terminating, has terminated, or will not be reappointed.



Robert W. Dombrowsky, Manager  
Personnel Procedures Division  
118 Willard Building

RWD/cmb

cc: Alfred Traverse ✓

# 中国科学院兰州地质研究所

LANZHOU INSTITUTE OF GEOLOGY  
CHINESE ACADEMY OF SCIENCES  
PANXUAN ROAD, LANZHOU, GANSU, CHINA

25 August, 1981

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

Dear Dr. Traverse:

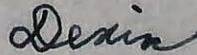
Thanks for your very nice letter of 30 July. I was so glad to learn that you have already recovered your health and gone back to your office. You had no sooner returned than you thought of me. I am much obliged to you. Yesterday, our Director, Prof. Huang Ruchang told me that he had received your letter. He said he had expressed his agreement about my visiting America long before. In response to your letter, he promised to hasten the administrators concerned to finish the formalities. Prof. Shi Yafeng has gone abroad. He will return in October.

I have been looking forward to seeing you. I have a great mind to take your courses in Palynology and Evolution. If I can arrive at Penn State in time to listen to your instruction, how nice it will be !

I really can't find words to appreciate your kindness. My English teacher, your student, George K. Y. Tseo will visit you and bring you my greeting and gratitude. He was invited to teach English in our Institute this summer and the friendship between us rooted deeply.

With all the best wishes to you and Mrs. Traverse.  
Prof. Huang Ruchang sends his best regards.

Yours very truly,

  
Jiang Dexin

# THE PENNSYLVANIA STATE UNIVERSITY

COLLEGE OF EARTH AND MINERAL SCIENCES

UNIVERSITY PARK, PENNSYLVANIA 16802

Department of Geosciences

Area Code 814

435 Deike Building

July 30, 1981

865-2342

Prof. Jiang Dexin  
Lanzhou Institute of Geology  
Chinese Academy of Sciences  
Panxuan Road, Lanzhou  
Gansu, China

Dear Dexin:

Finally, I am back at my desk and microscope. I am putting the finishing touches on my lecture for the International Congress in Australia. I will be back from the Congress about 27 August, and then will not be leaving the area again in the foreseeable future!

My course in palynology will be taught in the Fall Term (commences on 8 Sept.) I am also teaching the course in evolution during the Fall Term, so I figure to be a very busy man! It came to mind that it would be very nice if your long postponed arrival should be in time for you to sit in on the two courses and get started also with your research here.

I really appreciated all of your nice messages about my illness in May, and so forth, and look forward very much to meeting you.

All the best.

Yours very truly,

Alfred Traverse  
Professor of Palynology

cc: Prof. Huang Ruchang  
Prof. Shi Yafeng

/jb

# 中国科学院兰州地质研究所

LANZHOU INSTITUTE OF GEOLOGY  
CHINESE ACADEMY OF SCIENCES  
PANXUAN ROAD, LANZHOU, GANSU, CHINA

June 2, 1981

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

Dear Dr. Traverse:

I am sorry to hear that you have to go to the hospital.  
Please accept my sincere sympathy.

I am taking the liberty of sending you the following  
prescription:

Don't worry about your work. Take things easy.

I hope you will be well soon.

All my best wishes

Very truly yours,



Jiang Dexin

# 中国科学院兰州地质研究所

LANZHOU INSTITUTE OF GEOLOGY  
CHINESE ACADEMY OF SCIENCES  
PANXUAN ROAD, LANZHOU, GANSU, CHINA

25 April, 1981

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

Dear Dr. Traverse:

Thanks for your letters of 8 April and 11 April.

It's very nice to learn that you will go back home next month. I am grateful for your telling me the travel plans in the coming summer. I am sure that your travels to Europe and Australia will never affect our co-operation. On the contrary, they must be a great help to our common research work.

Your opinion and suggestions on our paper will be greatly appreciated. I will be carefully listening to you and discuss with you on the subject with pleasure.

It seems not too difficult for me to get the passport and the visa soon. I hope I will be able to arrive at your university before your arrival on 18 May and to meet you and Mrs. Traverse at the station. But I am afraid that I might reach my destination after your return home, because my plans are not going very well. I have to beg your pardon for my delay.

All the best and happy landings.

# 中国科学院兰州地质研究所

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LANZHOU INSTITUTE OF GEOLOGY  
CHINESE ACADEMY OF SCIENCES  
PANXUAN ROAD, LANZHOU, GANSU, CHINA

Please remember me to Mrs. Traverse.

Give my best wishes to Prof. and Mrs. Hstl.

Yours very truly,

Mz, *Dedin*  
Jiang Dexin

Geologisches Institut

Sonneggstrasse 5  
Telefon 01 32 62 11

Postadresse:  
Geologisches Institut  
ETH-Zentrum  
CH-8092 Zürich

April 23, 1981  
KH/bd

*file*  
Mrs. Jiang Dexin  
Geological Research Institute  
Langzhou  
CHINA

Dear Mrs. Jiang:

Thank you for your letters and reprints. I am sorry that I have been overburdened with work and travels and have not had a chance to write you until now.

I am pleased that you will be working with Professor Traverse. Before you go to the United States, you may want to visit the office of Marine Exploration of the Ministry of Geology at Guanzhou to discuss with your palynology colleague there about his progress on the study of the quaternary pollen from the Tienyang cores. Professor Traverse may give helpful advice on paleoclimatical interpretations.

Hope you succeed with your work.

With best regards,

Sincerely,

K. J. Hsu  
Professor of Geology

cc: A. Traverse

11 April, 1981

Dr. Jiang Dexin  
Lanzhou Institute of Geology  
Chinese Academy of Sciences  
Banxuan Road  
Lanzhou, Gansu, China

Dear Dexin:

~~Thank~~ realized that I was supposed to give you my opinion and suggestions re "Pollen and spores extracted from petroleum.... Liaohe oil-field....". Aside from saying I found it very interesting and have a number of comments, I suppose at this point we might as well leave the subject to discuss in the not-too-distant future in Pennsylvania.

Happy landings!

Yours very truly,

Alfred Traverse  
Visiting Professor

AT/et

8 April, 1981

Dr. Jiang Dexin  
Lanzhou Institute of Geology  
Chinese Academy of Sciences  
Panxuan Road  
Lanzhou, Gansu, China

Dear Dexin:

Thanks for yours of 7 March and the news about Dr. Zhu's visit to you. He made a very good impression here in Zürich--a very nice man!

We return to Pennsylvania on 18 May, and I should be in the office sometime on the 19th. Unfortunately from some points of view, I will also be gone much of the summer (once more to Europe; once to Australia)--but by 1 September will again be "taking root" at home!

