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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 1996

Dear Al — Thank you for the note  
with good memories noted. (Bob's  
health was diminished this past  
2 years but I refused to acknowledge  
the many signs. I give thanks that  
he simply went to sleep sitting here  
at the table where we both worked  
so many projects in quiet, shared  
hours. He was a wonderful spirit to  
share 55 years with. But, oh, the  
house is so empty now! My best to you,  
Wilma & Joanne

United States Department of the Interior

**THE DENVER POST**

**Tuesday, April 23, 1996**

**Robert M. Kosanke**  
**Paleontologist, 78**

Robert M. Kosanke of Lakewood, a paleontologist, died Wednesday at his home. He was 78.

A memorial service will be at 2 p.m. tomorrow at Mile Hi Church of Religious Science in Lakewood.

He was born Sept. 4, 1917, in Park Ridge, Ill. On March 5, 1941, he married Avalonne J. Cross.

Kosanke earned a degree from Coe College and a master's degree from the University of Cincinnati. He was awarded his doctorate from the University of Illinois at Urbana where he specialized in palynology, the study of fossil spores and pollen.



**Kosanke** worked at the Illinois Geological Survey and taught at the University of Illinois from 1943 until 1963.

He was a research geologist at the U.S. Geological Survey in Lakewood and continued there as Scientist Emeritus.

He was a Fellow of the American Association for the Advancement of Science and the Geological Society of America. In 1989, he received the GSA's Cady Award for his outstanding scientific contributions and pioneering work in coal geology.

Survivors include his wife; two sons, Robert Charles, California, and Kenneth Raymond, Lakewood; and one granddaughter.

Contributions may be made to the Geology Department at the University of Illinois at Urbana; or to the Denver Botanic Gardens.



# United States Department of the Interior



GEOLOGICAL SURVEY  
BOX 25046 M.S. 919  
DENVER FEDERAL CENTER  
DENVER, COLORADO 80225

IN REPLY REFER TO:

October 8, 1993

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

Dear Al:

I want to clarify Aureal's participation in the manuscript you reviewed. Cross and I were asked to write on the topic of Early studies of Carboniferous palynomorphs in North America. Cross had been seriously ill, had manuscripts of his own, and the deadline was on us. I wrote the paper and sent out the rough draft for review. Unfortunately, the reviewers suggested a somewhat mixed bag. Cross received the same manuscript copy you did and indicated he had changes, also Peppers papers needed to be included, and my 1950 paper was more important than indicated.

I am at fault for including the post 1960 papers. I regret having become involved when I had other manuscripts of my own to complete.

Sincerely yours,

Robert M. Kosanke



United States Department of the Interior

GEOLOGICAL SURVEY  
BOX 25046, M. S. 919  
DENVER FEDERAL CENTER  
DENVER, COLORADO 80225



August 19, 1993

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

27 August, 1993

Dr. Robert M. Kosanke  
U. S. Geological Survey  
Box 25046, M. S. 919  
Denver Federal Center  
Denver, CO 80225

Dear Bob:

Yours of 13 August is in hand. Of course, you may use the figures you mentioned, as far as I'm concerned.

I had heard of your retirement from Doug, and I wish you all the best in it. Occasionally we view slides we made when you and family visited us in Denver in the summer of 1955. Ye gods, almost a half-century ago!

All the best.

Yours very truly,

Alfred Traverse



United States Department of the Interior

GEOLOGICAL SURVEY  
BOX 25046 M.S. 919  
DENVER FEDERAL CENTER  
DENVER, COLORADO 80225



IN REPLY REFER TO:

August 13, 1993

3 July, 1993  
Dr. Alfred Traverse  
Department of Geosciences  
435 Deike Bldg.  
Pennsylvania State Univeristy  
University Park, PA 16802

Dear Al:

I am writing a chapter on early studies of Carboniferous palynologists in North America for a Geological Society of America Memoir Series. I am seeking permission to use two photographs that appear in your textbook. These are on page 11, figure C (Erdtman and Hoffmeister) and on page 15, figure D (Schopf). Full credit would be given to the source, you, and the publisher.

I have recently retired after more than 50 years to a volunteer status and am busier than ever working on various manuscripts. On real advantage is missing much of the paper work.

Best wishes,

*Bob*

Robert M. Kosanke

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

From:

To: Al Traverse

From: Bob Kosanke

Re: Dennis in photo at the Paley Conference

Date: 7/25/80

3 July, 1990

Dr. Robert Kosanke  
U.S. Geological Survey  
P&S Branch, MS 919  
Federal Center  
Denver, CO 80225

Dear Bob:

Thanks for your additional two names for the IPC-Tucson photo. Maxine Abbott is surely right for your number 1. However, your number 2 seems to me to be Margaret W. Steeves.

Your photo from Krefeld, 1961, was very interesting. I recognize "schöner Robert" of course, and the other Robert, but who is the third guy?

All the best.

Yours very truly,

Alfred Traverse

AT/et

THE PENNSYLVANIA STATE UNIVERSITY  
DEPARTMENT OF BOTANICAL  
AND GEOLOGICAL LABORATORIES  
300 Old Main Building  
University Park, Pa. 16802  
(814) 863-4111

Memo

To : Al Traverse  
From : Bob Kosanke *Bob*  
Re : People in photo at 1st Paly. Conference  
Date : 6/25/90  
10 April, 1988

Al I think you have done a good job in identifying as many as you have. I believe your identification of Bill Chaloner is correct. I can add Maxine Abbott and Elizabeth Knox and they are 1 and 2 marked in red. Several years ago I was moved into an office with windows, air-conditioning, and carpet. I was given the help of a gal in the move and I am still trying to find some things. I did not locate the Tuscon meeting material so made several enlargements of your copy and they are enclosed.

In looking for the Tuscon material I came by the enclosure taken in Krefeld in 1961 by Spode. This enclosure is a Xerox copy and you can file it in your round file.

obviously (?)  
chitinous. The coal ball fungi reported by Taylor et al. always  
seemed to be doubtfully chitinous, but yours without  
question. Were they abundant?

I still think it's weird that the Pennsylvanian stratotype is not  
in Pa. tho' I of course understand.

Best

Yours very truly,

Alfred Traverse



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

Branch of Paleontology and Stratigraphy

March 6, 1989

Memorandum

18 April, 1989

From: Robert M. Kosanke

Subject: U.S. Geological Survey Professional Papers 1479 and 1486

Dr. Robert Kosanke  
U.S. Geological Survey  
Federal Center, MS 919  
Denver, CO 80225

Dear Bob:

Many thanks for PP 1479 and 1486, which I just read in Chicago's Midway Airport. The fungal hyphae fascinated me--obviously (?) chitinous. The coal ball fungi reported by Taylor et al. always seemed to me doubtfully chitinous, but yours withstood maceration. Were they abundant?

I still think it's weird that the Pennsylvanian stratotype is not in PA, tho' I of course understand.

Best.

Yours very truly,

Alfred Traverse

AT/et



United States Department of the Interior

GEOLOGICAL SURVEY  
BOX 25046 M.S. 919  
DENVER FEDERAL CENTER  
DENVER, COLORADO 80225

Branch of Paleontology and Stratigraphy

March 6, 1989

IN REPLY  
REFER TO:

Memorandum

From: Robert M. Kosanke

Subject: U.S. Geological Survey Professional Papers 1479 and 1486

Enclosed are reprints of U.S. Geological Survey Professional  
Papers 1479 and 1486 that you requested.

Enclosures

*Hi Al:  
all of stratotype  
now complete -  
But wishes!  
Bob*



THE PENNSYLVANIA STATE UNIVERSITY  
United States DEPARTMENT OF GEOSCIENCES of the Interior  
PALYNOLOGICAL LABORATORIES

435 Deike Building  
University Park, PA 16802  
(814)863-3419 or (814)865-6711

Branch of Paleontology and Stratigraphy

November 3, 1988

29 November, 1988

Dr. Robert M. Kosanke  
U.S. Geological Survey  
M.S. 919, Box 25046  
Denver Federal Center  
Denver, CO 80225

Enclosed is the reprint of the U.S. Geological Survey Professional

Dear Bob: that you requested.

Thanks for the copy of Prof. Paper 1455. Very thorough piece of work! I have a couple of students doing projects on Pennsylvanian samples, and I sympathize with them that there are so few up-to-date "picture books" for Carboniferous spores. Wouldn't it be nice if there were a modern atlas of such?

All the best.

*Received your letter re "West Virginian"  
Large Lower Pennsylvanian forms in  
in West* Yours very truly,

Alfred Traverse

AT/et



IN REPLY  
REFER TO:

# United States Department of the Interior

GEOLOGICAL SURVEY  
BOX 25046 M.S. 919  
DENVER FEDERAL CENTER  
DENVER, COLORADO 80225

Branch of Paleontology and Stratigraphy

November 3, 1988

23 October, 1988

Memorandum

From: Robert M. Kosanke

Subject: U.S. Geological Survey Professional Paper 1455

Enclosed is the reprint of the U.S. Geological Survey Professional Paper 1455 that you requested.

Enclosure

Hi :

Received your letter re "West Virginian"  
Sorry - Lower Pennsylvanian Series is  
in West Virginia & Virginia.

Best wishes,  
Bob

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

31 October, 1988

Dr. Robert Kosanke  
U.S. Geological Survey  
P&S Branch, MS 919  
Federal Center  
Denver, CO 80225

Dear Bob:

Read your GSA abstract with great interest. Wish I could have been there, but Australia exhausted both my time and \$. If the stratotype for P is to be in West Virginia, why not change the name of the system to "West Virginian"?

Best.

Yours very truly,

Alfred Traverse

AT/et

TO AT  
DATE 24-II-88 TIME 2:45

WHILE YOU WERE OUT

M. Bob Kosanke  
Of \_\_\_\_\_  
Phone \_\_\_\_\_

TELEPHONED  PLEASE RETURN CALL   
CALLED TO SEE YOU  WILL CALL AGAIN   
RETURNED YOUR CALL  RUSH

MESSAGE will call  
shortly after  
3:30 -

Signed BT

The Standard Register Company

was about a  
cosmetics job  
that I expressed  
an interest in.

20 February, 1986

Dr. Robert Kosanke  
U.S. Geological Survey  
P&S Branch, MS 919  
Federal Center  
Box 25046  
Denver, CO 80225

Dear Bob:

Many thanks for Prof. Paper 1318, and the xerox of the 1975 Carb. Congress deal. Both useful.

It's too long since we got together. Maybe we'll mutually attend a meeting one of these years? I have fond memories, for example, of your visit to Denver in 1955 (!).

Best.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et

9 December, 1985

Dr. Robert Kosanke  
U.S. Geological Survey  
P&S Branch, MS 919  
Federal Center, Box 25046  
Denver, CO 80225

Dear Bob:

I judge from my files that you must have sent me a reprint of Kosanke, 1979: Compte Rendu 8th Cong. Carbon. Moscow, 3:100-110. However, somebody has borrowed it and failed to return it, apparently. Do you still have a copy I could have? Failing that, could you make me a xerox of your copy? Our library has Congresses 1-7 and 9 but not 8, for some reason.

All the best for the season, as ever.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et



IN REPLY  
REFER TO:

# United States Department of the Interior

GEOLOGICAL SURVEY  
BOX 25046 M.S. 919  
DENVER FEDERAL CENTER  
DENVER, COLORADO 80225

Paleontology and Stratigraphy Branch

March 21, 1983

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

Dear Al:

The British Survey published the volume in question, but their name does not appear in the publication. The proper citation therefore should be:

Kosanke, R.M., 1982, Mississippian-Pennsylvanian boundary in the United States based on palynomorphs, in Ramsbottom, W.H.C., Sanders, W.B., and Owens, Bernard, eds., Biostratigraphic data for a mid-Carboniferous boundary, Leeds, England. Subcommission on Carboniferous Stratigraphy, p. 27-35.

Best wishes,

Robert M. Kosanke



IN REPLY REFER TO:

# United States Department of the Interior

GEOLOGICAL SURVEY

Box 25046

Denver Federal Center

Denver, Colorado 80225

Paleontology and Stratigraphy Branch

Mail Stop 919

March 24, 1978

Dr. Alfred Traverse  
Department of Geosciences  
Pennsylvania State University  
University Park, Pennsylvania 16802

Dear Al:

I greatly appreciate your letter, Al, and I may be attending the AASP meetings next October, so perhaps we can get together then. The publication by Anderson is indeed worthy of examination from several aspects.

Best wishes in your change.

Sincerely,

Robert M. Kosanke



16 March, 1978

Dr. Robert M. Mosanke  
U.S.G.S., Geologic Division  
Mail Stop 919, Box 25046  
Federal Center  
Denver, CO, 80225

Dear Bob:

Thanks for your recent letter which I have forwarded to Bill Spackman who now, as far as I know, has complete charge of the Catalog operation. I resigned my association with it over a year ago and am not keeping in close touch with the affairs of it. The reason that I did this I would be glad to discuss with you sometime. In the meantime I feel greatly relieved not to be worrying about CFSP any more.

Thank you very much for the information about Anderson's work on Permian-Triassic biostratigraphy. I had not seen that and will take action immediately to acquire a copy.

Best wishes to my various friends out there.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/et

February 26, 1976

Dr. Robert M. Kosanke  
U.S.G.S.  
Geologic Division  
Branch of Paleontology and Stratigraphy  
Building 25  
Federal Center  
Denver, CO 80225

Dear Bob:

Thank you for your helpful comments on Volume 40. Between you, Jansonius, and Chaloner, I think we have caught at least 99% of the embarrassing gremlins.

Thank you very much for the copy of Luber, 1939--the genus in question was *Circella* ~~not~~ *Circelliella*, but in any case we have got the matter straight now, with your help. Of course, we have put the Luber reference in the bibliography. Thanks also for the corrections of spelling, especially the egregious blunder in the generic name of *Trispaerea*! (Jansonius seems to have an especially keen eye for this sort of thing and found several dozen spelling boo-boos.)

Well, thanks again for your help with this volume. Without the editorial committee we would be in very bad shape! Best wishes to you and my other friends out your way!

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT:jb



United States Department of the Interior

GEOLOGICAL SURVEY  
Denver Federal Center  
Denver, Colorado 80225

Paleontology and Stratigraphy Branch  
Mail Stop 919

IN REPLY REFER TO:

January 2, 1976

Dr. Alfred Traverse  
Department of Geosciences  
529 Deike Building  
Pennsylvania State University  
University Park, Pennsylvania 16802

Dear Al:

I have a few items that turned up during my review of volume 40 and the appropriate pages are enclosed together with a copy of Luber 1939 that you may keep. I hope to do some additional checking prior to your deadline and if anything turns up I'll let you know. Best wishes for the new year.

Sincerely,

Robert M. Kosanke

Enclosures

December 19, 1974

Dr. Robert M. Kosanke  
U.S.G.S., Geologic Division  
Branch of Paleontology & Stratigraphy  
Building 25, Federal Center  
Denver, Colorado 80225

Dear Bob:

Thank you so much for your review of Volume 39 and your nice letter about it. We are a little concerned that you found no more mistakes than you did. We are and have been in a quandary about the letters following certain literature reference dates. I have decided to stick with the letters which are represented by cards in our Catalog bibliographic file, so that Potonié 1960a will always be the same Potonié. I realize that this is fraught with a certain amount of difficulty, but I can't see any better way to do the business at this point. I am sorry that I missed the Miami meeting also, but I had no travel money having spent it on the AASP session in Calgary which I (I hope correctly) evaluated as more important to me.

Best wishes to you and Avalonne for the holiday season.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/vsi



United States Department of the Interior

GEOLOGICAL SURVEY  
Denver Federal Center  
Denver, Colorado 80225

Paleontology and Stratigraphy Branch  
Building 25

IN REPLY REFER TO:

USGS:P&S:RMK

November 29, 1974

Dr. Alfred Traverse  
Catalog of Fossil Spores and Pollen  
529 Deike Bldg.  
Pennsylvania State University  
University Park, Pennsylvania 16802

Dear Al:

I believe the proof copy of volume 39 is in excellent shape. Congratulations on a good job. After a careful review the only thing I can suggest is the deletion of the letter "a", page 225 following 1960 in the Potonié reference.

The taxon Plicatella as defined by Malyavkina surely merges with Cicatricosisporites in one direction and with Appendicisporites in the other.

I thought I would see you at Miami but I guess somebody had to keep things going on the home front. Bill, Peter, Art, Russ, and the others conducted an excellent field trip.

Sincerely,

Robert M. Kosanke

October 7, 1974

Dr. Robert M. Kosanke  
U.S.G.S., Geologic Division  
Branch of Paleontology & Stratigraphy  
Building 25, Federal Center  
Denver, Colorado 80225

Dear Bob:

Under separate cover we are sending you a "proof" copy of Volume 39 of the *Catalog of Fossil Spores and Pollen*. Will you follow previous procedures by sending us back-pages which you feel need corrections, along with an explanatory letter? We would very much like to have your critique by mid-November.

You may have been wondering what has been happening with Volume 38. It came back from the printers about six months ago, but we have been unable to obtain the binders from the General Binding Corporation despite pleas, threats, and prayers. The current lie is that they will be delivered on 9 October. Once we get this order filled, we are taking our business elsewhere.

Looking forward to hearing from you about Volume 39 as soon as possible, and with best wishes I am

Yours very truly,

Alfred Traverse  
Editor

AT/vsi

# THE PENNSYLVANIA STATE UNIVERSITY

DEIKE BUILDING  
UNIVERSITY PARK, PENNSYLVANIA 16802

College of Earth and Mineral Sciences  
Department of Geosciences  
Palynological Laboratories

Area Code 814  
865-6543  
865-2342

August 8, 1974

Dr. Robert M. Kosanke  
U.S.G.S.  
Geologic Division  
Branch of Paleontology and Stratigraphy  
Building 25  
Federal Center  
Denver, Colorado 80225

Dear Bob:

Thank you for seeing to that I got sent a copy of "Palynological Studies of Coals of Princess Reserve District ...". Just when I thought we had all genera that we needed for Paleozoic sediments, along come Zosterosporites! It looks like you could almost call it a Paleo-appendicisporites! Best wishes to all my friends in Denver and especially to the Kosankes.

Very truly yours,

Alfred Traverse  
Professor of Palynology

AT:lsw

March 28, 1974

Dr. Robert M. Kosanke  
U.S.G.S., Geologic Division  
Branch of Paleontology & Stratigraphy  
Building 25, Federal Center  
Denver, Colorado 80225

Dear Bob:

Thanks for your two recent letters. Nichols is working on two oil co. jobs and will probably take one of them. I do wish he could have stayed in more nearly academic circles.

Re Pollenites: your letter is very helpful--especially the enclosures. I got a letter a while back, along with R. Pot's death notice, apparently prepared from R.P.'s notes--and I am about ready to come to a conclusion.

Points re your letter:

1. The concept of non-acceptance by an author cannot be a applied ex post facto.
2. However, though R. Pot. used P. as a genus in 1931--it was not monotypic. Therefore, the lack of a description is fatal.
3. Andrew's selection of P. iliacus as type doesn't go because iliacus had earlier been made type of another genus.
4. The only hope for P. seems to be that perhaps the ~~base~~ few words applied to P. by Pot. could be interpreted as a description or perhaps illustration with analysis. At the moment, I am inclined to think not.

What is at stake, of course, is the valid publication of quite a few important species--attributed to P. in the early thirties!

March 28, 1974

Have you heard about the opening for head curator of paleontology at Field Museum? I nominated Dick Scott. Hmm. Best wishes to all.

Yours very truly,

Alfred Traverse  
Professor of Palynology

AT/vsi

100% COTTON

Fidelity Oron Skin

Alfred

3/13/74

Dear Al:

I responded to your Aug. 2, '73 letter on Doug Nichols that no openings were in sight. That may not be completely true now, but there are no openings in the immediate future. P & S. has a new Branch Chief in Washington and he hopes to be able to add a palynologist or two within a year or two. Bob T. Shudy has so informed Doug Nichols. In my letter of Aug. 17<sup>th</sup> to you I promised to let you know what was cooking.

Sincerely,

Bob Kosanke

December 13, 1973

Dr. Robert M. Kosanke  
U.S.G.S., Geologic Division  
Branch of Paleontology & Stratigraphy  
Building 25, Federal Center  
Denver, Colorado 80225

Dear Bob:

Tate and I are currently working on a series of "Supplementary Volumes" which will provide new combinations, new names, and other tads of nomenclatural information from the papers covered in volumes 1 to 30--before we begin covering such data.

