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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.

THE UNIVERSITY OF ARIZONA
TUCSON, ARIZONA 85721

DEPARTMENT OF GEOCHRONOLOGY

Tucson, Dec. 15 1968

Dear Al:

Dear Colleague:

I dare to turn to you, asking for your help in a very important program. Since June, 1968, I have been engaged in compiling palynological information for a computer program. This project will cover the pre-Quaternary literature in stratigraphic palynology. Information pertaining to this project is enclosed should you be interested in further details.

In order to be at all useful the program must include the information from all published literature. I find that the available literature references are not always complete in spite of the great care taken. To be sure that nothing is omitted, will you please check the enclosed abbreviated list of your publications and return it to me completed with any publications of yours, small or large, which have not been listed. At present I have only those of your papers which appear with an asterisk. If you have any reprints left over or would be willing to supply me with a photocopy of any of your publications it would certainly be a great help.

Our final goal is to make the resulting data and the library available to the palynologic community. Therefore, I believe that your help would prove to be a valuable service to our science.

Sincerely yours,

Gerhard

Gerhard O.W. Kremp
Professor

Hunt Institute for Botanical Documentation

INFORMATION CONCERNING THE COMPUTER PROJECT OF COMPILING
LITERATURE OF PRE-PLEISTOCENE PALYNOLOGY AT
THE UNIVERSITY OF ARIZONA

I have been asked several times to give more details about our project. I hope that this letter will answer everyone's questions.

The compiling project was set up and financed by several major oil companies. We at the University of Arizona are compiling data sheets for this project which contain all pertinent information concerning the literature of pre-Pleistocene stratigraphic palynology. This information will include the name of the author, title of publication, date of publication, complete reference, the types and taxons mentioned in the paper (at this time restricted to dispersed pollen and spores), their taxonomic status, their geologic, geographic and lithographic occurrence and information concerning some other paleontologic data which may be of interest to palynologists.

The compilation will cover all the literature in stratigraphic palynology from the earliest work in 1881, and in all languages, including the Russian. By mid-1970 we hope to have compiled all, or at least the bulk of papers published before 1963, and in 1972 we may have caught up with the complete literature.

Three years after the data sheets of an article are prepared, the compiled information will be available to the interested public.

In addition, as a service to our science, the library which we are building up at the Geochronology Laboratory here at the University of Arizona will be made available to all palynologists. All of the literature which I hope to obtain I would happily make available to you in the form of photocopies at cost, provided that there are no copyright laws against it.

Hunt Institute for Botanical Documentation

Eaton
Fidelity Onion Skin
100% COTTON

December 4, 1968

Dr. G.O.W. Kremp
Geochronology Lab.
University of Arizona
Tucson, Arizona 85721

Dear Gerhard:

Thanks for your comments on Vol. 30, which are being put into effect as I write. The thing should be ready for the printers any day.

We really ought to campaign to wipe out the idea of transliteration altogether, except (possibly) for the citation of authors following taxonomic names. I think what the Russians do is much better--keep all titles in the original alphabet and list them in separate parts of each bibliography. A transliterated title is no good anyway. People who can't read Russian can't use them, and people who can don't need them. So what good are they?

Where we must transliterate, however, I propose in the future to use Library of Congress (but I may secretly deviate a bit--it irks me to read Sauer as Zauer, for example).

Best wishes as ever.

Yours very truly,

Alfred Traverse
Associate Professor of Geology

AT:kwc

Hunt Institute for Botanical Documentation

THE UNIVERSITY OF ARIZONA
TUCSON, ARIZONA 85721

DEPARTMENT OF GEOCHRONOLOGY

Gerhard O. W. Kremp, Professor

November 7, 1968

Dr. Alfred Traverse
Catalogue of Fossil Pollen and Spores
Palynological Laboratories
The Pennsylvania State University
University Park, Pennsylvania 16802

Dear Al,

I'm sorry I have not been able to respond as promptly as you would have liked me to. When I came back from Baton Rouge I found my desk piled so high with problems that it was horrible. Now I have looked carefully through your compilation of Volume 30 and I'm sorry to say I didn't find any mistakes(I believe that it would be better if we found them rather than someone else finding them later).

