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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.

Karl J. Niklas, 01:31 PM 11/25/98, Death Notice

Delivered-To: traverse@ems.psu.edu
X-Sender: kjn2@postoffice4.mail.cornell.edu
Date: Wed, 25 Nov 1998 13:31:09 -0400
Reply-To: PALEOBOT@DARTMOUTH.EDU
Sender: Paleobotanical Section list <PALEOBOT@LISTSERV.DARTMOUTH.EDU>
From: "Karl J. Niklas" <kjn2@CORNELL.EDU>
Subject: Death Notice
Comments: To: PALEOBOT@Dartmouth.EDU
To: PALEOBOT@LISTSERV.DARTMOUTH.EDU

*file:
Banks*

Dear Sir or Madame,

I regret to say that Harlan P. Banks, the distinguished scholar and teacher of botany, died Sunday 22 November at the age of 85.

Sincerely,

Karl J. Niklas

29 May, 1998

Dear Harlan:

It's supposed to be impolite to write a personal note with a typewriter, but if you are to be able to read it, it's the only way!

Just got the distressing news about your health problems. My mental image of you is the guy who went to Australia with me some years back---fit as a fiddle. (Do you recall that there was a famous phycologist--or was it mycologist--from the Univ. Tex. who got oxygen all during the flight? He must have REALLY needed to go!) Another favorite recollection was when I met you in the men's room of a rest area on the NY ²hruway. I brought you out to meet my mother--must have been a while back as Mother died in 1990. I suspect it was when I was taking her to New Brunswick in 1979.

I am now emeritus, but I still go to the lab/office most days when I'm in town, and I have a bunch of

projects going. Some friends and relatives don't understand, but they don't realize that it's my hobby, and just because I don't get paid for doing it any more doesn't mean that I've lost interest.

I didn't know that you'd gone off ~~The~~ New Hampshire. Maybe somebody can fill me in.

Betty got her Ph. D. in German literature three years ago, and now she goes off to important-sounding meetings giving papers and posters. Her special field is Medieval poetry. Her special guy is Neidhart von Reuental--early 13th century. She still processes samples for me in the palynology lab, but it gets to her when she is described as the lady who does Dr. Traverse's lab work.

Well, dear Harlan, I wanted you to know that I have marvellous memories of you and am deeply hoping that you're doing better.

All the best,





Dec 6, 1991

Dear Al.

I do appreciate your kindness in bringing my medal home from Lucknow and then forwarding it to me. Many thanks.

Were it not for my understanding that you must be extremely busy recovering from the time lost in class by your trip, I'd have telephoned you to hear first hand of all your *fun* (?) (!).

I'll wait now until the students are leaving for Christmas. I'm sure you won't have forgotten anything.

All good wishes to you both!

Harlan

as I was about to mail the above note, a great package arrived containing my scroll, a unique plastic note holder, and a program plus your (my) manuscript.

Good gracious did you have to sit through all those talks
Nov. 14 15 16 17 18 19 20 21 22 ? If so, you're a real martyr.

It seems clear that Dave Dilcher was deeply

It bothers me that you had to get "Delhi belly" in exchange for hard trip, a lot of work and a medal. You certainly earned the latter.

Again, many many thanks and good wishes for a full recovery. Harlan

involved in the whole business. And recently he wrote Karl Niklas ^{article} for a ms to be published, with others, in The Paleobotanist. It is unclear what connection it will have with papers read in Lucknow for Sahni — if any. Karl and I had a strange paper on ~~the~~ paper in plants underway so it will go to Dave for Paleobotanist. I had understood that our papers (medalists) would go in Geophytology, in my view a somewhat lesser journal. Well — we'll see.

I noted that Jim Cairns was listed as giving 36th A.C. Seward lecture. I hope he made it.

And I see you inaugurated (page 11) the Symp. "Evolutionary Plant Biology" Nice that they gave you 1 hr 15 min. But why did they not list you again on page 17?

I also noted that Chairman of National Organizing Committee and also of the Steering Committee was H.Y. Mohan-Ram. He's an old friend. Was a grad student at Cornell in Plant Physiology — and a very bright one. Another participant I knew well was Hari Maheshwari and also R.N. Lakshampal.

I see Knut Norstog and Yves Lemoigne among the names. Also W.B. Keith Holmes the Australian who collected Glossopterids — usually with his wife whom I'd suppose accompanied him.

Must have been some show!

I think I told you Deanne Edwards was asked to give a paper. She asked me to stick to the taxonomic — evolutionary side and she'd do the ecological-physiological phytogeographic etc. But her name was nowhere to be found on the program. Did she cancel OR maybe she was invited to the big show at Allahabad rather than Lucknow and we both assumed we were going to the same show and really were not at all!

Looks to me as though you did a splendid job of selecting the salient points in my paper. I am truly indebted to you.

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2 December, 1991

Dr. Harlan P. Banks
Cornell University
Division of Biological Sciences
Plant Science Building
Ithaca, NY 14853

Dear Harlan:

Under separate cover, your medal. I do believe neither of us would have got the award unless one of us appeared and gave both talks.

I did a good job with your lecture, according to report. I enclose what I did--the platform MS is almost exactly what I presented, except for a couple of jokes I told.

In addition to the medals I also "got" "Delhi-belly", and still, two weeks later, am just beginning to return to normal.

All the best.

Yours very truly,

Alfred Traverse

AT/et
encl

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30 October, 1991

Dr. Harlan P. Banks
Section of Plant Biology
Plant Science Building
Cornell University
Ithaca, NY 14853

Dear Harlan:

Just to let you know that the paper came in good order--I am taking you up on having copies made of some of the illustrations for the paleobotany course--nice slides!

I'll do my best with presentation of your paper, but of course there is no way I can equal the genuine article!

Yours very truly,

Alfred Traverse

AT/et



July 7, 1991

Dear Al,

Many thanks for all your information, suggestions, and help.

But my dilemma has been solved. Our state budgetary crisis has "pulled back" the \$ I had intended to use to pay for the trip and I can not afford to pay myself. I have written "chala" to this effect and assured him that I can not change my mind.

I have just been told that I will be honored by my alma mater - Dartmouth - on Nov. 14-15, 1991 - and have accepted. If India were still possible, I'd have refused Dartmouth.

So I can only wish you well - I'm sure you will have a good trip and visit. Someday, perhaps, you will let me touch the medal to see what I missed!

All the best,

Cordially,

Harlan Banks

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20 May, 1991

Dr. Harlan P. Banks
Biological Sciences/ Plant Biology
Cornell University
Plant Science Building
Ithaca, NY 14853

Dear Harlan:

Yours of 14 May just in. I will call, but I also wanted something in writing. Your data on the air fares are interesting and about the same as I had discovered. (It is possible to go westward, e.g., Japan Air Lines, etc., via Singapore, and some other ways, but it's much more expensive.) It is obvious that one needs to stay 14 days. Besides, Agra is not far from Lucknow!

The mess (messes?) you've uncovered are not surprising. When I was ICP president I had to deal with the maddening fact of two competing national palynological societies for India. One of them had (as far as I could tell) no members outside of Lucknow. Pant was head of the other, and I dealt with him, as the ICP councilor for India. But it drove us all wild.

It is probable that there will be further various horrors about this situation. I thought the symbolism was interesting that when Rowley got the medal in Brisbane in 1988, the Indian entourage had a solemn procession to the stage with the medal on a little rack on a pillow. During the presentation speech the person holding the pillow switched position slightly, sending the rack and medal crashing to the floor amid hundreds of "ooooh"s. Rowley said the medal was "only dented a little."

So it comes down to whether you want to go, visit the Sahni Insititute, etc., etc. The medal sounds pretty good in one's resume, regardless! I've had a further letter from Chala saying I should stay "a week." I presume they'll pay and won't balk too much on how many days--such things are cheap in India. He still hasn't answered my queries about my lecture. I don't intend to worry much about it. The competing meeting doesn't worry me--I'd

rather go to Lucknow anyway (I like Venkatachala, and want to see the Institute). So, if you want to go, go and don't bother yourself too much about the details and complications. It will cost you a little money, probably, but not really much.

All the best.

Yours very truly,

Alfred Traverse

P.S. Home phone: 814-643-1958
Address: RD 2, Box 390
Huntingdon, PA 16652

AT/et



Cornell University

Division of Biological Sciences
Section of Plant Biology

1005 Highland Rd

Ithaca
14850

Plant Science Building
Ithaca, NY 14853-5908

607/255-4477

5/14/91

Dear Al,

Travel agent only just gave me the news. ^(airline) They do not go to India across the Pacific (a surprise to me).

I get: if go for 14 days (includes travel):

- a. during the week — \$ 1562
- b. on the weekend — \$ 1620

c. If go for less than 14 days — \$ 2330

These flights leave N.Y. City. I do not yet know what airline.

However — I am upset by the schism in India and by the failure of Venkatesh to answer my questions!!!

My invite was identical to yours except my medal is for 1988-1989. The invite said the local hospitality is borne by the Society. BUT I don't know for how many days nor for what days. I got a FIRST CIRCULAR recently and it says 2 (two) days & plans 15 minute ^{but gives no dates,} papers. Now if we 2 medalists are asked to give acceptance lectures at the award ceremony (whether or not you actually do), and if Dianne Edwards is planning a key lecture (by invitation), when will be the time for the food???

I hate to think of the cost of travel over & back for just 2 days YET I do not propose to spend any of my own money over there — The award is not worth it and I don't have it to spare anyway.

Then came the invitation to come to Allahabad where

Pant, Nautiyal and colleagues are planning a similar celebration AT THE SAME TIME. Their dates are 13 14 15 16. They say a FIRST CIRCULAR will come soon. I know Pant best of all Indians and respect him. So I'm torn, having told Venkate that I'll appear, I do not feel right in now refusing him and going to Allahabad instead.

The 14 Nov is Sahn's birthday so both outfits will make that day a highpoint.

RESULT I am developing cold feet about the whole business.

Any comment?

My home phone is:

607 257-7290

On good days we are gardening or often fail to reach the phone in time. But we do eat. So

noon time or 5-7 pm (or later) are good times to catch us.

I have your office but not your home phone.

Regards,

Harlan Banks

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17 April, 1991

Dr. Harlan P. Banks
Cornell University
Plant Science Building
Ithaca, NY 14853

Dear Harlan:

Enclosed is a xerox of my "award letter." As I said, we'd better clam up about the possibility that everybody gets a medal! Was your letter similar? Whom did they get for 1986-87? Etc. Congratulations, by the way.

I was invited to lecture at the meeting itself earlier but turned that down--I really don't have time to prepare. When the medal came through I decided I'd better go get it. I believe the medal ceremony is a different deal entirely from the meeting-proper--at least, that's what Dilcher thought.

My travel agent advises going to India eastwards! It will cost about \$1880. Have you got a better price westwards?

Best.

Yours very truly,

Alfred Traverse

AT/et
encl

Sunday April 7

Dear Al,

I meant to reply promptly to yours of 12 March but Kit and I were called away by illness of her brother and are just back. Right now I'm sitting in the sawdust of Coll. of Agric. judging pavilion while Kit and other enthusiasts are training their dogs in Obedience. Kit trains daily at home but three weekly here. Older sheltie won top degree (Utility Dog Degree that I call the Ph.D.) in both USA and Canada last year. Younger dog is just starting work on Companion Dog Degree (A.B. to me) but he looks promising.

My award from Venkatachala is Palaeobotanical Society International Medal for 1988-1989. Could yours be 1990-91?

No, I'll tell no one that even two awards are being made — as you say, we need the \$ and the college support.

I have learned that Dianne Edwards is invited to lecture at — she says — the same meeting. I hope that does not mean three of us after 1 banquet. To me, the invitation ~~is~~ ^{meant} a one hour talk and I intend to use the hour! If they meant otherwise, it is up to them to say so. Dianne is to talk on the more physiological aspects of early occupation of land, a subject on which she now has a cluster of papers. She'll also do those "tubes" and "cuticles". All that is fine for me. I'll stick to old-fashioned taxonomy and simply point out the changes and additions since I published *Rhyniophytina, Truncos - Zosterophyllo-* in 1968.