There is one very thorny problem we have already encountered on which we badly need your advice before we proceed: many genera have been based on species which were originally attributed by Potonié to the genus Pollenites. Tate and I have so far been unable to discover any proof that Pollenites was ever validly published. If it was <sup>not</sup> invalidly published, under the rules none of the species attributed to it <sup>was</sup> ~~were~~ validly published either. As you can imagine, this plays hob with many generic names published by Thomson & Pflug and others.

Will you please let us have the benefit of your counsel as soon as possible so we know how to proceed. Do you have information that Pollenites was validly published? If so, by whom and where?

Looking forward to getting your advice, I am

Yours very truly,

Alfred Traverse  
Editor, Catalog of Fossil Spores & Pollen

AT/vsi

December 11, 1973

Dr. Robert M. Kosanke  
U.S.G.S., Geologic Division  
Branch of Paleontology & Stratigraphy  
Building 25, Federal Center  
Denver, Colorado 80225

Dear Bob:

Thank you so much for your help with volume 38. The editorial committee is rendering us absolutely invaluable assistance in getting out a product which will stand the test of time (we hope). We especially appreciated your compliments on undertaking this task. I should tell you that Chaloner did not agree, but I have written him explaining that our feeling<sup>is</sup> that anything which was effectively published simply must be covered. It does not carry with it any implication of approval on our part.

I thank you for the mistakes you have found in the bibliography and have accepted all of them excepting for a couple on which I don't agree. First, with reference to the suffix letters after certain of the publication dates, I have gone around and around about this, but can see no other way. I have added the letters to the cards which we keep for permanent use in the Catalog bibliographies, and whatever we call "1965a" will always be "1965a". It's a sort of damned if you do and damned if you don't business. The only problem is that if I do retain the a's, b's, etc., I suppose I should do so also in the footnotes in the text. What do you think? Regarding Malyavkina, 1949, you have queried the 138 pp. The difficulty, as I am sure you know, is that it is not really clear how many pages the book has. The Index actually lists a section as beginning on p. 139! The Russians themselves apparently consider plates as part of the pagination, and if you went that route you'd get an entirely different number. Which brings me to the question of Samoilovich, 1953. You have corrected the final page of that publication from 92 to 57, and I have accepted this on my card and in the bibliography to volume 38. However, the next paper in the same volume starts on p. 93. Hence, if you use "Russian logic", you come to the inevitable conclusion that the last page of the Samoilovich contribution is 92!

Dr. Robert M. Kosanke

-3-

December 11, 1973

With reference to Sauer and Mchedlishvili, 1954--I do not have a copy of this publication and got reference to it from Neustadt's bibliography. I very seldom use secondary sources, and hate to, but had no other choice in this instance. Neustadt does not give number of pages. If you ever can find out the correct citation for that publication I would be most grateful to have it.

Best wishes to you and your family for the holiday season and thanks again for all your help.

Yours very truly,

Alfred Traverse  
Professor of Geology & Biology

AT/vsi



United States Department of the Interior

GEOLOGICAL SURVEY

Denver Federal Center

Denver, Colorado 80225

Paleontology and Stratigraphy Branch  
Building 25

IN REPLY REFER TO:

G:P&S:RMK

November 20, 1973

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

Dear Al:

I have examined Volume 38 off and on since receiving it about a month ago. I found no major problems, but must admit I've kicked around the question of validity of descriptions considerably inasmuch as my spore bulletin from the Illinois Survey was completed in 1948, and was delayed in publication until 1950, just one year after Malyavkina's publication. I believe you are correct that the descriptions are valid, but the scattering on several pages of the descriptions; line drawings of a rather primitive type and very vague type localities detract from the publication.

On the other hand, you are to be commended most highly for taking on the task. One thing this has done for me, is a re-evaluation of types, descriptions and type localities. I find now that type localities seem more important than ever before because type slides are not forever, but good locality information could allow recollection and preparation in subsequent years. I have a few possible corrections with regard to the references and to this end, pages 38-227 and 38-228 are enclosed.

Sincerely,

*Bob*

Robert M. Kosanke

Enclosures

*I enjoyed our discussion on the phone today and doubt that this letter is necessary but you can file it for the record.*

August 17, 1973

Dr. Alfred Traverse  
Catalog of Fossil Spores and Pollen, Deike Bldg.  
Pennsylvanian State University  
University Park, Pennsylvania 16802

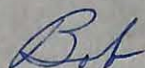
Dear Al:

Honestly the job situation within the Survey is basically unchanged since June 30, 1966 at which time Congress imposed a ceiling on the number of employees the Survey could have. This is further complicated by the fact that several new programs have been undertaken requiring personnel to shift within the organization to fill the gaps. I am the last full-time professional added to the P&S staff in Denver and that was more than 10 years ago. There are a number of vacancies in our branch but we can not fill them at this time. In other words Al, very little has changed.

I remember Doug Nichols as I met him at Penn State during the AASP meeting in 1969. I believe he spoke on the Texas lignites and I have an address for him now at the State University College, Geneseo, New York 14454. If I should hear of any openings that might be of interest to Nichols in the future I will let you know Al.

This has been a rather busy summer and was capped off by the First International Congress of Systematic and Evolutionary Biology held at Boulder recently. The last of those visitors left yesterday so perhaps things can return to normal around here. Best wishes to all.

Sincerely,



Robert M. Kosanke

August 2, 1973

Dr. Robert M. Kosanke  
U.S.G.S.  
Geologic Division  
Building 25, Federal Center  
Denver, Colorado 80225

Dear Bob:

I am writing with reference to my former student, Doug Nichols, regarding his as yet unsuccessful search for <sup>an</sup>adequate professional position in palynology. I believe I may have discussed this over the phone or in person with you previously, but I am writing in case that in the year or more which has intervned since the last contact on the subject there might have been some new development. In brief, I am wondering whether the U.S.G.S. might ever hire an additional palynologist with ~~ompetence~~ competence in the Cenozoic? Nichols, as you perhaps know, ~~he~~ also can lay claim to capabilities in animal micropaleontology (he worked for the American Museum of Natural History, Department of Micropaleontology for a time) and is an excellent field geologist. Any chance they might consider him? He did get two offers from oil companies earlier this year, but I (perhaps foolishly) advised him to turn them down because I think that this is a man who would work out much better with a geological survey or in a university.

Hoping that you are having a good summer and that I might hear from you informally about this matter at your convenience, I am

Yours very truly,

Alfred Traverse  
Professor of Geology & Biology

AT/vsi



United States Department of the Interior

GEOLOGICAL SURVEY  
Denver Federal Center  
Denver, Colorado 80225

Paleontology and Stratigraphy Branch  
Building 25

IN REPLY REFER TO:

G:P&S:RMK

February 1, 1973

Dr. Alfred Traverse  
Catalog of Fossil Spores & Pollen  
Deike Building  
Pennsylvania State University  
University Park, Pennsylvania 16802

Dear Al:

I do not believe the use of Greek letters valid in a strict interpretation of the Code and so would agree with Stafleu. I have always considered them as code designations that the author for one reason or another failed to remove at time of publication. I had never discussed this with Bob, Dick, or Stella so I decided to get their viewpoint. All agreed that the Greek letters should not be a part of the name. I suppose Stafleu is correct that the matter should be dealt with in the next version of the Code rather than to ignore the problem. As for the Catalog--what about a footnote incorporating discussions with Stafleu?

Sincerely,

Robert M. Kosanke

January 4, 1973

Dr. Robert M. Kosanke  
U.S.G.S., Geologic Division  
Branch of Paleontology & Stratigraphy  
Building 25, Federal Center  
Denver, Colorado 80225

Dear Bob:

Thank you so much for your letter of 7 November and the numerous very helpful comments on Volume 37 which accompanied it. All of the returns have been in for several weeks now and only the intervention of the holiday period has prevented an earlier response to your letter. I always like to explain exactly what we have done about your comments.

First of all, regarding the things which you brought up in the letter itself you are certainly right about figures numbers being unnecessary on our formats when only one figure is illustrated, and we have removed the one to which you made reference. On the other hand, we have decided that to insert the maceration numbers under holotype for Peppers' paper would involve more labor than the change is worth inasmuch as the information is available in the text which we have reproduced. However, I appreciate your calling attention to this omission because it will help to guide us in future volumes.

You did an excellent job of checking the bibliography, and the mistakes you found have been corrected in the bibliography for Volume 37 and, perhaps more importantly on the cards which form the source for our bibliographies. I must comment on the "1956a" business which appears in several of the citations. I have wrestled with this problem ever since I started doing this work, and finally had come to the conclusion that there simply must be some way of distinguishing the individual papers when an author has published more than one in one year. (surely we could get something into the International Code prohibiting publication of more than one paper per year by a single author!). Then, if you start using the suffixes, it seems to me that

you must consistently keep it up so that 1956a is always 1956a and not sometimes 1956a and sometimes 1956. It is a difficult problem, and I don't see any solution to it which will be entirely pleasing. While I am commenting on your work on the bibliography I should say that it would be much easier to follow your corrections if you used red or some other color than black in making them. I do hope I didn't miss any. Some of the things you turned up proved to be quite interesting. For example, Klaus, 1960, has 184 pp. showing on the inside of the front cover as the number of pages in the publication, 183 pages on the outside cover, and none of us is convinced that it should be either 183 or 184, though we have decided to go with 183. Regarding Potonié & Kremp 1956b, we are unable to understand how you came to the conclusion that page numbers should be 65-142. We have it as 65-121 and still think this is correct. Perhaps you will feel inclined to make further comment so that we can be sure to have it right in future. Lakhampal, 1960 is given that date of publication on the basis of information provided us by the Sahni Institute. The imprint date is 1958, but it is not correct. I certainly was glad that you caught the duplication of the two references to the Playford paper. It gets discouraging sometimes that things like that can still creep in.

Regarding the Nomenclatural Comments--you are right that publishing these constitutes a change in policy. I think, however, that it is a good change in policy and that CFSP is now a much more useful publication than it has ever been in the past. I certainly am well aware of the risks involved, and I am hoping that the editorial committee will protect us against making major booboos.

Now for comments on specific pages:

4. The sloped tab that read holotype has been replaced, (I wish we had better glue).
  98. Here and elsewhere, as explained above, we have decided not to insert the maceration number on the holotype line.
  145. The extra numeral for figure 7 has been removed.
  127. We are not sure we understand your comments in this case. The spelling of the species name which was given in your honor by Peppers has been corrected in our presentation at the top to Rosankei. We cannot, however, make the change in the captions and so forth which came from Peppers. We leave the author's original material absolutely as he presented it. Art. 73, however, makes it very clear that if the person's name in whose honor the species is named ends in a vowel a single i should be added to the name. I am sure you agree that your name should be considered as ending in a vowel!
- Art. 73.

Dr. Robert M. Kosanke

-3-

January 4, 1973

Thank you so much for your comments and for the labof that you invested in making Volume 37 a better product. Best wishes for the New Year and always.

Yours very truly,

Alfred Traverse  
Professor of Geology & Biology

AT/vsi

August 4, 1972

Dr. Robert M. Kosanke  
U.S.G.S., Geologic Division  
Branch of Paleontology & Stratigraphy  
Building 25, Federal Center  
Denver, Colorado 80225

Dear Bob:

Thank you so much for your useful comments on Volume 36. We got really few corrections from the Committee this time, and that always makes me nervous. The reactions to your comments in detail:

1. You were quite right about the four papers instead of seven. Aureal also picked this up, and as I explained to him, the reason was that we originally had seven papers, but it made the volume too long, and we took out three of the short papers for coverage in future volumes.
2. Regarding the page numbers we have listed for the genera it seems our numbers as originally stated were correct. We are going with the page on which the generic description appears. It's a difficult decision, but the point is that if the genus happened to have five species, and the type species is the fourth one on the list, it would be a bit absurd to list the generic coverage for the first species, perhaps 10 pages before the page on which the generic description appears. So, just as a matter of policy to obtain consistency, we are citing the page on which the generic description is to be found.
3. We have changed the footnote on 36-127 to get across the point which I believe you were making, that the Code does not "probably require" but absolutely requires that one of these three spores be designated as lectotype.
4. You are absolutely right about the spelling of Sphagnites.

Dr. Robert M. Kosanée

-2-

August 4, 1972

5. The Kraüsel & Leschik paper seems to be a handy perennial in my mistakes--appreciate your catching it!

In brief, thank you so much for your help once more. Keep up the good work for us! Regards to you and Avalenne. See you in Rhode Island.

Yours very truly,

Alfred Traverse  
Professor of Geology & Biology  
Editor, Catalog of Fossil Spores & Pollen

AT/vsi



United States Department of the Interior

GEOLOGICAL SURVEY  
Denver Federal Center  
Denver, Colorado 80225

Paleontology and Stratigraphy Branch  
Building 25

IN REPLY REFER TO:  
G:P&S:RMK

July 10, 1972

Dr. Alfred Traverse  
Catalog of Fossil Spores and Pollen  
529 Deike Building  
Pennsylvania State University  
University Park, Pennsylvania 16802

Dear Al:

I am enclosing pages 36-ii, 36-127, 36-259, 36-267, and 36-268.

These pages of volume 36 have a few chicken tracks on them you may want to check out. I would imagine in 271 pages there would be more than I found so I may have missed some this time around. Footnote 1, page 36-152 is correct I just find it hard to believe the author's statement.

Sincerely,

Robert M. Kosanke

Enclosures



United States Department of the Interior

GEOLOGICAL SURVEY

Denver Federal Center

Denver, Colorado 80225

Paleontology and Stratigraphy Branch

Building 25

IN REPLY REFER TO:

G:P&S:RMK

April 5, 1972

Dr. Al Traverse, Editor  
Catalog of Fossil Spores and Pollen  
Pennsylvania State University  
University Park, Pennsylvania 16802

Dear Al:

I greatly appreciate the reprints including those with Dunay and Nichols and enjoyed your guest editorial on the Catalog. I am pleased that this information is recorded and well remember those early meetings of the Committee. The 1st volume of the Catalog I have is marked received 8/13/57. How did you manage to get the color plate for those thin sections?

Sincerely,

Robert M. Kosanke



United States Department of the Interior

GEOLOGICAL SURVEY  
Denver Federal Center  
Denver, Colorado 80225

Paleontology and Stratigraphy Branch  
Building 25

IN REPLY REFER TO:

G:P&S:RMK

March 6, 1972

Dr. Alfred Traverse, Editor  
Catalog of Fossil Spores and Pollen  
Pennsylvania State University  
University Park, Pennsylvania 16802

Dear Al:

I am pleased my review of volume 35 was of value to you. I think it is great that Bill has jumped into things also. You have every reason to expect all of the members of the Editorial Committee to help out. Best wishes to all.

Sincerely,

Robert M. Kosanke

Fidelity Onion Skin  
100% COTTON

March 1, 1972

Dr. Robert M. Kosanke  
U.S.G.S., Geologic Division  
Branch of Paleontology & Stratigraphy  
Building 25, Federal Center  
Denver, Colorado 80225

Dear Bob:

Thank you very much as usual for your thoughtful and extremely helpful comments on the "proof" volume of the Catalog, volume 35. We especially appreciate your sharp eye in catching things that would be embarrassing to us at a later date. A good example of this is the mistake in publication date for Leschik. You are quite right in saying that you previously called this to my attention, but I had forgotten it in the meantime. I have now made the correction a permanent part of the card I keep on that publication, and it should at least not happen again as long as I'm here.

Regarding your comment on Bharadwaj and his multiple photomicrographs--you are quite right in your comments: I couldn't agree more. However, as far as we are given to understand the meaning of the word "protolog" we are obliged to present all materials from the original publication that could possibly be construed as a part of the protolog, and the "extra" photographs are in that category.

In the Table of Contents, you suggest that we italicize *Vittatina africana* in the title of Hart's paper. However, it is not italicized in the original title of the paper (though it is so printed in the Table of Contents to the volume!). Under the circumstances I don't believe we can italicize the name though it is a difficult decision. You had the same comment regarding the page in the bibliography which included Hart's paper.

March 1, 1972

You are quite right about the misspelling of Giridih, and that has been taken care of, as has the misspelling of the name Palaeontology. The date ~~of 1946~~ for Leschik's paper has been corrected wherever it appeared, as I commented above.

Thanks again for all your help (in this volume you finished second in the mistakes found derby--Chaloner sharp eyed us into correcting 30 pages! including one absolutely hilarious mistake on page 35-14 which required a footnote). I enclose a xerox of the page in question in case it might be of interest to you.

Best wishes to everyone in Denver and thanks again.

Yours very truly,

Alfred Traverse  
Professor of Geology & Biology

AT/vsi

Enclosure: page from Chaloner's comments



IN REPLY REFER TO:  
G:P&S:RMK

## United States Department of the Interior

GEOLOGICAL SURVEY

Denver Federal Center

Denver, Colorado 80225

Paleontology and Stratigraphy Branch

Building 25

February 3, 1972

Dr. Alfred Traverse, Editor  
Catalog of Fossil Spores and Pollen  
Pennsylvania State University  
University Park, Pennsylvania 16802

Dear Al:

*changed!*

I am enclosing some pages from the proof copy of volume 35. The red pencil marks are either corrections or questions you may wish to consider. I am enclosing a copy of a letter from Birkhäuser Verlag in Basel concerning the actual publication date of Leschik's paper on Die Keuperflora von Neuwelt bei Basel. I am almost certain I sent you a copy of this letter some years ago. Anyway Al, the earliest possible date of publication should be February, 1956 rather than 1955. If we followed the Code precisely the actual date might be later than February, 1956 but in any event the 1955 date is out. A footnote in the Catalog about the date would be helpful inasmuch as the 1955 date is used in the Catalog.

*Not one dec.*

I would like to discuss another matter that has been brought into focus by the papers of Bharadwaj reproduced in this volume. This has to do with his practice of publishing a number of photomicrographs with each new species he describes. Take for example Densipollenites indicus (35-1 through 4) with the type specimen being figure 103. Figure 104 is identified as D. indicus so in reality it is a paratype specimen but is not so named. Eight other photomicrographs are shown and identified only as Densipollenites. The author refers to some of these "extra" photomicrographs in the generic diagnosis and as such perhaps it is necessary to reproduce them but there is another side to the coin. What is the status of these illustrated specimens identified to the generic level? They are not valid species. If a genus is the sum total of all of the characters of the species assigned to the genus then the value of the illustrated specimens is in doubt. This can become rather complex because from the original illustrations I question whether all of the figures should be associated with Densipollenites.

The reason for bringing this matter up is whether or not some policy other than that now followed should be adopted.

*all material  
in brackets  
for completeness*

In the case at hand the type of Densipollenites (Fig. 103) could be illustrated together with the paratype (Fig. 104) and the drawings (7a and 7b). One page of the Catalog could be saved by not illustrating figures 99-102 and 105-106.

Sincerely,

*Bob*

Robert M. Kosanke

Enclosures



6/11

BIRKHÄUSER VERLAG · BASEL (Schweiz)

SWISS BANK CORPORATION, 15 NASSAU ST., NEW YORK ?  
BANKEN: SCHWEIZ. KREDITANSTALT BASEL - SCHWEIZ. BANKVEREIN BASEL - SCHWEIZ. BANKGESSELLSCHAFT BASEL  
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U R B A N A, Illinois, USA.  
Natural Resources Building  
Attn. Mr. Robert M. Rosanke  
State Geological Survey Division

Basel, June 22, 1960  
E/st.

Dear Sir,

We thank you for your letter of June 15, 1960 and are pleased to inform you as follows:  
1. The separate Vol. 72/1, 1956, G. LINSCHIK, II. Die Iso- und Mikrosporen (Die Keimzellen von Nereis) was published in February 1956.  
2. The complete volume 72, 1956, was published later in June 1957.

Sincerely yours  
BIRKHÄUSER VERLAG

Hart, G.F., 1962. The definition of four genera of disaccate Striatiti by M.A. Sedova with comments: Dept. Geol. Univ. Witwatersrand Pub., pp. 1-10.

\_\_\_\_\_, 1964. A review of the classification and distribution of the Permian miospore: Disaccate Striatiti: Comptes Rendu 5th Int. Congress Strat. & Geol. Carboniferous, pp. 1171-1199.

\_\_\_\_\_, 1965. The systematics and distribution of Permian miospores: Witwatersrand Univ. Press, Johannesburg, 252 pp.