Hope your travel plans are going well. Best wishes.

Yours very truly,

Alfred Traverse  
Visiting Professor

AT/et

# 中国科学院兰州地质研究所

LANZHOU INSTITUTE OF GEOLOGY  
CHINESE ACADEMY OF SCIENCES  
PANXUAN ROAD, LANZHOU, GANSU, CHINA

March 7, 1981

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

Dear Dr. Traverse:

Entrusted by you and Prof. Hsü, Dr. Zhu Xiaozhang came specially to call on Prof. Shi Yafeng and me last Thursday. His visiting brought us your profound concern and friendship. May we say how glad we are to accept the greetings Dr. Zhu brought us? Prof. Shi, our vice-president, who had recommended me to you and Dr. Gold, was greatly interested in anything about your meeting at Prof. Hsü's house which later Dr. Zhu informed us. I was deeply interested in your talking, too, when I heard about that.

Thank you very much for your solicitude and praise. I think I must work and study hard in order to live up to your expectation. The administrators concerned are performing their duties to get my passport and visa available. It seems certain that I shall be able to arrive at your university before your going back home. I have been looking forward to seeing you and Mrs. Traverse and I count the day when we meet is eventually coming soon.

Prof. Shi sends his best regards.

With all good wishes to you and Mrs. Traverse.

Yours very truly,

*Dexin*  
Jiang Dexin

# 中国科学院兰州地质研究所

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LANZHOU INSTITUTE OF GEOLOGY  
CHINESE ACADEMY OF SCIENCES  
PANXUAN ROAD, LANZHOU, GANSU, CHINA

February 17, 1981

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

Dear Dr. Traverse:

Thank you for your letter of February 6.

I am very glad to learn from you that Professor Hsu will give me a letter soon. I am thinking that both you and he are my marvellous tutors.

Enclosed is a paper finished by my colleague and me published recently. We would greatly appreciate having critical remarks from you.

Please give my regards to Prof. Hsu.

My best wishes to you and Mrs. Traverse.

Very truly yours,



Jiang Dexin

6 February, 1981

Dr. Jiang Dexin  
Lanzhou Institute of Geology  
Chinese Academy of Sciences  
Panxuan Road  
Lanzhou, Gansu, China

Dear Dexin:

Just to let you know I got your nice letter of 22 January and the pretty cards with the greetings. Professor Hsü showed me your letter to him, and he says he will answer soon. He is a very fine man and has been a marvellous friend over the years.

All the best.

Yours very truly,

Alfred Traverse  
Visiting Professor

AT/et

# 中国科学院兰州地质研究所

LANZHOU INSTITUTE OF GEOLOGY  
CHINESE ACADEMY OF SCIENCES  
PANXUAN ROAD, LANZHOU, GANSU, CHINA

22 January, 1981

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

Dear Dr. Traverse:

I am very delighted in having received your letter of 8 January. It's very kind of you to encourage me, but I am afraid my English is rather limited.. Professor K. J. Hsu has made us near to each other. His suggestion is greatly appreciated. I am sure it must be important and effective, so I intend to write a letter to ask advice of him. I hope he will give me the suggestion in a detail way, so that I shall be able to make preparation for our future work before my leaving for the States. I believe that Prof. Hsu will not refuse my request, for he shows a great respect to you.

I got the ICP Newsletter Vol. 3, No.1 a short time ago. I was pleased to have read your valediction and see the photograph taken by you. Certainly you and your officers have finished a great deal of work and deserved well of all palynologists in the world.

As a Chinese I wish you and Mrs. Traverse a Happy Spring Festival. Two cards are sent here to you. Sure you will like them.

Please remember me to Mrs. Traverse.

Please give my best regards to Prof. K. J. Hsu.

Yours very truly,

*Dexin*  
Jiang Dexin

*file*

8 January, 1981

Ms. Jiang Dexin  
Lanzhou Institute of Geology  
Chinese Academy of Sciences  
Panxuan Road  
Lanzhou, Gansu, China

Dear Dexin:

I enjoyed yours of 29 December very much--took only a few days to get here!

Especially as your English is already obviously so good, you should be able to accomplish much in two years--and what a fine opportunity for us also! All of the research things you mentioned are feasible and good. I showed your letter also to Professor Hsü. He suggested another research possibility on Chinese materials to which he has access--more about that later.

Have a good trip. See you in May--but I hope to hear about progress before then too. Thanks for the New Year's message with the nice picture of gladioli. Jung-Chao also sent us a very attractive Chinese seasonal greeting card.

Yours very truly,

Alfred Traverse  
Visiting Professor of Palynology

AT/et  
cc: Dr. K. J. Hsü

*file*

# 中国科学院兰州地质研究所

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LANZHOU INSTITUTE OF GEOLOGY  
CHINESE ACADEMY OF SCIENCES  
PANXUAN ROAD, LANZHOU, GANSU, CHINA

29 December, 1980

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

Dear Dr. Traverse:

I have just received your letter of 19 December from Switzerland. I am grateful for your letter and Mrs. Traverse's greeting. Thanks also for telling me something about your meeting with Dr. Huang, the Chinese senior geologist. I am sure that the touch between you and Dr. Huang will enhance the growing friendship between the American scientists and the Chinese scientists. I am also sure that the co-operation between you and Dr. K. J. Hsü, the well-known Chinese geologist, will achieve fruitful results. I wish you success.

As soon as I get my passport and visa, I will start for PSU. I must go to the station, not the airport, to greet you two when you return home. I will be expecting to learn much from you and to become an equal assistant of yours. Now I am collecting some materials of pollen and spores included those of Lower Cretaceous of West Gansu, and South Xinjiang, Tertiary of North Tibet and Quaternary of Hebei. I will try my best to take the slides as many as possible. They will probably be available for use in our future collaboration.

I hope I will be able to fulfil the research work based on the above mentioned materials under your leadership. I also hope that guided by you, I can finish a paper in English about the relation between pollen-spores and petroleum genesis, if you are interested in it. Perhaps my plan is too large to fulfil, but it may be revised in practice. Of course

# 中国科学院兰州地质研究所

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LANZHOU INSTITUTE OF GEOLOGY  
CHINESE ACADEMY OF SCIENCES  
PANXUAN ROAD, LANZHOU, GANSU, CHINA

I want to know what your opinion is. I would like to act on your advice.

New Year is coming. I wish you and Mrs. Traverse health and joy.

Please give my Holiday greeting to Mrs. Traverse.