I have a question about your comments on page VI where you speak about your presentation of the name Gregoreva. I'm aware of a number of different transliterations from the Russian and apparently you have chosen one which is not in accord with that of the Library of Congress. Once one of our colleagues who tried to obtain Russian literature complained bitterly to me that it was hard to get the books from the librarian because he had to rely on the French transliteration as supplied by Van Campo in Pollen et Spores. No one knew how to transliterate it back into the Russian. I think we should avoid a similar situation for the catalogue as we have customers all over the world. Where the language changes the transliteration will also change. I think it would be a good idea to include an appendix in Volume 30 with your transliteration code.

Sincerely yours,

Gerhard

Gerhard O. W. Kremp
Professor

P.S. I've sent for reprints of the Oklahoma Geological Notes paper you asked for. When they come I'll send a copy.

Hunt Institute for Botanical Documentation

October 11, 1968

Dr. Gerhard O.W. Kremp
Geochronology Labs.
University of Arizona
Tucson, Arizona 85721

Dear Gerhard:

Many thanks for the copy of the paper by E. Schulz, which I enclose. I hope you approve of the way it was handled in Vol. 29.

See you in Baton Rouge.

Yours very truly,

Alfred Traverse
Editor
Catalog of Fossil Spores and Pollen

AT:kwc

Enclosure: Schulz paper

Hunt Institute for Botanical Documentation

October 10, 1968

Dr. G.O.W. Kremp
Geochronology Lab.
University of Arizona
Tucson, Arizona 85721

Dear Gerhard:

Under separate cover we have mailed to you your review copy of Vol. 30 of the Catalog. Inasmuch as we are now in the basis of putting the volumes out for printing only after all review is complete, I am hoping that you can complete your study of the volumes as promptly as possible. Let's try to shoot for 1 November.

As I have previously explained, there is no reason to return the review copy. However, if you wish to tear certain pages out on which you have red penciled comments and mail those pages to us, that would be quite acceptable.

I need hardly say how much we appreciate your efforts in carefully reviewing the volumes--the quality of the Catalog depends to a large extent on this sort of assistance from the members of the Editorial Committee.

Best wishes.

Yours very truly,

Alfred Traverse
Editor
Catalog of Fossil Spores and Pollen

AT:kwc

Hunt Institute for Botanical Documentation

October 2, 1968

Dr. Gerhard O.W. Kremp
Geochronology Lab.
University of Arizona
Tucson, Arizona 85721

Dear Gerhard:

Enclosed is the copy of the proposal Bill says that you requested. It donsn't really say very much and already Bob Sanders and I have, in the one month the project has been going, moved considerably beyond the proposal.

It would be good to talk with you in Baton Rouge. Finding time will be something of a problem, I suppose, because of the duties I have as secretary-treasurer of the AASP. It looks as if practically every minute of the 2 1/2 days in Louisiana is planned for something. I should think that you, Bob Sanders, and I could surely find an hour sometime during the thing to get together, however. Let's hope so. I arrive on Wed. afternoon, but there is an executive committee meeting almost immediately.

Looking forward to seeing you, I am

Yours very truly,

Alfred Traverse
Associate Professor of Geology

AT:kwc

Enclosure: proposal

Hunt Institute for Botanical Documentation

THE UNIVERSITY OF ARIZONA
TUCSON, ARIZONA 85721
School of Earth Sciences
~~GEOCHRONOLOGY LABORATORIES~~
Department of Geochronology

24 June 1968

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

Dear Al:

I could not answer your letter of March 20 earlier because I did not have anything definite to tell you. However now things have finally cleared up. A few weeks ago I received a signed contract from four major oil companies. The contracts provide for me to compile data sheets in stratigraphic palynology which will be used for mechanical data retrieval by computer. There are approximately 2,700 papers published in Stratigraphic Palynology before the year 1967, and I have now started on the collection and compilation of these papers. I expect that provisions will be made in future years to keep the project up to date.

I think that a project like this is extremely important for our science. It will keep it from deterioration through taxonomic chaos. It will also of course be beneficial to us individually, because it will cause the Catalogue of Fossil Pollen and Spores to have an even greater importance. Similarily, I think that it is vital to computerize all the branches of micropaleo.