\_\_\_\_\_, 1966. Vittatina africana, a new miospore from the Lower Permian of South Africa: Micropaleont. 12:1:37-42. [CFSP Vol. 35]

Höeg, O.A. & M.N. Bose, 1960. The *Glossopteris* flora of the Belgian Congo, with a note on some fossil plants from the Zambesi Basin (Mozambique): Ann. Musée Roy. Congo Belge, Sci. Geol. Ser. 8, 32:1-107. [CFSP Vol. 22]

Ibrahim, A.C., 1933. Sporenformen des Aegirhorizonts des Ruhr-Reviers: Diss., Tech. Hochsch., Berlin, 47 pp. [CFSP Vol. 6]

Imgrund, R., 1960. Sporae dispersae des Kaipingbeckens: ihre paläontologische und stratigraphische Bearbeitung im Hinblick auf eine Parallelisierung mit dem Ruhrkarbon und dem Pennsylvanian von Illinois: Geol. Jb. 77:143-204.

Inosova, K.I. & L.P. Nestrenko, 1955. About spores and pollen of Permian deposits of the Donets Basin: Acad. Sci. USSR Reports (Doklady) 100:4:779-782 (in Russian).

Jain, R.K., 1968. Middle Triassic pollen grains and spores from Minas de Petroleo beds of the Cacheuta formation (Upper Gondwana), Argentina: Palaeontographica (Abt. B) 122:1-47.

Jansonius, J., 1962. Palynology of Permian and Triassic sediments, Peace River area, Western Canada: Paleontographica (Abt. B) 110:34-98.

Jizba, K.M.M., 1962. Late Paleozoic bisaccate pollen from the United States midcontinent area: J. Paleont. 36:871-887.

Klaus, W., 1955. Über die Sporendiagnose des deutschen Zechsteinsalzes und des alpinen Salzgebirges: Zs. Deut. Geol. Ges. 105:776-788. [1955a] [CFSP Vol. 13]

~~Vittatina~~  
not in  
orig!

- Klaus, W., 1963. Sporen aus dem südalpinem Perm: Jb. Geol. Bundesanstalt 106:229-363.
- Kosanke, R.M., 1950. Pennsylvanian spores of Illinois and their use in correlation: Illinois State Geol. Surv. Bull. 74:128 pp. [CFSP Vol. 5]
- Krutzsch, W., 1955. Über einige liassische "angiosperme" Sporomorphen: Zs. Geologie 4:65-76. [1955a] [CFSP Vol. 26]
- Lakhanpal, R.N., S.C.D. Sah & S.N. Dube, 1960. Further observations on plant microfossils from a carbonaceous shale (Krols) near Naini Tal, with a discussion on the age of the beds: Palaeobotanist 7:2:111-120. [CFSP Vol. 35]
- Lele, K.M. & P.K. Maithy, 1964. An unusual monosaccate spore from the Karharbari stage, Giridih coalfield, India: Palaeobotanist 12:3:307-312. [CFSP Vol. 35] Giridih
- Leschik, G., 1955. Die Keuperflora von Neuwelt bei Basel. II. Die Iso- und Mikrosporen: Schweiz. Palaeont. Abh. 72:1-70.
- \_\_\_\_\_, 1956. Sporen aus dem Salzton des Zechsteins von Neuhof (bei Fulda): Palaeontographica (Abt. B) 100:122-142. [CFSP Vol. 13]
- \_\_\_\_\_, 1959. Sporen aus den "Karru-Sandsteinen" von Norronaub (Südwest-Afrika): Senckenbergiana Lethaea 40: 51-95. [CFSP Vol. 35]
- Luber, A.A., "1940". As a cited source of the genus *Vittatina*, for example in Bharadwaj, 1962, this apparently refers to an unpublished manuscript.
- \_\_\_\_\_, 1955. Atlas of the spores and pollen grains of the Paleozoic deposits of Kazakhstan: Trans. Acad. Sci. Kazakhstan SSR, Alma-Ata, 126 pp. (in Russian).
- Lück, H., 1913. Beitrag zur Kenntnis des älteren Salzgebirges im Berlepsch--Bergwerk bei Stassfurt nebst Bemerkungen über die Pollenführung des Salztones: Diss., Leipzig, 33 pp.
- Manum, S., 1960. On the genus *Pityosporites* Seward 1914, with a new description of *Pityosporites antarcticus* Seward: Nytt Magasin for Botanikk 8:11-15. [CFSP Vol. 24]
- Nilsson, T., 1958. Über das Vorkommen eines mesozoischen Sapropelgesteins in Schonen: Pub. Inst. Miner. Paleont. Quat. Geol. Lund 53:1-111. [CFSP Vol. 24]

This date, despite being printed on separate must be 1956. The entire volume the separates were apparently issued Feb. '56.

I believe I sent you a copy of this letter from Carl Schindler Verlag in Basel.



United States Department of the Interior

GEOLOGICAL SURVEY  
Denver Federal Center  
Denver, Colorado 80225

Paleontology and Stratigraphy Branch  
Building 25

IN REPLY REFER TO:

G:P&S:RMK

September 20, 1971

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

Dear Al:

I have received the program and abstracts for the A.A.S.P. meetings. You, Don and all others who helped organize the program are to be congratulated. It will not be possible for me to attend the meetings this year but the meetings should be most successful with the program you have scheduled.

Best wishes,

Robert M. Kosanke

CC: Don Engelhardt

August 2, 1971

Dr. Robert M. Kosanke  
U.S.G.S., Geologic Division  
Branch of Paleontology & Stratigraphy  
Building 25, Federal Center  
Denver, Colorado 80225

Dear Bob:

Thank you so much for your letter of 30 June and the review of Volume 34. We have made the change you suggested for the Compiler's Preface regarding Simpson's paper, and I think you will be satisfied with the result.

Regarding "syntype"--the change to syntype from cotype was made after the proof copies had already been prepared, and I intended to mention that in the covering letter.

We have introduced a new footnote on page 34-147 to cover the situation that you had noticed regarding the illustrations for Bucklandia.

On page 34-153 you noted that the bracketed information for Casuarina should be from pages 432-433. However, it is our custom always to mention only the first page in such situations. It may be that we are wrong in this policy, but we are so well entrenched in it that it will be hard to change us!

Regarding page 34-179--we did not illustrate E. spicata because it did not say in Simpson's original text that it was intended "for comparison", as well the others did, and therefore could only be regarded as part of the protolog in a very broad interruption.

As always, both Tate and I have greatly appreciated your taking the time to review the volume, and, believe me, your efforts to improve the quality of our production is much appreciated. Looking forward to seeing you one of these days, certainly no later than the AASP meeting in October (?), I am with best wishes

Yours very truly,

Alfred Traverse  
Professor of Geology & Biology

AT/vsi

*Estee*

*Fidelity Onion Skin*

*100% COTTON*



United States Department of the Interior

GEOLOGICAL SURVEY

Denver Federal Center

Denver, Colorado 80225

Paleontology and Stratigraphy Branch  
Building 25

IN REPLY REFER TO:

G:P&S:RMK

June 30, 1971

Dr. Alfred Traverse, Editor  
Catalog of Fossil Spores and Pollen  
Deike Building  
Pennsylvania State University  
University Park, Pennsylvania 16802

Dear Al:

I have completed my review of volume 34 and am enclosing several proof sheets for your consideration. The task of putting together the first two papers must have been a real job. Congratulations.

It was nice talking to you last week and I hope you have resolved the problem at hand.

Sincerely,

Robert M. Kosanke

Enclosure

*Taurocypellus proteus* could be related to  
*Aquilapollenites spinulosus* (from Bernadine) &  
this species ranges K-Paleocene. See Martins in  
Palaeont. 11 p. 4

*Aquilapollenites* Rouse. Presence of specimens of this genus probably indicates Tertiary recycling of older material in the Isle of Mull sediments studied by Simpson.

Nomenclatural Comments such as that on *Retitricolporites* (34-63) are presented on separate pages, rather than as footnotes, partly because of their length and partly because they are comments of a more expository sort than is natural for footnotes.

We encountered two problems in Simpson, 1961, which require comment. Simpson published many photomicrographs and descriptions of extant pollen for direct comparison with his fossil palynomorphs. This information is ancillary to the protologs, and we have therefore presented it in our treatment. Also, Simpson in many instances did not designate holotypes for his species but instead indicated a series of forms as typifying his taxa. These he refers to as "cotypes". The 1964 International Code of Botanical Nomenclature makes clear that a holotype should be indicated. Furthermore, the Code provides (Art. 7) that where an author uses joint types, they are either syntypes or isotypes. Syntype is probably the more appropriate designation for dispersed spore specimens, and we have used this term rather than cotype in presenting Simpson's data.

The 22 new generic names are:

*Clavainaperturites* van der Hammen & Wymstra 1964

*Clavastephanocolpites* van der Hammen & Wymstra 1964

*Ctenolophonidites* van Hoeken-Klinkenberg 1966

*Desmidiaceasporites* Hunger 1953 ex Potonié 1960

pages 549-50

Age of Simpson material in question?

cotype is used so far as I can see

Species name: *Bucklandia prebasaltica* Simpson (1961)



10



11



12

Pl. 18

Figs. 10, 11, 12. *Bucklandia pre-basaltica*. Cotypes. Slides: Ardslnish Tertiary 19, Tertiary 2, and 10(b).



5



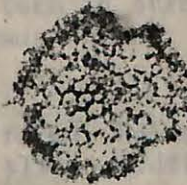
6

Pl. 19

Figs. 5, 6. *Bucklandia pre-basaltica*. Cotypes. Slides: Ardslnish 7(b) and 3(l).



12a



13a

Pl. 18

Figs. 12a, 13a. *Bucklandia populnea* R.Br. Modern grains for comparison with figs. 10-13.

10-12 = *B. pre-basaltica*  
13 = *B. mullensis*

inequilateral, but this feature may be due to deformation in the process of fossilization. The endexine in this grain is darker in colour, and so more conspicuous, than it is in the other fossil species described, and in the grains of living species examined.

*Occurrence.*—Prebasaltic: Ardslishish, Ardnamurchan.

*Types.*—Simpson Collection.

Slides: Ardslishish 2.2, Pl. X, figs. 1, 2; Ardslishish 2(g), Pl. X, figs. 4, 7.

[Grain with three pores equatorially situated and, exceptionally, one at the proximal pole, a reticulate, thick, two-layered exine, in shape peroblate, less commonly subtetrahedral, triangular in outline in polar view, traces of tetrahedral edges when present directed towards the pores, equatorial diameter 30–40  $\mu$ ; three pores on equator (in *tortulosa* occasionally a fourth pore at proximal pole), moderately large, circular, 3–4  $\mu$  in diameter, commonly slightly aspidate as in *suberosa*, sometimes not as in *equisitifolia*; exine two-layered, ectexine and endexine; ectexine thick (up to 2  $\mu$ ), finely reticulate, sometimes with a narrow collar of thickened (dark-staining) reticulum round the pore: endexine very thin, not reaching to pore, terminating about 5  $\mu$  from it (as in *Deplancheana*); polar diameter of grain about half the equatorial, generally no trace on proximal hemisphere of the tetrahedral edges except in immature grains, but this feature is frequently retained in mature grains of *tortulosa*.

Morphologically, the pollen grains of *Casuarina* have much in common with those of the *Proteaceae*, and might be confused with some of the latter of similar size.

The very thick ectexine, thin endexine and absence of a notable mesexine in *Casuarina*, however, contrast with a relatively thin ectexine, thick mesexine and generally obvious endexine in the *Proteaceae*.

*C. tortulosa* is of particular interest in retaining at maturity the primitive feature of asymmetry across the equatorial plane. The proximal hemisphere has retained distinct traces of the tetrahedral shape, and, also, in a large proportion of the grains a pore is present at the proximal pole.]<sup>2</sup>

Author: Simpson, J.B., 1961, p. 433, pl. 10, figs. 1-2, 4, 7

Reference: The Tertiary pollen-flora of Mull and Ardnamurchan: Trans. Roy. Soc. Edinburgh, vol. 64, no. 16, pp. 421-468, 20 pls., Edinburgh, Scotland

Type locality: Scotland, Argyllshire, Ardnamurchan (Natl. grid ref. 17/575625). Exposure 1 mi. NE of Ardslishish farm in stream that enters sea at NE corner of small inlet of Camas Fearna

Type horizon: Tertiary, Oligocene to Miocene

Preparation: Not given

Repository: Simpson Pollen Coll., Geol. Surv. Office, Edinburgh, Scotland  
Cotypes: Pl. 10, figs. 1-2, 4, 7, slides Ardslishish 2.2 and 2(g)

<sup>1</sup>[See bracketed information above.]

<sup>2</sup>[Bracketed information for characterization of pollen of the genus *Casuarina*, Simpson, 1961, p. 432,] ~~433~~

we use only  
1st page

Species name: *Engelhardtia granulata* Simpson (1961)



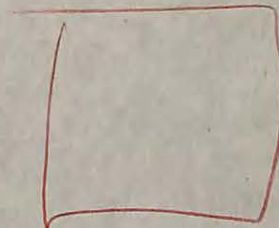
3



4



3a



4a

Figs. 3, 4. *Engelhardtia granulata*. Cotypes. Slides: Ardslnish 2-2 and 3(d).  
Fig. 3a. *Engelhardtia aceriflora* Blume. Modern grain for comparison with figs. 3 and 4.

Description:

Grains about 25  $\mu$  in diameter; outline in polar view strongly triarcuate, almost circular; three pores deep, narrowly elliptical, very slightly aspidate; collar very narrow, inconspicuous; exine granulate, granules large, not closely set. On one hemisphere (proximal aspect) three clear circular spaces below the pores, separated by a dark triradiate mark broadening towards the equator.

Occurrence.—Prebasaltic: Ardslnish, Ardnamurchan.

Types—Simpson Collection.

Slides: Ardslnish 2-2, Pl. XIV, fig. 3; Ardslnish 3(d), Pl. XIV, fig. 4.

Author: Simpson, J.B., 1961, p. 445, pl. 14, figs. 3-4.

Reference: The Tertiary pollen-flora of Mull and Ardnamurchan: Trans. Roy. Soc. Edinburgh, vol. 64, no. 16, pp. 421-468, 20 pls., Edinburgh, Scotland

Type locality: Scotland, Argyllshire, Ardnamurchan (Natl. grid ref. 17/575625).  
Exposure 1 mi. NE of Ardslnish farm in stream that enters sea at NE corner of small inlet of Camas Fearna

Type horizon: Tertiary, Oligocene to Miocene

Preparation: Not given

Repository: Simpson Pollen Coll., Geol. Surv. Office, Edinburgh, Scotland

Cotypes: Pl. 14, figs. 3-4, slides Ardslnish 2.2 and 3(d)

Fig 4a = E. spicata Blume  
not illustrated

Doesn't say  
"for comparison"



United States Department of the Interior

GEOLOGICAL SURVEY  
Denver Federal Center  
Denver, Colorado 80225

IN REPLY REFER TO:

G:P&S:RMK

Paleontology and Stratigraphy Branch  
Building 25

June 15, 1971

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

Dear Al:

The proof copy of Volume 34 of the Catalog of Fossil Spores and Pollen has arrived. I will make a serious effort to complete my review by July 1 and will return only corrected pages if there are any.

Best wishes to all

Sincerely,

Robert M. Kosanke

May 26, 1971

Dr. Robert M. Kosanke  
U.S.G.S., Geologic Division  
Branch of Paleontology & Stratigraphy  
Building 25, Federal Center  
Denver, Colorado 80225

Dear Bob:

In the attached package is your "proof" copy of Volume 34 of the Catalog of Fossil Spores and Pollen. As in previous volumes, we would appreciate a thorough review of this volume so that we can then submit it for printing. As I believe I have also previously said, please do not bother to return the volume to us but either tear out the pages on which you wish to make comments and return just those pages, or send your comments referring to particular pages and lines.

I am sure you know how much we all appreciate the effort that you put into doing this work for us, and we realize that your complimentary copies of the Catalog are only a token compensation. In order to keep to our publication schedule, we would very much appreciate having your comments by 1 July.

With best wishes as ever.

Yours very truly,

Alfred Traverse  
Editor

AT/vsi

P.S. A number of minor changes, including substitution of "syntypes" for "cotypes" in Simpson's papers, have been made on the formats, but the changes were made after the "proof" copies were xeroxed.

January 6, 1971

Dr. Robert M. Kosanke  
U.S.G.S.  
Geologic Division  
Branch of Paleontology & Stratigraphy  
Building 25, Federal Center  
Denver, Colorado 80225

Dear Bob:

Many thanks for your thoughtful review of volume 33. I was especially embarrassed by the mistakes which you picked up in the Compiler's Preface and am very pleased that we found out about them before publication. Indeed, it is this sort of thing that makes me sure that the "proof volume" technique is the correct way to approach our publication problem.

With best wishes to you and your family for the holiday season,  
I am

Yours very truly,

Alfred Traverse  
Professor of Geology & Biology

AT/vsi



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
FEDERAL CENTER, DENVER, COLORADO 80225  
Paleontology and Stratigraphy Branch  
Building 25

G:P&S:RMK

December 2, 1970

Dr. Alfred Traverse, Editor  
Catalog of Fossil Spores and Pollen  
Deike Building  
Pennsylvania State University  
University Park, Pennsylvania 16802

Dear Al:

I have just completed my review of volume 33 and am enclosing five sheets from the proof copy with a few corrections or suggestions. This volume is in excellent condition. I approve of limiting subsequent catalogs to not much more than 250 pages as per your letter of November 13.

Sincerely,

Robert M. Kosanke

Enclosures

COMPILERS' PREFACE

Volume 33 of the *Catalog of Fossil Spores and Pollen* treats the new taxa, emended specific and generic descriptions, new combinations and new names from seven publications on Cretaceous spores and pollen. The microfossils are from North and South America, Africa, and Europe.

It will be noted that we are continuing expanded coverage begun in Volume 32 by presenting emended specific and generic descriptions which appeared in the papers covered. In addition, in Volume 33 we also are treating new combinations and new names. Where this supplementary information was associated, when originally published, with a new species, the CFSP coverage is in the main body of the volume. Otherwise, it is given in the form of an appendix, at the end of the volume (see Table of Contents). Volume 33 covers 25 new genera, two new subgenera, 111 new species. Four emended generic descriptions are presented, of which two are in the appendix; the appendix also contains an emended description for one species. Sixteen new combinations, and four new names, are treated in the appendix.

The 25 new genera treated are:

✓ *Andreispori<sup>s</sup>~~tes~~* Belsky et al. 1965

*Classoidites* Ameron 1965

✓ *Complexi<sup>p</sup>ipollis* Krutzsch 1959

*Constantinispuris* Belsky et al. 1965

*Hungaropollis* Góczán 1964

*Latipollis* Krutzsch 1959

*Duplopollis* Krutzsch 1959

*Emscheripollis* Krutzsch 1959

*Favoispuris* Krutzsch 1959

*Heliosporites* Archangelsky & Gamberro 1966 [= *Antulsporites* Archangelsky & Gamberro 1966]

*Pflugipollis* Krutzsch 1959

*Psittacopollis* Ameron 1965

*Andreisporis*

*Complexiopollis*

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*The drawer  
seem to be  
right*

~~unheralded~~ editorial help <sup>of (Mrs.) Jane P Dolson</sup> on this and all of the other volumes of <sup>the Catalog.</sup> ~~(Mrs.)~~  
Jane P. Dolson.

A. Traverse  
H.T. Ames

Note:

move above to iii

~~iv~~

*Mediocolpopollis* Krutzsch 1959

*Laudaypollis* Góczán 1964

*Minorpollis* Krutzsch 1959

*Monstruosipollis* Krutzsch 1959

*Myrtacidites* Chitaley 1951 ex Belsky et al.

*Oligopollis* Krutzsch 1959

*Pediculisporis* Belsky et al. 1965

*Quedlinburgipollis* Krutzsch 1959

*Striatopollis* Krutzsch 1959

~~*Südmegipollis* Góczán 1964~~ / *Sümegeipollis*

*Tenerina* Krutzsch 1959

~~*Turonipollis* Krutzsch 1959~~

*Victorisporis* Belsky et al. 1965

NO ↑  
changed  
new look

The emended genera are:

*Januasporites* Pocock 1962 emend. Singh 1964

*Lygodioisporites* Potonié 1951 emend. Singh 1964

*Lygodiumsporites* Potonié et al. 1950 emend. Singh 1964

*Tricolpites* Cookson 1947 ex Couper 1953 emend. Belsky et al. 1965

It should be especially noted that two genera are covered which are apparently homonyms. *Heliosporites* Archangelsky & Gamero 1966 was recognized as a homonym of *Heliosporites* Schulz 1962 (see CFSP 29-135) soon after publication, and Archangelsky & Gamero proposed a new name for the taxon, *Antulsporites* Archangelsky & Gamero 1966. *Myrtacidites* Chitaley 1951 ex Belsky et al. 1965 would appear to be a homonym of *Myrtaceidites* Cookson & Pike 1954 emend. Potonié 1960, under provisions of Article 73 of the 1964 International Code of Botanical Nomenclature.