Please give my regards to Dr. K. J. Hsu.

Happy New Year.

Sincerely yours,



Jiang Dexin

file  
19 December, 1980

Ms. Jiang Dexin  
Lanzhou Institute of Geology  
Chinese Academy of Sciences  
Panxuan Road  
Lanzhou, Gansu, China

Dear Dexin:

Thanks for yours of 21 November. Glad to hear you could attend the Cretaceous-Tertiary symposium. I will perhaps some day hear more about it. Thanks also for the replacement page for your paper!

It sounds as if your arrival at PSU in the Spring will be timely--I shall be back circa mid-May. You will have got settled and will be ready to go to work when I get back--we look forward to it. However, we will be arriving by train from New York (we live in Huntingdon, not State College).

Happy New Year!

Yours very truly,

Alfred Traverse  
Guest Professor

AT/et

P.S. I am adding my greeting to you also--by the time we see you we will be accustomed to meeting Chinese scientists--there are many Chinese visitors here at E.T.H. Recently, the Institute had as its guest, Dr. Huang, President of the Geological Society of China. We were able to visit with him informally on several occasions, as well as to attend a lecture on oil and gas fields in China which he gave in English.

# 中国科学院兰州地质研究所

LANZHOU INSTITUTE OF GEOLOGY  
CHINESE ACADEMY OF SCIENCES  
PANXUAN ROAD, LANZHOU, GANSU, CHINA

21 November, 1980

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

Dear Dr. Traverse:

I attended the Symposium on Cretaceous- Tertiary Palynology of China in Hangzhou on 1-6 November. Dr. J. Hsü, my tutor, did not attend the symposium because Mrs. Hsü had just had an operation.

I was very glad to receive your letter of 23 October when I returned to Lanzhou last week. I also got the postcard you had sent to my husband. And the day before yesterday I received your letter dated 31 October. I am thankful for your good advice on my papers. It is so nice of you to arrange office and microscope for me.

I am sorry I did not discover that the paper I had sent you is lacking the final page. I am enclosing the page in this letter. Excuse me.

It is a pity that I could not arrive at your university before you left for Switzerland. But I was informed that I will arrive at your university next Spring. So I think I can go to meet you at the airport when you return to Pennsylvania.

Best wishes to you.

Please remember me to Mrs. Traverse.

Yours very truly,

*Dexin*

Jiang Dexin

in the northern American Continent possess ordinarily the above-mentioned characteristics.

According to the flora reflected by the present sporo-pollen assemblage, it may be supposed that the climate of the Chiuchuan Basin in the Early Cretaceous period was certainly rather warm and wet. It may be referred to subtropical type similar to that of southern China at the present time.

Description of new species

*Schizaeoisporites zizyphinus* sp. nov.

(pl. 1, fig. 11; pl. 2, fig. 1)

1962 *Schizaea* sp. 2 Chang p. 259, pl. 2, fig. 8a—c.

Holotype: No. 593 (pl. 2, fig. 1)

Diagnosis: Spores zizyphus-shaped,  $33.06-43.50 \mu \times 13.92-20.88 \mu$ , monolet. Exine about  $1 \mu$  thick, and thicker at both ends. Surface with  $14 \pm$  ribs which are parallel to the long axis, straight or slightly curved, convergent or non-convergent at both ends. Ribs about  $0.5-1.2 \mu$  thick, and about  $2 \mu$  distant.

Comparison: This kind of spores is similar to *Cicatricosporites pseudodorigensis* (R. Pot.) Pf. et Th. from Cretaceous of Quedlinburg (Weyland et Greifeld, 1953, p. 43, pl. 11, figs. 48—50, 53), but the latter is rounder, with non-parallel ribs, which are not convergent at both ends.

*Cingulatisporites ruginosus* sp. nov.

(pl. 2, figs. 2, 3, 3a)

Holotype: No. 608 (pl. 2, fig. 3)

Diagnosis: Spore rounded-triangular in polar view. Diameter  $35.08-52.20 \mu$ . Triradiate suture long, stretched up to the equator. Cingulum 3 to  $8 \mu$  wide, with wrinkles in layers. Exine at the angles of the spore thicker than that of the other parts. Surface with granular sculpture.

her folder

31 October, 1980

Dr. Jiang Dexin  
Lanzhou Institute of Geology  
Chinese Academy of Sciences  
Panxuan Road  
Lanzhou, Gansu, Peoples Republic of China

Dear Dexin:

Thanks for the reprints. The 1974 paper you did with my friend, Hsu Jen, is apparently lacking the final page--unfortunately that is in the English part! My copy goes directly from p. 374 to the plates. This cuts off in the middle of a sentence. It looks as though your conclusions are o.k., though more precise dating (to a stage at least) could probably be done by use of species comparisons with European standards.

Regarding the 1980 paper--your interpretation of Cretaceous-Tertiary sources is certainly possible. However, I would interpret Plate 1, figs. 2-7 as Ephedripites or Ephedra, and I think it's possible the whole flora is Neogene with little or no older forms. However, I haven't seen the slides, the photos are a little hard to interpret, and of course, I can't read the text of the paper itself.

I am about to leave for Switzerland. There will be a desk waiting for you in room 434 on your arrival. I am leaving a microscope with my graduate student, Duck Choi, for your use, but until I get back, in May, 1981, there won't be a great deal you can do except work in the library and get acclimated and adjusted to Penn State. But the time will go by quickly. Best wishes.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et

\* also a  
typewriter;  
Duck Choi has also  
a photomicrographic  
camera to loan you, and other  
materials

23 October, 1980

Dr. Jiang Dexin  
Lanzhou Institute of Geology  
Chinese Academy of Sciences  
Panxuan Road  
Lanzhou, Gansu, People's Republic of China

Dear Dexin (may I be so informal?):

Thanks for your letter of 11 October. I am glad that you got our invitation and that you will indeed be able to come. As you say, it may well be a blessing in disguise that your arrival is delayed. I only feel bad that I won't be here in all probability to show you around the facilities. Under the circumstances, I feel obliged to have my personal collections and equipment, etc., locked up. Had you been able to arrive before my departure for Switzerland, I would have spent a week or so showing you what I have and left you in charge of my office and collections. But your arrival after I leave would make that impossible. However, I'll be back in May of 1981, and by that time you will have gotten settled well enough so that we can begin serious palynological work!

Thank you so much for the photos. Dr. Wei had already shown me some pictures of you, but it is nice to have the photos anyway. I presume you have seen my photo in the first Newsletter of the International Commission for Palynology a couple of years ago. I know a number of copies of it were sent to China. I am not nearly as photogenic as you!