Please write and tell me in detail what you are doing. I am sure that we can cooperate and work together in such a way that we, and our science, will benefit greatly.

Sincerely yours,

Gerhard

GOWK:cbm

Gerhard O. W. Kremp
Professor

Hunt Institute for Botanical Documentation

June 14, 1968

Dr. G.O.W. Kremp
Geochronology Lab.
University of Arizona
Tucson, Arizona 85721

Dear Gerhard:

Thanks for the much appreciated review of Vol. 29. Your custom of returning only the pp. on which you have pencilled corrections (preferably in red as you have been doing) is good--we don't keep the proof copies anyway.

We certainly are glad that you caught the mistakes in stratigraphy and so forth. Changes have been made on the formats.

Our best judgment is to leave Jahrgang as that rather than to use "vol." It isn't inaccurate, and we have so many pp. to change in this volume, because you are quite right, we "blew it" on Geol. Jb. and must correct 98 pp. as a result. I could have cried. But I was very grateful that you caught the mistake rather than to have it go out wrong.

Best regards as always.

Yours very truly,

Alfred Traverse
Editor
Catalog of Fossil Spores and Pollen

AT:kwc

cc: W. Spackman
H.T. Ames

Hunt Institute for Botanical Documentation

Dear Al.

In a hurry I send back to you, what I found on corrections. Hope you can still meet your deadline. It was a very tough time of the year for me and I found no time earlier to work on volume 29 than yesterday.

Sincerely Gerhard

Felix & H.O.W. Kremp Correspondence

May 31. 68

COMPILERS' PREFACE

Volume 29 of the *Catalog of Fossil Spores and Pollen* presents descriptive materials for new taxa from seven papers on Mesozoic and Cenozoic spores, pollen and certain other microfossils. Geographically, Central Europe is the primary focus. Stratigraphically, most of the materials are of Lower and Middle Mesozoic age. Fifty-two generic descriptions are presented, as well as protolog materials for 151 specific and infraspecific taxa, and two redescriptions at the specific level.

Although some doubts have been expressed as to whether the paper by Schulz, 1965, was effectively published, the U.S. Geological Survey library informed us that the article was indeed published as we have presented it and appears to meet all requirements for publication of the International Code of Botanical Nomenclature. Schulz noted in an addendum to his paper that some of the new names are homonyms and synonyms. This apparently invalidates the names in question, under provisions of Article 34 of the International Code of Botanical Nomenclature. However, following long-standing practice of the *Catalog*, the facts are presented for potential monographers to use. The *Catalog's* sole criterion remains effective publication--even though it could be argued that this gives currency to invalid names. Schulz's 1965 paper also caused some difficulties because the article was printed by a mimeographic or multilithic process on a poor grade of paper, with the result that our quality of reproduction is not up to usual *Catalog* standards. The illustrations presented for this paper are also not of first-grade quality, inasmuch as we did not obtain the original plates.

good.

I conversed with him 1969 publication "Sporen palaeontologische Untersuchungen mäßig gut Sichtbar Schichten im Zechsteins des Germanischen

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Species name: *Triancoraesporites communis* Schulz (1962)



14



15

Bild 14 u. 15. *Triancoraesporites communis* n. gen. et sp. Präparat Waddekath 7 – 124/5. KTZ *(20,9/107,1)* = Holotypus

Description:

Diagnose: Größe 27—35 μ (Holotypus 30 μ). Zeigt im allgemeinen den gleichen morphologischen Aufbau wie *T. reticulatus*.[1] Unterschiede: Länge der Y-Marke, r nur $^1/_2$—$^2/_3$. Exine glatt.

Locus typicus: Bohrung Waddekath 7
Stratum typicum: Rhät
Stratigraphische Verbreitung: Rhät

Holotypus: Taf. 2. Bild 14 – 15

Author: Schulz, E., 1962, p. 311, pl. 2, figs. 14-15

Reference: Sporenpaläontologische Untersuchungen zur Rhät-Lias-Grenze in Thüringen und der Altmark: Geologie, Jg. 11, no. 3, pp. 308-319, 2 pls., 1 text fig., 1 tab.