I have talked to David V. Icher who is helping Venkatachala organize the meeting. He claims to know of no other medal awardees. Dianne says Venkat is trying for British money with which to help attendees.

Maybe (my suspicious mind) Venkat thinks the medal will replace \$ and that our egos are polished enough that we will raise our own money. It just happens that I have accumulated

enough for the travel in a small grant that I continue to get from the college. Venkata did say "local expenses will be paid". I hope he will keep his word. Did he tell you the same?

David Dilcher is to be some form of Visiting Prof at the Sahni for two months in 1991 — Oct-Nov I believe. David says the Sahni celebration is Nov 14-20 but when I talked with him he said those are not FIRM dates — Venkata is waiting to see how many will come before setting the date. Mustn't wait forever!

I've not yet been to a travel agent so have no ideas other than that I'd prefer a plane that is well repaired. Where did we meet last time — in L.A.?

From Ithaca most flights to the West go thru' either Pittsburgh or Chicago. We might connect there but certainly on the West coast. I do not plan to stay in India longer than the meetings — at least not as of now. I asked Venkata for details of dates etc so as to be able to plan.

As the days go by and as information accumulates, we may need to make contact by 'phone. No sense calling my office — small chance of catching me there.

Home 'phone 607-257-7290

Meal times 12-1 5-7 are good. We are out in garden a great deal and often fail to reach the phone in time.

Regards to Betty as well as to you
Harlan Banks

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12 March, 1991

Dr. Harlan P. Banks
Cornell University
Division of Biological Sciences
Section of Plant Biology
Plant Science Building
Ithaca, NY 14853

Dear Harlan:

Second box came in super shape, as the first--aren't styrofoam "worms" great? All items accessioned and many from Box 1 already used in the lycopsid lab exercise. Others will be in trimerophyte and progymnosperm exercises. I am very grateful to you.

Re Sahni celebration--I hadn't planned to go until Venkatachala wrote to say I will get the Paleobotanical Society's biennial medal. Now I guess I have to go! What medal are they giving you? If everybody gets a medal, for heaven's sake don't tell PSU--they may pay part of my way because the medal letter impressed my department head. It's just 10 years since we flew to Australia together! I'll be going whatever way is the best deal (within reason)--suggestions?

Best regards.

Yours very truly,

Alfred Traverse

P.S. Betty types the letters--but I write them.

AT/et



4 March 1991

Dear Al.

The package I sent you by parcel post contained

- ✓ *Serrulacaulis furcatus* #1588
- ✓ *Sawdonia ornata* #1607
- ✓ *Taeniochrada dubia* #1610
- ✓ *Archaeosigillaria vanuxemi* #1577
- ✓ *Drepanophycus gaspianus* #1623
- ✓ *D. spiniformis* #1178
- ✓ *Gosshugia breconensis* #1818
- ✓ Rhynie chert #1666 or 1958 (same locality, 2 collections)
- ✓ *Archaeopteris* _____ #1858
- ✓ *Archaeopteris fertile* _____ #1858

Shortly, I'll send by UPS

- ✓ *Archaeopteris* #1944
- ✓ *Archaeopteris fertile* #1719
- ✓ *Drepanophycus spiniformis* #1891 - but it should be changed to #1928
- ✓ *Tetraxylopteris schmidtii* 2 pieces both #1836
- ✓ *Psilophyton dawsonii* 3 pieces #1701
- ✓ *Callixylon* #1724 (specimens marked #1224)
- ✓ *Sawdonia ornata* 2 bits macerated out, mounted in bioplastic #1607

2 slides ^{one} of *Psilophyton dawsonii* (#1701)one of *Sawdonia ornata* - macerated #1607

The list seems to repeat *Archaeopteris* so I wonder if I made a mistake. Never fear 2 bits are better than one.

Enclosed are labels for all. I believe I enclosed a label for *S. ornata* in the first shipment.

Our collections are a mess because of moves from room to room made by workmen after I retired. Finding what I want is now a distasteful chore and of course I have no help. So I can only hope these will do you a little bit of good. Amongst my reprints you ought find more about the stuff if you hunt a bit.

Good luck,

Harlan

PS Is Al going to the Sahne

Modified by T. Wayne Furr, after P. Johnson;
Cartography by Massoud Safavi

Centenary in Nov. '91. I am and
am seeking company

Dear Betty,

Why say Al? he
didn't start to type this!

BOTH 1666 AND 1958
are Rhynie chert. The
numbers are collection numbers
and simply represent different
visits to Rhynie.

Hope Br II has
arrived by now and not too
broken up. The best to you BOTH
Harlan

The geology of Oklahoma was formed through millions of
years when rocks that represent each geologic time period
were deposited. Sedimentary rocks dominate exposures
across the State, with major areas of igneous-rock outcrops
located in the Arbuckle and Wichita Mountains of south-

POST CARD



ALFRED TRAVERSE
Delke Building
Pennsylvania State University
University Park, Pa. 16802

central and southwestern Oklahoma. The Oklahoma Geological Survey was formed in 1908 to investigate the geology, the energy-, mineral-, and water-resources of the State and to make the results of its studies available to the public.

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25 February, 1991

Dr. Harlan P. Banks
Cornell University
Division of Biological Sciences
Section of Plant Biology
Plant Science Building
Ithaca, NY 14853

Dear Harlan:

What a marvellous bunch of presents! The whole thing is just great for my paleobotany class--and very timely!

There is one teensy problem: one package had two pieces of chert, (#1666 or 9991?) and #1958. Can you confirm that it's Rhynie stuff? I'll have sections made asap: addressed, stamped card for answer enclosed.*

All the best.

Yours very truly,

Alfred Traverse

*Harlan, about the card--it looks somewhat weatherbeaten, because I (very foolishly) started to type the message to you on it, before I realized it was for your message to Al! Oh, well.
(Betty)

AT/et

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28 January, 1991

Dr. Harlan P. Banks
Division of Biological Sciences
Plant Science Building
Cornell University
Ithaca, NY 14853

Dear Harlan:

Many thanks for your (as always) interesting letter of 18 Jan. You've given me many good tips that I'll follow up on one of these months. As I said before, any Devonian fossils you have that could be spared for our paleobotany course would be helpful. We don't even have a thin-section of Rhynia.

All the best.

Yours very truly,

Alfred Traverse

AT/et

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6 January, 1990

Dr. Harlan Banks
Cornell University
Section of Plant Biology
Plant Science Building
Ithaca, NY 14853

Dear Harlan:

I'm giving paleobotany again this year (although I really don't have time, when Spackman retired I decided to rescue the course). We have very inadequate collections for teaching this subject. Do you have any specimens I could have for such use of:

1. Baragwanathia
2. Zosterophyllum, etc.
3. Drepanophycus
4. Taeniocrada
5. Rhynia or Horneophyton
6. Archaeopteris?

Another matter that popped into mind as a result of your recent letter: is there any Devonian locality within striking range (PA, southern NY) to which I could take the class for a field trip?--ideally with you, but I could go with you oto check out and then lead trip myself.

All the best to you.

Yours very truly,

Alfred Traverse

AT/et

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30 December, 1990

Dr. Harlan Banks
Cornell University
Section of Plant Biology
Plant Science Building
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Dear Harlan:

Reprint of Schuyler & Traverse enclosed per request. I appreciate your kind comments. Perhaps you already know the sad story about Andy Schuyler. With 90% of his doctoral work complete, he had to quit because of a progressive eye disease that prevents him from using a microscope. I must somehow complete the project.

I'd love to get together with you re eventual expansion of our Devonian research. I intend to make this the focus of my future work, partly for purely practical reasons. After all, my own home sits atop the Mahantango Fm. (Emsian, probably)! Our son, who is a cardiologist, lives in the Binghamton area. Maybe one of these days I could stay in Candor (I love the name) and oscillate between Ithaca and Bing.? Know of a B&B in Candor?

All the best to you for 1991.

Yours very truly,

Alfred Traverse

AT/et
encl: reprint



Dec 13, 1990

Dear Al

I've been going through
Rev. of Palaeo Palynol 64 and have come
to "Sedimentology of miospores" by Schuyler
and Traverse. I'd appreciate very much
a reprint of same when available.

Studies like this have long been needed in
New York and it is encouraging to see the
work being done.

Your Fig 2 with that striking boundary,
the triangle formed by 1-88 187 and
NY 17, includes localities I have looked at
for many years. Of course, to the south in
Pa. there's lots more — that is, continue
the rectangle in your insert outline of N.Y.
southward into Pa. This includes a very little-
studied area that has abundant Devonian fossils.
Bradford Willard in his Devonian of Pa.
did some of the job.

Hope you are well and prospering.

Cordially,

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22 February, 1989

Dr. Harlan P. Banks
Division of Biological Sciences
Section of Plant Biology
Plant Science Building
Cornell University
Ithaca, NY 14853

Dear Harlan:

Many thanks for the additional info re genets and ramets, etc. I must at least read Cook again--I will have read it in Amer. Sci. when it came out--and it did sound vaguely familiar!

All the best to you and Kit.

Yours very truly,

Alfred Traverse

AT/et
encl: xerox re Paleopalynology

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3 February, 1989

Dr. Harlan P. Banks
Section of Plant Biology
Plant Science Building
Cornell University
Ithaca, NY 14853

Dear Harlan:

What a nice and fun letter. And it taught me some very valuable things too. Example--root-grafting. I knew about it because at this university it is the enemy--elms apparently root-graft readily, and the dread elm disease can then spread by way of the grafts. But I surely should have worked that in! The info re Gymnocladus, Acanthopanax, Robinia and Rhus was good stuff for future meditations. Incidentally, I planted hundreds of R. pseudoacacia because, among other things, deer don't browse them much. But male deer destroy them in autumn with their antler polishing. I didn't discover that until the seedlings became saplings.

Your correspondent was referring to my textbook of palynology: Paleopalynology, Unwin Hyman, 1988. I wish you knew who gave it a good (if brief!) "review," as I'm saving such items.

Finally, why am I drawing a blank on "remets" and "genets"? Not in unabridged, not in Bailey's Cyclopedica, not in Jackson's Glossary of Botanic Terms, etc. Cluster of students in the hall couldn't help. Incidentally, Betty and I ate breakfast a couple of times in Berlin in 1987 (IBC) with a British-accented gent who said he was director of Arnold Arboretum. Did he get fired?

Thanks again.

Yours very truly,

Alfred Traverse

P.S. Will Stein do Devonian in Binghamton?

AT/et

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

6 January, 1989

Dr. Harlan P. Banks
Plant Biology
Cornell University
Plant Science Building
Ithaca, NY 14853

Dear Harlan:

In Brisbane on 1 Sept. 88 I persuaded the authorities to open up the campus bookstore, which was closed for inventory--I wanted to check it out. Soon a couple joined me (see attachment). She was a Cornell graduate. When she heard I had something to do with fossil plants she said, "You must know Professor Banks". Then she proceeded to regale me about an appearance you made at the Melbourne Cornell club. You sure get around!

Happy 1989 old friend!

Yours very truly,

Alfred Traverse

AT/et
attachment



Cornell University

Division of Biological Sciences

Section of Plant Biology

Plant Science Building

Ithaca, New York 14853

607-256-4477

Sept. 4, 1986

Dear Al

Thanks for writing Bill Chalmer.
I have done so too.

At the moment I am not planning
on Berlin. If I do change my mind,
I'd like to go for enjoyment, not work.
It is important, too, to get younger people
into these Commissions else they'll die
on the vine.

I enjoyed your spoof too. Someday
you must add Lepidodendron to your collection.
Remember those large metal doors sometimes
found on sidewalks outside big stores?
When open, they permit deliveries to basements.
These doors are usually decorated by
pointed ellipses that always call Lepidodendron
to my mind.

All the best
Harlan

11 May, 1984

Dr. Harlan P. Banks
Cornell University
Division of Biological Sciences
Plant Science Building
Ithaca, NY 14853

Dear Harlan:

It's been too long since we corresponded anyway, but I have an item for your consideration. These pieces of a "log" were found in a coal mine near Johnstown, PA. Our museum curator, who is interested in them for the museum, identified them as Sigillaria, and I can see why, but they don't look like any Sigillaria in my library (Hirmer, Gothan, etc.). Have you ever seen anything like them?