Best wishes to you. Under the present circumstances you can be somewhat relaxed about your efforts to get on this side of the Pacific, as there seems to be no hurry at all. Bon voyage.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et  
cc: Dr. Gold



Dr. and Mrs. Traverse :

My husband, Wei Junchao, my  
daughter, Wei Jiang, and I in  
the Summer Palace in 1979.

Jiang Dexin

Oct. 9, 1980.

1979

Hunt Institute for Botanical Documentation

Folder

# 中国科学院兰州地质研究所

LANZHOU INSTITUTE OF GEOLOGY  
CHINESE ACADEMY OF SCIENCES  
PANXUAN ROAD, LANZHOU, GANSU, CHINA

Oct. 11, 1980

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

Dear Dr. Traverse:

I'm so glad to receive your letter dated Sept. 16, 1980. Thank you very much for your enthusiastic invitation and careful arrangements. Of course, I hope I can arrive at your university and begin to work and study as soon as possible. I'll certainly take pleasure in helping your graduate students if possible.

I must apologize for not answering your letter in time. It must go through due formalities to get my passport and visa, but the efficiency sometimes isn't satisfactory. In spite of my hastening again and again, concerning the problem when I can start for your university, I haven't got the precise reply so far. I'm afraid I can't go as soon as you expect. Perhaps you will be disappointed when you get this letter, but I couldn't put it off any longer.

As mentioned in your letter, however, it will probably work out as a blessing in disguise, because I may have more time to prepare for our collaboration. On the one hand, I'll manage to hasten the administrators concerned to finish my formalities. On the other hand, I'll utilize the period to collect some material for our joint investigation. I'll be thankful for any advice you can give me.

# 中国科学院兰州地质研究所

LANZHOU INSTITUTE OF GEOLOGY  
CHINESE ACADEMY OF SCIENCES  
PANXUAN ROAD, LANZHOU, GANSU, CHINA

I'm enclosing three photographs of mine in my letter. The colour one was taken in the Summer Palace of Beijing in summer of 1979. I'm sure that you must fond of the sights. I hope you and Mrs. Traverse will someday visit China to see the sights of Beijing, Nanjing, Suzhou, Hangzhou, Guangzhou, etc..

Please give my kind regards to Mrs. Traverse.

Yours sincerely,

*Jiang Dexin*

Jiang Dexin



# 中国科学院兰州地质研究所

LANZHOU INSTITUTE OF GEOLOGY  
CHINESE ACADEMY OF SCIENCES  
PANXUAN ROAD, LANZHOU, GANSU, CHINA

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# 中国科学院兰州地质研究所

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LANZHOU INSTITUTE OF GEOLOGY  
CHINESE ACADEMY OF SCIENCES  
PANXUAN ROAD, LANZHOU, GANSU, CHINA

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Please give my kind regards to Mrs. Traverse.

Yours sincerely,

*Jiang Dexin*

Jiang Dexin

中国科学院兰州冰川冻土研究所

LANZHOU INSTITUTE OF GLACIOLOGY AND CRYOPEDODOLOGY  
ACADEMIA SINICA  
LANZHOU, CHINA

Copy A. T. Maxwell

Sept. 25, 1980

Dr. David P. Gold  
Head, Dept. of Geosciences  
The Pennsylvania State University  
University Park, PA 16801  
U.S.A.

Dear Dr. Gold:

I would like to recommend Ms. Jiang Dexin as a research scholar in the Department of Geosciences of the Pennsylvania State University. If it is acceptable to you, she intends to take part in Mesozoic and Cenozoic palynological investigations for one or two years.

Ms. Jiang Dexin is the Head of Palynological Laboratory of Lanzhou Institute of Geology, the Chinese Academy of Sciences. She is a member of the Institutional Academic Review and Examination Committee. She is also a member of the Palynological Society of China, a member of the Paleontological Society of China, a member of the Geological Society of China and a member of the Petroleum Association of China.

Since her graduation from Beijing College of Geology in 1956, Ms. Jiang has devoted herself to petroleum geology and palynology research and has done a great deal of work. The following scientific papers and publications may express her contribution in geology and palynology.

1. Formation and Distribution of Continental Oil-Gas Fields in Northwest China (1960) Science Press of the Chinese Academy of Sciences (Awarded by National Science Conference in 1978) (one of the editors)
2. The Spore and Pollen Assemblages from the Quaternary Deposit of

中国科学院兰州冰川冻土研究所

LANZHOU INSTITUTE OF GLACIOLOGY AND CRYOPEDOLOGY  
ACADEMIA SINICA  
LANZHOU, CHINA

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- the Chinghai Lake Basin and their Significance (1965).  
Acta Geographica, Vol. 31, No. 4.
3. Sporo-Pollen Assemblage and Geological Age of the Lower Xinminbu Formation of Chiuchuan, Kansu (1974).  
Acta Botanica Sinica, Vol. 16, No. 4.
  4. The Significance of Petroleum Sporo-Pollen Analysis and a method for Separating Spores and Pollen from Crude Oil (1974).  
Botanical Journal, Vol. 1, No. 1.
  5. The Oil Source Rock of Yumen Oil-Field Judging from Spores and Pollen in Crude Oil (1977).  
Petroleum Geology, Vol. 1 No. 1.
  6. Early Cretaceous Palynological Assemblage of the Huahai Basin, Western Kansu (1978).  
Journal of Lanchow University, Natural Sciences, 1978, No. 2.
  7. Report of Composite Exploration of Qinghai Lake (1979).  
Science Press of The Chinese Academy of Sciences.  
(Awarded by National Science Conference in 1978)  
(one of the editors)
  8. Petroleum Sporo-Pollen Assemblages and Oil Source Rock of Yumen Oil-bearing Region in Gansu (1980).  
Acta Botanica Sinica, Vol. 22, No. 3.
  9. Pollen and Spores Extracted from Petroleum of Liaohe Oil Field and their Significance (1980).  
Acta Botanica Sinica, Vol. 22, No. 4 (in print).
  10. Studies of Oil Source Rocks Judging from Pollen and Spores (1980).  
Series of Lanzhou Institute of Geology, Science Press (in print).  
(Awarded the third prize of natural science by the Chinese Academy of Sciences).
  11. Pollen and Spores Extracted from Petroleum of Kuche Seg and their Significance (1980). (manuscript)
  12. Tertiary Sporo-Pollen Complex of Lunpola Basin in Tibet (1980).  
(manuscript)

中国科学院兰州冰川冻土研究所  
LANZHOU INSTITUTE OF GLACIOLOGY AND CRYOPEDOLOGY  
ACADEMIA SINICA  
LANZHOU, CHINA

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Sept. 23, 1980

Dr. David P. Gold  
Head, Dept. of Geosciences  
Pennsylvania State University  
University Park, Pa 16801  
U.S.A.