As always, we wish to express thanks to the authors of papers covered in this volume who assisted us by providing illustrations and additional information <sup>and</sup> ~~In addition to the members of the editorial committee, who are listed on a fly-leaf of the volume,~~ <sup>also</sup> we would like <sup>to</sup> acknowledge the

# CATALOG OF FOSSIL SPORES AND POLLEN

*Feb 5 am ka*

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



THE  
INTERNATIONAL COMPENDIUM  
OF  
PALYNOLOGICAL SYSTEMATICS

November 13, 1970

Dr. Robert Kosanke  
U.S.G.S.  
Paleontology & Stratigraphy Branch  
Federal Center  
Denver, Colorado 80225

Dear Bob:

In the attached package is your "proof" copy of Volume 33 of the Catalog of Fossil Spores and Pollen. Please return your review to me by 7 December, so that we can get the thing published before the first of the new year.

As I have previously explained, it is not necessary to return the volume to us. Just remove the pages on which you wish to make comments and return those, or (if the comments are relatively simple) merely mention the page number and line in your review.

You will note that this volume is some pages shorter than the last two volumes. The reason is that Volume 31-32 were nearly a hundred pages too long, which strains both the ring-binders and the CFSP budget.

Looking forward to receiving your review and with assurances of the great value of these reviews to our editorial process, I am

Yours very truly,

Alfred Traverse  
Editor

AT/vsi



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
FEDERAL CENTER, DENVER, COLORADO 80225  
Paleontology and Stratigraphy Branch  
Building 25

IN REPLY REFER TO:

G:P&S:RMK

June 26, 1969

Dr. Alfred Traverse  
Catalog of Fossil Spores and Pollen  
Deike Building  
Pennsylvania State University  
University Park, Pennsylvania 16802

Dear Al:

I have given some thought to members of the editorial committee of the Catalog since our discussion yesterday. I agree the choice is limited but will list three possibilities for the present. These are Evitt, Staplin, and Guannel. Beyond this, five or six additional names could be considered if it seemed desirable subsequently.

Sincerely,

Robert M. Kosanke



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
FEDERAL CENTER, DENVER, COLORADO 80225

IN REPLY REFER TO:

G:P&S:RMK

Paleontology and Stratigraphy Branch  
Building 25

July 21, 1970

Dr. Alfred Traverse  
Catalog of Fossil Spores and Pollen  
Deike Building  
Pennsylvania State University  
University Park, Pennsylvania 16802

Dear Al:

Sorry to learn of the problems in connection with printing of volume 32. I can report no blank pages in my copy other than those resulting from starting each new taxon on the right hand side of the catalog.

Sincerely,

Robert M. Kosanke

*P.S. Bernadine reports some missing pages in her copy of the Catalog. Presume she will write you.*

December 1, 1969

Dr. Robert M. Kosanke  
U.S.G.S.  
Paleontology & Stratigraphy Branch  
Federal Center  
Denver, Colorado 80225

Dear Bob:

I am not sure whether I have previously told you how grateful I am to you for your helpful corrections to Volume 32--even though it has meant a considerable delay in publication thereof. The flaws which you caught would have been quite embarrassing to us. I have decided to go with changing the Richardson date to 1965 not only in the places you suggest but everywhere I can find the incorrect date, and I am also rewriting the compiler's preface along the lines you suggest as far as the possible synonymy between Hystricosporites and Ancyrospora is concerned. I discussed the question of these two genera with McGregor a while back, and he feels that despite the emendation of Richardson, there is still some question about whether the two genera are not really part of the same complex. However, I am very glad to know about the emendation, and I have rewritten various things accordingly.

Ed Stanley wrote me a week or so ago that you are reconsidering your resolution to join the AASP. As I wrote him, I can't understand what the arguments are for staying out of something whose dues are only \$5 and which provides at least that much information for the palynological brotherhood during an average year.

Best wishes to you. As always

Yours very truly,

Alfred Traverse  
Associate Professor of Geology  
and Biology

AT:vsi



IN REPLY REFER TO:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
FEDERAL CENTER, DENVER, COLORADO 80225  
Paleontology and Stratigraphy Branch  
Building 25

G:P&S:RMK

September 18, 1969

Dr. Alfred Traverse, Editor  
Catalog of Fossil Spores and Pollen  
Deike Building, Pennsylvania State University  
University Park, Pennsylvania 16802

Dear Al:

I have a few additional comments to make about volume 32. Footnote 1 on page 165 is not clear. Why is L. magnifica f. endoformis technically excluded from L. magnifica? I doubt that the basis for this is that the size range is stated to be identical and there is a 5 micron difference. Concerning synonymy in footnotes on pages 158 and 186, please note emendation of Ancyrospora by Richardson (1962, Palaeontology, v. 5, pt. 2, p. 171-194). I am glad you have called attention to the problem of correct holotype slide numbers in footnotes to Richardson's paper. Footnote 1 on page 241 is correct in that Dictyotriletes insolitus McGregor, 1957 is not validly published.

print in  
on p. 158  
to footnote

yes -  
to treat  
as a type  
error?

Sincerely,

Robert M. Kosanke



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

G:P&amp;S:RMK

FEDERAL CENTER, DENVER, COLORADO 80225  
Paleontology and Stratigraphy Branch  
Building 25

September 12, 1969

Dr. Alfred Traverse, Editor  
Catalog of Fossil Spores and Pollen  
Deike Building, Pennsylvania State University  
University Park, Pennsylvania 16802

Dear Al:

I have started my review of volume 32 and encountered some problems that I thought I would transmit now rather than wait for the completed review.

Under Compilers' Preface, paragraph one, I have three suggestions as marked on the enclosed copy. The most significant of these is the accepted date of Richardson's paper. I believe the 1965 date to be correct inasmuch as the journal clearly gives the 1965 date on cover and McGregor (1966), Allen (1965), Street (1967), de Jersey (1966), and others all use the 1965 date. This means the 1964 date in the table of contents should be changed too. To change this date throughout the entire volume must present many problems. I would change the date in the table of contents, in the preface, and perhaps the references. Then I would write a short paragraph for the preface with an explanation why the 1964 date is used in the text between pages 202-235. Further suggestions are marked on the enclosed copy of the preface. The date for Hystrichosporites should be 1960 and not 1961.

I am apprehensive about part of paragraph one of iv that anticipates synonymy between Hystrichosporites and Ancyrospora. I agree these are two similar taxa and it is possible that some species may be improperly assigned. The fact that both genera are accepted by McGregor, Richardson, and others and that Ancyrospora (Richardson) Richardson, 1962 has a flange or pseudoflange while Hystrichosporites McGregor, 1960 has no flange are important considerations.

If I have further suggestions about volume 32 I will submit them prior to October 1.

Surely enjoyed visiting with you in Seattle and sorry our families did not get together. We did a fair amount of col-

lecting along the coast and had an excellent return trip  
arriving back the night of September 4.

Sincerely,



Robert M. Kosanke

Enclosure

Robert M. Kovanko

With best wishes,  
John Richardson

Reprinted from PALAEOLOGY Volume 7 Part 4

January 1965

Middle Old Red Sandstone spore  
assemblages from the Orcadian basin  
north-east Scotland

BY

J. B. RICHARDSON

PUBLISHED BY THE  
PALAEOLOGICAL ASSOCIATION  
LONDON

# MIDDLE OLD RED SANDSTONE SPORE ASSEMBLAGES FROM THE ORCADIAN BASIN NORTH-EAST SCOTLAND

by J. B. RICHARDSON

**ABSTRACT.** Spore assemblages have been found in a variety of Middle Old Red Sandstone deposits sampled from several areas in the Orcadian basin, ranging from the south side of the Moray Firth in the south to the Orkney Islands in the north. New taxa include Subturma *Pseudosaccitriteles* and four genera, *Acinosporites*, *Corystisporites*, *Dibolisporites*, and *Samarisporites*; eighteen species and two varieties are new, and in addition the genus *Retusotriteles* (Naumova) is emended and restricted to laevigate spores in which well-developed *curvaturae perfectae* are a constant character; many of the other species described are new combinations of Eisenack (1944), or of various species of Russian authors.

The vertical distribution of spore assemblages in the Orcadian area is described and several points of local correlation discussed. Detailed comparisons with Russian spore assemblages are made and a correlation between the north-west Russian and Orcadian sequences is suggested. Characteristic features of Devonian, especially Middle Devonian spore assemblages are discussed. Apart from the spores no other acid-resistant microfossils have been found except for fragments of plant and fish tissues; the possible significance of this is discussed below.

PLANT microfossils have been obtained from rocks of varied lithological type occurring in the Orcadian basin, north-east Scotland. The lithologies include black bituminous flagstones and subordinate arenaceous flags, siltstones, and shales of Caithness and Orkney. Similar dark bituminous flagstones occur also in the Nairn valley (south-east of Inverness) but, as in other outliers on the south side of the Moray Firth, the strata are more arenaceous, and sequences of sandstones, siltstones, grey-green clays, and nodule beds are more common; this is also true of the dominantly arenaceous sequences of the Black Isle (including the famous Cromarty nodule beds) and Edderton burn to the north of the Moray Firth. These rocks are often prolific of spore assemblages, especially the grey-green clays and siltstones. The microfloras are described and their stratigraphical distribution and relation to lithological type are discussed.

Inter-regional comparisons are made difficult by lack of a uniform classificatory system, nevertheless there are striking similarities especially between the intensively studied Devonian microfloral assemblages from parts of the U.S.S.R. and the Scottish material. Although the volume of literature on Devonian spores is rapidly increasing, comparisons with regions other than the U.S.S.R. are difficult because in many cases the exact stratigraphical horizon of the assemblages is not known. There is thus a need for studies of microfloral assemblages from successions which are well dated by other fossils; only when this is done will it be possible to assess the inter-regional distribution of Devonian microfloras and to realize fully their stratigraphical potential.

During studies of spore assemblages the only other microfossils found have been fragments of plant tissues and fish remains. No chitinozoa, acritarcha, hystrichosphaeridia, or chitinous linings of foraminifera have been found although over 400 slides have been carefully studied.

[Palaeontology, Vol. 7, Part 4, 1964, pp. 559-605, pls. 88-93.]

COMPILERS' PREFACE

Volume 32 of the *Catalog of Fossil Spores and Pollen* treats the new taxa from a group of fourteen publications on Devonian spores and pollen. The palynomorphs are from Australia, Belgium, Canada, Svalbard (Norway), United Kingdom (Scotland), and USA (Oklahoma). Twenty-<sup>four</sup> ~~five~~ new generic names are treated, as well as 146 new specific names and three new infra-specific names. Two new combinations are presented, and ~~one~~ <sup>three genera</sup> emended ~~genus~~ (Schopfites Kossanke 1950 emend. de Jersey 1966); <sup>g</sup> Archaeozonotriletes (Naumova) emend. Allen 1965; Petusotriletes (Naumova) emend. Richardson 1964 <sup>2</sup>) + Megaspores as well as miospores are included in this volume, in keeping with our policy of covering all palynological taxa not being handled by other catalogs.

The generic names dealt with for the first time are:

Acinosporites Richardson 1964 ✓ <sup>5</sup> ✓ <sup>1</sup>	Emphanisporites McGregor 1961 ✓ <sup>14</sup>
*Ancyrospora Richardson 1960 ✓ <sup>2</sup>	Enigmophytospora Vigran 1964 ✓ <sup>15</sup>
Aneurospora Streel 1964 ✓ <sup>3</sup>	Geminospora Balme 1962 ✓ <sup>16</sup>
Apiculiretusispora Streel 1964 ✓ <sup>4</sup>	Heterotriletes de Jersey 1966 ✓ <sup>17</sup>
Aulicosporites Allen 1965 ✓ <sup>5</sup>	Hystricosporites McGregor 1964 ✓ <sup>10</sup> ✓ <sup>18</sup>
Bullatisporites Allen 1965 ✓ <sup>6</sup>	Nikitinsporites Chaloner 1959 ✓ <sup>19</sup>
Chelinospora Allen 1965 ✓ <sup>7</sup>	Ocksisporites Chaloner 1959 ✓ <sup>20</sup>
Circumsporites McGregor 1960 ✓ <sup>8</sup>	Perforosporites Scott & Rouse 1961 ✓ <sup>21</sup>
Corystisporites Richardson 1964 ✓ <sup>5</sup> ✓ <sup>9</sup>	Quisquilites Wilson & Urban 1963 ✓ <sup>22</sup>
Cosmosporites Richardson 1960 ✓ <sup>10</sup>	Rhabdosporites Richardson 1960 ✓ <sup>23</sup>
Craspedispora Allen 1965 ✓ <sup>11</sup>	Samarisporites Richardson 1964 ✓ <sup>5</sup> ✓ <sup>24</sup>
Cymbosporites Allen 1965 ✓ <sup>12</sup>	Schopfites de Jersey 1966 ✓ <sup>?</sup>
Dibolisporites Richardson 1964 ✓ <sup>5</sup> ✓ <sup>13</sup>	

Retusotriletes (Naumova) Streel 1964

\* emended by Richardson (1962, p. 175)

1/ not correct - Schopfites in 5-100 & 5-101

2/ Sorry but I believe 1965 date is correct. See attached copy of Richardson now uses 1965 date.

We have put the papers by McGregor, 1960, and Richardson, 1960, together in this volume primarily because they originally appeared in the same number of *Palaeontology* and because of the peculiar circumstances surrounding two prominent generic names published at that time. *Hystrichosporites* McGregor 1960 (CFSP 32-156) and *Ancyrospora* Richardson 1960 (CFSP 32-184) are either synonymous, or at least overlap to a considerable extent, as was recognized by the editors of *Palaeontology* at the time of publication. The question of priority and the status of the generic names are rather perplexing and are as yet unresolved.

We began in Volume 31 to paginate consecutively--that is, to provide each page of the *Catalog* with its own number. Previously, all pages dealing with one taxonomic unit carried the same number, whether there was only one page or as many as four pages. It seems much more desirable for each individual page to have a distinctive, unique number, for ease of reference.

We would like to thank the authors of papers covered for their generous cooperation and help in the preparation of this volume.

A. Traverse  
H. T. Ames

August 11, 1969

Dr. Robert Kosanke  
U.S.G.S.  
Paleontology & Stratigraphy Branch  
Federal Center  
Denver, Colorado 80225

Dear Bob:

Under separate cover we have sent you the customary proof copy of Volume 32 of the Catalog. I hope that you will give it a careful critical reading and let us have your comments not later than 1 October. As before, note that it is not necessary to return the proof copy. Either put comments on separate sheets of paper, noting pages and lines, or rip out the appropriate pages, red-pencil your comments and return the pages to us.

We greatly appreciate your cooperation in helping us in this tangible way.

Best wishes as ever. Perhaps I will see you in Seattle before you get this.

Yours very truly,

Alfred Travesse  
Editor  
Catalog of Fossil Spores and Pollen

AT:kwc



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
FEDERAL CENTER, DENVER, COLORADO 80225  
Paleontology and Stratigraphy Branch  
Building 25

*own file*  
IN REPLY REFER TO:

G:P&S:RMK

June 23, 1969

Dr. Alfred Traverse, Editor  
Catalog of Fossil Spores and Pollen  
Deike Building  
Pennsylvania State University  
University Park, Pennsylvania 16802

Dear Al:

I appreciate the copy of your letter to Cross (6/9/69) and your letter of June 13. If you still have the gentleman under consideration for the editorial committee (your letter of 6/9/69) I am not certain you would be resolving your current problem. Regardless of your final decision I believe it is necessary that you have reasonable assurances that the new member will be free to review each volume promptly so as to be of value to you.

I assume you have received Monograph Number II from the University of Oklahoma on Gipsy. Jim Mello will be in this Friday for a discussion related to the use of Gipsy and our participation in the system.

I was aware that the Playford's were in Canada currently by way of a letter from Geoffrey but did not know they would be there until October. Jardine hopes to spend some time here this fall.

Sincerely,

Robert M. Kosanke

bcc Dr. Robert C. Sanders

June 13, 1969

Dr. Robert Kosanke  
U.S.G.S.  
Paleontology & Stratigraphy Branch  
Federal Center  
Denver, Colorado 80225

Dear Bob:

Thanks for yours of 13 May, regarding Volume 31 of the Catalog. I really do appreciate your taking time to look at the volumes as they appear. We are not getting much help from some of the editors, and I am thinking of replacing the people from whom we never hear.

In view of your comments, I have changed the compilers' preface a bit to try to soften the statements about de Jersey's name. As long as he uses lower case "d" I don't think that he can expect alphabetization as "D".

Regarding the plate numbers--my decision was to present the plate number on the format only when more than one plate is involved. There is no confusion when figures from only one plate are presented. The plate numbers are given in the bibliographic line of our presentation.

It was good to hear your reactions to Norman. Since you and Aureal both were connected with LR in the distant past, I wondered how you would respond to the obvious power play that was in the process of engineering. Sanders is doing an excellent job here with our project in the area of information processing. He is young and dynamic, and I only hope will push through with his ideas and make himself the leader in what will be one of the most important areas of all of micropaleontology.

Fidelity Onion Skin  
100% Cotton

Dr. Kosanke  
June 13, 1969  
Page 2

Thanks again. Tell Avalon that I am finally raising some irises, now that I am a northern homeowner for the first time.

Just heard that Geoffrey Playford, Mary Dettmann, and S. Jardine will attend the AASB Convention in October. That should add greatly to the luster of your audience. It ought to be a good meeting.

Yours as ever,

Alfred Traverse  
Editor  
Catalog of Fossil Spores and Pollen



IN REPLY REFER TO:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
FEDERAL CENTER, DENVER, COLORADO 80225  
Paleontology and Stratigraphy Branch  
Building 25

G:P&S:RMK

May 13, 1969

Dr. Alfred Traverse, Editor  
Catalog of Fossil Spores and Pollen  
Deike Building  
Pennsylvania State University  
University Park, Pennsylvania 16802

Dear Al:

The 31st volume of the Catalog looks to be in good shape. The papers by Samoilovitch, de Jersey, Klaus and Pocock were reviewed with most care because I have these papers in my own reprint files.

I thought you disposed of the de Jersey spelling in a rather terse manner in the Preface. I have always filed his reprints under "J" but inasmuch as de Jersey desires his name alphabetized under "d", and he has consistently followed this practice in his own references, I will follow suit. I must admit it would be easier if the letter "d" were capitalized.

You are to be commended for calling attention to a number of inconsistencies in the Pocock paper. This is a very useful service the Catalog can perform. In 31-149 and 31-150 more than a single specimen of presumably the holotype is illustrated. I cannot be certain from the proof illustrations whether or not these are one and the same specimen. In the index Regina is listed for page 10. Is this in the Russian description or is this page 110? In the first 27 pages (Samoilovitch) the plate number is often given with the figure caption but for the following it is not: 1, 2, 3, 5, 23, 24 and 27.

It certainly was a pleasure to meet with you at Norman last March. After the evening meeting I had a discussion with Wilson and subsequently transmitted my thoughts to Jim Mello. I gathered from Jim that you felt the same way about the matter. Cross was through here several weeks ago on his return trip from Baja and expressed himself rather firmly on the matter.

Please give my best wishes to all.

Sincerely,

Robert M. Kosanke

Fidelity Onion Skin  
100% COTTON

April 21, 1969

Dr. Robert Kosanke  
U.S.G.S.  
Paleontology & Stratigraphy Branch  
Federal Center  
Denver, Colorado 80225

Dear Bob:

Under separate cover we are sending you the customary proof copy of Vol. 31 of the Catalog for your perusal. Following the procedure established a couple of volumes ago, it will not be necessary for you to return this copy to us. If you like, you may tear the sheets out on which you wish to make red-pencil marks and send those sheets to us. Naturally, we would also appreciate any general comments you may have, but I usually regard such comments more for our edification with respect to future volumes than with regard to corrections of the volume you are reviewing. The reason is that changes which involve alteration of page assignments get us into difficulty as far as the indexing, footnoting, and so forth are concerned. Perhaps we should consider including you in the earlier stage of volume preparation, when page numbers are first assigned.

If at all possible, we would like to have your comments on mistakes on Vol. 31 before 1 June, so that we can proceed with publication. Thank you very much for your continued cooperation. Best wishes.