Best wishes to you and also to Kit. All is more or less o.k. here.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et
encl: xerox



Cornell University

Section of Plant Biology
Plant Science Building
Ithaca, New York 14853
607-256-4477

9 June 1983

Dear Martin:

~~Fairley~~
I have shown your fossil to
Dr. J. D. Grierson SUNY Binghamton.
He would like to look it over more carefully
so I have handed it over to him. He
has collected widely in the area where you
found the specimen and should be of help
to you. Like me, he finds it intriguing.
If it did prove to be an articulate and
the strata are Devonian it would be a BIG-
FIRST. So the specimen deserves close
attention. I am giving Dr. G. copies of your
letters to me.

Sincerely

Harlan P. Banks

cc J.D. Grierson
Alf. Traverse

31 May 1983

Dear Al,

Just got home from chairing The "The Greening of the Continents" Symposium at AAAS - Detroit.

Your letter arrived just as I was leaving so I handwrote a reply & got it immediately in the mail - explaining why it was by hand. I hope you get the chance to go! Also thanks for your note re strange tetrads - I note that ^{Miller}Marrell and Eames use the names proposed by you and Paul! Have you seen their paper? At the symposium someone suggested Jane's tetrads might be algae & she ROARED back that "NO algologist will accept them as algae" I think Jane lost on the exchange! Sincerely
-Haden

Banks



Cornell University

Section of Plant Biology
Plant Science Building
Ithaca, New York 14853
607-256-4477

April 23 (1983)

Dear Al,

It is that I can write faster than I can type and the typists get to my mail last, as they should.

Yes, I have copies of my letters to you (photocopy).

And many many thanks for sharing your tentative views on what I call the STRANGE dyads and tetrads. I shall be on pins and needles awaiting the possibility that this hypothesis will be published, perhaps when Norma J. gets a thesis finished.

Grapevine tells me that "a" Strother (♂ or ♀ I don't know) has written a paper suggesting Eschostimella is worm

tubes. Hurrah - if it gets into print.
I have never accepted Eohostimella and just
recently Henry Andrews wrote that he had
not wanted any connection with that paper
(his name is on it anyway). I reminded the
reviewer of Strother that a certain biochemical
analysis had demonstrated Eohostimella to be
a rhyniophyte.

If worm tubes yield rhyniophyte
chemistry, would clam borings yield
zosterophyllophyte chemistry?

It is now Sunday - I'll drop my
evil thoughts and remind you that
I've had a stern lecture from my wife:
"Don't set down your brief case or bag
ANYWHERE, I'll not bail you out."
We do regret your unfortunate experience
and hope it will not be repeated.

All the best to you both
from Kit + me
HPB

8 April, 1983

Dr. Harlan Banks
Cornell University
Division of Biological Sciences
Plant Science Building
Ithaca, NY 14853

Dear Harlan:

It was great to see you and Kit at Kiamesha Lake. You must have thought it odd that I ~~didn't~~ mention your very nice letter of 19 March. Reason: I didn't get it until I returned here!

Now to your questions (but I worry that you may not have copies of your letters because handwritten--marvellously legible, by the way. The number of folk who can read my writing is now only 2). Some of Gray et al.'s things are acceptable as spores (Fig. 5). Others (cover-pics, Figs. 1-4) are better described conservatively as spore-like tetrads (Nodospora, for example)--all previously described by us. Norma Johnson (my new Ph.D. student), is doing some great work on these things--most of these tetrads have an outer membrane, which is a very alga-like feature, in my opinion. Further, many of our tetrad types seem to have dyad "opposite numbers", also with that outer membrane, when well preserved! Another alga-like hint?

You are quite right in suggesting caution--we've got to find these guys associated with plants before we can make too many claims.

Best wishes.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et
cc: Strother, N. Johnson



Cornell University

Section of Plant Biology
Plant Science Building
Ithaca, New York 14853
607-256-4477

March 19, 1983

Dear Al,

I can assume you are home from Germany because I have received your "Ultimogene" paper. If I may be a bit facetious, isn't this a bit atheistic or agnostic because if we are now in the ultimate there must be no Heaven! However I have enjoyed the paper and that is the chief objective!

(two spellings shows the Butch in me.)

Thanks too for yours of 7 December re Francine Martin's Ordovician spores that are acrotarthal. You add "next question please". Here it is.

I gather you would accept as spores the objects shown by Gray Mose & Boucot in Geology, 10: 197-203, 1982. They are said to be Cambodian (Ordovician) from Libya. Some are Ambitisporites-like. Some are more like your Nodospora and Tetrahaletes but, as usual, Jane does not describe them. But Jane goes ahead to imply that landplants at first had tetrads. That failed to dissociate (Nodospora + Tetrahaletes types) and that dissociating tetrads appeared later. To carry

Thus further (p. 200 in Zoology) she tells us, as though we did not know, that Rhynia Hornesophyton Nothia Zosterophyllum australeanum, then Lecleregia complexa and Banania huereri have tetrads! The last are difficult to dissociate! or so she claims Gensel claims.

You and Paul (Palynology 3 1979) and recently Miller and Eames Palynology 6: 221-254. 1982 are FAR more cautious and scientific. The latter use your tax and make a good report out of the "note" published by Gray and Boucot in Science about 1971. Do you you figure that others will have to do all the work that Gray and Boucot are FAILING to do?

But for me the question is: what are those strange tetrads? Have they necessarily anything to do with bryophytes or vascular plants or, even, land plants?

[NOTE: you + Paul page 1. If Eschostemella is a worm-tube, as Paul suspects, (and I have never that much of the evidence that it was a land plant), then what must I think of any of Niklas' chemical profiles?]

I gather that page 19 gives the answer for you and Paul. You suggest that most of these microfossils prob. represent the remains of thallophytes which had evolved structures enabling them to live in interstitial habitats.

This suits me until you come up with something better. It is both cautious and thoughtful. It satisfies me because I think Nodospora and tetrahaletes are STRANGE looking structures. Is perhaps this statement your short answer to the ravings of Gray?

7 December, 1982

Dr. Harlan Banks
~~Department of Biological Sciences~~
Cornell University
Ithaca, NY 14853

*Section of Plant Biology
Plant Science Building*

Dear Harlan:

Well, I finally got Fall Term finished (term papers for palynology, 250 evolution essays, etc., etc.), and have sat down to look at the Francine Martin monograph. I borrowed it inter-library and Norma J. made xeroxes for her and me.

The paper seems o.k. and very interesting re acritaria, chitinozoans and scolecodonts, though I am not an expert on any of them. The two "spores", however--and they are the subject at hand--are almost certainly nothing of the sort and make me wonder if F.M. knows much about spores. They are ~~it~~ texture-possessing sphaeromorph, "baggy" acritarchs, not spores. Even if they were spores, they certainly aren't referable to the two genera selected. Best thing to do (also kindest) is to ignore 'em. Next question, please!

Hope you are flourishing. We are busy with many things--especially getting ready for a trip to Germany in January--lectures and visits to various places.

Happy holidays and a most prosperous and interesting 1983 to you, good friend.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et
cc: N. Johnson, P.K. Strother

2 November, 1982

Dr. Harlan Banks
Department of Biological Sciences
214 Plant Science
Cornell University
Ithaca, NY 14853

Dear Harlan:

Thanks for the xerox of "Francine" and your interesting letter. It's approaching end of term here, and my two courses are driving me batty. So, I'll write you in a couple of weeks. However, I did want you to know that the grant came through! (Hallelujah). Paul S. and Cecilia were up for a day last week to work on a revised budget so that it'll help him as well as me.

All the best.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et



Cornell University

Division of Biological Sciences

Section of Plant Biology

Plant Science Building

Ithaca, New York 14853

607-256-4477

Oct. 15, 1982

Dear Al

Under separate cover I'm sending photocopies of:

- Cover page of Francine Martin's paper
- Text of the 2 genera of spores (don't get excited by page numbers — The intervening pages are all Plates).
- Three plates on which the spores are illustrated

Remainder of paper is chitinozoans + all manner of little fellows.

This should take care of you while you write for a reprint which I suggest you do.

DR Francine Martin
Department Micropaléontologie - Paléobotanique
Institut Royal de Science Naturelles
rue Vautier 31
Brussels 1040 Belgium

I met Francine in 1971 and was impressed by her knowledge and by her work. I am in no position to comment on her generic assignments of these two Ordovician spores but I expect

That she has them, that they came out of
the rocks, and that she antedates Gray
and Boucot. Now if they would do
the work (as she did) instead of bleating
about the significance of what they have
"in prep" or "in press", they'd probably
have convinced many more people (other than
geologists who unfortunately don't know any better)
than they have.

My great interest is to have your
evaluation of her spores, their generic
assignment, etc.

Good luck,

Harlan

5 October, 1982

Dr. Harlan Banks
Department of Biological Sciences
214 Plant Science
Cornell University
Ithaca, NY 14853

Dear Harlan:

Many thanks for yours of 25 August re Francine Martin's paper. Trouble is, PSU does not get Inst. Roy. des Sci. Naturelles de Belgique Mém., and they are trying to interlibrary loan it for me. In the meantime, if you have it and could xerox just the title page (showing bibliographic data) and the abstract or summary, and the pertinent pages for our interest (pp. 25 & 32?), I would be a leg up. In the meantime it'll be interesting to see if PSU's library system can do any good.

Latest from Paul Strother is that he and Cecilia went up to Harvard to be with Elso. You may have heard that ~~Margaret~~ killed herself last week.

All the best.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

22 September, 1982

Dr. Harlan Banks
Department of Biological Sciences
214 Plant Science
Cornell University
Ithaca, NY 14853

Dear Harlan:

Just got around to opening yours of 14 September--beginning of term has been hectic (Plus trips to orthopedic persons, hospital for physical therapy, etc.). I'm sending a xerox of your letter to Paul, in case he wishes to respond. "Our" localities around here are, in my opinion, non-marine or at least not proven to be marine, but there are certainly those who don't agree (e.g., Cotter at Bucknell).

All the best.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et
cc: Strother



Cornell University

Division of Biological Sciences

Section of Plant Biology

Plant Science Building

Ithaca, New York 14853

607-256-4477

Sept. 14 '82

Dear Al.

Many Thanks for the copy of my article.

It is true that Wed and Thurs^{and Friday} are meeting days for Eastern section of AAPG and Sat + Sun are days for N.Y. St. Geol. Ass. I'm attending latter only.

IF the Sat + Sun field trips are for BOTH meetings, I can only say that I see NO Ordovician trips listed. So Paul may have a different meeting in mind.

It does occur to me to note that YOUR Pa. localities are terrestrial, are they not, whereas those in western N.Y. are marine.

Paul is the only person I know who says flatly that eurypterids are fresh water. He cites a 1916 paper that I like but that I know no geologist to follow. Laub at Buffalo thinks Berthe waterlime, in which eurypterids are abundant, was shallow marine. Boucot says marine - etc.

So my main reason for mentioning the meetings was the opportunity to meet Sam Curca

who probably knows the field relationships of Bertie
and related Silurian better than most (if not all).

For goodness sake, you had better
put a hard hat on your appendages as well
as your head. Be careful!

Best regards to Betty too.

Cordially

Harlan

3 September, 1982

Dr. Harlan Banks
Department of Biological Sciences
214 Plant Science
Cornell University
Ithaca, NY 14853

Dear Harlan:

Yours of 17 August just arrived and was very interesting. I will xerox and pass along a copy to Paul so that he will see in that way your suggestion about Eohistimella. I shall also send along to Paul the photocopy of the program of the New York State Geological Association meeting in Buffalo. The problem will be, per a telephone call from Strother the other day, that there is another field conference on the latest Ordovician rocks in this general area which I believe must occur at practically the same time if not exactly synchronously with your meeting. Paul said that he would be sending me information about that session and hoped that we could both attend it.