Dear Dr. Gold:

I am very pleased to recommend Ms. Jiang Dexin as a research scholar in the Department of Geosciences of your university.

Ms. Jiang was one of my students in Beijing College of Geology from 1952-1956. During the years, I taught her the courses of general physics, theoretical mechanics and hydraulics, and she studied conscientiously. Because of her diligence, she was one of the most talented students in the class. In comparison with her fellows, she was strong in academic performance and intellectual ability.

Ms. Jiang has devoted herself to petroleum geology and palynology research since her graduation in 1956. She has done a lot of work in these fields. Owing to her work on relation between pollen-spores and petroleum genesis, she was awarded the third prize of natural science by the Chinese Academy of Sciences.

I believe that she will be able to accomplish her study if she is admitted to your university.

Sincerely, *Liu Ciqun*

Prof. Liu Ciqun  
Lanzhou Institute of  
Glaciology and Cryopedology  
Chinese Academy of Sciences

IAP-66 FACT SHEET  
(PLEASE PRINT OR TYPE)

This fact sheet must be completed and returned to R. W. Dombrowsky, 130 Willard Building. From information contained on this fact sheet, the University will prepare a certificate of eligibility offering an exchange visitor's visa (J Visa) to the alien in question.

1. Full name of alien Jiang Dexin (formerly Chiang Te-chin or T.H.Chiang)
2. Current mailing address of alien Lanzhou Institute of Geology, Chinese Academy of Sciences, Panxuan Road, Lanzhou, Gansu, Peoples Republic of China
3. If alien is currently in the United States - program number and name of present sponsor ---
4. Date of Birth 18 November, 1933
5. Nationality of alien Chinese
6. Place of Birth (city and country) Zhejiang, China
7. The alien's position or occupation in the economy and society of his home country (i.e., "Scientist in Government Service", "University Teacher", "University Researcher", etc.) Laboratory Director, Chinese Academy of Science
8. Title to be held by alien Visiting Scientist
9. Subject or field of knowledge the alien is going to study, teach, or observe (i.e., "physics - Cryogenics", etc.) Paleopalynology
10. Brief non-technical description of duties to be performed ("Research" or "Teaching" is not enough) Will carry out palynostratigraphic investigations of Mesozoic or Cenozoic rocks of an area to be agreed upon by Dr. Jiang and me.

IAP-66 FACT SHEET (continued)

11. Explanation as to why the services of this particular alien are needed and the significance of the training or experience to be gained by the alien Dr. Jiang's interests will mesh very well with those of our present graduate students who are working on Mesozoic-Cenozoic problems. She will gain from use of our library, processing laboratory and microscopic equipment.
12. Period of appointment (initial appointment may not exceed 12 months):  
From 1 October, 1980 To 30 September, 1981
13. Salary for the period of appointment not applicable
14. If salary or expenses are from a source other than Penn State, what is the source? Chinese Academy of Science
15. Will a request be made to renew period of appointment?  Yes  
 No. If "yes", what is maximum period for which alien's services are needed? one additional year
16. Will the alien's spouse and/or children accompany him?  Yes  
 No. If "yes", provide the names, dates and places of birth, relationships, and nationalities. Family members will not be permitted to accompany the alien unless Penn State specifically indicates approval of each member accompanying the alien Wei Jun Chao, husband of Dr. Jiang, is a geophysicist already at Penn State for the two-year period in question.

IAP-66 FACT SHEET (continued)

17. Employing College and/or Department Department of Geosciences,  
College of Earth and Mineral Sciences

\_\_\_\_\_  
Signature or Dean, Department Head or  
Faculty Member responsible for inviting  
the alien to come to Penn State.

29 August, 1980

Date

8/79

# 中国科学院兰州地质研究所

LANZHOU INSTITUTE OF GEOLOGY  
CHINESE ACADEMY OF SCIENCES  
PANXUAN ROAD, LANZHOU, GANSU, CHINA

Sept. 18, 1980

Dr. Robert W. Dombrowsky, Manager  
Personnel Procedures Division  
118 Willard Building  
The Pennsylvania State University  
University Park, Pa 16802

Dear Dr. Dombrowsky:

I have received your letter dated Sept. 3, 1980, the Form IAP-66 and an application card for obtaining a United States Social Security number. I'd like to thank you, Dr. Alfred Traverse and Dr. David P. Gold for your kind help.

The formalities of my passport and visa are being proceeded by the Chinese Academy of Sciences. As soon as I obtain my passport and visa, I'll start for the Pennsylvania State University.

I look forward to seeing you and beginning my work and study in your university.

With my best wishes

Sincerely,

*Jiang Dexin*  
Jiang Dexin

cc: Alfred Traverse  
cc: Dr. Alfred Traverse  
Dr. David P. Gold

# 中国科学院兰州地质研究所

LANZHOU INSTITUTE OF GEOLOGY  
CHINESE ACADEMY OF SCIENCES  
PANXUAN ROAD, LANZHOU, GANSU, CHINA

Sept. 18, 1980

Dr David P. Gold  
Head, Dept. of Geology  
The Pennsylvania State University  
University Park, PA 16801  
U. S. A.

Dear Dr. Gold:

I was very glad to receive a letter from Dr. Dombrowsky, the Form IAP-66 and the card of social security number yesterday. I'd like to thank you and Dr. Traverse for your kind help.

Our Vice-President, Prof. Shi Yafeng, will soon send you a letter of recommendation for me, when he returns to Lanzhou. He has visited Japan recently and has already returned to Beijing. My teacher, Prof. Liu Ciqun, will send you another recommendation letter for me in a few days'time. He has visited Canada and has just returned home. If they had not travelled, the letters would have been finished.

Thank you.

With my best regards

Sincerely yours,

*Jiang Dexin*  
Jiang Dexin

cc: Dr. Alfred Traverse

Wei Jun-chao  
魏俊超

(Jeshin) 16 September, 1980

Dr. Jiang Dexin  
Head, Palynological Laboratory  
Lanzhou Institute of Geology  
Chinese Academy of Sciences  
Panxuan Road  
Lanzhou, Gansu, People's Republic of China

Dear Dr. Jiang:

Thanks for your very nice letter of 4 September, which came yesterday. In the meantime you may have heard of conversations I have had with Dr. Wei, your husband.