Yours very truly,

Alfred Traverse  
Editor  
Catalog of Fossil Spores and Pollen

AT:kwc



UNITED STATES  
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FEDERAL CENTER, DENVER, COLORADO 80225  
Paleontology and Stratigraphy Branch  
Building 25

IN REPLY REFER TO:

G:P&S:RMK

October 30, 1968

Dr. Al Traverse  
Department of Geology  
Deike Building  
Pennsylvania State University  
University Park, Pennsylvania 16802

Dear Al:

I have reviewed volume 30 of the catalog and have only a few comments to make.

- 1) 30-4 - an error in original Russian text, page 70 in figure captions should read 78.
- 2) 30-15 - footnote 2 - I think it could be identical, but I am not certain from the photomicrograph.
- 3) 30-30 - plate 14 should read 15 on 2 pages. This brings to mind that plate numbers are given for most of the taxa along with the figure numbers. In part, plate numbers are given when reference is made to more than one plate, but this is not totally consistent.

I am enclosing copies of the proof pages with corrections marked in red.

I believe the memorial to Malyavkina is very nicely done Al. Best wishes to all.

Sincerely,

Robert M. Kosanke ✓

Enclosures



IN REPLY REFER TO:

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DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
FEDERAL CENTER, DENVER, COLORADO 80225  
Paleontology and Stratigraphy Branch  
Building 25

G:P&S:RMK

October 1, 1968

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

Dear Al:

Your review of the Rouse, Hopkins and Piel manuscript is greatly appreciated. I will contact Glenn Rouse and pass on your suggestions.

I used a Polaroid MP-3 camera and 55 P/N positive-negative film to photograph the plates. The copies you had were the positive copies from this process. The negatives produce far better prints, but in this case the positive copies turned out pretty well.

Both Dick and I are pleased to know your experience on the way from the airport turned out ok.

Sincerely,

Robert M. Kosanke

September 23, 1968

Dr. Robert M. Kosanke  
U.S.G.S.  
Paleontology & Stratigraphy Branch  
Federal Center  
Denver, Colorado 80225

Dear Bob:

I have reviewed the paper by Rouse et al. pretty carefully, though what follows may make you wonder. This is the first time I have reviewed a paper for a symposium volume. I would suppose that, since the paper was in fact invited and in fact presented, that the reviewer's job is simply to look for gremlins that could still be ironed out, instead of to suggest anything very major.

Really, this paper seems to be in pretty darned good shape. I have relatively little criticism to offer:

1. Column two of Table 1 is headed "Coast", and I can make no sense of that. I believe some more clearly explanatory heading is demanded.

2. Probably am letting my prejudices show, but I think a separate table should be provided, showing the lithology of the samples treated. The reason is that unless all doubt is removed, there is always a possibility lurking in the mind that the neat differences observed between the areas studied is lithologic-environmental and not ecologic-environmental. It seems to me that that possibility has to be dealt with. (If one set is mostly coal and the other mostly shale, the authors are in trouble!)

3. p. 11--1. 9: "The single species of Aquilapollenites is also new." Here is a non sequitur. The preceding sentences do not show anything "new". Do the authors mean "also not known to range into the Cretaceous"? If they really meant new, one would expect a description, or reference to one being published elsewhere. I am pretty sure that they mean an extension of range, but it is not clearly expressed.

Abstract, L. 6: "similarly" aged should be changed to "from beds of similar age"

Plates: I really think that the exact provenance should be listed for each illustrated specimen. This is a little more work, but makes the paper much more valuable.

On the whole, the paper is in good condition for publication, but I would appreciate your calling these few points to the authors' attention. I feel pretty strongly about the lithology for the samples and the provenance of the illustrated specimens.

Now, Bob, to switch gears--how did you make those dandy Polaroid copies of the plates?

Tell Dick Scott that a drunk ran into me on the way from the airport back to the Bot Soc dinner after I left him. I didn't have to pay for the damage personally, thank goodness! I was stopped dead at a red light. Couldn't believe my eyes and ears.

Best wishes.

Yours very truly,

Alfred Traverse  
Associate Professor of Geology

AT:kwc

Enclosure: paper being returned from review



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
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FEDERAL CENTER, DENVER, COLORADO 80225  
**Paleontology and Stratigraphy Branch  
Building 25**

IN REPLY REFER TO:

**G:P&S:RMK**

**August 23, 1968**

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

**Dear Al:**

Your offer to review the paper by Rouse, Hopkins and Piel is greatly appreciated. I am enclosing a Xerox copy of the paper and Polaroid photographs of the plates. Mark directly on the Xerox copy if you wish. The Polaroid copies of the plates are shown at approximately  $\frac{1}{2}$  publication size. Best wishes to all.

**Sincerely,**

**Robert M. Kosanke**

**Enclosure**

August 21, 1968

Dr. Robert Kosanke  
U.S.G.S.  
Paleontology & Stratigraphy Branch  
Federal Center  
Denver, Colorado 80225

Dear Bob:

Wow!--I am getting to the point where it takes me three weeks to answer a letter. Regarding yours of 1 August--I will be very glad to review the paper by Rouse et. al. It should be educational. Sorry I have been so long in responding. Best wishes as always.

Yours very truly,



Alfred Traverse  
Associate Professor of Geology

AT:kwc



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FEDERAL CENTER, DENVER, COLORADO 80225  
Paleontology and Stratigraphy Branch  
Building 25

G:P&S:RMK

August 1, 1968

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

Dear Al:

As you perhaps know, Cross and I are working on the 1966 San Francisco palynological symposium papers getting them ready to submit to the GSA for publication as a Special Paper. I am looking for someone to review the following paper: Palynology of some Late Cretaceous and Early Tertiary deposits in British Columbia and adjacent Alberta by Glenn E. Rouse, W. S. Hopkins, Jr. and K. M. Piel. There are 14 text-pages, 3 pages of references, 1 text-figure, 2 tables, and 9 plates. If you can review this paper for me I would greatly appreciate it.

Sincerely,

Robert M. Kosanke

June 14, 1968

Dr. Robert Kosanke  
U.S.G.S.  
Paleontology & Stratigraphy Branch  
Federal Center  
Denver, Colorado 80225

Dear Bob:


Thanks for the review of Vol. 29. By the way, it would be o.k. in the future to rip out the pages on which you have pencilled comments (preferably in red) and send only those pp. back. We don't retain the "proof copies" anyway.

Reaction to the stiff covers, such as yours, are appreciated, in order to be sure that the extra expense is worth it. The new covers are absolutely indestructible except by fire or other form of heat (try tearing one!). You were right about the slip in the Preface about the cover--I have corrected same.

Your comment re the homonymic situations is good--but we have stated the facts of the case correctly (albeit perhaps not going quite far enough) and I think can get away without a redo. Will watch it in the future. JMS and GOWK both picked up the fact that we had a journal name wrong that occurs on 98 pp. of this volume, so we have enough pages to re-photograph! I am steadily working toward the day when we will have the proof copies out in time so that corrections will be made before photography. At least they now come in before printing!

We appreciate your cooperation. Best wishes.

Yours very truly,

  
Alfred Traverse  
Editor  
Catalog of Fossil Spores and Pollen

AT:kwc

cc: W. Spackman, H.T. Ames

5/29/68

Dr. Alfred Traverse  
Catalog of Fossil Spores and Pollen  
Deike Building  
Pennsylvania State University  
University Park, Pennsylvania 16802

Dear Al:

Since receiving the proof copy of volume 29 and I have <sup>been</sup> out of the office from time to time. I have spent the better part of today on volume 29. It looks good Al.

The following points are minor:

iii Para. 2, Sent. 1

The new stiff covers started with volume 28 not 29?

29-73 - footnote 1

Attention is called to the fact that two different species have the same name. Only one of these can be valid, the species with priority. H., S. and M. (May, 1955) has priority over Leschik (1955 but actual valid date according to publisher is Feb., 1956) so that Leschik species is a homonym. A similar type of footnote is on page 39.

*Good point  
but requires  
no change*

Congratulations on:

I think the new hard covers are excellent and the color difference is not important.

Index is improved by not duplicating generic name each time.

I will send the proof copy from the office on Friday and mail this letter on the way home tonight.

Sincerely,

*Bob*

Robert M. Kosanke



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
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FEDERAL CENTER, DENVER, COLORADO 80225  
Paleontology and Stratigraphy Branch  
Building 25

IN REPLY REFER TO:

G:P&S:RMK

May 13, 1968

Dr. Alfred Traverse  
Catalog of Fossil Spores and Pollen  
Deike Building  
Pennsylvania State University  
University Park, Pennsylvania 16802

Dear Al:

The copy of volume 29 of the Catalog has been received. I should be able to have my review in your hands by about June 1.

Sincerely,

Robert M. Kosanke


May 6, 1968

Dr. Robert M. Kosanke  
U.S.G.S.  
Federal Center  
Denver, Colorado 80225

Dear Bob:

In the attached box we are sending to you a copy of Vol. 29 for review--I hope that you can return the review to us before 3 June because for financial reasons we need to have this volume printed in mid-June. Thank you for your continuing help.

Yours very truly,

  
Alfred Traverse  
Editor  
Catalog of Fossil Spores and Pollen

AT:kwc

Attachment: Vol. 29

February 15, 1968'

Dr. Robert M. Kosanke  
U.S.G.S.  
Paleontology & Stratigraphy Branch  
Federal Center  
Denver, Colorado 80225

Dear Bob:

Thanks very much for the very interesting review of 28. All of the comments are useful to us in one way or another. The transfers will be made a part of Tate's file for the "taxonomic index cards", which we still intend to publish.

The species that are the types for certain genera will be so noted, as is our usual policy. Tate says he apparently "blew" those that you caught. We are most grateful to you.

The news about Stanley's specimens is interesting, but I think we'll let it ride. It would probably sound like a dig (and there are enough already in 28) to comment that the slides never made it to USNM.

Malyavkina spells it *Aneimia* (neither *Anemia* or *Aneima*)--at least in the 1958 book.

I don't think I quite understand what you mean when you say that "infraspecific taxa cannot be excluded from the specific circumscription". Malyavkina in fact did set up descriptions for her species which excluded some of the infraspecific units! I agree that she could not legally do it, but she did. In order to make it clearer what I mean, I rewrote: ...specific descriptions which apparently exclude the infraspecific.... I hope that takes care of it. I got the impression that you meant that the circumscription is governed in part by the features of the infraspecific units--not by the specific description alone. Hence, I thought the change to "description" would take care of your objection.

Once again, thanks for your help. Nowoon to 29!

Yours very truly,

Alfred Traverse  
Editor, *Catalog of Fossil Spores and Pollen*



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Paleontology and Stratigraphy Branch  
Building 25

G:P&S:RMK

February 8, 1968

Dr. Alfred Traverse, Editor  
Catalog of Fossil Spores and Pollen  
Deike Building  
Pennsylvania State University  
University Park, Pennsylvania 16802

Dear Al:

I have completed my review of Volume 28. The enclosed comments are mostly notes taken while reviewing the volume that might be of interest and not necessarily required changes. I believe your new review policy is excellent.

I am returning the proof copy of Volume 28 under separate cover.

Sincerely,

Robert M. Kosanke

Enclosure

Compilers' Preface ii

*wait in future*

(Para 1, line 2 - microspores - Same comment as my letter of Dec. 5, 1967.

Compilers' Preface iii

Para 1, last half of paragraph - Malyavkina's work does present problems as you have indicated. I believe consideration might be given to clarification of this part of the paragraph. Infra-specific taxa cannot be excluded from the specific circumscription. // You are correct that infraspecific epithets such as typicus, originalis, etc. purporting to indicate the taxon containing the nomenclatural type of the next higher taxon are illegitimate unless they repeat the specific epithet. The specific epithet may be taken from any source although commonly it is a descriptive adjective, name of a person, or name of a place.

*but she did*

Pages	28-6	<u>Triletes diktyotus</u>	28-22	<u>T. hexapartitus</u>
	28-8	<u>T. lobatus</u>	28-25	<u>T. medusus</u>
	28-12	<u>T. pupus</u>	28-30	<u>T. pyriformis</u>
	28-16	<u>T. argus</u>		

*for HTM for Tax. July*

These were transferred to Arcellites by Potter (1963), Oklahoma Geology Notes, v. 23, n. 9, p. 227-230. Potter spelled diktyotus dikyotus as pointed out by Ellis and Tschudy (1964), Micropaleontology, v. 10, n. 1, p. 73-79. Ellis and Tschudy (1964) transferred A. diktyotus, A. argus, and A. pupus back to Triletes

From Potonie (1956) Synopsis Part I:

*do as suggested?*

- 28-23 Triletes lanatus to Echitriletes lanatus (Dijkstra) Potonie, 1956 (type of genus, p. 36)
- 28-32 T. samarus to Membranisporites samarus (Dijkstra) Delcourt & Sprumont, 1955 (Potonie, p. 74)
- 28-21 T. helios to Dijkstraisporites helios (Dijkstra) Potonie, 1956 (type of genus, p. 74)
- 28-17 T. decorus to Dijkstraisporites decorus (Dijkstra) Potonie, 1956 (p. 74)
- 28-13 T. tenellus to Tenellisporites tenellus (Dijkstra) Potonie, 1956 (type of genus, p. 74)
- 28-2 T. aachenensis to Tenellisporites aachenensis (Dijkstra) Potonie, 1956 (p. 74).
- 28-11 T. pubescens to Tenellisporites pubescens (Dijkstra) Potonie, 1956 (p. 75)

Pages

- 28-19 T. divisus to Thomsonia divisa (Dijkstra) MÅlder, 1954 (p. 72)
- 28-26 T. midas to Thomsonia midas (Dijkstra) MÅlder, 1954 (p. 72)
- 28-28 T. pseudotenellus to Thomsonia pseudotenella (Dijkstra) MÅlder, 1954 (p. 72)
- 28-30 T. galericulatus to Hughesisporites galericulatus (Dijkstra) Potonie, 1956 (type of genus, p. 71) ✓
- 28-24 T. marginatus to Minerisporites marginatus (Dijkstra) Potonie, 1956 (p. 68)
- 28-34 T. spurius to Trileites spurius (Dijkstra) Potonie, 1956 (type of genus, p. 25) ✓
- 28-18 T. discoides to Trileites discoides (Dijkstra) Potonie, 1956 (p. 23)
- 28-35 T. subdeltoides to Trileites subdeltoides (Dijkstra) Potonie, 1956 (p. 25)
- 28-15 T. affinis to Henrisporites affinis (Dijkstra) Potonie, 1956 (type of genus, p. 68) ✓
- 28-37 T. undulatus to Henrisporites undulatus (Dijkstra) Potonie, 1956 (p. 68)
- 28-36 T. sulcatus to Striatriletes sulcatus (Dijkstra) Potonie, 1956 (type of genus, p. 42) ✓
- 28-12 T. pupus to Glomerisporites pupus (Dijkstra) Potonie, 1956 (type of genus, p. 51) ✓
- 28-4 T. compositi-punctatus to Verrutrilletes compositipunctatus (Dijkstra) Potonie, 1956 (type of genus, p. 28) ✓
- 28-3 T. carbunculus to Verrutrilletes carbunculus (Dijkstra) Potonie, 1956 (p. 28)
- 28-7 T. dubius to Verrutrilletes dubius (Dijkstra) Potonie, 1956 (p. 29)

Note: 28-24 Trileites (Erdtmann 1945, 1947) ex Potonie

28-36 Striatriletes (van der Hammen, 1954) ex Potonie

28-4 Verrutrilletes (van der Hammen, 1954) ex Potonie

28-23 Echitrilletes (van der Hammen, 1954) ex Potonie

I do not have a copy of Malyavkina's (1958) publication. I checked figure numbers and the like and noted your numerous comments on the nomenclature. This really must have been a tough paper to handle. I recently obtained the three volume atlas on Paleopalynology edited by I. M. Pokrovskaya. Malyavkina's work does not receive much consideration. When it does, it is roughly treated, for example:

28-102 Lygodium ciliatum var. mongolicum is transferred to L. echinaceum Verbizkaja and 28-58 Aneimia cardioliformis is transferred to Anemia tricostata. Al, note the spelling of the genus as Anemia not Aneima. *and in Med.*

*info for HTA*  
28-148 through 28-152 All of these species have been transferred from Triletes to five different genera. None are types of the respective genera.

*just to know*  
28-153 through 28-159 Ed Stanley assigned U.S.N.M. numbers in 1961a to his species of Aquilapollenites and Wodehouseia. I do not know whether they actually have been deposited in the museum. About two years ago Estella contacted the museum for a loan of the Aquilapollenites types and established that Ed had never turned the types over to the museum. Ed sent her the slides and Estella returned them to Ed.

*info for HTA*  
28-39 through 28-51 All 13 species assigned to Triletes by Harris have been transferred to 9 different genera (See Potonie, 1956, Pt. 1), but none serve as the type of a genus.



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Building 25

G:P&S:RMK

January 29, 1968

Dr. Alfred Traverse, Editor  
Catalog of Fossil Spores and Pollen  
Deike Building  
Pennsylvania State University  
University Park, Pennsylvania 16802

Dear Al:

Volume 28 was received this morning along with your letter of transmittal. Your new method for review of the volumes should work out very well. I am rather rushed at the present, but will have my review in your hands in a couple of weeks.

Sincerely,

Robert M. Kosanke

January 23, 1968

Dr. Robert Kosanke  
U.S.G.S.  
Paleontology & Stratigraphy Branch  
Federal Center  
Denver, Colorado 80225


Dear Bob:

At long last the copies of vol. 28 of the Catalog for review are submitted to you in the attached package. We are hoping to send the formats off for printing in about three weeks, so we would appreciate if if you would review the volumes as quickly as possible and let us know what is the matter before the formats are shipped off. That way we can make the required changes here without reprinting being involved.

I am still not satisfied with this operation regarding the review, but I think we are improving. I would like you to have the review copies at least six weeks before the formats are sent to the printer so that we wouldn't have to press you so much, and I have some cheerfulness about the prospect that we can do just that for volume 29, which is being proofread and corrected at this time.

Best wishes as ever.

Yours very truly,

  
Alfred Traverse  
Editor  
Catalog of Fossil Spores and Pollen

AT:kwc

December 27, 1967

Dr. Robert M. Kosanke  
Paleontology and Stratigraphy Branch, U.S.G.S.  
Building 25  
Federal Center  
Denver, Colorado 80225

Dear Bob:

Your fine, helpful letters of 5 and 7 December convince me more than ever that I am making the right move in going to the plan of sending each of you a proof copy of the volumes for editorial comment instead of the present plan. Nearly all of your comments would have improved this volume, but it must be obvious to you that we can do nothing about them without reprinting, and I resolved to resist that unless there happened to be some utter disaster discovered by one of you. In the future, I hope that you will be even more critical because we will be in a position to make changes fairly readily.

I am still tentatively planning a "newsletter of CFSP", and will put some of your comments on the agenda of things to be discussed therein.

We use the term microspores in the old-fashioned sense of "not megaspore". I am aware that this is botanically inexact, but I am wondering if "miospore" is a word we want to use on our title pages.

Your letter of the 7th does raise a few questions on which I would like to comment, in addition to the comments that we agree are completely right, as noted above:

1. We gave the figure 13 for the number of papers involved because one of the 14 papers in the table of contents is an emendation of another, containing no new taxa.

2. As far as I understand the Code, designation of a type was not required when Arnold published his paper. See Art. 37 of the present Code. Therefore, the validity of his publication is not affected by failure to designate types.

3. We note with considerable interest the fact that you got two pp. 43! Typical of the sort of snafu with this volume. You should have seen the things when we first got them from the printers in September! An extra page doesn't bother us too much, but we are concerned that there may have also been missing pages in your copy. For example, in your comment on 27-53, you say that Pl. 2, fig. 25, and figs. 26-29, for Triletes grandiosus, are not illustrated. But they are, on the first of the ~~two~~-sheet coverage. Let us know if you are missing this page. (Could it be out of order?)

4. Russ Peppers apparently didn't know about the Schopf slides being in a type collection. Too bad Tate didn't write to you about it too.

5. It has usually been our policy not necessarily to include papers in the bibliography which are covered in the volume in question, on the grounds that the bibliographic citation is given on the papers, usually many times, and the papers are also listed in the Table of Contents. However, I feel that we have been in error on this and should in the future include everything in the bibliography. Thanks for the suggestion.

As I have said, I think everything will go much more smoothly with this sort of thing under the new arrangement. Just as one example, it is really too bad that the data you provide re new combinations could not have been footnoted in this volume. In the future, we shall be able to include all that sort of thing which you can provide.

Happy holidays to all of you.