Paul's address is

Dr. Paul K. Strother
Department of Geology
Dickinson College
Carlisle, PA 17013 phone: 717-245-1664

Thank you very much for the compliment about the meetings here. That seems to have been the general opinion, and Betty and I regard it as having been worth the trouble. I'm sure I speak also for Paul in expressing gratitude for your interest and encouragement for our efforts in the investigation of the earliest land vegetation.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

encl: copy of article (see other letter enclosed)
copy: Paul Strother

3 September, 1982

Dr. Harlan Banks
Department of Biological Sciences
214 Plant Science
Cornell University
Ithaca, NY 14853

Dear Harlan:

Thanks for yours of 21 August. In the meantime I have been so unfortunate as to have a fall in a quarry during a very unproductive bit of field work and have temporarily lost the use of my right hand. I am therefore dictating this letter with my little maching that Betty hates to see me get out, because it means she has to use the transcriber!

Enclosed is a xerox copy of your article in the Palaeobotanist. Sid Ash had me do the same thing while he was here with his article. There will obviously be no charge for this tiny service. You have done a lot for me in the past, dear old friend. Your experience with Indian publication agrees with everybody's. Fortunately my little article in the Palaeobotanist a couple of years ago came through relatively unscathed and the mistakes that there are in it are really my fault. Thanks again for the nice compliments about the meeting. I hope we'll see each other before too long. Regards to ~~Kit~~.

Kit.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

P.S. By the way, the article about "bark" formation in the Devonian was very interesting, both botanically and because it comes from very near the Traverse homestead locality in the Gaspé. I still have a few relatives up there. I often fall to musing about my late Father as a youth hunting and fishing throughout the whole area where all these important Devonian fossils were found. I'm sure he went to his grave knowing nothing about it at all! He was born on the Gaspé, but spent most of his young manhood in Campbellton, New Brunswick.



Cornell University

Division of Biological Sciences

Section of Plant Biology

Plant Science Building

Ithaca, New York 14853

607-256-4477

Aug 25/82

Dear Al,

I have no intention of becoming a pest but must tell you what I ran into yesterday.

Martin, Francine 1973. Ordovicien supérieur et Silurien inférieur à Dierlijk (Belgique). Mémoires - N. 174

Inst. roy. des Sci. Naturelles de Belgique

p 1-71 + VIII Pl.

On p. 25 - Leiotriletes sp. I.

Canadoc sup.?, Ashqill, Llando.

p. 32 - Schizaeoisporites sp. I

Ashqill - Llandovery.

Here are spores named and reported WITHOUT

FANFARE.

YOU can evaluate them etc etc.

But Francine has done the things Gray should do

Do you think Francine's are spores?

-- are trilete spores?

-- are land plants?

-- are vascular plants?

-- do indicate Ordovician

land plants as G. and B. claim?

-- do support G. and B.'s

work and make it more believable?

Joe Guennel's letter to Jane was splendid and is similar to what others have told her. I think editors should be told that persons do not want to be thanked when none of their suggestions are heeded. That's dishonest to imply that all the persons listed as readers accept all the author's have written. I think the practice should be STOPPED unless the Editor checks with each person listed!

Anyhow I just happen upon Francine and I think her stratigraphy can be trusted. Thus maybe there were some late Ordovician objects (depending on what you think of them).

I do think that various features of land plants may have evolved at different times.

Cheers!

Harlan



Cornell University

Division of Biological Sciences

Section of Plant Biology

Plant Science Building

Ithaca, New York 14853

607-256-4477

Aug 21, 1982

Dear Al,

Yet another letter!

Yes, I have been all over Cornell and nowhere is there a copy of *The Paleobotanist*. In fact the library has not received a copy in two years although they have PAID.

Hence, I would pay you whatever it costs to get a copy of the outer cover of the Number and a copy of my little article on Periderm in Psilophyton.

I never saw page proof nor did they ever say "It's in print." I did not order reprints because the last I received from India were so poor that I vowed not

to get stuck again. 50 - if
you can get a copy that I
can reproduce, it would be
a great boon

I assume the copy on your
desk is a personal one.

Yes - you may assume I have
our library on the hunt for the
cause of their problem.

Still murmuring memories
of the superb Pa. State visit

cordially
Harlan



Cornell University

Division of Biological Sciences

Section of Plant Biology

Plant Science Building

Ithaca, New York 14853

607-256-4477

Aug 17, 1982

Dear Al,

I don't want you and Paul to think I am interfering in any way with your project. But I do regard you two as my "white hope" to produce some evidence. That's the only reason for all my concern.

Personally I have always felt that Jim Schopp's Eohostimella was accepted far too uncritically. When Paul said he and his then "girl friend" had visited the site, found what he regarded as ~~turbidites~~ worm tubes, and learned that they are included in turbidites, I felt justified in my skepticism. Thus I encouraged him to write a brief paper on the "plant" perhaps submitting it for rapid publication in American J. Bot short communications. I would be pleased if you were convinced enough of the desirability of such a performance to encourage him also.

I enclose a photo copy of program of NY State Geol. Assoc. ann. meeting in Buffalo. It is joint with A.A.P.G. but I am attending NYSGA only — on Saturday only — to my regret. I have to return to Ithaca Sun am to make a tribute to a retiring colleague at his "party". On Sat I'll probably take the field trip led by Sam Curra.

Perhaps you will be willing to hand either this

copy of the program to Paul OR run off another
for him and keep this. ² I would be nice if both of
you were able to attend.

I'll appreciate a specific address for Paul in
his new position if you have it.

Feel free to share this letter with Paul
because I'm really writing it to you jointly.

The Pa. State meetings were superb
and we send thanks for all you and your good
wife did to make things pleasant.

Here's to success in your early (ancient?)
endeavors!

Cordially,

Harlan

Banks



Cornell University

Division of Biological Sciences

Section of Plant Biology

Plant Science Building

Ithaca, New York 14853

607-256-4477

4 August / 82

Dear Al,

Kit and I are coming to AIBS and staying at Nittany Lion. We may try to join a field trip at a Park in my car.

Otherwise we should be at the Lion on Sunday and are signed up for Chicken Bar B Q Sunday, Paleo picnic and Bot Soc Dinner.

Point is I would like sometime with you to discuss your current project that I recently supported for N.S.F. funds. And I mean discuss in general — I do not mean criticize. I thought if I gave you some warning, we might

find a quiet hour for chatter.

Have almost taken up pen on innumerable occasions to tell you how much I enjoyed and how vividly I recall our time together in Sydney. Something always interfered. And that reminds me to say — did you note that George Pappenfuss died. I wondered, rather irreverently, if it happened in an airplane that lacked O_2 . Remember he used up all our plane! had!

Have just finished teaching an adult course in Botany and am gardening furiously to have all in clean shape before heading south.

See you soon

Harlan

24 March, 1980

Dr. Harlan Banks
Department of Biological Sciences
214 Plant Science
Cornell University
Ithaca, NY 14853

Dear Harlan:

The man who fixed my lane always used material such as the enclosed--hold it in the right light and note the very filmy plant compression. Whattizit? Age: probably Chemung; but Silurian Hilderburg is another possibility--I haven't visited Bob's "shale pit" yet. Worth looking into?

As ever.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et
encl: whattizit

3 March, 1980

Dr. Harlan Banks
Department of Biological Sciences
214 Plant Science
Cornell University
Ithaca, NY 14853

Dear Harlan:

Now that the madding throng of palynology students have finally completed Winter Term, I have had time to study the Leclercqia specimen you gave me when you were here--very, very nice. What a neat present! Also, the reprints were much appreciated and have been read, and/or looked at, and filed.

Got your second anonymous card. Glad you are trending in the "genus-only" direction. As "genera" and "species" are only named categories, I see no reason why just "genus" won't do. It doesn't matter that the kind or size of category varies terrifically. The Code provides a technique for applying names that is really independent of the generic concept embodied by the name. I probably know too much philosophy--and am aware that Linnaeus' "genus"--"species" concept came right out of Aristotle--Aquinas, and could be applied to buttons as easily as to plants. (Indeed, Linnaeus did apply it to rocks.)

All the best.

Yours very truly,

Alfred Traverse
Professor of Palynology

Dear Al.

20 Feb.

This anonymous card says Thank
you for the data on Palynology which
looks nice judging from the several
reprints I have received.

And thank you for the reprint
from Taxon. I - personally - am
leaning far toward your & Meyer's point
of view. Paleobotany is now well enough
established that we no longer need those
extra categories UNSIGNED Beals

11 February, 1980

Dr. Harlan Banks
Dept. of Biological Sciences
214 Plant Science
Cornell University
Ithaca, NY 14853

Dear Harlan:

Just got an utterly anonymous card mailed in Elmira, New York, that must be from you, with a great reference to a Wenlockian paper.

Regarding Palynology--it is published by AASP Foundation, c/o Dr. Robert T. Clarke, Mobil Research and Development Corp., P.O. Box 900, Dallas, TX 75221. Subscription orders, or orders for back numbers, should go to Dr. Clarke.

Before Palynology was started, AASP Proceedings appeared in Geoscience and Man (LSU). Vols. 1-3 of Palynology are now available.

We have proposed a grant to get Strother here next year. Who knows?--you might be a reviewer. (Please be kind!)

All the best, old friend.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

Would also like to learn where *Talynology* is published
Our library has it NOT. And 7 5 Feb, 1980

Dear Al have overlooked any notices about it!

Strother + ~~Traverse~~ is a carefully
worded, intelligent analysis of a
problem. For any intelligent reader it
ought to put Gray and Boucot to shame.
Just ran across a reference you might
like to have because it mentions
tetrads. Smith, David G. 1975. Wenlock plant
spores and tetrads from County Mayo, Ireland.
Geol. Mag. 112(4): 411-414. Shall be interested
to know if you work out a deal for next year to continue with

SANKS
Strother

28 January, 1980

Dr. Harlan Banks
Department of Biological Sciences
214 Plant Science
Cornell University
Ithaca, NY 14853

Dear Harlan:

Your membership on IAPT Committee for Fossil Plant Nomenclature is about to "come home to roost". We (Chaloner and I) would like you to prepare a critique of Boulter's proposal (Taxon 28:598-600). Later, I will quote from your evaluation (anonymously) in preparing a questionnaire (ballot) on the proposals, for distribution to the whole Committee.

Let me know (ASAP) that you're willing to do this and are indeed at work, or (horrors!) that you pass.

All the best. We surely enjoyed your "recent" visit!

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et
cc: Chaloner

File Bank

average lunch + dinner ^{Mon.?} Tues?

3 Dec 79

Monday dinner: 6:30 p.m. NLI

- H. Banks
- Betty Travers
- A. Travers
- R. Puffery + Carolyn
- ~~C. Keener~~ W. Spackman + Virginia

Project: ↓

Dept of Biology
228-15
Carl Keener (at)

} send reminder

Tues. Lunch NLI ~ 12:00 p.m.

- H. Banks
- A. Travers
- C. Keener
- J. Hill
- R. Pearson

away ↓

// Honorarium
Peggy Wolfe's office

other?

Tues. Dinner - Tavern

Tavern
6:30 p.m.

- H. Banks
- A. Travers
- J. Choi
- R. Litwin
- C. Taverna

Use credit card + exp. acct.

This came 29 Nov. p.m.

CORNELL UNIVERSITY

DIVISION OF BIOLOGICAL SCIENCES

ITHACA, N. Y. 14853

SECTION OF BOTANY, GENETICS & DEVELOPMENT
PLANT SCIENCE BUILDINGI opened to see
if changes needed on
invitations. Think
Mon dinner will be
O.K.?

Nov. 25, 1979

Deen Al, perhaps instead of 6:30?

Just a quick reply to yours of
15 Nov. outlining program for
visit.

Double room is fine. Don't worry
about a roll-away. We'll go
directly to Nittany Lion Inn.