I have told him about my plans to go on sabbatical leave, beginning about 15 November of this year. I'll be in Switzerland until about 15 May, 1981.

On the face of it, this would appear to be bad news for our studies together. However, from my point of view, it will probably work out as "a blessing in disguise". If you can get here by no later than 1 November (preferably sooner!), I will be able to get you settled in and fully informed about our laboratory and all the other facilities used by the palynologists here at Penn State. While I am gone you will have access to everything, and likely will be very useful to my graduate students. After I return in May, 1981, we can get started on some joint endeavors. You should probably sit in on my palynological course in Winter Term, 1981 (begins late November, 1981--about a year after I leave for Switzerland this year).

It may even be advantageous that you have these months to get acquainted here without the pressures of our collaboration. In any case, it can't be helped. It is an add coincidence that the purpose of my going to Switzerland is to study with a famous Chinese geologist there! (Hsu Jingwha: "Ken Hsu, as we call him).

Looking forward to having you and with best wishes, I am

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et

P.S. I am no longer ICP President.

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

Department of Geosciences

Area Code 814

August 15, 1980

Dr. Al. Traverse

Please let me know  
your feelings on having  
a Chinese scholar in your  
lab for one to two years  
(+ supported)  
She would be sponsored by  
the Chinese Academy.

If you are interested please  
fill in Form IAP-66, which  
can be obtained from Dombrowsky's  
Office (118 Willard Bldg) and  
return it to him.

Her husband (Wei Jin-chao)  
arrived here a week ago to work  
in our Structural + Remote Sensing Labs.

AN EQUAL OPPORTUNITY UNIVERSITY

Regards

Duff

# 中国科学院兰州地质研究所

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LANZHOU INSTITUTE OF GEOLOGY  
CHINESE ACADEMY OF SCIENCES  
PANXUAN ROAD, LANZHOU, GANSU, CHINA

July 28, 1980

Dr. David P. Gold  
Head, Dept. of Geo Sciences  
The Pennsylvania State University  
University Park PA 16801  
U. S. A.

Dear Dr. Gold:

I am a geologist of Lanzhou Institute of Geology, the Chinese Academy of Sciences. I graduated from Beijing College of Geology in 1956. In college I majored in petroleum geology. I have devoted myself to palynology research since 1958. My research interests are stratigraphic palynology, geological application of pollen analysis and relation between pollen-spores and petroleum genesis. I have been nominated as a research scholar to the United States. I am planning to visit your university and take part in palynology research for one or two years. If it is acceptable to you, I will be very pleased and will make available arrangements through official channels.

Thanks

Sincerely yours,

*Jiang Dexin*

Jiang Dexin

Head, Laboratory of Palynology  
Lanzhou Institute of Geology  
Chinese Academy of Sciences

SCHOLAR-RESEARCHER DATA SHEET

1. Family name: Jiang  
Given name: Dexin
2. Sex: Female
3. Date and place of birth: November 18, 1933  
Zhejiang, China
4. Nationality: The People's Republic of China
5. Marital status: married
6. Full name and occupation of spouse:  
Wei junchao  
Head of the Department of Structural Geology, Lanzhou Institute  
of Geology, the Chinese Academy of Sciences
7. Field: Geology and Palynology
8. Academic degree: B. S. of Beijing College of Geology (1956)
9. Professional history:  
Leader of Petroleum Geological Team of East Chaidamu Basin (1956),  
Leader of Petroleum Geological Research Group of middle Shan-  
ganning Basin (1960),  
Head of Laboratory of Palynology, Lanzhou Institute of Geology,  
the Chinese Academy of Sciences (1959- ),  
Leader of the Paleontological Research Group, Lanzhou Institute  
of Geology, the Chinese Academy of Sciences (1961- )  
Member of the Institutional Academic Review and Examination  
Committee.
10. Memberships in Professional Societies:  
A member of the Chinese Geology Society,  
A member of the Chinese Petroleum Association,

A member of the Chinese Paleontology Society,  
A member of the Chinese Palynology Society.

11. Knowledge of foreign languages:

English: Can read, understand and Write.  
Russian: Can read.  
German: Can read.

12. Main scientific papers or publications:

1. Formation and Distribution of Continental Oil-Gas Fields in Northwest China (1960) Science Press (one of the editors)
2. The Spore and Pollen Assemblages from the Quaternary Deposits of the Chinghai Lake Basin and their Significance (1965) Acta Geographica Sinica, Vol.31, No.4
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10. Pollen and Spores Extracted from Petroleum of Kuche Seg and their Significance (1980) (manuscript)
11. Studies of Oil Source Rocks Judging from Pollen and Spores (1980) Series of Lanzhou Institute of Geology, the Chinese Academy of Sciences, Science Press (in print)
12. Tertiary Sporo- Pollen Complex of Lunpola Basin in Tibet (1980) (manuscript)

## Early Cretaceous Palynological Assemblage of the Huahai Basin, Western Kansu

Chiang Te-chin . . . Young Hui-chiu

(Geological Institute of Lanchow, Academia Sinica)

### Abstract

The Early Cretaceous palynological assemblage of the Huahai Basin of Western Kansu is investigated by using the material mainly taken from five bore-holes and one natural section. Thirty-two species (or forms) of pollen and spores referred to 23 genera are described in this paper. Three of these species are determined as new.

The characteristics of the present palynological assemblage agree with those of the Lower Xinminbu Formation of the Chiuchuan Basin of Kansu. Both in the Huahai Basin and in the Chiuchuan Basin, the palynological assemblage is characterized by the absolute predominance of the pollen grains of primeval Coniferae, the eminent situation in fern of the spores of Lygodiaceae and the presence of a few pollen grains of angiosperms.

Based on the investigations of palynological assemblage, ostracoda, fish, Charophyta etc., the Lower Xinminbu Formation of Chiuchuan is referred to as Early Cretaceous in age.

### Description of new species

*Schizaeosporites gansuensis* sp. nov.

(Pl. 1, figs. 8, 11)

Holotype, Pl. 1, fig. 8, Slide No. A-1811.

Diagnosis: Monolete, oval or oblate spheroidal, polar axis  $15.66-33.06\mu$ , equatorial axis  $17.68-28.84\mu$ . Exine thick, sculptured with about 10-12 raised ribs, from 2 to  $3\mu$  wide and spaced about  $1\mu$  apart. Ribs are parallel to the polar axis, non-convergent at both ends, surfaces scabrous, irregularly undulating.

Comparison: This kind of spore differs from *Schizaeosporites ziyphinus* Hsu 1974 in having shorter polar axis and broader ribs which are scabrous.