Yours very truly,

Alfred Traverse  
Editor  
Catalog of Fossil Spores and Pollen

AT:kwc



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G:P&amp;S:RMK

December 7, 1967

Dr. Alfred Traverse  
Catalog of Fossil Spores and Pollen  
Deike Building  
Pennsylvania State University  
University Park, Pennsylvania 16802

Dear Al:

I have reviewed volume 27 and have a few comments you may wish to consider.

Compilers' Preface iii, paragraph 1, line 2 *one is a 10 to*

The table of contents lists 14 papers as contrasted to 13 in this paragraph and in lines 3 and 4 the Netherlands should be added. See page 10 of this volume. *right*

Compilers' Preface iii, paragraph 3, sentence 2

This sentence is correct, but the same applies to spores from homosporous plants.

Compilers' Preface iv and v, last sentence

Probably the best source of additional data on Elizabeth Knox's material would come from Mavis Butterworth and Harold Smith. As a matter of fact, Mavis and Harold worked rather closely with Dr. Knox in the early 1960's and have since selected a number of neotypes and type localities. *for Nomenclature?*

Pages 1-6 comment

It is possible that some of Chester Arnold's taxa are validly published for the first time with volume 27 with the designation of type specimens. However, the type of Lagenicula saccata, Triletes ramosus, T. subbrasserti and possibly T. globosus are in doubt because a single specimen does not appear to be designated. *wasn't required?*

Page 43

A double set of page 43 was included in my copy. *short?*

Dr. Alfred Traverse

December 7, 1967

Page 50

Species name at top of page is correct. Name used for Figs. 236, 239 is Triletes brasserti taken from D. and P. (1957) and does not conform to that used at top of page. A footnote should have been used to clarify this.

*Newskletter*  
*you're right*

Page 53

Holotype of Triletes grandiosus is given as Pl. 2, fig. 25. So far as I can see, the holotype is not illustrated in my copy. Dijkstra on page 8 cites T. grandiosus D & P spec. nov., Pl. 2, figs. 25-29; 15, figs. 192-197. You have reproduced figs. 192-197, but not those on Pl. 2 including fig. 25, the holotype. At least fig. 25 should be illustrated even though 26-29 are not reproduced.

*wrong*  
*did he not get 27-53?*

Page 71

Triletes subsimplex is fouled up in the original publication with Lagenicula simplex var. levis Zerndt reported to be identical with T. subsimplex on page 16 of D & P. I hope the readers of the Catalog can follow this from your footnote 1.

*sorry*

Pages 88-111

This portion is bothersome because throughout the type locality, type horizon, holotype, et al are indicated as not designated. This is true for the original work but subsequent workers such as Smith, Butterworth, and others have set up neotypes, type localities, etc. For example, page 88 -- Cirratriradites aligerens Knox, 1950 is now the type of Radiizonates (Knox) Staplin and Jansonius, 1964. Page 89 -- Cirratriradites carnosus Knox, 1950 is now Reticulatisporites carnosus (Knox) Neves, 1964. Much of this can be picked up from Smith and Butterworth (1967) Miospores in the coal seams of the Carboniferous of Great Britain, Special paper No. 1, Palaeontological Association, London.

*sorry*

I am certain that Jim Schopf will carefully examine the pages he is responsible for. I know for a fact that some years before leaving Illinois, I located all of Jim's type slides and they are housed in a type slide collection now.

References

I think that Dijkstra and van Vierssen Trip (1946) should appear here.

*will change i vol. 29*

Page 136 - Nowar, J., and J. Zerndt should be Nowak.

Sincerely,

*Bob*

Robert M. Kosanke



IN REPLY REFER TO:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
FEDERAL CENTER, DENVER, COLORADO 80225  
Paleontology and Stratigraphy Branch  
Building 25

G:P&S:RMK

December 5, 1967

Dr. Alfred Traverse  
Catalog of Fossil Spores and Pollen  
Deike Building  
Pennsylvania State University  
University Park, Pennsylvania 16802

Dear Al:

Volume 27 was received today. I have all of the papers treated in this volume in my reprint collection which should speed up my review. I notice that the title for volume 27 is Carboniferous Megaspores and Microspores. You may want to change the term microspores to miospores or small spores. Surely a number of the spores treated between 27-75 and 27-111 were not derived from heterosporous plants. I suspect you have already heard from Jim on this.

It was nice to talk to you at the meetings and I thought your paper on the diagenesis of jet was excellent.

Sincerely,

*Bob*

Robert M. Kosanke

Dr. Robert M. Kosanke  
United States Geological Survey  
Federal Center  
Denver, Colorado 80225

Dear Bob:

Under separate cover we have sent you your review copy of Volume 27 of the *Catalog of Fossil Spores and Pollen*, which has finally cleared the printing process (for the second time!).

We would appreciate having your comments on those changes that absolutely must be made (we sincerely hope there are none) within the next two weeks.

As you know, in the future we will be sending you a photocopy of each volume well before publication. This should, beginning with Volume 28, obviate the necessity of this final review after the volumes are already in the final, printed form.

Thank you for your continuing help.

Yours very truly,

Alfred Traverse  
Editor  
*Catalog of Fossil Spores and Pollen*

AT:kwc

October 30, 1967

Dr. Robert M. Kosanke  
United States Geological Survey  
Federal Center  
Denver, Colorado 80202

Dear Bob:

Under separate cover you will receive a form letter announcing the dissolution of the former Advisory Committee of the Catalog of Fossil Spores and Pollen.

The purpose of this additional letter is to say that I propose formation of a new "Editorial Board", of which I very much want you to be a member. The effect of this move, as you can probably see, is to produce an editorial group that actually functions in that capacity. In effect, this means that your status is the same as before, except that I intend to operate a little differently: when each volume is in the "page-proof" state (we call the pages formats at this point), we will make a photocopy and send one each to Cross, Kosanke, Kremp, and Schopf. We tried this experimentally with several of you for Volume 27, and it was much more helpful than the former custom of sending a copy of the completed volume after printing. Corrections received at that point are really "bad news", while those received from the page-proofs can easily be inserted before printing.

Presuming that you are willing to be a member of the "Editorial Board" (I will assume so unless I hear differently), you will of course receive a complimentary copy of each volume of the Catalog, in recognition of your labor in going through the page-proof copy.

Your copy of Volume 27 goes forward to you soon under separate cover. Naturally, if you see anything that is amiss with it, we

Dr. Kosanke

- 2 -

October 30, 1967

would appreciate hearing about it promptly--before the volume is shipped out to the subscribers!

Yours very truly,

Alfred Traverse  
Editor  
Catalog of Fossil Spores and Pollen

AT:kwc

cc: H.T. Ames, W. Spackman, G.O.W. Kremp

PS: Flash--bad news--we have just discovered that the printing job on Volume 27 is a catastrophe--it will all have to be redone--so there will be a further delay before you receive it.

October 30, 1967

To: Drs. Barghoorn, Cross, Grayson, Guannel, Hoffmeister,  
Kosanke, Loeblich, Schopf, Stover, Wilson

Dr. Robert M. Kosanke  
United States Geological Survey  
Federal Center  
Denver, Colorado 80202

Dear Bob:

Beginning with Volume 28, we are planning to discontinue the Advisory Committee of the Catalog of Fossil Spores and Pollen. The Advisory Committee has served the Catalog faithfully and well, and those of us on the regular staff of the Catalog wish to express our thanks to all of you for a job well done. "CFSP" is now established on a fairly firm, permanent footing at Penn State, and we feel that it is no longer necessary to bother so many people with the various problems connected with publication of the Catalog. We hope that we can still continue to call on you less formally when advice is necessary.

Hoping to see each of you in person before long, I am

Yours very truly,

Alfred Traverse  
Editor  
Catalog of Fossil Spores and Pollen

AT:kwc

May 31, 1967

Dr. Robert M. Kosanke  
Paleontology and Stratigraphy Branch  
U.S. Geological Survey  
Building 25, Federal Center  
Denver, Colorado 80225

Dear Bob:

Yours of 25 May came today. I hadn't really given the CIMP meeting much thought. As you know, I have been in the past a Cenozoic and Recent man, and I don't suppose anybody would even think of circularizing me about attendance at CIMP. At the moment, in direct answer to the question you raise, I don't know of anybody who is going. If the Catalog were better heeled, I think a strong argument could be made for having it pay part of the expenses for one of the editors or of a member of the board. As you know, however, we are still perched on the thin edge of financial disaster, a circumstance I expect to see corrected within a year. Judging from my efforts to get NSF support to go to Utrecht last year, it would be too late to seek NSF help for Sheffield. I am wondering whether a really concerted effort based on the desirability of having American representation could not still get federal support of some kind for the trip? If I could help with a letter of support, or something, please let me know.

Best wishes to all.

Yours very truly,

Alfred Traverse  
Associate Professor of Geology

AT:kaw



IN REPLY REFER TO:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
FEDERAL CENTER, DENVER, COLORADO 80225  
Paleontology and Stratigraphy Branch  
Building 25

G:P&S:RMK

May 25, 1967

Dr. Alfred Traverse  
Catalog of Fossil Spores and  
Pollen  
Deike Building  
Pennsylvania State University  
University Park, Pennsylvania 16802

Dear Al:

Your suggestion of handling the Leschik date problem sounds fine to me.

The next meeting of the CIMP will be held in Sheffield this September 6-8. I think this county should be represented. A copy of a recently received letter from Ed Spinner gives informally the agenda for these meetings. My previous trips to Europe were with the support of the NSF prior to coming to Denver. NSF support is not as readily available to me as a member of the U.S.G.S. Do you know whether we will be represented at these meetings? I feel certain that Bill will attend the Coal Petrology meetings, but these run concurrently with the CIMP.

Sincerely,

Robert M. Kosanke

Enclosure

*P.S. Thanks for reprint.*

# UNIVERSITY OF SHEFFIELD



Sorby Professor:

LESLIE R. MOORE, D.Sc., Ph.D., F.G.S.

Telephone: 78555

DEPARTMENT OF GEOLOGY,  
MAPPIN STREET,  
ST. GEORGE'S SQUARE,  
SHEFFIELD 1.

EGS/MRW

16th May, 1967.

Your ref. G:PS:RMK

Dr. R.M. Kosanke,  
Palaeontology and Stratigraphy Branch,  
Block 25,  
U.S. Department Interior,  
Geological Survey,  
Federal Centre,  
Denver,  
Colorado 80225.

Dear Dr. Kosanke,

Thank you very much for your letter of May 12th. We are very happy to hear from you again. C.I.M.P. has missed you at its last few meetings.

As you are no doubt aware, C.I.M.P. has at last reached the stage of publishing its results. The part dealing with Chitinozoa has already been published.

At the meeting at Sheffield in September, the working groups on systematics will continue as in the past. The main discussions this year will be on the Stratigraphical value of spores and secondarily, which of the new "numerous" suprageneric classifications should be used in the publication.

We are sorry to hear that you think you will be unable to be with us again this year. Please do not take the deadline of June 30th too seriously. I am quite sure we in Sheffield would be pleased to accommodate you at short notice.

Hoping the picture will change,

Yours sincerely,

*Edwin Spinner*

E.G. Spinner

May 17, 1967

Dr. Robert M. Kosanke  
Paleontology and Stratigraphy Branch, U.S.G.S.  
Building 25, Federal Center  
Denver, Colorado 80225

Dear Bob:

Thanks for the kind words. I am finding out that being editor of CFSP is no bed of roses--so many things to think of. The latest is that Phil Dolsen forgot to send out the customary covering letter to the advisory committee with Volume 26.

Jim Schopf caught the misspelling of his name in time, and we reprinted the page. I don't know how I missed it, but I admit that proof-reading is not one of my strong points. Spackman is a whiz at it and will pick up errors like a vacuum cleaner.

I appreciate your detective work on Leschik very much. I am starting a little file of such things with the idea that I might find a little publication with a title such as "CFSP News and Notes" or something like that for various tidbits related to the Catalog. How would that grab you?

Volume 27 is in the final stages of preparation, which means that I have the final formats on my desk, and that Bill S. has already found about  $2 \times 10^3$  errors that will have to be painstakingly corrected.

Best wishes all around.

Yours very truly,

Alfred Traverse  
Editor  
Catalog of Fossil Spores and Pollen

AT:kaw

Enclosure



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
FEDERAL CENTER, DENVER, COLORADO 80225  
Paleontology and Stratigraphy Branch  
Building 25

IN REPLY REFER TO:

G:P&S:RMK

May 9, 1967

Dr. Alfred Traverse  
Catalog of Fossil Spores and  
Pollen  
Deike Building  
Pennsylvania State University  
University Park, Pennsylvania 16802

Dear Al:

Volume 26 of the Catalog has been examined in at least a cursory fashion at this time. You are to be congratulated because it appears to be a good clean job.

I have a few comments to make only one of which is a correction and that is on page 26-157, Schoph should be Schopf. My copy of de Jersey (1959) is out on loan so I could not check the fact that when he illustrated more than a single specimen he termed the extra specimens paratypes. It is obvious he did this in 1959, but subsequently referred the extra specimens to new species as you indicated in de Jersey (1962), and the same is true of his more recent publications.

Some years ago I checked on the date of Leschik (1955) with the publisher because I received Leschik (1956) before the 1955 paper. A copy of the response is enclosed. I wonder if it would not be worthwhile to note this in some future issue of the Catalog?

I believe you have done a good job Al. Should I observe any problems with Volume 26 subsequently, I will let you know.

Sincerely,

Robert M. Kosanke

Enclosure



BIRKHÄUSER VERLAG · BASEL (Schweiz)

ELISABETHENSTRASSE 15 · TELEPHON (061) 23 58 20 · TELEGRAMME: EDITA BASEL · POSTCHECKKONTO V 16673  
BANKEN: SCHWEIZ. KREDITANSTALT, BASEL - SCHWEIZ. BANKVEREIN, BASEL - SCHWEIZ. BANKGESELLSCHAFT, BASEL  
SWISS BANK CORPORATION, 15 NASSAU ST., NEW YORK 5

State Geological Survey Division  
Attn. Mr. Robert H. Kosanke  
Natural Resources Building

U R B A N A, Illinois, USA.

Basel, June 22, 1960  
E/st.

Dear Sir,

We thank you for your letter of June 15, 1960 and are pleased to inform you as follow:

1. The separate Vol. 72/1, 1956, G.LESCHIK, II. Die Iso- und Mikrosporen (Die Keuperflora von Neuwelt bei Basel), was published in February 1956.
2. The complete volume 72, 1956, was published later in June 1957.

Sincerely yours  
BIRKHÄUSER VERLAG

May 1, 1967

Dr. Robert M. Kosanke  
P. & S. Branch  
U.S.G.S., Federal Center  
Denver, Colorado 80225

Dear Bob:

Thanks for the card--good thinking to save it for the appropriate moment!

Volume 26 is slated to go out sometime late next week after the customary two-three weeks delay for advisory committee members to call our attention to horrible boners.

I would still very much appreciate your review, because, as far as I can understand it, the real purpose of the reviews is for our future guidance. By the time the copies have gone out to the committee, all the printing is complete and changes are really pretty expensive and time-consuming, so we don't make them except where either relatively easy or tremendously important. So--please do send along the review even though it will be a little late.

Volume 27 is complete too now, and Volume 28 is being prepared. I am encouraged that we can make my personal goal of Volume 30 before the end of the year.

Greetings to Estella, Dick and Bob.

Yours cordially,

Alfred Traverse  
Editor  
Catalog of Fossil Spores & Pollen

AT:kaw

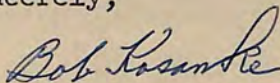
April 24, 1967

Dear Al:

Just received copy of volume 26 in the morning mail and thought I better inform you that I am loaded with review work presently so that it may be a little while before I can handle volume 26. I just finished review of 151 page paper, have one from Potonié, and a 322 page paper from Balme too. I will do my best to review volume 26 within a couple of weeks. I am expecting a big review job from Washington too, but that will have to be after volume 26.

All is well here but rather busy.

Sincerely,





UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
FEDERAL CENTER, DENVER, COLORADO 80225  
Paleontology & Stratigraphy Branch  
Building 25

IN REPLY REFER TO:

G:P&S:RMK

March 7, 1967

Dr. Alfred Traverse  
Catalog of Fossil Spores and Pollen  
Deike Building  
Pennsylvania State University  
University Park, Pennsylvania 16802

Dear Al:

The two publications have been received as well as your letter. Thanks for the fancy binding on the one publication.

Your letter is making the rounds of Estella, Dick, and Bob. I for one can appreciate the problems of keeping the catalog moving.

Sincerely,

Robert M. Kosanke

February 27, 1967

Dr. Robert M. Kosanke  
P & S Branch  
U.S. Geological Survey  
Federal Center  
Denver, Colorado

Dear Bob:

Under separate cover I have sent off to you the publications you lent me some time ago. I am sorry that it took so long! One of the things was somewhat tattered in the binding, so I had it rebound, which I hope is agreeable.

All going well here, except that the productivity of the CFSP is not as fast as I know it must be--it is very hard to change things! Volume 26 is in press, and Volume 27 is about half prepared. I am currently the bottleneck in Volume 28--I must do some translations from Malyavkina before we can prepare the pages. Gerhard is supposedly getting the preliminary work on 29 done. But I know that we must get through 30 this calendar year to be in anything like good shape.

I am teaching the course in palynology this term--quite a challenge and a wonderful way to scrape off some of the barnacles. I am managing to get a little research done--on the Texas lignites.

Best regards to Bob and Estella and Dick and all my other friends around you. Thanks again for the loan of the publications.

Yours very truly,

Alfred Traverse, Editor  
Catalog of Fossil Spores and Pollen

AT:kaw

THE PENNSYLVANIA STATE UNIVERSITY

ORGANIC SEDIMENTS LABORATORY  
UNIVERSITY PARK, PENNSYLVANIA 16802

College of Mineral Industries  
Department of Geology and Geophysics

Area Code 814  
865-6545  
865-6543

October 21, 1966

Dr. Robert M. Kosanke  
Member, Advisory Committee, CFSP  
United States Geological Survey  
Federal Center  
Denver, Colorado

Dear Bob:

This time I'm writing in my alter ego (newly found)  
of co-editor of CFSP.

I have proposed elimination of Option C (punch cards)  
of the Catalog effective with Volume 26 (almost ready) as  
a step toward expedition of the operations here. The  
subscribers have responded slowly but mostly favorably to  
a questionnaire. Few (if any) people use the punch feature  
anyway. Any comments?

Yours very truly,

Alfred Traverse, Editor  
Catalog of Fossil Spores and Pollen

AT:le

19 October, 1966

Dr. Robert M. Kosanke  
P. & S. Branch  
U. S. Geological Survey  
Federal Center  
Denver, Colorado

Dear Bob:

In connection with a little thing that I am trying to put together, I would very much like to make reference to a study that I vaguely remember was done several years ago, I believe by C. I. M. P., on the results of having several different labs macerate the same sample(s). Didn't you have something to do with it? If so, do you have anything in the way of a report that I could see? If not, do you know to whom I could appeal for such help?

See you in San Francisco? Or, even probably, the pre-meeting field foray in Utah? I am tentatively planning to be on hand for both.

Best wishes to all my friends out there.

Yours very truly,

*Alfred Traverse*

Alfred Traverse

STATE OF ILLINOIS  
WILLIAM G. STRATTON, GOVERNOR  
DEPARTMENT OF  
REGISTRATION AND EDUCATION  
VERA M. BINKS, DIRECTOR  
SPRINGFIELD  
BOARD OF NATURAL RESOURCES  
AND CONSERVATION  
VERA M. BINKS, CHAIRMAN  
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UNIVERSITY OF ILLINOIS  
DEAN WILLIAM L. EVERITT  
SOUTHERN ILLINOIS UNIVERSITY  
PRESIDENT DELYTE W. MORRIS



## STATE GEOLOGICAL SURVEY DIVISION

LOCATED ON THE CAMPUS OF THE UNIVERSITY OF ILLINOIS

JOHN C. FRYE, CHIEF  
NATURAL RESOURCES BUILDING  
URBANA

May 26, 1959

Dear Colleague:

As indicated in my circular letter, I am starting the Naumova translation on the way today. The mailing order for this translation will be from east to west in United States and from west to east in Canada. There is one exception and that is for L. R. Wilson who wishes the translation after October 15. Accordingly, the mailing order will be:

- |                        |                               |
|------------------------|-------------------------------|
| 1) William Spackman    | 8) Estella Leopold            |
| 2) Joe Guennel         | 9) Robert H. Tschudy          |
| 3) A. T. Cross         | 10) California Research Corp. |
| 4) William Hoffmeister | c/o Jean M. Legg              |
| 5) John Grayson        | 11) Glenn Rouse               |
| 6) Stuart A. Levinson  | 12) Bill Radforth             |
| 7) Paul W. Nygreen     | 13) L. R. Wilson              |

The circular was mailed to 19 laboratories or individuals. Eighteen replies were received with several persons having this paper or a French translation.

