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

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About the Institute

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

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



May 24, 1977.

Your file *Voire référence*

Our file *Notre référence*

Dr. Alfred Traverse,
Department of Geosciences,
College of Earth and Mineral Sciences,
The Pennsylvania State University,
UNIVERSITY PARK, Pennsylvania 16802
U.S.A.

Dear Al:

Yes, quite a startling little paper, a preprint, I believe, of the proceedings of the Tampa Symposium to be held this fall. But in itself the preprint does not answer the points it raises. Achab (at INRS, Quebec) regards the claims as "daring" ("très osé") and neither of us are any more convinced one way or the other than before we read the preprint. Jansonius is very sceptical.

Startling interpretations of chitinozoa affinities appear every so often, and are argued so forcefully that I tend to back away. Obut (1973), xerox enclosed, argues desperately but unconvincingly for a relationship with the dinoflagellates. When discussing things like chitinozoa affinities one ought not to appear to have an emotional investment in ones ideas!

In short, I no more believe chitinozoa are fungi now than I did six months ago. Locquin does not persuade me in the slightest degree. But I am open-minded, ready to be persuaded, and looking forward to a fuller expression of his views in the full proceedings of the Tampa meeting or the León palynology meeting, both to be held this fall. Chitinozoa may be fungi, but it is up to the discoverer of such a fact to convince his peers. Locquin has not yet tried to do this.

I am happily working for the GSC, living in another log house like the one you visited in 1971, but cosier, more "treed", and much closer to the mountains. My wife raises Great Danes, some very good ones. We even exported two to America!! I have a 45 minute drive to work but on my way home each afternoon I consider every one of the thirty-three miles between my home and the city a blessing.

.....2

Dr. Alfred Traverse,
May 24, 1977,
Page 2.

Currently we are trying to fill Brideaux's shoes, with an experienced dinoflagellate specialist. Paul Gunther's position will be filled in due course, too. He went to Geochem in Calgary.

Jocelyn Legault and I are writing the chitinozoa paper for the AASP anniversary volume. It is coming along nicely, but selecting the reliable over the unreliable records in the literature is hard work, and not the way to make friends, either!

Al Traverse was one person I did not get to talk to enough at Halifax so your letter was a double pleasure. Keep the xerox.

With my very best wishes to you,

Tony

W.A.M. Jenkins.

WAMJ:ja

Dr. W.A.M. Jenkins
Geological Survey of Canada
3303 33rd St. NW I.S.P.G.
Calgary, Alberta, Canada T2L 2A7

Dear Tony:

What do you make of the recent paper "Fungi of the Lower Paleozoic...", in which Locquin claims that the chitinozoans are fungi?!

In addition to getting your comments on this startling paper, I look forward to hearing of your current news.

Best wishes as always.

Yours very truly,

Alfred Traverse
Professor of Palynology

AT/et

P.S. The paper was published in the Second International Congress of Mycology, Symposium on Fossil Fungi, 1977, printed in Tampa, Florida

December 1, 1971

Dr. W.A.M. Jenkins
Imperial Oil Ltd.
339-50 Avenue S.E.
Calgary, Alberta
Canada

Dear Tony:

I am returning to you under separate cover the house plans which you loaned me to peruse. I have enjoyed doing so very much and so have some of my friends. I do hope you haven't started to worry about whether you were to get them back or not! The AASP meetings in Tucson were a great success, but your group's absence was keenly felt despite the fact that almost 150 people took part in the meeting. I don't think that the calibre of the papers was quite up to last year, but perhaps I am just being modest since my name was associated in one way or another with six of the presentations!

Are you ever going to get a chance to hand pick me some chitanzans for possible chemical study? I was a little distressed to see that they have you doing completely different things these days. By the way, I must tell you how much fun it was to see you all at work in Calgary. Until one has visited a laboratory there is an unreal quality about it when you think about the place.