Type locality: Germany, western Altmark, N of Diesdorf, Waddekath no. 7 borehole

Type horizon: Jurassic, Lias α ~~Triassic, Rhaetian~~

Preparation: Not indicated

Repository: Palynological collection, Zentrales Geologisches Institut (Z.G.I.), Berlin
Holotype: Pl. 2, figs. 14-15, prep. no. Waddekath 7-124/5, KTZ (20.9/107.1)

[1] [See *Triancoraesporites reticulatus*, Catalog 29-141.]

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Author: Schulz, E., 1962, p. 309, pl. 1, figs. 1-2 Vol 1,

Reference: Sporenpaläontologische Untersuchungen zur Rhät-Lias-Grenze in Thüringen und der Altmark: Geologie, Jg. 11, no. 3, pp. 308-319, 2 pls., 1 text fig., 1 tab.

Type locality: Germany, Möckern 1E borehole [...im ehemaligen Land Sachsen-Anhalt, östlich Magdeburg/Elbe.][2]

Type horizon: Triassic, Rhaetian

Preparation: Not indicated

Repository: Palynological collection, Zentrales Geologisches Institut (Z.G.I.), Berlin

Holotype: Pl. 1, figs. 1-2, prep. no. Möckern 1E-10184/1, KTZ (7.0/97.6)

[1][Bracketed information derived from generic description.]

[2][Supplementary information supplied by E. Schulz in letter to A. Traverse, 18-IX-67.]

TYPE SPECIES OF THE GENUS
(Monotypic in Schulz, 1962, p. 309)

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Species name: *Ephedripites tortuosus* Mädler (1964)



17

Fig. 17 *Ephedripites tortuosus* n. sp., Holotypus;
M 300/I, 19,8 : 119,3, TK-Nr 3159

Description:

Diagnose: Eine Art der Gattung *Ephedripites* mit 8—9 Rippen, die linksspiralig gedreht sind.

Beschreibung: Der länglich-ovale Pollen hat 8—9 spiralig gedrehte, flache Rippen, die nur wenig über die Kontur hinausgehen. Die Ränder der Rippen sind dunkler als ihr mittlerer Teil, ohne eine ausgesprochene Mittellinie zu haben. Die längste Achse beträgt 53 μ, die kürzeste 26 μ. Die Rippen sind in der Mitte des Pollens 6 μ breit. Eine dehiszenzartige Spalte ist nicht sichtbar.

Bemerkungen: Solche Pollenformen, welche an die der rezenten Gattung *Ephedra* erinnern, wurden bisher noch nicht allzuhäufig beobachtet. KRUTZSCH (1961) hat die bis jetzt bekannten Funde zusammengestellt. Im Tertiär sind sie in manchen Gebieten ziemlich häufig, in der Kreide schon selten, aber auch aus der Trias werden einige Formen angegeben, besonders aus der unteren Trias von Kanada. Aus dem Jura scheinen noch keine Funde vorzuliegen bzw. wurden sie nicht erkannt wie z. B. REISSINGER 1950, Taf. 12, Fig. 5 aus dem Lias α von Altdorf bei Nürnberg; ein Pollen, mit 58 μ größer als unser Exemplar, der aber ebenfalls spiralig gedreht ist.

Botanische Zugehörigkeit: Sehr wahrscheinlich Ephedraceae.

Locus typicus: Bohrung Thurau 1

Stratum typicum: Lias α 1

Holotypus: Taf. 3, Fig. 17; M 300/I, 19,8 : 119,3, 53 μ; TK-Nr. 3159

Author: Mädler, K., 1964a, p. 194, pl. 3, fig. 17

Reference: Bemerkenswerte Sporenformen aus dem Keuper und unteren Lias: Fortschr. Geol. Rheinland u. Westfalen, vol. 12, pp. 169-200, 3 pls., 1 tab.