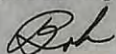
I am enclosing with the translation self-addressed postcards, and it would be appreciated if you would mail one of these indicating the date you received the translation.

Inquiry has been made concerning Contoura paper. It is readily available from F. G. Ludwig Associates, Box 2983-34, New Haven 15, Connecticut. The paper is type "Y" and comes in boxes of 100 sheets (8½ x 11") for \$4.95. Orders of five or more boxes receive a 10% discount. Shipments postpaid in U.S.A. when payment is made with order or postage is extra on billed orders. Actually any thin contact printing paper will work. Ordinary Dektol developer works very well.

I can now offer another translation for distribution which has recently been received from Dr. Schopf. This is the text of "Spores and pollen of Lower Carboniferous deposits of western extension of the Donetz basin and their value for stratigraphy," by A. M. Ishchenko, 1956, Izdatel'stvo Akademii Nauk Ukrainskoy SSR, Kiev (Publishing House Academy of Sciences of the USSR, Kiev), Stratigraphic and paleontologic series, v. 11, p. 1-143, 21 pls., 3 figs. The translation is 189 pages including bibliography and a two page preface concerning the translation by Dr. Schopf.

If you wish to receive the negatives for this translation, please inform me by June 11.

Sincerely,

  
Robert M. Kosanke, Geologist  
Coal Section

May 19, 1959

Dr. Robert M. Kosanke  
Coal Division  
Illinois Geological Survey  
Urbana, Illinois

Dear Bob:

I already have a copy of the Naumova paper, but would be interested in hearing about future similar developments.

Very best wishes, as ever.

Very truly yours,



Alfred Traverse

AT:pjd

Shell Development Company  
Exploration and Production Research Division

STATE OF ILLINOIS  
WILLIAM G. STRATTON, GOVERNOR  
DEPARTMENT OF  
REGISTRATION AND EDUCATION  
VERA M. BINKS, DIRECTOR  
SPRINGFIELD  
BOARD OF NATURAL RESOURCES  
AND CONSERVATION  
VERA M. BINKS, CHAIRMAN  
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BIOLOGY - - ALFRED E. EMERSON  
FORESTRY - - LEWIS H. TIFFANY  
UNIVERSITY OF ILLINOIS  
DEAN WILLIAM L. EVERITT  
SOUTHERN ILLINOIS UNIVERSITY  
PRESIDENT DELYTE W. MORRIS



## STATE GEOLOGICAL SURVEY DIVISION

LOCATED ON THE CAMPUS OF THE UNIVERSITY OF ILLINOIS

JOHN C. FRYE, CHIEF  
NATURAL RESOURCES BUILDING  
URBANA

May 7, 1959

Dr. Alfred Traverse  
Shell Development Company  
3737 Bellaire Boulevard  
Houston 25, Texas

Dear Al:

Dr. James M. Schopf has made available a complete translation of the text of S. N. Naumova's 1953 paper, SPORE-POLLEN COMPLEXES OF UPPER DEVONIAN OF THE RUSSIAN PLATFORM AND THEIR MEANING FOR STRATIGRAPHY. There are 197 pages including the literature citations. By agreement with Dr. Schopf, we have duplicated this translation and have Contoura negatives available for those who wish to make positive copies. Our positive copy came out very nicely using these paper negatives.

As indicated above, these negatives are available to you and to all other colleagues who wish to have a copy of this important paper. I am asking that you write to me indicating a desire for the loan of these negatives by May 25th, if you are interested. As soon as possible after that date, a mailing itinerary will be established. Your only obligation will be to send these negatives on to the next person on the list and the last person will return the negatives to me here in Urbana. The cost of sending the negatives by first class mail will be under two dollars. In a large measure, the success or failure of this venture depends upon cooperation and promptness. The results will indicate whether subsequent translations should be handled in this manner.

Sincerely yours,

Robert M. Kosanke  
Geologist  
Coal Section  
Illinois Geological Survey  
Urbana, Illinois

February 19, 1959

Dr. Robert M. Kosanke  
Coal Section  
Illinois Geological Survey  
Urbana, Illinois

Dear Bob:

Your letter of February 5, 1959 was here awaiting my return from an intermittent and prolonged absence due to illness and vacation.

I am, of course, flattered indeed by the invitation to take part in the symposium. However, I feel that I must decline on the ground that there is insufficient time to complete anything worthwhile for approval and presentation. I would have to be in the final stages of preparation of such a thing right now to get it through the various roadblocks. I do not mean that I would have trouble getting clearance, but it does take time. I have had no hint of this until now, of course, and it happens that I haven't anything of value on this subject anywhere near completion. (I am currently engaged in work on modern pollen, as you probably know. I had thought about and rejected the idea of giving a paper on some of this work. I am just not ready). I am really sorry to let you down, but I can't see any alternative.

With best wishes and heartfelt sympathy, I am

Very truly yours,



Alfred Traverse

AT:mpd

Shell Development Company  
Exploration and Production Research Division

STATE OF ILLINOIS  
WILLIAM G. STRATTON, GOVERNOR  
DEPARTMENT OF  
REGISTRATION AND EDUCATION  
VERA M. BINKS, DIRECTOR  
SPRINGFIELD  
BOARD OF NATURAL RESOURCES  
AND CONSERVATION  
VERA M. BINKS, CHAIRMAN  
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CHEMISTRY - - ROGER ADAMS  
ENGINEERING - ROBERT H. ANDERSON  
BIOLOGY - - ALFRED E. EMERSON  
FORESTRY - - LEWIS H. TIFFANY  
UNIVERSITY OF ILLINOIS  
DEAN WILLIAM L. EVERITT  
SOUTHERN ILLINOIS UNIVERSITY  
PRESIDENT DELYTE W. MORRIS



## STATE GEOLOGICAL SURVEY DIVISION

LOCATED ON THE CAMPUS OF THE UNIVERSITY OF ILLINOIS

JOHN C. FRYE, CHIEF  
NATURAL RESOURCES BUILDING  
URBANA

February 17, 1959

Dr. Alfred Traverse  
Shell Development Company  
3737 Bellaire Boulevard  
Houston 25, Texas

Dear Al:

Concerning my letter of February 5, Dr. Cookson does not plan to attend the Congress meetings. I may receive some written remarks from her for presentation during the discussion session following the papers. Should you decide to participate in the symposium, it is now possible to offer you more time for presentation of a paper. I should think about 35 minutes. You need not restrict your paper to the Tertiary of the U.S.A. Any topic generally within the scope of the symposium would do nicely.

Sincerely,

Robert M. Kosanke  
Geologist  
Coal Section

cc: Dr. Radforth  
Dr. Schopf

STATE OF ILLINOIS  
WILLIAM G. STRATTON, GOVERNOR  
DEPARTMENT OF  
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PRESIDENT DELYTE W. MORRIS



## STATE GEOLOGICAL SURVEY DIVISION

LOCATED ON THE CAMPUS OF THE UNIVERSITY OF ILLINOIS

JOHN C. FRYE, CHIEF  
NATURAL RESOURCES BUILDING  
URBANA

February 5, 1959

Dr. Alfred Traverse  
Shell Development Company  
3737 Bellaire Boulevard  
Houston 25, Texas

Dear Al:

It is a real pleasure to inform you of your selection as a speaker on the plant microfossil symposium of the IX International Botanical Congress. Dr. Radforth, Chairman of the Program Committee for Paleobotany, presided at a meeting of this committee earlier this week in Chicago, and one of the topics considered was that of the symposium scheduled for August 26, 1959. It is the hope of the entire committee that you will find it possible to participate in this symposium as a speaker.

The title of the symposium is slightly altered from that published in the Second Circular of the Congress and is as follows: Microfossil morphology and floristic composition. It is hoped that nomenclature of plant microfossils will receive a complete hearing during the nomenclature sessions and that this topic need not be a vital portion of the symposium. However, it is the aim of the Program Committee to have a stimulating symposium promoting discussion. It is for this reason that the number of speakers will be limited to a maximum of three for each session. The morning session is devoted to Paleozoic deposits while the afternoon session is concerned with Mesozoic and Cenozoic plant microfossils. Persons invited to speak on the afternoon session, August 26, are Faegri, Cookson, and yourself. Dr. Cookson is currently in Germany and plans to return to Australia in May so that it may be impossible for her to be on the symposium. In any event, I will keep you posted on developments. You certainly could have at least 20 minutes for your presentation. Final decision on this matter will be made shortly.

What I need to know from you at this moment is whether you will be in a position to present a paper concerned with the Tertiary of U.S.A. within the framework of the title of the symposium. In addition to this, I need to have the title of your paper. It is essential that I hear from you as soon as possible.

Sincerely yours,

Robert M. Kosanke  
Geologist  
Coal Section

cc: Dr. Radforth  
Dr. Schopf

STATE OF ILLINOIS  
WILLIAM G. STRATTON, GOVERNOR  
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## STATE GEOLOGICAL SURVEY DIVISION

LOCATED ON THE CAMPUS OF THE UNIVERSITY OF ILLINOIS

JOHN C. FRYE, CHIEF  
NATURAL RESOURCES BUILDING  
URBANA

June 9, 1958

Dr. Alfred Traverse  
Shell Development Company  
3737 Bellaire Boulevard  
Houston 25, Texas

Dear Al:

Thank you very much for the copy of the Paleobotanical Section program scheduled for Bloomington, Indiana. The program you have arranged certainly looks good. I hope the turn out is good since there is some doubt that meetings will be held next year what with the botanical congress taking place in Canada.

I enjoyed the trip to Penn State and did transmit your questions to Spackman. It had been several years since my last visit there and must confess that I was surprised at the increase in personnel and equipment. The meeting was the Second Conference of the Eastern American Anthracologists and papers were presented by Brisse, Schapiro, Vonfeld, Ergun, Parks, Dolsen, Williams, Koppe, Cameron, Kremp, Gady, Harrison, Neavel, and Spackman. This latter information is given here just so as you will not forget petrography and some of the active workers.

I will be looking forward to the Bloomington meetings and seeing you once again.

Sincerely,

*Bob*

Robert M. Losanke  
Geologist  
Coal Section

March 21, 1958

Dr. Robert M. Kosanke  
Coal Section  
Illinois Geological Survey  
Natural Resources Building  
Urbana, Illinois

Dear Bob:

Your letter arrived the day your brother-in-law departed. He had a good visit with us, though, in retrospect, I think we didn't cover a lot of the ground I wanted to. To complicate matters, I had the last stages of laryngitis and was not able to gab as well as usual. It was good to see him, and we were especially glad that he could spend a night with us at the house, so that he could see Betty and the kids. Last time he saw Betty we had only 4/9 child (autumn, 1951).


I agree about the undesirability of using the term symposium for this program of which you'll be chairman. It will probably be a pretty good deal, as it seems to be developing. I just had a letter from Frank Staplin (Imperial Oil Company, Calgary), and he says that he'll have a paper, pending probable approval by the Company, on Mississippian and Devonian spores.

The suggestion from Frey was an outgrowth of a discussion we had in Bloomington in January. Unfortunately, he didn't get the number right, and I've written him about that. It is also unfortunate that he didn't mention that I had told him that they could list the program, if any, as part of our program, per Palo Alto. The way the letter reads is a little unfortunate, but I am sure that Dave didn't have any bad motives. Also, the program would have little effect on ours, since Frey has in mind the Pleistocene and Recent sort of paper.

Judging by experience last year, the response to Frey's circular may be so light that we need never give this any further thought. But, in any event, I am sure that we turn the outcome to the Section's advantage, and that is my principal motive. I really believe in the Paleobotanical Section!)

Best wishes.

Yours very truly,

  
Alfred Traverse, Secretary  
Paleobotanical Section, B. S. A.

AT/mg  
Shell Development Company  
Exploration and Production Research Division

STATE OF ILLINOIS  
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## STATE GEOLOGICAL SURVEY DIVISION

LOCATED ON THE CAMPUS OF THE UNIVERSITY OF ILLINOIS

JOHN C. FRYE, CHIEF  
NATURAL RESOURCES BUILDING  
URBANA

March 12, 1958

Dr. Alfred Traverse  
Shell Development Company  
3737 Bellaire Boulevard  
Houston 25, Texas

Dear Al:

I am not much concerned whether we call the program on Paleozoic spores and pollen a colloquium or a round table. According to definition, a round table program probably is more accurate. It could be called a symposium, but the Paleobotanical Section in the past has generally used this term more frugally, and perhaps rightfully so.

A recent communication from David Frey suggests a possible 4th National Pollen Conference be held at Bloomington too. I was under the impression that the one held at Stanford last year was the 4th. There is no indication from Frey that he has cleared holding the proposed pollen conference in conjunction with our meetings with either you or Mamay. I am not against another pollen conference this year, just interested how these things develop.

Sincerely,

Robert M. Kosanke  
Geologist  
Coal Section



SHELL DEVELOPMENT COMPANY  
EXPLORATION AND PRODUCTION RESEARCH DIVISION  
3737 BELLAIRE BOULEVARD  
HOUSTON 25, TEXAS

February 27, 1958

Dr. Robert M. Kosanke  
Geologist, Coal Section  
Illinois Geological Survey  
Urbana, Illinois

Dear Bob:


Yours of the 18th was very good news. I had heard about Cropp, and I should think that this particular program would be a perfect spot for him to make his debut. Naturally, I am glad to know that you will be able to chair the program on Paleozoic spores, which may very well take the whole first(?) day and might have been called a colloquium, or something of the sort. How do you feel about that? Do you care about the title we give the program?

Re Grayson's efforts: I don't care what happens, so long as it doesn't kill or seriously maim the present valuable association of all paleobotanists (excepting a few soreheads such as Axelrod) that we have in the P.S., B.S.A. I have long felt that one of John's (perhaps unconscious) motives had been to emasculate the Paleobotanical Section. I still feel this way.

Can you provide me with the address of Marshall? I don't even know enough to know whether he has gone back to Australia. I enclose a postcard for you to use for the purpose.

Best wishes to all the Kosankes.

Very truly yours,

  
Alfred Traverse, Secretary  
Paleobotanical Section, B.S.A.

AT:hmp

Enclosure

cc. Dr. S. H. Mamay

STATE OF ILLINOIS  
WILLIAM G. STRATTON, GOVERNOR  
DEPARTMENT OF  
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## STATE GEOLOGICAL SURVEY DIVISION

LOCATED ON THE CAMPUS OF THE UNIVERSITY OF ILLINOIS

JOHN C. FRYE, CHIEF  
NATURAL RESOURCES BUILDING  
URBANA

February 18, 1958

Dr. Alfred Traverse  
Paleobotanical Section, B. S. A  
3737 Bellaire Boulevard  
Houston 25, Texas

Dear Al:

The plans for the Bloomington meeting were received with considerable interest. By now you know, from your questionnaire which I recently returned, that I will attend the meetings, plan to present a paper on palynology, and will have a car or station wagon to help out with the field trip.

It is likely that we will have another palynological paper to offer. Fred Cropp, who is working on the Pennsylvanian coals of Tennessee for his PhD thesis, should be in a position to offer at least a preliminary report. I will know more about this as his work progresses during the next couple of months.

I will be glad to chair the Paleozoic portion of the program relating to spores and pollen.

It is my understanding that Grayson has been thinking of working up a set of preliminary proposals relating to a separate palynological organization, based on the results of his questionnaire, and send them out for comment and discussion. I was not happy over the response to his questionnaire. I believe he is obligated now to look further into the matter, but he is not moving rapidly.

Sincerely,

Robert M. Kosanke  
Geologist  
Coal Section

February 5, 1958

Dr. Robert Kosanke  
Coal Division  
Illinois Geological Survey  
Urbana, Illinois

Dear Bob:

Just returned from a swing through parts of the North, during which I laid some of the preliminary groundwork for the August meetings. Canright and Guennel are going to co-lead a two-day field trip to some of the interesting localities Canright knows within striking range of Bloomington.

For the program-proper I am hoping to be able to arrange at least a session, perhaps a full day on Paleozoic spores. Bloomington seemed a natural spot for such a program. I already have commitments for contributions to this program from Marcia Winslow, Joe Guennel, Mart Schemel (will give his thesis), and (tentative) Jim Schopf. I am trying to get Hacquebard, someone from Carter, and perhaps some students from here and there.


Would you be willing to be chairman of this program? Would you be interested in also giving a paper? I think it would be ideal, if you have something that could be presented. Could you suggest anybody else for the program? Some student of yours?

Schopf and I had quite a talk about the future of the Section and the relationship of same to Grayson's activities. Jim feels that the best thing to do at the moment is nothing, and he is probably right.

While at St. Louis on this trip I was at the Garden, and spent an amusing half-hour with the executive secretary of the Iris Society, which, I noted, includes Avalon among its 6,000 members.

Best wishes to you and the family.

Very truly yours,

  
Alfred Traverse, Secretary  
Paleobotanical Section, B.S.A.

AT:ml

Dr. Robert M. KOSANKE,  
Coal Division,  
Illinois Geological Survey,  
U R B A N A,  
Ill., U.S.A.

The Hague, November 11, 1955.

Dear Bob:

Thanks for the copies of your papers on Mazostachys and on "Correlation of coals and spore analysis". I have enjoyed reading both of them.

Sorry that it did not work out that we could visit Urbana on the way home to Indianapolis. I think I explained that in an earlier letter. I have twice since then been close to Urbana in driving to and from Houston and Indianapolis but on each occasion was in a great hurry.

I am having a very valuable time over here, though it is a bit too rushed. I leave here next Monday for Copenhagen to spend a few days with Iversen, then on to Stockholm to visit Erdtman, and so on. I plan to be back at work in Houston in January.

The correct permanent address for me is not as per the address label on the recent reprints, but:

Shell Development Company,  
3737 Bellaire Blvd.  
Houston 25, Texas.

Yours sincerely,  
*at*

A. Traverse,  
c/o N.V. DE B.P.M.,  
GA/Pal.Lab.,  
30 C.v. Bylandtlaan,  
The Hague, Holland.

September 28, 1955

Dr. Robert Kosanke  
Illinois Geological Survey  
Coal Division  
Urbana, Illinois

Dear Bob:

Sorry that I or we didn't make it to Urbana during the trip down here. We went you one better and lost our car altogether on the trip to Indianapolis. We bought a '52 Dodge in Kansas after ours broke down and required extensive repairs. As I had anticipated, we neared Urbana late in the day and were anxious to get to Indianapolis. Then we had lost so much time that I couldn't take any more to visit in Urbana enroute from Indianapolis here.

Enjoyed a day's visit in Boulder with Bob Tschudy and Mrs. T and the others just a couple of days before we headed east and south. He is a most interesting fellow and I had a very profitable day there. I am only sorry that I hadn't known him before.

Will you be at the New Orleans meetings? I might see you there, if so. Best regards to Avalon and the boys.

Very truly yours,

Alfred Traverse

AT:hag

Shell Development Company  
Exploration and Production Research

August 22, 1955

Through Chief, Br. of Coal Tech.

Dr. Robert M. Kosanke  
Geologist, Coal Division  
Illinois Geological Survey  
Urbana, Illinois

Dear Bob:

Soon after I wrote you about the field session, Serge's card about the affair arrived, so I am doubly informed now. My plans for the meetings are somewhat up in the air, but I am going, whether or not I can make the field trip part of the schedule.

I hope that I shall be able to visit Urbana after the meetings. I'll let you know more about that in East Lansing. It will depend partly on whether Marshall would be there at that time. I hear that he will be out this way in late September, but there is every likelihood that I shall not be here then.

Best wishes to Avalon, the boys et al.

Very truly yours

Alfred Traverse, Head,  
Fuels Microscopy Laboratory

cc File  
✓ ATraverse/cs

STATE OF ILLINOIS  
WILLIAM G. STRATTON, GOVERNOR  
DEPARTMENT OF  
REGISTRATION AND EDUCATION  
VERA M. BINKS, DIRECTOR  
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REPRESENTING THE PRESIDENT—  
W. L. EVERITT  
SOUTHERN ILLINOIS UNIVERSITY  
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## STATE GEOLOGICAL SURVEY DIVISION

JOHN C. FRYE, CHIEF  
121 NATURAL RESOURCES BUILDING  
UNIVERSITY OF ILLINOIS CAMPUS  
URBANA

August 17, 1955

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

Dear Al:

We finally made it back to Champaign-Urbana. Our return trip was eventful and when we get caught up unpacking boxes I will write you about it some evening. We would like to thank you once again for a very pleasant day in Denver.