Best wishes to you and your wife for the holiday season. Hoping to see you again before too long, I am

Yours very truly,

Alfred Traverse
Professor of Geology & Biology

AT/vsi

To A. Travençolo

I wonder if you had considered the political wisdom of
giving a complimentary copy of the 1st AASP proceedings to the more illustrious
biologists & institutions around the world. These proceedings would
say more than a lot of talk, would be ample testimony
our association's good health, & should be taken advantage
(I think). Our association is strong, it serves more of
purpose than any other ^{professional} society to which I belong, & I like
idea of it being tastefully promoted. I mentioned these points
Bob Clarke in a letter replying to ^{one of} ~~his~~ ^{which} ~~the~~ ^{a, keep} ~~for~~
else on the publication.

All good wishes,

17-V-71

Yours truly,

Tony (J. Jones)

May 28, 1971

Dr. W.A.M. Jenkins
Imperial Oil Ltd.
339-50 Avenue South East
Calgary 24, Alberta
Canada

Dear Tony:

Thanks for yours of 17 May. Doubtless I am sweeping you off your feet with such a prompt answer. I have quite often thought more about the question of Chitinozoan composition, and I still think we should do something about it. As I mentioned in my letter of almost a year ago, I believe that the best approach would be for you to prepare for me as concentrated as possible a small sample of processed chitinozoans and send them to me in a small vial with complete information about the processes used. I can then pick out individuals and through use of my contacts in our various chemical departments around here get help in attempting to analyze the critters. If it were possible to prepare the sample by purely mechanical means--break-up with washing soda, the kerosene-water technique, or with plain water per Charlie Belix's technique, or whatever, I think that would be ideal, but I see no reason why hydrofluoric acid treatment ought to affect greatly the chemical composition of the microfossils. Once we get our teeth slightly into the problem, I would suppose it would be nice if we could get some pure graptolite fragments to try the same treatments, whatever they are.

I am not sure that I ever responded either to yours of "Thursday, 24 September" (presumably 1970!). It was fun to hear about your moving to Calgary, and your house sounds just great. We missed you at Toronto, and it was, as you predicted, a very fine meeting. I am planning to attend the Permo-Triassic symposium in Calgary in August, and perhaps this will provide an opportunity for seeing you again. I am thinking of bringing my wife and making it a combined scientific and pleasure thing. I have not completely given up the notion of going to the Congress in Novosibirsk, but I would say that it's a very long shot at this point. Your suggestion as to sending a free copy of the first AASP Proceedings to some of the big names and

institutions in world-wide palynology is a pretty good one, and I intend to bring it to the attention of the Executive Committee. I am sure that the suggestion will get a thorough airing and may very well be acted on. It is partly suggestions from the rank and file of members which makes any organization strong, which reminds me that you have one of the major holdouts against AASP (Frank Sappin) right in your own back yard. Maybe you could work on him.

Looking forward to hearing from you and possibly seeing you in the late summer, I am

Yours very truly,

Alfred Traverse
Professor of Geology & Biology

AT/mdw



Tony Jenkins

IMPERIAL OIL LIMITED

339 - 50 AVENUE SOUTH EAST, CALGARY 24, ALBERTA

PRODUCTION RESEARCH AND
TECHNICAL SERVICE LABORATORY
WESTERN REGION PRODUCING DEPARTMENT

Dr Alfred Traverse,
Department of Geology,
Deike Building
Penn State University
Pa. 16802 U. S. A.

17th May 1971

Dear Al,

I am just now replying to your letter of Sept. 15, 1970 in which you profusely apologise for not replying sooner to mine of the 12 January. In case you occasionally have a big "clean out" of your office, desks etc. I am sending you a xerox of your last letter.

No, I have done nothing about writing on chitugoian composition. I should at least have told you I was getting impatient before finding someone else to do the work for me!!

Yes, I am interested in doing some chemical studies ^{on the chits} but things here are all new to me, I'm working on Cretaceous dinoflagellates from the Grand Banks, and I've not as much "free" time as I would like. However, let's start fairly soon and take our time if we have to. Perhaps late this summer I could work up a sweat + a few residues. Should we take one species

- and I could pick out one that I'm sure was a natural species - and study the daylight's out of it. Then take a second species (as many tests as you like ~~or~~ or can get me to pick) from the same rock (i.e. with identical history) + see if the results are similar, how dissimilar etc. Then lastly take the same two species from a different rock (necessarily a slightly different age) - and see the effect of time, environment + preservation on these two species. I expect we'd have lots of ideas on what to do as we went along. The first thing is for me to prepare the samples. I will do this as and when opportunity allows.