Type locality: Germany, Woltersdorf sheet 3033, Tharau 1 borehole

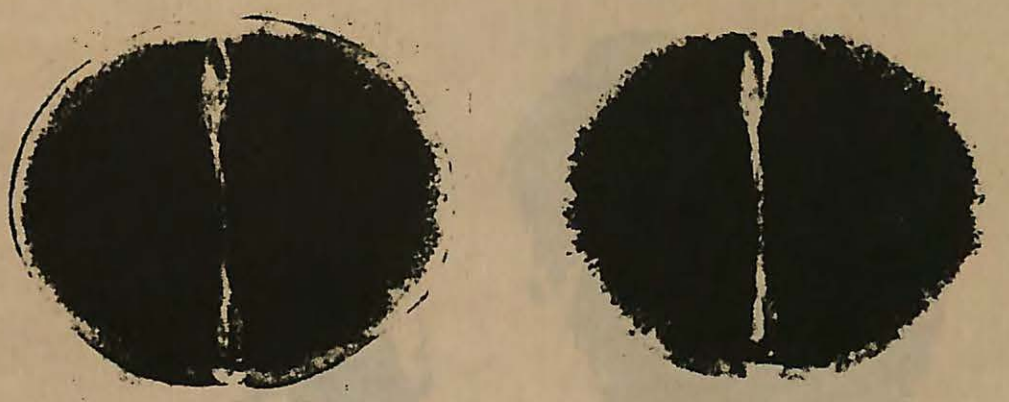
Type horizon: Jurassic, Lias α

Preparation: HF method, Schulze sol., dilute KOH, fuchsin stain, glycerin jelly mounts

Repository: Micropaleontological type collection of the [Bundesanstalt für Bodenforschung and the] Niedersächsisches Landesamt für Bodenforschung, Hannover
Holotype: Pl. 3, fig. 17, prep. M300/I, TK-Nr. 3159

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Species name: *Alisporites microreticulatus* Reinhardt (1964)



5 6

Fig. 5–6 ***Alisporites microreticulatus*** **n. sp., Präp.-Nr. 54/210 R 9,7–4,5, Unteres Röt, Göschwitz bei Jena, 50 x [1]**

Description:

Diagnose: Formart von *Alisporites*, Besonderheiten: Gesamtlänge zu Breite 1,1 bis 1,2. Keimfurche schmal. Sacci mit englumigem Infrareticulum, Lumen enger 0,6 µm. Länge 95–125 µm.
Von *„Vesicaspora" maxima* HART 1960 scheidet *A. microreticulatus* ein englumigeres Reticulum der Sacci.
Derivatio nominis: Lumina des Reticulums kleiner 1 µm im Durchmesser.
Holotypus: Exemplar zu Taf. 2 Fig. 5–6. Locus typicus: Tongrube des Zementwerkes Göschwitz in Thüringen. Stratum typicum: Unterer Röt.

Author: Reinhardt, P., 1964, p. 54, pl. 2, figs. 5-6
Reference: Über die Sporae dispersae der Thüringer Trias: Monatsberichte Deut. Akad. Wiss. Berlin, vol. 6, no. 1, pp. 46-56, 2 pls., 5 text figs.
Type locality: Germany, Thüringen, Göschwitz cement plant, clay pit
Type horizon: Triassic, lower Röt
Preparation: Not indicated
Repository: Geol. Inst. Bergakad. Freiberg
Holotype: Pl. 2, figs. 5-6, prep. no. 54/210 R9.7-4.5

[1] [The magnification given apparently should be 500X.]

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Species name: *Aratrisporites crassitectatus* Reinhardt (1964)



4 8

Fig. 4 *Aratrisporites crassitectatus* n. sp., Präp.-Nr. 27—42/2 (Tuschering) Unterer Keuper, Ingersleben in Thüringen, 1000 ×

Fig. 8 *Aratrisporites crassitectatus* n. sp., Tetrade, Präp.-Nr. 27—42/6 (Tuschering) Unterer Keuper, Ingersleben in Thüringen, 1000 ×

Description:

Diagnose: Art von *Aratrisporites*, Besonderheiten: Dehiszensmarke kräftig, Exine punctat. Zonabreite ca. $^1/_8$ des Durchmessers des Zentralkörpers an der schmalen Seite. Länge 40–50 µm.
Beziehungen: *Aratrisporites scabratus* KLAUS 1960 unterscheidet sich durch die dünne Dehiszensmarke und die Größe.