Only complication is arrival time.
We can not leave Ithaca until
close to 2 PM. It has been so long
since I have driven down that way that I
no longer recall the driving time. Given
good weather will 4 hours do it? I
mean keeping to 55 mph. If yes,
then to avoid holding up your dinner plans
on Mon. eve you might want to come
by the Inn to see that I get to the
right place on time. OR if

weather is bad and driving time uncertain,
you might want to change "dine" on
Mon to "dessert" on Mon. Whatever
you think is OK by me but I do not
want to upset a well-laid plan
by coming in a few hours late!

See you soon

—Harlan Barbo

P.S. Hope I can view your Silurian
"things" at least briefly. Christine
Hartman met Strother at AASP
(+ you too) and Pat Bonanno met
him at Petersham, Mass. I hope it
he gets around. H—

XXXXXX

15 November, 1979

Dr. Harlan Banks
Department of Biological Sciences
214 Plant Science
Cornell University
Ithaca, NY 14853

Dear Harlan:

Thanks for yours of 24 October--came while I was out of town (AASP--Strother and I were giving our paper on the Lower Silurian beasts ("Liverworts"?).

Glad you're coming on Monday, 3 December--that will maximize the likelihood you'll make it!

I have made a reservation for you for a double room (two double beds) at the Nittany Lion Inn for Mon.-Tues., 3-4 December. If you wish, a roll-away can be rented for Heather when you arrive, or you could save \$10 a night by bringing a sleeping bag and an air mattress! The Department (of Biology) will pay for what the room would have been as a single. The Department will also pay for your expenses in driving down and back, and your expenses while here.

I will want to have you dine with Betty and me and probably some other academic types Monday night and with some graduate students and others on Tuesday night. Please let me know later about your Monday ETA. It is customary for some of the Biology profs to lunch with the seminar speaker on the day of the talk.

I am really looking forward to this.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et
cc: Carl Keener

CORNELL UNIVERSITY
DIVISION OF BIOLOGICAL SCIENCES
ITHACA, N. Y. 14853SECTION OF BOTANY, GENETICS & DEVELOPMENT
PLANT SCIENCE BUILDING

October 24, 1979

Dear Al:

Thanks for both letters.

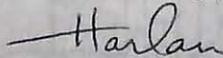
Soc. Sec. 052 32 9127

Home Address: 1005 Highland Rd. Ithaca, N.Y. 14850

Shall plan to arrive Monday, weather permitting. Why not, therefore, reserve a double room at Nittany Lion for Mon. and Tues nights for man, wife, granddaughter - age 8. As you say, it is simple enough to cancell if forced by weather. I hope, and think, that wife Kit and granddaughter Heather will come along. NOTE: I do NOT expect the dept. to pay anything for them! NOR, in fact, will they need any entertainment. Kit has friends in U. Park and I expect that the two of them will want to be on their own.

If all goes well, yes I'd enjoy seeing the Archaeopteris locality AND, if possible, your Silurian stuff.

Cordially,



Harlan P. Banks

XXXXX

9 October, 1979

Dr. Harlan Banks
Department of Biological Sciences
214 Plant Science
Cornell University
Ithaca, NY 14853

Dear Harlan:

Just had a call from the Biology Department that they need to have your social security number and home address for the purposes of generating the small honorarium check. Also, I would appreciate it if you would confirm your intention to arrive on Monday before your talk, that is on 3 December. I need to know to make your reservation at the Nittany Lion Inn. The easy way to do it would be to plan now that you will arrive then, and then cancel later if your plans change. Otherwise we might run into the problem of all the space being occupied by some conference or other. Looking forward to your visit with great anticipation, and with best wishes as always, I am

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

cc: Carl Keener

XXXXX

3 October, 1979

Dr. Harlan Banks
Department of Biological Science
214 Plant Science
Cornell University
Ithaca, NY 14853

Dear Harlan:

Thanks for yours of 21 September. I am sending a xerox copy of it along to Carl Keener, who will be in charge of the arrangements. I'm glad that you will be able to speak to us on Tuesday, 4 December, at 4:00 p.m., under the aegis of the Biology Department. A little later, one of us will make a reservation for you at the Nittany Lion Inn on campus. I still hope that you will want to come down on Monday, as it would be a bit tight to try to come on Tuesday in time for the talk. You would have to leave pretty early. Furthermore, there's always the weather.... Your title suggested, "The lure of early land plants", seems fine to me, and I appreciate the preview of what you will cover! One of my geological friends in the vicinity recently took me to a Catskill locality near our residence in Huntington County, at which he said he had seen some fossil plants. Indeed he had-- really gorgeous Archeopteris impressions. Possibly if it's nice weather and you're interested, we could take you for a look, too.

Best wishes. I'm already looking forward to your coming.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et
cc: Keener

CORNELL UNIVERSITY
DIVISION OF BIOLOGICAL SCIENCES
ITHACA, N. Y. 14853SECTION OF BOTANY, GENETICS & DEVELOPMENT
PLANT SCIENCE BUILDING

September 21, 1979

Dr. Alfred Traverse
Dept. of Geosciences - Deike Bldg.
Pennsylvania State University
University Park, Pennsylvania 16802

Dear Al:

Many thanks for yours of 4^e Spt. Sorry to be so slow to reply - I guess I've spent too much time on an adult course on Trees that I'm giving at Cornell Plantations - our arboretum.

O.K. Tues 4 Dec. 4 PM Biology Dept.

It would be good to come on Monday as you suggest. However a final decision can wait a while. I frequently get caught by the necessity of driving our granddaughter around.

How about: The lure of early land plants

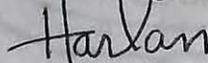
This would be designed to show (2 x 2s) some good fossils, some good localities, some paleogeography, some paleoecology, some evolutionary change during the passage of time.

Plants to be mentioned include Archaeopteris (highly evolved), Cooksonia (mighty lowly), some zosterophylls (mighty widespread and possibly the precursors of lycopods), and with time and luck some beautiful lycopods and possibly Psilophyton.

Of course techniques of study will be made clear as individual slides appear and their preparation described.

If you have an alternate suggestion, feel free to say so.

Best regards,

Harlan P. Banks
L.H. Bailey Professor of Botany
Emeritus

XXXXXX

4 September, 1979

Dr. Harlan Banks
Dept. of Biological Sciences
214 Plant Science
Cornell University
Ithaca, NY 14853

Dear Harlan:

Further to my suggestion that you come here to enrich our program by a presentation on Siluro-Devonian plants-- my promotion has been successful, and you are invited. The suggested date is Tuesday, 4 December. Biology seminars are at 4 p.m. Your host will be the Biology Department (I have a joint appointment between Biology and Geology.)

Especially in considering possible weather problems, I would suggest you come down on 3 December. The Department will provide a room at the Nittany Lion Inn for the nights of 3 and 4 December. They will also provide an honorarium of \$100 and travel expenses. It's not enough for such a famous speaker, but it's better than Geology does, at that! By the way, automobile is probably the best way to get here from Ithaca.

What do you suggest for a subject and title? (Something broad-based ala Ottawa would be best, I suppose.) Look forward to hearing from you.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et
cc: Carl Keener

XXXXX

30 July, 1979

Dr. Harlan Banks
Department of Biological Sciences
21* Plant Science
Cornell University
Ithaca, NY 14853

Dear Harlan:

Thanks for yours of 26 July.

The Strother-Traverse paper on the Tuscarora fossils is in press in Palynology. The galley proofs were such a mess that I don't know what to expect.

The Plant Science Bulletin thing was about the Paleobotanical Section of Bot. Soc. At the time it was a nice little piece of history-ye gods, now two decades ago! Reprint enclosed.

I have duly nominated you for our symposium series. Now will await developments for a while.

Best wishes.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et
encl: reprint

CORNELL UNIVERSITY

DIVISION OF BIOLOGICAL SCIENCES

ITHACA, N. Y. 14853

SECTION OF BOTANY, GENETICS & DEVELOPMENT
PLANT SCIENCE BUILDING

July 26, 1979

Dear Al.

Thanks for up-dated list of
Committee members on IAPT FOSSIL NOMENCLATURE
Group!

Have just been reading Norman Hughes' proposals on Taxon AND Jim Schopf's reply. Also Aureal Cross' speech at award of Schuchert Medal to Jim + Bill's reply to that. (The combination of papers was accidental but quite appropriate.) (IN J. Paleont.)

May I here acknowledge a reprint:

Steel and Traverse Spores from D/M transition - -
Horseshoe Curve etc. Rev. Pt P. 26: 21-31. 1978

Most interesting to me because in a paper in press I have used "post-Famennian Devonian" following the good fellows and find that my paleobotany colleagues who don't follow these things wonder what I'm

talking about!

Item II.

I saw a notice of
"Strother + Traverse Plant remains from Silurian
rocks of Pa." Is it published? where? I'd welcome
either a reference or a reprint or some information.
Anything with that title is of interest to me!

Item III.

I have a note that says
"Pl. Science Bulletin 6:1-4. 1960 Traverse"
Have no idea what this means nor do I have
a copy of that issue anymore. Did you do
something bad in 1960 that got reported in P.S.B.?

Best wishes

Harlan B. ...

January 11, 1971

Dr. Harlan Banks
214 Plant Science
Cornell University
Ithaca, New York

Dear Harlan:

I have reached an impasse regarding furthering A. G. Long's nomination for corresponding member. I have asked four of our colleagues for letters of support. Two have not replied. The other two have had some outspoken objections to his nomination. There is not the unanimity of agreement to support this nomination that I thought we had.

Since I have no additional documentation, it seems to me that either the current material can be reworked or the matter dropped. Since four of our eminent colleagues are either not willing to support Long or are opposed to him, what do you think of putting our effort behind only Høeg.

Will await a reply before writing Constance to expect a nomination of Høeg.

Sincerely,

John W. Hall
Professor

JWH/fo

January 7, 1971

Dr. Harlan Banks
Department of Botany
Cornell University
Ithaca, New York 14850

Dear Harlan:

The enclosed photocopy of a letter from Barbara Palser is self-explanatory. I gather from a previous letter I have had from John Hall that somebody else is taking care of the matter, and I need not concern myself further at this time. It certainly seems that Dr. Höeg is eminently qualified and should have been a corresponding member before now.

Best wishes to you for a prosperous 1971.

Yours very truly,

Alfred Traverse
Professor of Geology & Biology

AT/vsi

Enclosure: photocopy of letter
from B.F. Palser

CORNELL UNIVERSITY

DIVISION OF BIOLOGICAL SCIENCES

ITHACA, N. Y. 14850

SECTION OF GENETICS, DEVELOPMENT & PHYSIOLOGY
PLANT SCIENCE BUILDING

January 5, 1971

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

Dear Al:

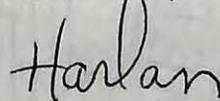
Over the telephone I told you I was on the track of detailed data about Høeg which could be built up into a good case for him as a Corresponding Member. Here it is. I am sending a copy to John Hall and keeping one so that it can not get wholly lost. I am confident, on the basis of your past success in writing up nominations, that no one will do a better job than you.

You and John can decide which is to submit final draft to Lincoln Constance who will be Chairman of the selection committee. Whoever does it should include a note that this is a joint effort on the part of all members of Paleo section after careful consideration of the possibilities, etc.

I am working on a bibliography which I'll send later - both to you and to John. You may want to submit copies of my list to others who could possibly add to it - e.g. C. A. Arnold, C. B. Beck, H. N. Andrews.

I repeat mid/spring is soon enough although John might write Lincoln earlier telling him to expect the nomination - just to prevent a decision prior to his receipt of it.

Good luck,



Harlan P. Banks
Professor of Botany

HPB:as
cc: J. Hall

INSTITUTT FOR GEOLOGI

A. Generell geologi. Prof. T. Strand
 B. Mineralogi-petrografi, Prof. I. Th. Rosenqvist
 C. Paleontologi-stratigrafi. Prof. L. Størmer
 D. Paleobotanikk. Prof. O. A. Høeg
 E. Malmgeologi. Prof. J. A. W. Bugge



BLINDERN, OSLO 3 9/12-70.
 TELEFON *46 68 00

Professor Harlan P. Banks
 Cornell University
 Division of Biological Science
 Ithaca, N.Y. 14850.