I wonder if you had considered the political wisdom of sending a ^{complimentary} copy of the 1st AASP proceedings to the more illustrious palynologists + institutions around the world. These proceedings would do + say more than a lot of talk, would be ample testimony to our association's good health, + should be taken advantage of (I think). Our association is strong, it serves more of a purpose than any other ^{professional} society to which I belong, + I like the idea of it being tastefully promoted. I mentioned these points to Bob Clarke ~~in~~ in a letter replying to ^{one of} his ~~in~~ ^{which} ~~asked~~ ~~for~~ views etc on the publication.

All good wishes,

Yours truly,

Tony (Jenkins)

Tony Jenkins

Thursday 24th Sept. '70

Dear Al,

Many thanks. No, I'd not forgotten the letter. I have been sitting by the mail box waiting for a reply each morning since January 12!! No, I've not given up on you either, but

though I'll be happy to do as you suggest there are problems.

I'm off to work for Imperial in Calgary shortly. Much of my stuff is packed and I leave here as soon as I can get a work permit for Canada. So, we'll have to wait till I've settled up there and unpacked. Then I'll send you the best material

I can put my hands on. I'm still very enthusiastic about the work. Nobody else is involved but you + I, tho' there's no reason why another shouldn't join us. Bill + I have bought a lovely acreage in the foothills and are building a superb (we think) log house on it.

Toronto is off for me, tho' it looks a grand programme. I'll get in touch from Calgary. Then perhaps we can discuss what we want to do, how ambitious we are etc. Or perhaps we can await the chemical tests & see where that leads us.

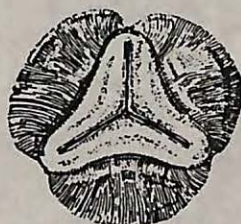
Best wishes,

Tony

Jenkins

CATALOG OF FOSSIL SPORES AND POLLEN

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



THE
INTERNATIONAL COMPENDIUM
OF
PALYNOLOGICAL SYSTEMATICS

September 15, 1970

Dr. W.A.M. Jenkins
Esso Production Research Company
P.O. Box 2189
Houston, Texas 77001

Dear Tony:

I have just been going through a bunch of correspondence which I have set aside hoping that I might find time to take appropriate action on the letters. However, the one from Tony Jenkins, dated 12 January, 1970, I still have not got around to doing anything about. Mea maxima culpa! You probably have long since forgotten it, but the letter had to do with the possibility of some compositional studies of Chitinozoans. Perhaps you have already given up on me and have taken on a collaborator at Esso. I could hardly blame you. However, if you are still interested, how about preparing as concentrated as possible a residue of Chitinozoans from some rock you know to be rich and bring it with you to the Toronto meetings if you are coming? If not, you could mail it to me. I had been hoping to do the work myself, but that obviously is not happening. I believe that if I had such a concentrated residue, I really could get around to getting the chemical studies underway. How about it?

Just got back from a combined work-vacation (mostly vacation, for once!) trip to the Maritime Provinces of Canada--my birthplace. Much fun and only a smattering of palynology.

See you in Toronto if you are coming. Sorry I have been so slow and apparently uncooperative on this chemistry of pseudochitin business! Best wishes.

Yours very truly,

Al
Alfred Traverse
Professor of Geology & Biology

September 15, 1970

Dr. W.A.M. Jenkins
Esso Production Research Company
P.O. Box 2189
Houston, Texas 77001

Dear Tony:

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See you in Toronto if you are coming. Sorry I have been so slow and apparently uncooperative on this chemistry of pseudochitin business! Best wishes.

Yours very truly,

Alfred Traverse
Professor of Geology & Biology

ESSO PRODUCTION RESEARCH COMPANY

POST OFFICE BOX 2189

HOUSTON, TEXAS 77001

Dr Alfred Traverse
Deike Bldg.
The University
Pa 16802

January 12th, 1970

Dear Al,

A very happy, worthwhile and peaceful 1970 to you.