Holotypus: Exemplar zu Taf. 1, Fig. 4. Locus typicus: Ufer der Apfelstädt bei Ingersleben. Stratum typicum: Unterer Keuper.

Author: Reinhardt, P., 1964, p. 54, pl. 1, figs. 4, 8

Reference: Über die Sporae dispersae der Thüringer Trias: Monatsberichte Deut. Akad. Wiss. Berlin, vol. 6, no. 1, pp. 46-56, 2 pls., 5 text figs.

Type locality: Germany, Thüringen, bank of the Apfelstädt near Ingersleben

Type horizon: Triassic, lower Keuper

Preparation: Not indicated

Repository: Geol. Inst. Bergakad. Freiberg
Holotype: Pl. 1, fig. 4, prep. no. 27-42/2

Hunt Institute for Botanical Documentation

Species name: *Aequitriradites inaequalis* Mädler (1964)



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Fig. 11 *Aequitriradites inaequalis* n. sp., Holotypus; M 317, EK 14, TK-Nr. 3153

Description:

Diagnose: Eine Art der Gattung *Aequitriradites* mit ungleichmäßig breiter Zona. Exine und Zona infragranulat.

Beschreibung: Der ziemlich dickwandige, fast kreisrunde Sporenkörper besitzt einen Durchmesser von 45—48 μ. Die geraden Y-Strahlen verlaufen bis in die Mitte der ungleichmäßig breiten Zona, deren Breite von 5—12 μ schwankt. Sie greift 2—6 μ auf den Sporenkörper über. Der größte Gesamtdurchmesser beträgt 68 μ. Exine und Zona sind infragranulat.

Bemerkungen: Die groben Körner auf der Spore sind Verunreinigungen. Die Infragranulierung ist am besten auf der Zona zu erkennen. Das von REINHARDT (1961, S. 709, Taf. 2, Fig. 3) als *Aequitriradites? rhaeticus*[1] bezeichnete Exemplar, das zwar vom gleichen Fundort stammt, scheint nicht zu dieser Gattung zu gehören, da die Y-Strahlen, nach der Abbildung zu urteilen, nicht bis auf die Zona gehen. Dagegen stimmen die von ROGALSKA (1956, Taf. 31, Fig. 23) als *„Zonales-sporites"* aus dem Lias *a* von Polen abgebildeten Exemplare auch in der ungleichbreiten Zona mit unserem völlig überein. Somit kann die Eigenschaft der schwankenden Zonabreite als ein Artmerkmal angesehen werden.

Locus typicus: Kammerbruch am Großen Seeberg bei Gotha

Stratum typicum: Oberrhät

Holotypus: Taf. 3, Fig. 11; M 317, EK 14, 68 μ (einschl. Zona); TK-Nr. 3153

Author: Mädler, K., 1964a, p. 191, pl. 3, fig. 11

Reference: Bemerkenswerte Sporenformen aus dem Keuper und unteren Lias: Fortschr. Geol. Rheinland u. Westfalen, vol. 12, pp. 169-200, 3 pls., 1 tab.

Type locality: Germany, Thüringen, Grossen Seeberg near Gotha, quarry

Type horizon: Triassic, upper Rhaetian.

Preparation: HF method, Schulze sol., dilute KOH, fuchsin stain, glycerin jelly mounts

Repository: Micropaleontological type collection of the [Bundesanstalt für Bodenforschung and the] Niedersächsisches Landesamt für Bodenforschung, Hannover

Holotype: Pl. 3, fig. 11, prep. M317, EK14, TK-Nr. 3153

[1] [See *Aequitriradites ? rhaeticus*, Catalog 24-77.]

Grosser Seeberg = Grossen Seeberg

[is correct German — compare also 29-134 etc.]

Hunt Institute for Botanical Documentation

Species name: *Labiipollis mesozoicus* Mädler (1964)



15

Fig. 15. *Labiipollis mesozoicus* n. sp.
M 753/III, 14,3 : 124,6; TK-Nr. 4883, Holotypus

Description:

Diagnose: Länglich-ovale Pollenkörner mit dünner und glatter oder schwach infrapunktater Exine. Die in der Längsachse den Colpus begleitenden, vom Pollenkörper abgesetzten Falten in der Mitte einander genähert oder überlappt. Colpus in der ganzen Länge fast gleich breit, an den äquatorialen Enden nicht ganz von den Falten verdeckt, die demnach etwa halbmondförmig sind. Größenbereich um 40 μ.