Affinity: The spores show some resemblance to those of *Schizaea* which suggests possibly a schizaeaceous affinity.

*Platysaccus gansuensis* sp. nov.

(Pl. 3, fig. 9)

1974, *Platysaccus* sp. Hsu, Chiang et Young, p. 369, pl. 3, fig. 4.

Holotype: Pl. 3, fig. 9, Slide No. F-5322.

Diagnosis: pollen grains disaccate, 81.78-99.18 $\mu$  long and 43.50-69.34 $\mu$  broad. Corpus subcircular in polar view, 40.02-46.98 $\mu$  in diameter, dense, exine thick, granulose. Sacci more than hemispherical, larger than corpus, fine intrareticulate. Distal sulcus wide.

Comparison: The present species is distinguished from *Platysaccus densus* Kumar 1973 by its comparatively large corpus and rather wide distal sulcus.

Affinity: The precise affinity is unknown, but the grains are probably podocarpaceous in origin.

*Callialasporites annulatus* sp. nov.

(Pl. 2, fig. 7)

Holotype: Pl. 2, fig. 7, Slide No. A-1635.

Diagnosis: Pollen circular or subcircular in polar view, corpus outline circular. Total diameter 78.30-96.44 $\mu$ , corpus diameter 66.52-69.88 $\mu$ . Central body with an equatorial annulus, annulus 5 to 10 $\mu$  wide, annular surface undulate. Exine of corpus scabrate or granulate. Prosaccus 8 to 16 $\mu$  wide, completely encircling the central body in equatorial region, surface flat or frilled, exine fine intrareticulate.

Comparison: *Callialasporites annulatus* differs from other species of *Callialasporites* in having an equatorial annulus.

Affinity: The exact affinity of this species is unknown, but it undoubtedly belongs to the Coniferales.

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## SPORO-POLLEN ASSEMBLAGE AND GEOLOGICAL AGE OF THE LOWER XINMINBU FORMATION OF CHIUCHUAN, KANSU

Hsü JEN

(Peking Institute of Botany, Academia Sinica)

CHIANG TE-CHIN AND YOUNG HUI-CHIU

(Laboratory of Petroleum Geology of Lanchow, Academia Sinica)

### ABSTRACT

The Lower Xinminbu Formation is a lacustrine deposit which consists mainly of black papery shales intercalated with greyish green thick-layered sandstones and grey thin-layered marls. There are greyish white and reddish brown thick-layered conglomerates in the basal part. The total thickness of this formation sums up to 1135 metres. The black shales are rich in fossil pollen and spores. One hundred and sixty-two rock samples collected from six natural sections and two bore-holes of the above-mentioned deposit at Hongliuxia, Xinminbu, Hanxia, etc. have been treated. A lot of fossil pollen grains and spores have been found from 33 samples of them. Twenty species (or forms) of pollen and spores referred to 19 genera are described in this paper. Two species are described as new.

The sporo-pollen assemblage of the Lower Xinminbu Formation is characterized by the absolute predominance of the pollen grains of gymnosperms, by the diminution of the spores of fern, and by the presence of the pollen grains of angiosperms. The pollen of gymnosperms amount to 93.3% of the total number of the microflora. The spores of fern merely amount to 5.9% of the total number. Although the pollen of angiosperms are rarely found, they play an important role in the microflora. The prominent characteristics of this microflora are the predominance of the pollen grains of Coniferae, the abundance of the spores of Schizaeaceae and the presence of the pollen grains of the angiosperms. Based on the palynological investigation, the authors consider that the Lower Xinminbu Formation should belong to Early Cretaceous in age, because the Early Cretaceous floras both in the Eurasian Continent and

in the northern American Continent possess ordinarily the above-mentioned characteristics.

According to the flora reflected by the present spore-pollen assemblage, it may be supposed that the climate of the Chiuchuan Basin in the Early Cretaceous period was certainly rather warm and wet. It may be referred to subtropical type similar to that of southern China at the present time.

Description of new species

*Schizacoisporites zizyphinus* sp. nov.

(pl. 1, fig. 11; pl. 2, fig. 1)

1962 *Schizaea* sp. 2 Chang p. 259, pl. 2, fig. 8a—c.

Holotype: No. 593 (pl. 2, fig. 1)

Diagnosis: Spores zizyphus-shaped,  $33.06-43.50 \mu \times 13.92-20.88 \mu$ , monolet. Exine about  $1 \mu$  thick, and thicker at both ends. Surface with  $14 \pm$  ribs which are parallel to the long axis, straight or slightly curved, convergent or non-convergent at both ends. Ribs about  $0.5-1.2 \mu$  thick, and about  $2 \mu$  distant.

Comparison: This kind of spores is similar to *Cicatricosporites pseudodorigensis* (R. Pot.) Pf. et Th. from Cretaceous of Quedlinburg (Weyland et Greifeld, 1953, p. 43, pl. 11, figs. 48—50, 53), but the latter is rounder, with non-parallel ribs, which are not convergent at both ends.

*Cingulatisporites ruginosus* sp. nov.

(pl. 2, figs. 2, 3, 3a)

Holotype: No. 608 (pl. 2, fig. 3)

Diagnosis: Spore rounded-triangular in polar view. Diameter  $35.08-52.20 \mu$ . Triradiate suture long, stretched up to the equator. Cingulum 3 to  $8 \mu$  wide, with wrinkles in layers. Exine at the angles of the spore thicker than that of the other parts. Surface with granular sculpture.

THE SPORE AND POLLEN ASSEMBLAGES FROM THE  
QUATERNARY DEPOSITS OF THE CHINGHAI  
LAKE BASIN AND THEIR SIGNIFICANCE

H. C. YOUNG AND T. H. CHIANG

*(Geological Institute of Lanchow, Academia Sinica)*

## ABSTRACT

The Quaternary deposits of the Chinghai Lake Basin have not yet been studied systematically. Based on the geological field investigations, these deposits are tentatively divided into the Hatawan, the Erhlangchien, the Lower Puhaho and the Upper Puhaho Formations in ascending order by the authors. The lowermost one is a shallow water lake deposit, composed of pink clays interbedded with thin-layered yellowish green fine sands. The second one is a typical lacustrine sediment which consists of greyish green clays and clayey silts intercalated with thin-layered grey sands or pebbles. The third one comprises fluvio-lacustrine sediments and loesses. The uppermost one contains proluvial, alluvial, eluvial, lacustrine, deltaic and aeolian deposits. The total thickness of these formations is about 200 metres.