First of all, the invitation to review the papers is a compliment to you. At the same time, I can understand your embarrassment at having to review papers which the L. S. U. press are virtually bound to accept — if only for the reason that they were presented and are part of the proceedings that L. S. U. press ~~is~~ recording has agreed to record. However, my paper (+ Evitt's too, I understand) is substantially different from ~~the~~ talk; parts have been added, portions omitted, and the whole thing rewritten for print rather than the voice. You can justifiably train all your guests on presentation, illustrations, even spelling and punctuation. Points not explained or subsequently questioned ^{in the talk} you could require clarification of (what a construction!) in the printed version etc. My own ATSP effort was aimed at a particular readership — the reviewer is the first person to see how near the author has come to his target, and bring him closer if he can. I'll be very glad if you ~~can discuss~~ ~~proceeding~~ ~~they're~~ ~~not~~ ~~abusive~~

please turn over →

Have you thought more about investigating chitinozoan composition? I think I made it clear while up with you that I'd enjoy working on such a study with you when you found some time. Perhaps I (with your directions) could do some of the time-consuming ground work so that the task would seem formidable to you - I know how very busy you find yourself.

~~But~~ I would enjoy doing the work - it's something that should be done and someone will do it shortly if we don't. I'm I could write up an attractive little background story for our study of composition, justifying it etc. and - who knows - perhaps concluding something consequential when we have the results.

I have no idea really what you had in mind, but it might be a good idea to do the whole thing (analyses etc) for four or five rather different species from the same rock sample and then analyse ^{one particular} species from several different (but relatively undeformed) kinds of rocks.

Drop me a line, Al, when you've pondered. I doubt I will have time to do anything much before year's end - but there's no harm planning ahead.

Very sincerely,
Tony Jenkins

Tuesday

Dear Al,

Thank you for your 20th Jan. letter and the news that the paper is in good shape. You are absolutely right, of course, about making some reference ^{in the abstract} to the graph-chit issue. I've not heard anything from Bob Clarke or Dick Hedlund - I'm not sure who's in charge - nor has the MS been returned, but I've rewritten the first paragraph of the abstract to end thus: "Their systematic position is not known. Conflicting opinions about their biological affinities are examined, however, and the hypothesis is put forward that chitinozoans are related genetically to graptolites. Evidence for this conjectured relationship is ^{largely circumstantial} discussed." }? which. Or perhaps you've made a much better suggestion on the MS itself.

I've also made a few word changes here and there:

p 4, last line: 'promising' in place of 'encouraging'

p. 31, line 10: 'persistent' " " " 'striking'

p. 33, line 4 to read: of the Kinderhook Series (Mississippian) in north Africa.

" " 10 " " " " " and chitinozoans are genetically related
(since I elsewhere speak of an ecological relationship)

p. 35, line 7 to read: " " " " " prove to be related, as is conjectured here, the

" " " " " 9+10 to read: and their affinities - now widely held to lie with the ~~Plerobranche~~ hemichordates - have always been in dispute.

changes save the most minor ones. If anything important is altered or added/removed I'll let you have a copy of the finished galley a week before I return them so you can have a chance to approve the final ~~format~~ thing.

Please keep the chit. chemistry tucked away in the back of your head and let me know when you think I can start something off for you. My apologies for the "heavily embossed Crown Bond notepaper!" I'm laid up at home with a filthy cold; I've been free of colds for 2 years but the one truly is making up for lost time. By dose is cobbletely bugged up.

With very good wishes,

Yours sincerely,

Tony

Jenkins

January 20, 1970

Dr. W.A.M. Jenkins
Esso Production Research Company
P.O. Box 2189
Houston, Texas 77001

Dear Tony:

Thanks for yours of 12 January to which this will not be an adequate response! Regarding the review job--I have now finished it, for better or for worse. I found your paper fun reading and in basically very good shape. My major negative criticism, if it could be called such, was that the business about the possible (probable?) relationship between the chitinozoans and the graptolites was the subject of nearly four pages of discussion in the paper itself, was considerably emphasized in the oral presentation, and is surely one of the most interesting things about the whole contribution. Yet, for some reason you completely side-stepped the subject in the abstract of the paper. I think I understand your caution, but it does not seem justifiable to me to "hide" some of your best ideas. So, I am suggesting strongly that at least a sentence covering your most interesting suggestion be inserted into the abstract.