Dear Harlan,

I appologize for the delay in replying to your letter. I hope that the following information about Ove may be of use to you and that it is not arriving too late for your purpose.

Ove Arbo Høeg, born in Larvik 25/11-1898.

Entered the University of Oslo 1917; awarded the degree of cand. real. in 1923, with Botany as the main subject; Chemistry, Geology, and Zoology supporting subjects. (In our degree structure the "cand. real" is the 2nd degree, awarded on examination in the ~~in~~ ⁱⁿ the main subject and presentation of a thesis, the standard of which may be compared, depending on the circumstances, with anything from the Master's to a Doctor's thesis in the English-speaking structure.)

On the paper, "The Devonian and Devonian flora of Spitsbergen" he was awarded the "Dr. philos." degree by the University of Oslo in 1942 (The "Dr. philos." degree is awarded on published work normally following several years of academic career, in a way similar to the English D.Sc.).

Academic posts.

Research assistanship Botanic Garden,
 Oslo University 1920-23

Curator in the Paleontological Museum
 Oslo University 1924-26

Keeper of the Botany Department in the Museum, the Roy. Norw.
 Science Society, Trondheim 1926-47

when he also taught Botany and Microbiology to students of Tecknology and Education in the University of Trondheim (where at that time no Science Faculty existed).

Professor of Botany, University of Oslo 1947-1967 (retijement), with special responsibility for the teaching of Botany in the Dept. of Pharmacy; from 1958 also Director of the Botanical Museum and Garden.

UNESCO assignment as Director of the Birbal Sahni Institute of Palaeobotany, Lucknow, India 1951-53.

Member of Videnskapsakademiet i Oslo (Acad. of Science and Humanities).

Travels.

Expeditions to Spitsbergen 1924, 1928, 1939, to S. and E. Africa, and the Congo 1929-30.

Teaching.

He is very versatile as a Botanist and teacher; in Trondheim he taught the entire botany to Education students, as well as aspects of Botany and Microbiology to Technology students; this experience must have formed a very valuable background for his teaching in the Pharmacy Department in the University of Oslo. From 1959 he took over the taxonomy and plant geography courses for Science students in Oslo.

He has for many years offered courses in "Scientific writing" which have won great popularity among geology and biology students. Ethnobotany has been in the focus of his interest since he was a student. For nearly 50 years he has systematically collected information on plant names and use from all parts of the country, and he has for some time now been busy engaged in preparing this for publication. Part of the material he has published sporadically in the past years, and he has given a large number of talks and lectures on it, particularly on the aspects related to "folk-medicine".

In 1958, when some of the formerly scattered geology institutions within the University moved into a new building and formed the present Dept. of Geology, Høeg initiated the establishment of a subdepartment for Paleobotany which have since offered courses in the subject to students of Botany and Geology.

Another field which he has promoted with great success is Dendrochronology. Between 1950 and 1968 a project initiated by Høeg was financed by the National Research Council involving several post-graduate students and research fellows. In 1944 he wrote a useful surveying paper on the subject, but he never did any research himself in this field. I think this again is one of many proofs of his versatility.

He has been engaged in many extramural activities. For many years he served on the committee providing the link between the University and the National Broadcasting Corporation; the programs in which he has been active himself over the years must be counted by the hundreds. At present he is the chairman to the Board of the National School of Librarianship.

What has impressed his students most, I think, is his wide knowledge, his broadness of mind, and his genuinely helpful attitude whenever there was an opportunity to do something.

Best wishes

Svein
Svein B. Manum

and 1956 (letter in Tree-ring Bull. 21: 2-15)

Ps.

Between 1949 and 1963 he was the editor of "Blyttia", journal of the Norwegian Botanical Society.

For the last two decades or more he has served on committees dealing with Nature Conservation on the national and as well as the local level, and for some years now also on an international cttee.

His published papers number some 125, to my knowledge there is a co-author in only three of them; in addition he has written a large number of book-reviews.

About 50 papers are written in English, and a few in German. More than 40 are related to paleobotany, the rest reflect his other major interests: lichens and macrofungi, plant names and use, "folk-medicine" and plant-poisoning.

sv.

NEW YORK STATE COLLEGE OF AGRICULTURE
CORNELL UNIVERSITY
ITHACA, NEW YORK

Section of Genetics, Development
and Physiology

Date June 6, 1967

214 Plant Science Bldg.

Dear Dr. Traverse:

AI

This will acknowledge with thanks receipt of your recent paper on:

"Palynology of the Surface Sediments of

Great Bahama Bank"

See you in Texas I hope!

Harlan
Harlan P. Banks

December 7, 1970

Dr. Harlan Banks
Department of Botany
Cornell University
Ithaca, New York 14850

Dear Harlan:

You may have noticed in the recent minutes of the PSBSA Executive PSBSA Annual Meeting at Bloomington that there is an item number six, which states that you brought up the matter of corresponding members. I remember that is correct, and I also remember that I was appointed to "follow-up on this". I wonder if you could help me at least to the extent of telling me where to start? For example, who would have whatever information there is about the proposal about A.G. Long? Who would know whether Höeg is or is not already a corresponding member? (the secretary of the society?) Was it your understanding of the directions given me at Bloomington that I am supposed to see about the documentation for Long and get it into the appropriate hands? Looking forward to hearing from you, with whatever you may remember about all this, I am

Yours very truly,

Alfred Traverse
Professor of Geology & Biology

AT/vsi

P.S. Who is Long?

CORNELL UNIVERSITY

DIVISION OF BIOLOGICAL SCIENCES

ITHACA, N. Y. 14850

SECTION OF GENETICS, DEVELOPMENT & PHYSIOLOGY
PLANT SCIENCE BUILDING

December 7, 1970

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

Dear Al:

I believe the point is quite simple. I think Streeel would not want to publish if he thought Harry Cousminer had a prior claim on it. If, on the contrary, Cousminer was simply collecting samples for comparative purposes, then Maurice could publish IF he found anything worth publishing.

Hence, Maurice wondered about Cousminer's intentions.

I'll be glad to forward any reply OR either of you is free to write Maurice directly.

Sincerely,



Harlan P. Banks
Professor of Botany

HPB:as

also re Long - Hwy

BANKS

CORNELL UNIVERSITY

DIVISION OF BIOLOGICAL SCIENCES

ITHACA, N. Y. 14850

SECTION OF GENETICS, DEVELOPMENT & PHYSIOLOGY
PLANT SCIENCE BUILDING

November 24, 1970

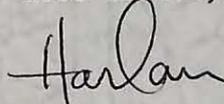
Dr. Alfred Traverse
Deike Building
The Pennsylvania State University
University Park, Pennsylvania 16802

Dear Al:

Am sending "Putative Devonian Ferns" by Bill. Have included some others just in case you or he can use them. According to my records I have sent you all of these, except Pseudosporochnus. But I find no record of having sent Bill anything! Something fishy.

Bill may bring you a question about Harold Cousminer if he can not answer it himself.

Best wishes,



Harlan P. Banks
Professor of Botany

HPB:as

P.S. Re Corresponding Membership in Botanical Society. In cleaning out my files the other day I came across your nomination of H. H. Thomas complete with bibliography. Also your recording of the vote on other candidates - Cookson, Thomson, Potonie, Deflandre, Faegri, Dijkstra, Erdtman, Iversm. Also bibliographies for Cookson, Erdtman, Faegri and Potonie. All this simply to remind you that you worked as Secretary of the Section!

Banks

November 18, 1970

Dr. H.P. Banks
Department of Botany
Cornell University
Ithica, New York 14850

Dear Harlan:

Is there a chance that you still have a reprint of yours 1964 paper, "Putative Devonian Ferns," Torr. Bot. Club Mem.? I occasionally have to give lectures in Bill Spackman's course when he is out of town, and it often seems to be my chance to talk when the subject of Devonian plants is on the docket. I find that my assortment of your reprints is rather defective, and I shouldn't be surprised that I may make similar requests in the future. Bill and I have recently both made good use of your "Some recent additions to the knowledge of the early land flora."

Best wishes to you for a Happy Thanksgiving.

Yours very truly,

Alfred Traverse
Professor of Geology & Biology

AT/vsi

April 9, 1970

Dr. H. P. Banks
Department of Botany
214 Plant Science
Cornell University
Ithaca, New York 14850

Dear Harlan:

Bill Spackmans tells me that he recently discussed with you the visit this summer to the United States of Dr. Streele. I have written to Dr. Streele regarding his visit, and I am enclosing a copy of my letter to him, which pretty much covers the subject. I am planning to be away from here for much of July and parts of August, so I suggested to Dr. Streele that after he gets located on this side he should call me, and we can arrange some mutually agreeable period of time when both Sanders and I will be in town. Actually, it is Bob Sanders he really wants to see because he is the Devonian expert around here.

The itinerary which Bill gave me certainly sounds very ambitious. I am practically breathless just reading it. I wonder if he isn't trying to bite off more than can be digested in the length of time he has available.

I am very sorry to hear about your health problem from Bill, and we all hope that you will get properly fixed up and mend quickly. Best wishes to you.

Yours very truly,

Alfred Traverse
Associate Professor of
Geology and Biology

AT/mrw
Enclosure

cc: William Spackman

CORNELL UNIVERSITY

DIVISION OF BIOLOGICAL SCIENCES

ITHACA, N. Y. 14850

SECTION OF GENETICS, DEVELOPMENT & PHYSIOLOGY
PLANT SCIENCE BUILDING

March 14, 1969

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

Dear Al:

Thanks for your letter. Yes, I'll do as you ask. Your arrangement for palynology from either the geological or the botanical side is superb. Congratulations.

Often I say to myself, "when the rat race slows down a bit, I'm going down to P.S.U. to visit." But the rat race does not slow down. I still hope it will one day.

This is the worst year for jobs that I've seen in a long while. We have heard of few and of a surplus of candidates. Retrenchment in state budgets is one cause. I wonder too, if the big expansion in Ph.D. programs in the new branches of numerous state universities is resulting in an oversupply. In any case you hit me at a pretty pessimistic moment.

Best wishes,

Harlan

Harlan P. Banks
Professor of Botany

HPB:skh

March 7, 1969

Dr. Harlan Banks, Chairman
Department of Botany
214 Plant Science
Cornell University
Ithaca, New York 14850

Dear Harlan:

It is perhaps superfluous to be one's own PR man, but in an effort to leave no stones unturned, I thought it wise to state modestly that graduate students in palynology are being trained here under my direction, and that we would therefore appreciate being grafted into the grapevine along which information about various job opportunities is said to travel.

Also, I would appreciate it if you would consider advising prospective graduate students in palynology who want to sample education elsewhere to keep the possibility of Penn State in mind. We have laboratory and library facilities as good as any, located in the new Deike Building (College of Earth & Mineral Sciences). The personnel and library of the Catalog of Fossil Spores and Pollen and our "palynological data project", as well as the various research projects, make ours a stimulating place palynologically. We now have three full-time professional palynologists (H.T. Ames, R.B. Sanders, A. Traverse), as well as a paleobotanist with a strong collateral interest in palynology (W. Spackman). Spackman and I now both have joint appointments in biology and geology, so graduate students can organize work here toward degrees in palynology-paleobotany in either biology or geology. In terms of flexibility of requirements, this is a very desirable arrangement. For example, a botanically oriented palynologist can now enroll in biology at Penn State and does not need to satisfy the various local requirements for a degree in geology. Yet such a student has available to him at Penn State first class instruction, facilities and contacts in all those areas of geology which may be pertinent to his work and interests.

Please keep us in mind.

Yours very truly,

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

CORNELL UNIVERSITY

DIVISION OF BIOLOGICAL SCIENCES

ITHACA, N. Y. 14850

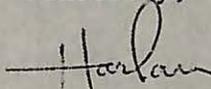
SECTION OF GENETICS, DEVELOPMENT & PHYSIOLOGY
PLANT SCIENCE BUILDING

To All To Whom I Wrote About A Visit To U.S.A.

by Professor T. M. Harris in Spring 1969

I regret to inform you that Professor Harris has been ill since May 1968. At first his problem was diagnosed as a viral infection and he was in and out of the hospital. Subsequently he lapsed into a coma and the end was feared. But he rallied, diagnosis was changed to TB plus a viral infection and progress is expected to be slow. Mrs. Harris wrote to me at the end of August cancelling the proposed visit. So far as I know he is still recovering slowly. Thanks for your offered cooperation. Perhaps something can be worked out in the future.