In all four formations, fossils are rarely found. The authors have tried to settle the problem of the geological ages of these deposits throughout palynological investigation. Thus, 177 rock samples collected from eight natural profiles and five boring-profiles of the above mentioned deposits have been studied. Unfortunately only a small quantity of pollen grains and spores has been obtained from 33 samples of them. Forty-four species (or forms) of pollen and spores referred to 35 genera are described, and a part of pollen spectra of pollen-bearing profiles are presented in this paper. Besides these, the stratigraphical division and the palaeoclimatic and palaeogeographic conditions of the Quaternary Period in this region are discussed preliminarily.

From the Hatawan Formation, a few spores of Polypodiaceae and a number of pollen grains of *Picea*, *Cedrus*, Pinaceae, Cupressaceae, *Populus*, *Salix*, *Juglans*, *Quercus*, *Allium*, *Artemisia*, Liliaceae, Leguminosae, etc. have been observed. Among them, the pollen grains of herbaceous plants are dominant, and the tree pollen grains are secondary in frequency.

The Erhlangchien Formation is comparatively rich in spores and pollen. Many pollen grains of *Picea*, *Cedrus*, *Pinus*, *Ephedra*, Pinaceae, Cupressaceae, *Populus*, *Salix*, *Juglans*, *Alnus*, *Betula*, *Quercus*, *Potamogeton*, *Allium*, *Asparagus*, *Artemisia*, Gramineae, Liliaceae, Urticaceae, Chenopodiaceae, Amaranthaceae, Rosaceae, Compositae, etc. and some spores of *Salvinia*, Pteridaceae, Polypodiaceae, and Bryophyta have been obtained from it. The pollen flora is characterized by the predominance of the pollen grains of woody plants and the diminution of those of herbaceous plants.

In the Lower Puhaho Formation, the microflora is very poor. So far only some pollen grains of *Picea*, *Pinus*, *Populus*, *Salix*, *Artemisia*, Chenopodiaceae, Leguminosae, etc. and a few spores of fern and moss have been found.

In the Upper Puhaho Formation, there are some pollen grains of *Salix*, *Allium*, *Asparagus*, Gramineae, Chenopodiaceae, Leguminosae and Compositae (including *Artemisia*). The pollen of herbaceous plants are absolutely dominant. The other prominent feature of this microflora is the absence of pollen of arboreal plants and spores of fern.

According to the spore and pollen assemblages, the development of the vegetation of the Quaternary Period in this region may be divided into two stages, the stage from forest—steppe to forest and that from forest to steppe. In the former stage, thermophilous and hygrophilous trees, such as aspen, alder, birch and oak, were flourishing there. The climate of Chinghai Lake Basin during that time, therefore, should be warmer and moister than that of the present. At the beginning of the latter stage, however, such xerophilous herb as Chenopodiaceae, *Artemisia*, etc. had prevailed in the area, thus it indicated that the climate was rather dry. Since then, the vegetation had been changing gradually into the steppe, just like that of the present, and the climate was trending towards semi-aridity.

Comparing the preceding spore and pollen assemblages with those of North China, West Siberia and Kazakstan of Central Asia, the authors suggest that the lower three formations are of Pleistocene Epoch, and the upper one is of Holocene Epoch in age. Owing to the similarity between the spore and pollen assemblage of the Erhlangchien Formation and that of the Choukoutien Stage, it is possible that the Erhlangchien Formation may be equivalent to the Choukoutien Stage, belonging to Middle Pleistocene. The age of the Hatawan Formation may possibly be considered of Early—Middle Pleistocene, and that of the Lower Puhaho Formation may be of Late Pleistocene or Late Pleistocene to Holocene.

Based on the pollen analysis, the authors consider that the Chinghai Lake had already appeared during the Early Pleistocene and that in the Middle Pleistocene, it should be a fresh lake with the largest width and depth in its history. After that time, however, the lake began to diminish and to concentrate strikingly. It may be assumed that the diminution and concentration of the lake are probably due to the elevation of the earth's crust on the end of the Middle Pleistocene. This is indicated both by the shifts of floras and by the variations of the sedimentary facies during the interval.

Petroleum Sporo-Pollen Assemblages and Oil Source Rock  
of Yumen Oil-bearing Region in Gansu

Jiang De-xin and Yang Hui-qiu  
(Lanzhou Institute of Geology, Academia Sinica)

ABSTRACT

Twenty-six species (or forms) of fossil pollen and spores referred to 24 genera extracted from the crude oil samples collected from the Yumen oil-bearing region in West Gansu are observed and the definition of the petroleum sporo-pollen assemblage is given by the authors. On the basis of palynological investigation, the oil source rock of this oil-bearing region is tentatively discussed in the present paper.

The fossil pollen and spores found from the Tertiary petroleum in this region may be divided into two groups, because they are extremely different in fossilized state. The group of spores and pollen with higher fossilized state is mainly consisted of Schizaeoisporites zizyphinus, Cibotiumspora paradoxa, Monosulcites minimus and Bennettiteaepollenites sp.. The other group comprises Pinus, Picea, Ephedra, Potamogeton, Lilium, Ulmus, Chenopodium, Nymphaea, Eutrema, Lens, Nitraria, Tamarix, Achillea, Artemisia, Solidago, Bidens, Graminidites, Cypheraceaepollis, etc.

The above mentioned petroleum sporo-pollen assemblage of the Tertiary oil reservoir rock is a gathering of fossil pollen and spores brought from the Lower Cretaceous deposits and the Tertiary deposits respectively. The appearance of the Early Cretaceous pollen and spores bearing in the black shales of the Lower Xinminbu Formation in the Tertiary petroleum may be considered to be a result of petroleum migration. And it reflects that the oil source rock might belong to Early Cretaceous series.

The fossil pollen and spores extracted from the Early Cretaceous petroleum in this region contain merely Schizaeoisporites zizyphinus, Monosulcites minimus, Bennettiteaepollenites sp., Psophosphaera, etc.. The Tertiary pollen and spores are completely absent there. So it indicates that both the oil source rock and the oil reservoir rock should belong to the fossil-bearing Lower Xinminbu Formation.

In addition, there are some pollen of Monosulcites and Psophosphaera in the petroleum reserved in the fissures of the Silurian metamorphic rock. They are also probably brought from the Lower Xinminbu Formation by oil and gas in the process of their migration.

In any case, judging from the pollen and spores found from the crude oil, the oil source rock of this oil-bearing region is deduced to be the black shales of the Lower Xinminbu Formation referred to as Early Cretaceous epoch. This conclusion is consistent with the results derived from the investigations of organic geochemistry.