Regarding the chemistry of chitinozoans, I certainly agree with you about the desirability of doing something, but I suppose it would be a while before I could get at it. I noticed in your paper you had something to say about "pseudochitinous" nature of chitinozoans. At the moment I am not even sure I understand the approximate structural formula of pseudochitin or its precise relationship to real chitin. We have a long way to go! Thanks for your very interesting and your much appreciated greetings. Looking forward to seeing you again before too long, I am

Yours very truly,

Alfred Traverse
Associate Professor of Geology & Biology

AT:kc

January 6, 1970

Dr. W.A.M. Jenkins
Esso Production Research Company
P.O. Box 2189
Houston, Texas 77001

Dear Tony:

Did I ever acknowledge receipt of "Chitinozoa"^L--the paper for the Proceedings of the Baton Rouge meeting? Having the copy will be very useful to me in attempting to cover chitinozoans in my course and also for possible use in my own research (I hope).

The people at the LSU press have asked me to be one of the official reviewers for the Proceedings, and I find the business a little embarrassing. I don't understand how I could really advise them not to publish any of the papers, since they were actually presented at the meeting. I suppose I can make some recommendations for improvements and let it go at that. I still am basking in the memories of the pleasant day we spent in the field, but I must confess that I have done nothing at all with the samples as yet. I am hoping that during the coming term I will find a few hours somewhere to get to work on them.

Best wishes to you for a prosperous and peaceful 1970.

Yours very truly,

Alfred Traverse
Associate Professor of Geology
and Biology

AT:ke

December 17, 1969

Dr. W.A.M. Jenkins
Esso Production Research Company
P.O. Box 2189
Houston, Texas 77001

Dear Tony:

Thanks for the copy of "Chitinozoa from the Ordovician Viola...." The publication arrived in great shape--what a fancy package you sent it in! You will be amused or flabbergasted that I have already made use of the publication. You may remember me telling you that our department is responsible for a small television show seven days a week. My number comes up from time to time, and the last time it did I spoke in very general terms about your work and ^{the} probability that it shows a relationship between the chitinozoans and the graptolites. I used some of your fancy SEM pictures and some of those from this most recent paper. Certainly ~~you~~ appreciate your keeping me informed.

Best wishes of the season and for a happy and peaceful 1970 to you.

Yours very truly,

Alfred Traverse
Associate Professor of Geology
and Biology

AT:kc

July 16, 1969

Dr. W.A.M. Jenkins
Esso Prdduction Research Company
P.O. Box 2189
Houston, Texas 77001

Dear Tony:

Thanks for yours of 17 June, and I am sorry that it has taken me the best part of a month to get around to answering it. In regard to timing, I think that it would clearly be better for you to have a bit of time here after instead of before the meeting. In the first place, there will inevitable be the usual pre-meeting confusion. Furthermore, I am easily distracted, and I wouldn't be able to concentrate on our discussions and work with so much going on all around me!

I think the thing for us to do is to go on the official AASP field trip on the Wednesday of the meeting, then to head off on the following Thurs. and Fri. with one of the local geologists to look at what could be done in the lower part of the section. The AASP trip will serve to square us away on the general shape of the section around here, and besides I feel obliged to attend it!

I enclose the slides you lent me some time ago. I hope that as a result of your visit I will acquire some good local material from which teaching and research residues can be prepared.

Yours very truly,

Alfred Traverse
Associate Professor of Geology & Botany

AT:kwc

Enclosure: slides

ESSO PRODUCTION RESEARCH COMPANY

POST OFFICE BOX 2189

HOUSTON, TEXAS 77001

17th June 1969

Dear Al,

Just a quick one to say that I have been given permission to come to the AASP meeting in October, and to stay up for a few days afterwards - or before? This will enable us to go into the field and perhaps meet any of your students who are about to embark on ethnographic studies.