With regard to your inquiry concerning the paleobotanical field trip, Serge and Arnold have made the arrangements. I do know that the trip will be held as scheduled leaving Ann Arbor early Monday morning, September 5th and ending up at East Lansing that night. The demonstration session is to be held starting at 2:00 p.m. Sunday, September 4th, at the Museum at Ann Arbor.

It is suggested that the Tower Hotel, 300 South Thayer Street in Ann Arbor is a good place to stay.

I will leave here by here by car early Sunday morning (September 4) and should arrive in time for the start of the demonstration session. We hope that you will find it possible to visit Champaign-Urbana. We will be most happy to have you stay with us while in town either prior to or after the meetings.

Sincerely,

Robert M. Kosanke  
Geologist  
Coal Division

STATE OF ILLINOIS  
WILLIAM G. STRATTON, GOVERNOR  
DEPARTMENT OF  
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## STATE GEOLOGICAL SURVEY DIVISION

JOHN C. FRYE, CHIEF  
121 NATURAL RESOURCES BUILDING  
UNIVERSITY OF ILLINOIS CAMPUS  
URBANA

February 24, 1955

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

Dear Al:

At our Chicago meeting last week, the "International Glossary" of terms related to coal petrography was discussed at length. Briefly it was decided essential that our own house be in order as a prerequisite to any attempted cooperation with the International Committee. To this end it became my duty to name a committee. This committee was to make as much progress as possible prior to the New Orleans meeting. It was decided that one person from each laboratory should undertake the responsibility of working on the project and form the committee.

I am writing to determine if you will serve on this committee. Other persons on this committee include Cross, Schopf, Cady, Barghoorn, and others.

Within a few days you will receive a list of terms extracted from a glossary prepared by Kenneth Clegg of our Survey. Jack is making the arrangements to see that this list is distributed to the members of the committee. This first circular is solely to determine what terms should be defined. Complete information and instructions will be attached to the list. If you can spare a small amount of time to help out in this mutual project, it will be greatly appreciated.

Sincerely,

Robert M. Kosanke  
Geologist  
Coal Division

Building 20  
Federal Center  
Denver 2, Colorado

Dr. Robert M. Kosanke,  
Geologist, Coal Division,  
Illinois Geological Survey,  
Urbana, Illinois.

Dear Bob:

It was most disappointing for me to have missed the recent Chicago meeting. It turned out that my packing of instruments, and so forth, was even more of a job than anticipated. Also, I had to come to Denver a few days earlier than planned, so I made the right decision in deciding against attending the Chicago affair.

By all means count me as willing to serve on the committee for the compilation of the petrographic glossary. I have the preliminary list sent by Clegg and will send him some brief comments soon.

Best regards to all my friends in the Coal Division.

Sincerely yours,

*AT*  
Alfred Traverse  
Head, Fuels Microscopy Laboratory  
Branch of Coal Technology,  
Division of Solid Fuels, Reg.III

/apa

STATE OF ILLINOIS  
WILLIAM G. STRATTON, GOVERNOR  
DEPARTMENT OF  
REGISTRATION AND EDUCATION  
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## STATE GEOLOGICAL SURVEY DIVISION

JOHN C. FRYE, CHIEF  
121 NATURAL RESOURCES BUILDING  
UNIVERSITY OF ILLINOIS CAMPUS  
URBANA

August 13, 1956

Dr. Alfred Traverse  
Shell Development Company  
3737 Bellaire Boulevard  
Houston 25, Texas

Dear Al:

By now you should have received my notice indicating the shift of the Post-Paleozoic portion of the round table program to Wednesday morning. It is correctly given in the A.I.B.S. Bulletin. My information as to the day of our round table program came from Serge Mamay. I expect that Bold had to shift the Symposium to Monday afternoon because of a conflict of one of the many Societies or Sections in this joint meeting.

Sincerely,

Robert M. Kosanke  
Geologist  
Coal Division

cc: Dr. William Spackman

August 10, 1956

Dr. Robert Kosanke  
Coal Division  
Illinois Geological Survey  
Urbana, Illinois

Dear Bob:

The general program for A. I. B. S. just came, and I was distressed to see what looks like a program conflict between the afternoon session of the proposed round-table and the Barghoorn-Stewart-Andrews-Bold symposium. I would regard that as most unfortunate and hope that it can be avoided. Quite likely you have already taken steps to prevent the conflict.

Yours very truly,



Alfred Traverse

AFT:rlg

cc - Dr. William Spackman  
Pennsylvania State University  
University Park, Pennsylvania

Shell Development Company  
Exploration and Production Research Division

July 17, 1956


Dr. Robert M. Kosanke  
Coal Division  
Illinois Geological Survey  
Urbana, Illinois

Dear Bob:

Confirming our telephone discussion of this afternoon, I will plan to present a short discourse at Storrs, August 27, with the title "The Nomenclatural Problem of Microfossil Species Belonging to Extant Genera". I contemplate that there may be considerable discussion of the somewhat controversial subject. But I do not plan to take more than 12 or 15 minutes for the paper itself.

Looking forward to seeing you in Connecticut, then, I am,

Yours very truly,

  
Alfred Traverse

AFT:rlg

Shell Development Company  
Exploration and Production Research Division

Box LL, University Station  
Grand Forks, North Dakota  
January 4, 1955

Dr. Robert M. Kosanke  
Coal Division  
Illinois Geological Survey  
Urbana, Illinois

Dear Bob:

Thanks for the reprint of "Petrographic and Microchemical Studies of Coal" -- a very interesting study, which I hope is being continued.

Sorry that my transfer to Denver will knock me out of the Chicago meetings but will look forward to seeing you in East Lansing at the latest.

Regards to all.

Very truly yours,



Alfred Traverse  
Coal Technologist

ATraverse:vh

STATE OF ILLINOIS  
WILLIAM G. STRATTON, GOVERNOR  
DEPARTMENT OF  
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## STATE GEOLOGICAL SURVEY DIVISION

M. M. LEIGHTON, CHIEF  
121 NATURAL RESOURCES BUILDING  
UNIVERSITY OF ILLINOIS CAMPUS  
URBANA

June 10, 1953

**RECEIVED**

JUN 15 1953

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

Dr. Alfred Traverse  
United States Bureau of Mines  
Box LL, University Station  
Grand Forks, North Dakota

Dear Al:

On behalf of Dr. Cady and myself, I would like to thank you for your cooperation in supplying material for our paper which was presented at Geleen, Netherlands, by Dr. Cady. The material you sent was used as well as the photographs. Thanks very much.

In arranging our Paleobotany Section program last week, I noticed that you are listed with Elso and Bill for a paper on our Tertiary symposium. I hope this means you will be able to attend the Madison meetings. In addition to the Tertiary symposium, another paper that may be of interest to you is one by Clair Brown, Louisiana State University, which is a preliminary report of the pollens from Louisiana lignite. The complete program will be published in the August issue of the A.I.B.S. Bulletin.

Sincerely,

*Bob*

Robert M. Kosanke  
Geologist  
Coal Division

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

April 30, 1953

Mr. Robert M. Kosanke  
Geologist, Coal Division  
State Geological Survey Division  
121 Natural Resources Building  
University of Illinois Campus  
Urbana, Illinois

Dear Rob:

Your project to assemble material on the various American research workers in coal petrography, for use at the Netherlands meeting, is very commendable. I was amused by your "If you do not plan to attend these meetings...."! It would be a great experience. I have attempted to assemble the sort of information you want and am enclosing it.

First of all, about my facilities. I <sup>will</sup> have been here two years this fall and have had the rare opportunity of equipping as I wished the rooms assigned to me. I am enclosing a copy of the brochure about the laboratory as a whole, prepared when the building was newly constructed. On the cover I have pasted a color postcard of the laboratory (unfortunately there are no Kodachrome transparencies available - I intend to supply this want as soon as green grass permits but not in time for your purposes). On page 8 I have indicated the rooms which now comprise the lignite microstructure suite.

I have had prepared two floor plans showing the microstructure suite and the adjacent darkroom, with equipment in place. Each item of equipment was, in my opinion, the most satisfactory American instrument available for the job at the time I was equipping these rooms, and I am satisfied that I have a well-equipped setup. You will note that I am equipped to make use of polished surfaces, polished thin sections, microtome sections and macerations.

Also enclosed are several photographs of the laboratory rooms, with engaging views of your correspondent. The labels are on the reverse of each photo.

My principal weak point is lack of technical assistance - I have had only a little part-time help so far.

Re my program, etc. My primary research problem is study of the microstructure of lignite of this region with the idea of discovering facts which will be useful in preparing and using this coal. I am, first of all, making a survey of North Dakota lignite using the conventional Bureau of Mines petrographic techniques, slightly modified. I consider this only a starting point - a reconnaissance survey. I have developed a technique for making sections of run-of-mine lignite which will be useful in this connection. Column and core samples are also being studied, however. I am planning to study the structure of lignite in various stages of the steam-drying gasification and other processes being investigated here. My hope is to be able to suggest structural features of lignite which are significant in these processes. Studies of the application of microstructure to the preparation properties of lignite are also planned.


On the paleobotanic side, I hope to be able to expand our knowledge of the Fort Union flora which contributed to the lignite. At the outset, this work will be primarily with pollen and spores. (I am also hoping that my thesis work on the Brandon lignite will be published ere many years.)

It is my conviction, as I have written Dr. Cady, that the microstructure of Tertiary lignitic coals must be studied with more of a paleobotanic emphasis than is perhaps true for higher rank coals. Bergheorn's and other work shows the residual chemical and physical properties of living plants retained by Tertiary lignite. This emphasizes the importance of paleobotanic investigations being a part of the total "anthracological" approach to lignitic coal - even where applied coal petrography is concerned.

If there are any questions about any of these points, please write.

With best wishes to all our friends in Urbana, I am

Very truly yours,

  
Alfred Traverse  
Coal Technologist

cc Dr. Gilbert H. Cady

AT:dm

- Encs.: 1. Brochure about Lignite Research Laboratory.  
2. Photographs of lignite microstructure suite  
3. Floor plans of lignite microstructure suite and adjacent darkroom, with equipment shown in place.

Copies to: Mr. Lanford, Region V, File 6261, C. File Dr. Traverse

STATE OF ILLINOIS  
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DEPARTMENT OF  
REGISTRATION AND EDUCATION  
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## STATE GEOLOGICAL SURVEY DIVISION

M. M. LEIGHTON, CHIEF  
121 NATURAL RESOURCES BUILDING  
UNIVERSITY OF ILLINOIS CAMPUS  
URBANA

April 9, 1953

Dr. Al Traverse  
United States Bureau of Mines, Region V  
Grand Forks, North Dakota

Dear Al:

The First International Coal Petrographic meetings are to be held June 9-11, at Geleen, Netherlands. Dr. Cady or I, or both of us plan to attend these meetings. In discussing what contributions we could make to these meetings, it was decided to briefly review the past history of anthracology (coal petrology) in America followed by an account of the main interests of the individuals at present engaged in this study, a description of the location and facilities of the various laboratories, and the methods employed in the investigations being undertaken.

The purpose of this presentation is simply to familiarize the European investigators with the American personnel, their geographic location and facilities. It is hoped that by doing this in a systematic manner the European investigators can become familiar with our work which might result in a more rapid interchange of ideas, results, and reprints.

If you do not plan to attend these meetings and wish to cooperate in this venture, it is hoped that you will feel free to provide us in brief form a description of your activities and facilities accompanied by photographs of personnel and equipment that could be rephotographed and made into lantern slides for illustrations. If by any chance kodachromes are available, we could have duplicates made and return your originals. This material is needed within the next two to three weeks.

Another point is that we will be happy to place any problems or questions you may have to the conference or, if the opportunity for this is not available, directly to individuals who might be in a position to give their views. Apparently spore and pollen studies will be on the agenda for these meetings also.

Yours sincerely,

Robert M. Kosanke  
Geologist  
Coal Division

April 30, 1953

Dear Al:

There are to be 3 volumes to the 3rd Heerlen Congress Reports of which two volumes are out. The original cost was \$10.00 which covered all three volumes if ordered prior to the meetings in 1951. I would suggest you write to the publishers to obtain current information: Ernest van Aelst, Maestricht, Netherlands. The official title is - Troisieme Congres pour l'Avancement des etudes de Stratigraphie et de Geologie du Carbonifere - Compte Rendu, 1952. Tomes I and II are published and III should be out soon. You might also write to the Geologisch Bureau, Heerlen, Netherlands since they sponsored the meetings. That is all I can tell you about these publications Al.

Sincerely,

*Bob*

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF MINES

Region V  
Box LL University Station  
Grand Forks, North Dakota

November 27, 1951

Mr. Robert M. Kosanke  
Illinois Geological Survey  
Urbana, Illinois

Dear Bob:

Now that I am finally getting settled in my own laboratory here, I can let you know how much I appreciated all of the courtesies extended me during my brief visit to Urbana. I enjoyed talking with you and seeing your laboratories. It was also valuable for me to meet the people I met through you while in Urbana and to see something of their work.

The seminar which you and Dr. Tippe arranged was a lot of fun and good experience. All in all, I have most pleasant memories of Urbana.

Best wishes to all.

Yours sincerely,

ALFRED TRAVERSE  
Coal Technologist

cc Traverse ✓

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

February 16, 1953

Mr. Robert M. Kosanke  
Illinois Geological Survey  
Urbana, Illinois

Dear Bob:

You and Jim Schopf have obviously done a good piece of work in outlining clearly the implications of affiliation of our Coal Committee with the Geological Society as a division.

At present I am a member of the Geological Society. It would cost me a few dollars extra to become a fellow in order to be a voting member of the proposed division -- presuming that I might qualify to be a fellow. I would vote for the change if it is felt that the Coal Committee cannot be maintained in its present affiliation with S.E.G., with some tightening here and there.

Objections to the move are:

1. We have members who are not in G.S.A. and may not wish to join @ \$15 per annum (as fellows).
2. Not all present members will qualify as fellows of the Society. Those who do not qualify will be disbarred from active (i.e., voting) membership, which they have enjoyed in the past.
3. Some of us who are members of G.S.A. have no contact with S.E.G. except through the Coal Committee. This contact may be valuable to us, both collectively and individually. I think it is.
4. We have, I believe, been able in the past to meet with G.S.A. or S.E.G., whichever seemed more desirable (at least, the alternatives have been discussed at the meetings I have attended). As a division of G.S.A., we would not have this option.

Suggestion: It seems to me that some sort of formal organization is called for. I wonder if this could not be achieved through S.E.G.? That is, could not the Coal Committee of S.E.G., as at present constituted, be simply strengthened by giving it a more formal organization as, perhaps, a section of S.E.G.?

Conclusion: If affiliation as a section of S.E.G. has been explored and found impossible, and the alternative to organization as a division of G.S.A. is to continue indefinitely without any real organization, I would reluctantly vote for G.S.A. division status.

Very truly yours,

*AT*

Alfred Traverse  
Coal Technologist

cc Region V  
Dr. Traverse ✓  
File

DEPARTMENT OF  
REGISTRATION AND EDUCATION  
~~NOBLE J. PUFFER~~ DIRECTOR  
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C. Hobart Engle

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URBANA October 17, 1951

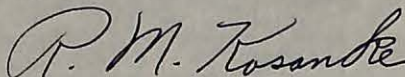
Dr. Alfred Traverse  
United States Bureau of Mines  
4800 Forbes Street  
Pittsburgh 13, Pennsylvania

Dear Dr. Traverse:

This is to inform you that your name has been placed on the membership list of the Coal Committee of the Society of Economic Geologists.

With regard to your intended visit to our Survey, November 12-13, I will be happy to show you our laboratories and to discuss our mutual problems in coal petrography. I hope you will be attending the Geological Society of America meetings in Detroit. We have a full day session on coal geology and coal petrography lined up. Also there will be a business meeting of the Coal Committee.

Yours sincerely,



R. M. Kosanke  
Geologist  
Coal Division

cc: Dr. Walter Searight

22 October, 1951

Mr. R. M. Kosanke  
State Geological Survey Division  
Urbana, Illinois

Dear Mr. Kosanke:

It was good to have your letter of 17 October telling me that I have officially been made a member of the Coal Committee.

I plan to be at the Detroit meetings, at least for Friday and Saturday. I hope to see a program for the meetings sometime between now and then. I am leaving here on the first of November. Perhaps I shall be able to get such details from Schopf when I am in Columbus the Monday and Tuesday before the meetings.

This trip to Grand Forks is shaping up as a very pleasant tour. I am looking forward to meeting you and to seeing the Urbana laboratories.

Yours,

Alfred Traverse

12 October, 1951

Dr. Robert M. Kosanke  
State Geological Survey Division  
Urbana, Illinois

Dear Dr. Kosanke:

After completing several months preliminary training here in the technique and methods of the Bureau of Mines, I am going to Grand Forks, North Dakota, to do work in coal petrography for the Bureau's new lignite research laboratories there. My training has been largely paleobotanical, of course, and I have had much to learn while here.

I plan to stop in Urbana on my way to N. Dak. and hope to be able to meet you and particularly to talk about spore and pollen work. I expect to continue investigations of Tertiary pollen and spores, at least in my spare time.

I expect to be in Urbana November 12-13 and have also written Dr. G. H. Cady about this visit.

Yours sincerely,

Alfred Traverse

SUPPLEMENT FOR

2:30 p.m. Tuesday September 11, 1951

PALEOBOTANICAL SECTION

SYMPOSIUM ON THE "PHYLOGENY AND THE FERN-PTERIDOSPERM COMPLEX"

Harlan P. Banks, Presiding

Just, Theodor, Chicago Natural History Museum, Chicago, Illinois.

The Geographical Distribution of Fossil Ferns and Pteridosperms.  
(Illustrated, 20 min.)

Banks, H. P., Cornell University, Ithaca, New York

Some Devonian Precursors of ferns  
(Illustrated, 15 min.)

Leclercq, S., Laboratoire de Paleontologie Vegetale, Universite de Liege, Liege, Belgique. (Paper to be read by American Colleague)

An upper Devonian zygopterid showing Clepsydaceae and Etaupteridaceae collective features.  
(Illustrated, 20 min.)

Baxter, Robert W., University of Kansas, Lawrence, Kansas.

The Coal Age Flora of Kansas II: On the Relation Between Etaupteris, Scleropteris and Botrychioxylon.  
(Illustrated, 15 min.)

Tryon, Rolla, M., Jr., Missouri Botanical Garden, St. Louis, Missouri.

Phylogeny of the Filicales.  
(Illustrated, 15 min.)

Radforth, Norman W., McMaster University, Hamilton, Ontario, Canada

Some trends in the evolution of the reproductive structures in Ferns  
(Illustrated, 20 min.)

Wagner, Warren H., Jr., Harvard University, Cambridge, Massachusetts.

Evidence for an Enation Prototype of the Fern Leaf.  
(Illustrated, 20 min.)

Stewart, Wilson N., and Theodore Delevoryas, University of Illinois, Urbana, Illinois.

Bases for the Phylogeny of the Medullosaceae.  
(Illustrated, 20 min.)

ROUND-TABLE DISCUSSION OF "PHYLOGENY AND FERN-PTERIDOSPERM COMPLEX"

9:30 a.m. Wednesday September 12, 1951

PALEOBOTANICAL SECTION

Harlan P. Banks, Presiding

Beck, Charles B., and Harlan P. Banks, Cornell University, Ithaca, N. Y.

The primary xylem and phloem in Callixylon.  
(Illustrated, 10 min.)

Clisby, Kathryn H., Oberlin College, Oberlin, Ohio.

A preliminary report of fossil pollen of the Pleistocene in Mexico and  
New Mexico.  
(Illustrated, 15 min.)

Traverse, Alfred, Harvard University, Cambridge, Massachusetts.

The Pollen and Spores of the Brandon Lignite.  
(Illustrated, 15 min.)

Andrews, Henry N., Jr., Washington University, St. Louis, Missouri.

A generic index of fossil plant names.  
(10 min.)

Abbott, Maxine L., University of Cincinnati, Cincinnati, Ohio.

Demonstration: A simple Paleobotanical Transfer Technique.  
(5 min.)

Abbott, Maxine L., University of Cincinnati, Cincinnati, Ohio.

Paleozoic "Ferns" in Color.  
(Illustrated, 12 min.)

Business meeting of the Paleobotanical Section.