Sincerely,



Harlan P. Banks
Professor of Botany

HPB:as

CORNELL UNIVERSITY

DIVISION OF BIOLOGICAL SCIENCES

ITHACA, N. Y. 14850

SECTION OF GENETICS, DEVELOPMENT & PHYSIOLOGY
PLANT SCIENCE BUILDING

March 26, 1968

Dr. Henry N. Andrews, Jr.
Department of Botany
University of Connecticut
Storrs, Connecticut 06268

Dear Henry:

Professor Harris retires this fall (1968). He does want to see the spring flora of the U.S.A., having seen summer and fall in Canada. He'd much prefer to lecture at a series of Universities in April, May, June, 1969 to giving a paper at the Congress. He doubts he'll attend the latter. Of course he does need support for his expenses and would hope to get them covered by honoraria at the sites of the lectures. I admit I'm uncertain if he hopes to recover enough to repay his transatlantic fare as well as his travels in U.S.A. but I should assume we would hope to make this possible. Several of us have expressed a desire from time to time to have him over so I'm sending this to the persons listed below. They in turn are free to inform any others who may be interested.

Tentative dates are mid-April through mid-June 1969. I assume each of us individually, or with the help of a colleague, would see to it that he got some look at local floras as he passed through. I assume each of us could probably house him (uncertain yet about Mrs. Harris) and feed him and offer an honorarium as well. It is possible too that we could save him travel money (at least in the East) by driving him part way (e.g. Harvard to Storrs to New Haven - meet half way to Ithaca - meet halfway to Ann Arbor, etc.). Finally, I should think he should have at least 3-4 days at each place in order to see a few fossils as well as living plants and to avoid becoming overtired.

I requested, and got, a list of titles of talks he has given to fairly unspecialized audiences in case this helps you. Some may want a more technical discussion with a small group, in addition to, or in place of one of the following.

1. Early fossil bryophytes (particularly Naiadita).
2. The strange Cycadeoideales (or Bennettitales) a general account of the problems of Williamsonia as I see them.
3. The investigation of a fossil plant. How Thomas studied Caytonia and some subsequent work.
4. Forest fire in the Mesozoic - a look at fusain from a very partisan angle.

Dr. Henry N. Andrews, Jr.
March 26, 1968
Page 2

5. The Mesozoic Cycads (not Bennettitales).
6. Various titles for public lectures on Mesozoic ferns, on conifers, on Ginkgoales, etc. These require more background knowledge of Botany.

I have just spent two days with Harris (March 20, 21) and am sending this promptly to Ithaca to be mailed out while it is still fresh in mind. I have stopped at the Mississippi River ONLY because I thought we ought to see the response (hence TIME and MONEY) before killing him off. If we can get some tentative responses I'll be glad to coordinate as best I can from this distance, especially since I can get in touch with him readily.

Cordially,

Harlan P. Banks
H.P.B.

Harlan P. Banks
Professor of Botany

Temporary Address
The Botany School
The University
Cambridge, England

HPB:drb

cc: Harry T. Stinson
David W. Bierhorst
Theodore Delevoryas
Elsie Barghoorn
Charles B. Beck
Sergius H. Mamay
Francis M. Hueber
James D. Grierson
William Spackman
Alfred Traverse ✓
James M. Schopf
Tom Phillips
Thomas N. Taylor
James Gunckel
Aureal T. Cross

Signed in his absence

CORNELL UNIVERSITY

DIVISION OF BIOLOGICAL SCIENCES

ITHACA, N. Y. 14850

SECTION OF GENETICS, DEVELOPMENT & PHYSIOLOGY
PLANT SCIENCE BUILDING

February 17, 1967

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

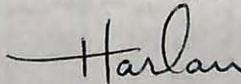
Dear Al:

Belated reply to yours of 28 November.

I'm now "in the controversy" although I don't really think there is one. On January 31, I sent a manuscript to Calgary symposium on the Devonian system. I think Upper Silurian-Ludlovian provides the first evidence of vascular plants and only two genera at that. In Gedinnian a third appears. In Siegenian several more appear and in Emsian the list grows considerably. This is all macrofossils. All I can learn about microfossils agrees completely. So until some other kind of evidence appears, I'm fully in agreement with Bill Chaloner. But I don't know that even Axelrod would maintain today that there's any evidence for Cambrian vascular plants.

So when you wrote, I only knew I intended to produce something stratigraphical for Calgary, not what it would be. I guess you called the turn.

Cordially,



Harlan P. Banks
Professor of Botany

HPB/lk

28 November, 1966

Dr. H. P. Banks
Division of Biological Sciences
214 Plant Science
Cornell University
Ithaca, N. Y. 14850

Dear Harlan:

Thanks for the recent batch of reprints. Especially enjoyed reading "Some recent additions to the knowledge of the early land flora". At the recent pollen conference in Utrecht with Chaloner and had a good chance to jaw with him about his attack on Axelrod's polyphyletic and early origin of the vascular plants. Chaloner pointed out in his paper on the subject that the supposed Cambrian-Ordovician spore records on which Axelrod depended so much were no good, and we still have only the upper Silurian things as the earliest valid land plants, with a vascular system and spores with a resistant wall. Your paper helps to corroborate Chaloner's opinions about the rapid diversification of the vascular plants. I suppose that one of these days you will feel called on to comment on the Chaloner-Axelrod controversy.

Yours as ever,

Alfred Traverse

CORNELL UNIVERSITY

DIVISION OF BIOLOGICAL SCIENCES

ITHACA, N. Y. 14850

SECTION OF GENETICS, DEVELOPMENT & PHYSIOLOGY
PLANT SCIENCE BUILDING

June 30, 1966

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

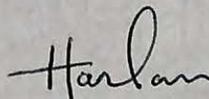
Dear Al:

I DO look at greetings on the notices but
I do admit to failure to reply.

Congratulations on your return to a proper
part of USA.

I may not make AIBS because I'll be in Europe
July 25--August 31, but will see you before too long
I sincerely hope.

Cordially,



Harlan P. Banks
Professor of Botany

HPB:jw

1 September 1965

Dr. Harlan P. Banks
Cornell University
Ithaca, New York

Dear Harlan:

Regarding recent missive from I.A.P.T. --am I right in assuming that those of us who are dues-payers to I.A.P.T. are automatically members of I.O.P., without need of further payment to I.O.P.?

Hope all is well with you. I have a temporary appointment here as visiting lecturer in geology and hope to establish paleobotany on the scene.

Yours very truly,



Alfred Traverse
Geologist

AT: jt

June 6, 1956

Professor Harlan P. Banks, Head
Department of Botany
Cornell University
Ithaca, New York

Dear Harlan:

Please excuse the long delay in answering your of April 20. We have discussed rather thoroughly the desirability of my taking some part in the Summer Institute. I have finally decided that since I have several rather pressing business trips on the fire for this summer it would not be a good idea for me to absent myself from Houston for yet another excursion. I still feel, however, that there is a call for the participants in the Institute to become aware of the existence of what I am beginning to call economic paleobotany. It would only be fair to warn you that I am going to try to remember to josh you considerably about framing a program with no paleo in it!

I had a letter the other day from Ogden at the State Museum, saying that he had heard from you that we are looking for palynologists. He recommended a post-glacial palynologist friend of his to our attention. Perhaps it would be wise for me to point out, as I did to Ogden, that most of the jobs available are for bachelors and masters and that research jobs such as the one I have here are rather rare. Most of the positions will be as staff members of operational laboratories. The training desirable for the jobs should be rather more on the geological-paleobotanical side than is usually found in the background of a Pleistocene-post-glacial person.

Looking forward to seeing you again one of these days (in Storrs?),
I am,

Yours very truly,


Alfred Traverse

AFT:rlw

Shell Development Company
Exploration and Production Research Division

NEW YORK STATE COLLEGE OF AGRICULTURE

AT CORNELL UNIVERSITY
ITHACA, NEW YORK

CORNELL UNIVERSITY AGRICULTURAL
EXPERIMENT STATION

WILLIAM I. MYERS, DEAN

DEPARTMENT OF BOTANY

Air Mail

April 20th, 1956

Dr. Alfred Traverse
3737 Bellaire Boulevard
Houston 25, Texas

Dear Al:

Many thanks for your letter. John Reed wrote and included a copy of the letter from Denver to Houston and I wondered if it would end up in your lap.

The brochure will answer many of your questions.

But the part Shell can play is less clear to me. What does the following sound like to you?

A Shell representative might put on a special afternoon lecture and perhaps another evening one. If he would stay in the dormitory he would have an excellent chance to mingle with the participants for additional "pep talks." If these 2 lectures were scheduled during the first three weeks when Abbe and Mason are here, I think it would be best.

Actually, since participants are primarily coming from small schools, the chances of their offering a course are small. But if they knew of the opportunities they could direct graduates to Universities where programs do exist. Therefore I'm not sure Shell would get direct returns, but I would be glad to have Shell try. It would be best if the person were a botanically trained scientist like yourself. Any chance of this long trip?

Could the lectures be botanically technical rather than salesmanship? By this I mean slides of pollen, perhaps photos of drill cores to show what goes on, etc.

I'll be anxious for your reply.

Cordially,

Harlan

Harlan P. Banks, Director
Summer Institute of Botany

HPB:s
Enc.

APPLICATION FOR PARTICIPATION IN ANY NATIONAL SCIENCE FOUNDATION SUPPORTED SUMMER INSTITUTE

NAME:

Home Address:

School or College Address:

Single Married Date of Birth

Number of dependents: (This should correspond with the number of dependents claimed in federal income tax return.)

List of dependents:

NAME	AGE	RELATIONSHIP TO APPLICANT

Major teaching field or fields:

Number of years of teaching experience in (a) high school or (b) college

College or university education:

INSTITUTIONS	YEARS		DEGREES	MAJOR SUBJECTS
	From	To		

Previous attendance at summer programs that provide financial assistance to science teachers:

NAME OF PROGRAM, SPONSOR, OR INSTITUTION	DATE	AMOUNT OR NATURE OF SUPPORT

Date

Applicant's Signature

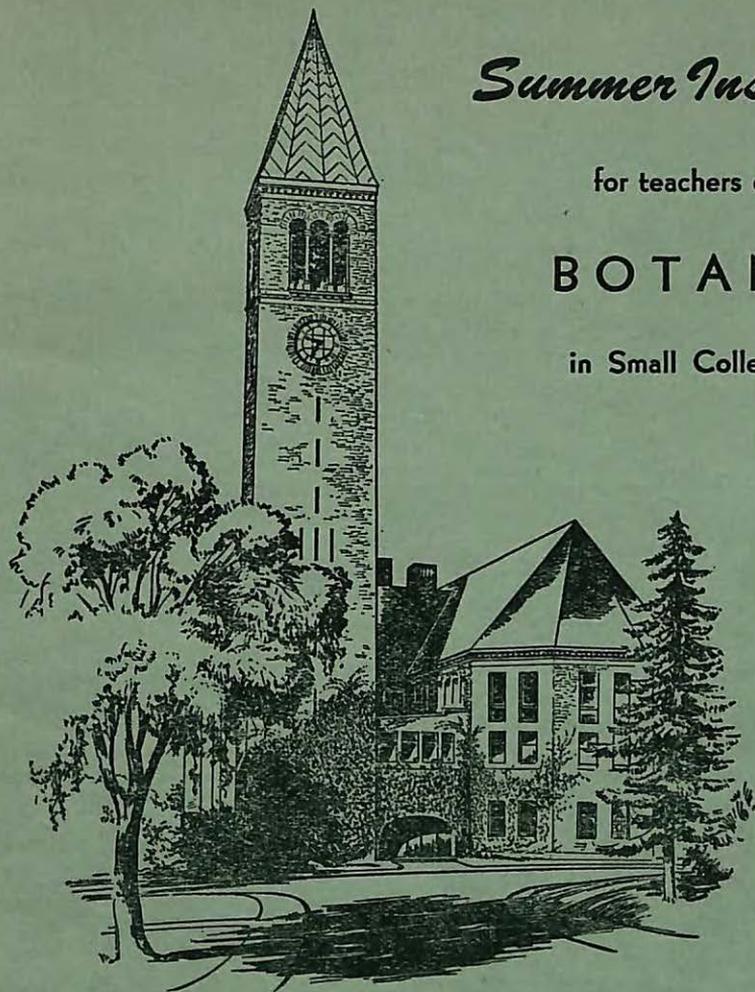
BOTANICAL SOCIETY OF AMERICA, INC.