Since I just don't have any time to prepare a respectable presentation for the students, please don't arrange anything formal for me. Permission to come is a kind of special dispensation; I could have managed to come if I'd worked up something to present at the AASP meeting, but (like so many of us) I've had no time to think of a title, let alone prepare a paper.

Let me know what you'd like me to do. If you have just one or two ^{interested} students I could bring some transparencies and/or microscope slides, and introduce them to some good, enthusiasm-generating forms. Let me know. I'm game for anything, short of involving myself with many hours of work beforehand.

Precisely when would you like me to come up - or stay 'til.

Very best wishes,

Hunt Institute for Botanical Documentation
Tony (Hunt)

April 22, 1969

Dr. W.A.M. Jenkins
Esso Production Research Company
P.O. Box 2189
Houston, Texas 77001

Dear Tony:

It has occurred to me that if you could get away to come up this way next fall--my more or less "free" term--we could profitably spend a few days in the field and lab looking into what could be done with the chitinozoans which I feel sure occur in our thick sections of Ordovician and Silurian in Centre County, Pa., and environs. If you could make such a trip it would contribute greatly to our research program, which should definitely include work on the chitinozoans of the area--a virgin field--and it would also be of great assistance to me in my efforts to make palynological instruction at Penn State as comprehensive as possible. The chitinozoans are pretty much of a blank to me as yet! I will have a couple of new graduate students by that time, and I should think that a chitinozoan problem or two ought to be underway here. Of course, if this should contribute to your own research work, so much the better! How about it?

Best wishes as ever.

Yours very truly,

Alfred Traverse
Associate Professor of Geology
and Biology

AT:kwc

April 16, 1969

Dr. W.A.M. Jenkins
Esso Production Research Company
P.O. Box 2189
Houston, Texas 77001


Dear Tony:

I am only embarrassed that I have caused you worry. If you can pick up some material that would be rich enough for classroom work (students are easily discouraged--and one can hardly blame them), that would be great. In the meantime, your slides for demonstration purposes are just fine. Thank you so much, and don't be apologetic. I'll return them soon.

One of the students here has found some scrappy chitinozoans in some of the local Ordovician rocks, and I am hoping that I can get another student to take a more detailed look in the relatively near future. There are all kinds of local stratigraphic problems for which chitinozoan studies would be very useful. I was hoping that materials you sent might be stimulating, and if you come across stuff you know to be rich, please do remember us. Perhaps when you come here for the convention next fall you can get us going locally. In fact, what about you and I and perhaps one student going on a field trip after the meeting with just that in mind? The official field trip is heading northwest to the Pennsylvanian on the Wednesday after the meeting, but we could head out the next day into the Ordovician, Silurian, and Devonian in the immediate Umgebung of State Collgge. Hope you're interested.

Best wishes and thanks again.

Yours very truly,


Alfred Traverse
Associate Professor of Geology & Biology

AT:kwc

ESSO PRODUCTION RESEARCH COMPANY

POST OFFICE BOX 2189

HOUSTON, TEXAS 77001

Dr A Traverse

11th April, 1969

Dear Al,

You may recall that at years turn I said I'd try to find you a good chitinozoan residue or a few rock samples. Well, I've just exhausted my resources and found nothing worth sending. The position is this. All my Ordovician samples were cut to a minimum volume for purposes of travelling. I want my British samples to go back to the Museum at Sheffield; the American samples must be split 3 ways (a portion for Sheffield, a portion with me, and a portion for an act-torch study); and this company has nothing that would not utterly discourage the keenest 1st year student. For your own ^{personal} ~~individual~~ studies I could always provide you with a little sample here and there; but I've too precious little left for anything else. Collecting my American samples was a big job, involving two of us and a lot of long hard work, and the little I have left is just too valuable to 'practise' on. I hope you will understand.

What I have done is prepare residues from several cores in our core lab, but none of those would be of any use to you. I am very disappointed.