Summer Institute

for teachers of

BOTANY

in Small Colleges



July 2 to August 11, 1956

at

CORNELL UNIVERSITY

A National Science Foundation Institute

Hunt Institute for Botanical Documentation

NEW YORK STATE COLLEGE OF AGRICULTURE

AT CORNELL UNIVERSITY
ITHACA, NEW YORK

CORNELL UNIVERSITY AGRICULTURAL
EXPERIMENT STATION

WILLIAM I. MYERS, DEAN

DEPARTMENT OF BOTANY

June 14, 1956

Dr. Alfred Traverse
Shell Development Co.
Exploration and Production Research Division
3737 Bellaire Blvd.
Houston 25, Texas

Dear Al:

Thanks for yours of June 6. Sorry you can not be with us, but given half a chance I'll get your message across.

I'll take your kidding at Storrs secure in the knowledge that I did not bow to the call of VESTED INTERESTS when spending Federal Funds.

Your remarks concerning Ogden's candidate are not surprising to me, but it seemed like another opportunity to spread the palynological gospel despite the man's interest in recent materials.

Thanks for your interest.

Sincerely,

Harlan

Harlan P. Banks, Head
Department of Botany

hpb:dif

April 16, 1956

Professor Harlan F. Banks
Department of Botany
Cornell University
Ithaca, New York

Dear Harlan:

One of the officials of Shell Oil Company in Denver has been in contact with John Reed at the University of Wyoming about the proposed Institute of Botany that Reed said was to be held at Cornell this summer.

As a result of this contact there is some feeling that Shell ought to be represented at the Institute, particularly with a view to acquainting the botanical profession with the need of the petroleum industry (and of Shell in particular) for trained botanical personnel; i.e. paleobotanists, especially palynologists. As you are aware, the industry has rather suddenly found itself in need of many more trained people in this field than are available. Botany departments should be aware of this industrial need and should consider instituting programs of instruction in palynology and related aspects of botany. In the absence of such programs industry is finding it necessary to train its own personnel as well as possible. I think you will agree that this is not desirable procedure, either from the point of view of industry, or of the paleobotanical profession.

Will you let me know more about the Institute and about how you think we might plan to take part?

With best wishes.

Very truly yours,


Alfred Traverse

AT:hmp

Shell Development Company
Exploration and Production Research

NEW YORK STATE COLLEGE OF AGRICULTURE

AT CORNELL UNIVERSITY
ITHACA, NEW YORK

CORNELL UNIVERSITY AGRICULTURAL
EXPERIMENT STATION

WILLIAM I. MYERS, DEAN

DEPARTMENT OF BOTANY

February 8th, 1956

Dr. Alfred Traverse
Shell Development Company
3737 Bellaire Blvd.
Houston 5, Texas

Dear Al:

I was very pleased to learn
that the pollen analysis of the Brandon lignite
is completed and that I can obtain a copy. I
sent the card off immediately.

With many thanks for your cour-
tesy, I am

Sincerely,

Harlan

Harlan P. Banks

HPB:s

NEW YORK STATE COLLEGE OF AGRICULTURE

AT CORNELL UNIVERSITY
ITHACA, NEW YORK

CORNELL UNIVERSITY AGRICULTURAL
EXPERIMENT STATION

WILLIAM I. MYERS, DEAN

DEPARTMENT OF BOTANY

March 29, 1955

Dr. Alfred Traverse
Fuels Microscopy Laboratory
U. S. Bureau of Mines
Building 20, Federal Center
Denver 2, Colorado

Dear Al:

Congratulations on your recent
move to Denver!

I would imagine that you can look
forward to a refreshing change in both social
and ecologic climate.

With best wishes,

Sincerely yours,

Harlan

Harlan P. Banks

HPB:s

NEW YORK STATE COLLEGE OF AGRICULTURE

AT CORNELL UNIVERSITY
ITHACA, NEW YORK

CORNELL UNIVERSITY AGRICULTURAL
EXPERIMENT STATION

WILLIAM I. MYERS, DEAN

DEPARTMENT OF BOTANY

RECEIVED

DEC 2 - 1954

U. S. Bureau of
Grand Forks, North

November 29th, 1954

Dr. Alfred Traverse
Coal Technologist
Box LL, University Station
Grand Forks, North Dakota

Dear Al:

Thanks very much for the publication on
Lignitic Coals.

I am very pleased to have it, as you
thought I might be.

I am glad also to know about the status
of your pollen work. I can understand your ques-
tion as to where it may be published, because
larger papers are not easy to take care of. I
hope however that you can get it done.

With best wishes,

Sincerely yours,

Harlan

Harlan P. Banks, Head
Department of Botany

HPB:s

Region V
Box LL, University Station
Grand Forks, North Dakota

November 24, 1954

Professor Harlan P. Banks
Chairman, Department of Botany
Cornell University
Ithaca, New York

Dear Harlan:

Thanks for your nice letter, which was waiting for me here when I returned from a trip to Pittsburgh.

In response to your question about my work on the Brandon microfossils, I have always intended publication as a monograph but have been delayed by the necessity of revision in view of later German papers, by uncertainty of publication, and by preoccupation with other matters. Nevertheless, it is all ready now and will be submitted through Bureau channels in a week or so. It runs to about 250 type-written pages and eight plates with about 160 figures. Just where it will be published is still not known.

I am sending under separate cover another of my publications that may be of interest to you.

Very truly yours,



Alfred Traverse
Coal Technologist

ATraverse:vh

cc: Region V
Lankford
Traverse
File 625.1
C File

NEW YORK STATE COLLEGE OF AGRICULTURE

AT CORNELL UNIVERSITY
ITHACA, NEW YORK

CORNELL UNIVERSITY AGRICULTURAL
EXPERIMENT STATION

WILLIAM I. MYERS, DEAN

DEPARTMENT OF BOTANY

RECEIVED

NOV 12 1954

U. S. Bureau of Mines
Grand Forks, North Dakota

November 10th, 1954

Dr. Alfred Traverse
Lignite Research Laboratory
Box L L, University Station
Grand Forks, North Dakota

Dear Al:

Thanks for the reprints just received. They are certainly lucid accounts of what goes on in the study of coal and hence one area of paleobotany. I for one can make good use of them.

Do you plan a more extensive paper on the Brandon microfossils than the Jour. of Paleont. report? On rereading the latter it is clear that an extensive period of labor is represented by those few pages but that the "meat" is presented therein. Still, I'd like to know if an extended description is planned.

Best wishes,

Sincerely,

Harlan

Harlan P. Banks

HPB:s

NEW YORK STATE COLLEGE OF AGRICULTURE

AT CORNELL UNIVERSITY
ITHACA, NEW YORK

CORNELL UNIVERSITY AGRICULTURAL
EXPERIMENT STATION

WILLIAM I. MYERS, DEAN

DEPARTMENT OF BOTANY

RECEIVED

JUN 8

U. S. Bureau of Mines
Grand Forks, North Dakota

June 5, 1954

Dr. Alfred Traverse
Lignite Research Laboratory
Box LL, University Station
Grand Forks, North Dakota

Dear Al:

Thanks for the reprint on the new method of treatment of lignite. It sounds to me like a good and useful method that ought to tell you a lot about the material concerned. Is there any chance that you will be getting to the meetings in Florida this fall? I can imagine the answer is probably "no", but it would be good to see you again.

Don't worry about the size of the envelope. Perhaps we are lucky to have envelopes at all.

With best wishes,

Sincerely yours,

Harlan P. Banks

Harlan P. Banks
Head

HPB:mm

NEW YORK STATE COLLEGE OF AGRICULTURE

AT CORNELL UNIVERSITY
ITHACA, NEW YORK

CORNELL UNIVERSITY AGRICULTURAL
EXPERIMENT STATION

WILLIAM I. MYERS, DEAN

DEPARTMENT OF BOTANY

RECEIVED

JUL 6 1953

U. S. Bureau of Mines
Grand Forks, North Dakota

July 1st, 1953

Dr. Alfred Traverse
U. S. Department of Interior
Bureau of Mines
Box LL, University Station
Grand Forks, North Dakota

Dear Al:

Thank you very much for the Brandon lignite
paper.

The size of the envelope leads me to suggest
that there was ample room for a reprint from the trans-
actions of the Royal Societies of London, or perhaps for
a USGS Professional Paper.

With very best wishes,

Sincerely yours,

Harlan

Harlan P. Banks

HPB:s

L. KNUDSON, PROFESSOR
L. C. PETRY, PROFESSOR
W. C. MUENSCHER, PROFESSOR
L. F. RANDOLPH, PROFESSOR
D. G. CLARK, PROFESSOR
R. T. CLAUSEN, PROFESSOR
F. C. STEWARD, PROFESSOR
H. P. BANKS, ASSOCIATE PROFESSOR
C. H. UHL, ASSISTANT PROFESSOR

NEW YORK STATE COLLEGE OF AGRICULTURE

AT CORNELL UNIVERSITY
ITHACA, NEW YORK

CORNELL UNIVERSITY AGRICULTURAL
EXPERIMENT STATION

WILLIAM I. MYERS, DEAN

DEPARTMENT OF BOTANY

ans'd by
card 5 Sept '51

Thursday

Dear Al:

Slow to answer because I've been away a few days.

1. No abstract needed — Society hasn't the money to publish them this year
2. If you cancel (I hope not) just do not show up. I will still read the title and your name.
3. I am afraid I can not leave until last minute. + will have to fly. If I go by car, I'll leave next Wednesday, probably will have room & will WIRE you if that possibility comes to pass.

Congratulations
on your recent
marriage!

Sincerely,
Harlan

21 August, 1951

Dr. Harlan Banks
Department of Botany
Cornell University
Ithaca, New York

Dear Dr. Banks:

I am having a three month period of indoctrination here, preparatory to my being sent to Grand Forks, North Dakota, to work on the lignite out there, for the Bureau of Mines.

I am having some difficulty getting leave to go to Minneapolis to give my paper and still may not be able to go, but I am making my plans as if I can.

That brings up several questions which perhaps you can answer for me:

1. Are abstracts of the papers required? If so, when and to whom should they be submitted?

2. If I must cancel my paper, whom should I inform?

3. If you are going by automobile, would you have room for me?

Looking forward to seeing you again, if possible, I am

Yours sincerely,

Alfred Traverse

TIER
VARD

Cornell Names New Head Of Its Botany Department



Clayton Smith

Dr. Harlan P. Banks

ITHACA, N. Y., Aug. 23—Dr. Harlan P. Banks, Professor of Botany at Cornell University, has been appointed as the new head of the botany department, the university board of trustees announced.

He succeeds Dr. Lewis Knudson who retired July 1 after forty-four years as a member of the Cornell faculty.

Dr. Banks, a graduate of Dartmouth College in 1934, served as an instructor in botany there until 1936. He was awarded a Cramer Fellowship by Dartmouth for advanced study and came to Cornell for graduate work. He received his Ph.D. degree in 1940.

He made extensive collections of fossil plants in New York State, Pennsylvania, and eastern Canada.

From 1940 to 1947 he taught and conducted research in the biology department at Acadia University in Wolfville, Nova Scotia.

Dr. Banks was called to the University of Minnesota in 1947 where he organized an elementary botany course for 1,000 students and set up a laboratory of paleobotany.

He is noted for his research on Devonian plants, said to have been the first plants that evolved on the earth, originating 375,000,000 years ago.

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