All being well, and whether my company agrees or not, I'm going on the Convention Field trip 10, in the Arbuckles! I will there be able, if you wish and it's not too late, to obtain several 'tons' of good sample for you. To add you over I'm sending these two slides of Sylvan Slate

ESSO PRODUCTION RESEARCH COMPANY

POST OFFICE BOX 2180

HOUSTON TEXAS 77001

residue. I would like to ask for them back as soon as I get you some rock samples. They are not precious — so let your students throw them around.

One contains picked specimens, including a few scolecodonts, of typical Sylvan cherts. The other is a shrew slide. My paper on the Sylvan is virtual completed and ready to go off. It is the one, you may recall, for which you sent \$50⁰⁰ to Palaeontological Ass. Hope they'll do.

Best wishes,

Tony (Jenkins)

January 27, 1969

Dr. W.A.M. Jenkins
Esso Production Research Company
P.O. Box 2189
Houston, Texas 77001

Dear Tony:

It was great to get your letter of 16 January, the reprint, and the detailed instructions. Now, if I can only inspire some interest among the brethren here, we should start finding some chitinozoans! In the meantime, if you can indeed send the residues from the cores you mention, this year's (very small) class in palynology could make some slides of their own and have some clearer conception of what their ancestors (?--am I going too far?--mmm.) were like. Unfortunately, most of the rocks around this immediate vicinity are dolomitic and/or considerably folded. However, I should think that the Reedsville shale should be a good bet, and we'll try it first.

Thanks very much indeed. I'll look forward to getting the residues when you are able to prepare them. You have already helped me greatly.

Best wishes.

Yours very truly,

Alfred Traverse
Associate Professor of Geology

AT:kwc

Esso Prod. Res. Co.
P.O. Box 2189
Houston Texas 77001

16th January, 1969

Dear Al,

I'm sorry for taking so long to reply to your last letter. My excuse is that I'm in the middle of changing offices (and all that is therein), and had so many little things to do before attempting the transfer.

I have no written schedule for preparing chitinozoans other than what I put into my thesis at Sheffield; a copy of this is enclosed. The methods are expressed rather more "scientifically" and a lot more succinctly in "Ordovician Chitinozoa from Shropshire" (Palaeontology 10, 436-88) on page 439-442; a copy of this, too, is enclosed. I've very little advice about what sort of rocks to collect. You should, however, avoid those whose grains are larger than chitinozoans; those that are deeply weathered; and those that clearly have seen a lot of recrystallization (dolomites perhaps, and sugary limestones etc.). Other than that, I find that if chitinozoans are going to be ^{found} in an area they'll generally be found in the shales and unaltered limestones; they are always poorest in numbers, variety and preservation in arenaceous rocks.

At the moment I have no residue that I can part with, but am preparing a couple for you. I hope they contain good material. They are from a couple of Upper Ordovician cores. I'll see how they turn out and, if they're the sort to encourage ^{a student} rather than dismay him, I'll send them on to you.

If what I'm sending is not quite what you wanted let me know.

Best wishes,

Tony

Janis

Dr Alfred Traverse
Deike Building
The Penn State University
University Park, Penn 16802

January 6, 1969

Dr. W.A.M. Jenkins
Esso Production Research Company
P.O. Box 2189
Houston, Texas 77001

Dear Tony:

I wonder if there is any chance you could do me a favor that would be of great help to me in my efforts to teach palynology here?--it is a lot to ask, and I won't be in the least offended if you demur, but I wonder if you could provide me with:

1. a maceration and preparation schedule for extracting chitinozoans from appropriate rock samples (comments on types of samples to collect would also be of use--perhaps some of the formations in our immediate area would be chitinozoiferous, or whatever the word would be), including mounting.

2. some (2 or 3?) residues which have already been prepared and you know to be rich in chitinozoans, for students to make preparations from and be duly impressed.

As I say, I realize full well that this is asking quite a bit, but if you can find time to oblige it would be much appreciated.

We are already getting very cold feet about the responsibility of sponsoring the second AASP convention. You all did such a fine job at Baton Rouge.

Yours cordially,

Alfred Traverse
Associate Professor of Geology

AT:kwc