Beschreibung: Der Holotypus mißt in der Längsachse 39 μ, in der Breite 25 μ. Die höchstens 1 μ dicke Exine ist im Umriß völlig glatt. Durch dunklere Färbung sich vom Körper abhebende lippenförmige Falten sind ungleich breit: in der Mitte, wo sie sich etwas überlappen, am breitesten, nach den Enden spitz zulaufend. Der von den Falten zum größten Teil verdeckte Colpus ist in der Mitte 11 μ breit und verschmälert sich an den Enden nur geringfügig auf 8 μ.

Bemerkungen: Da von der Art bis jetzt nur der Holotypus vorliegt, sind geringe Abweichungen möglich.

Vorkommen: Diese Formen tauchen in Mitteleuropa bereits im Oberen Buntsandstein auf, sind aber dort noch selten und schlecht erhalten. Auch im Unteren Keuper sind sie noch nicht häufig, haben aber im Rhät größeren Anteil an der Flora.

Holotypus: Taf. 12, Fig. 15; Präp. M 753/III; 14,3 : 124,6; 39 μ.
TK-Nr. 4883.

[Diagnose: Monocolpate, länglich-ovale oder runde Pollenkörner, bei denen die über dem Colpus eingeschlagenen Exinenfalten parallel zur Längsachse deutlich abgesetzt sind. Reste einer monoleten Marke sind höchstens noch im ontogenetischen Frühstadium vorhanden.

Genotypus: *Labiipollis mesozoicus* n. sp.][1]

does this last line need "an uplift" on it's right side, or is only my copy uneven?

Hunt Institute for Botanical Documentation

Beiheffe

Author: Mädler, K., 1964, p. 78, pl. 5, figs. 13-20

Reference: Die geologische Verbreitung von Sporen und Pollen in der Deutschen Trias: Geol. Jb., no. 65, 147 pp., 12 pls., 1 text fig., 3 tabs.

Type locality: Germany, Thüringen, near Jena, Göschwitz cement plant quarry

Type horizon: Triassic, lower Muschelkalk

Preparation: 30, 50 and 20 g. samples of Röt, Muschelkalk and Keuper respectively, treated with HCL, 40% HF (2 days), Schulze sol. (2 days), fine clay removed by repeated distilled H_2O washes, dilute KOH, fuchsin stain, glycerin jelly mounts

Repository: [Micropaleontological] type collection of the Bundesanstalt für Bodenforschung and the Niedersächsisches Landesamt für Bodenforschung, Hannover

Holotype: Pl. 5, fig. 13, prep. M313, grid 2D1, TK-Nr. 4759

[1] [See *Aequitriradites dubius*, Catalog 4-30.]

Beihefte geol. Jb.

Hunt Institute for Botanical Documentation

Species name: *Campenia gigas* Mädler (1963)

Für diese Annahme spricht auch die Tatsache, daß oft mehrere zusammenhängend oder ineinandergerollt vorkommen. In diesem Zustand ist die *Lancettopsis*-Form noch klein, sie wächst erst nach dem Ausschlüpfen zur vollen *Campenia*-Größe heran und rollt sich dann auseinander. Die Membran ist in diesem Zustand noch dünn, erst im Verlauf des weiteren Wachstums verstärkt sie sich bis zu der Dicke des ausgewachsenen Exemplars.

Hier muß auf einen rezenten marinen Planktonten, *Pyrocystis lunula* Schütt (in Paulsen ex Apstein & Brandt 1908, S. 110, Fig. 153—155) hingewiesen werden. Es handelt sich um 120—172 μ große Kugeln (f. *globosa*) deren Inhalt sich mehrfach teilt, bis 8 halbmondförmige Zellen (f. *lunula*) frei werden. Deren Inhalt teilt sich wieder in 1—8 *Gymnodinium*-artige, mit Furchen und Geiseln versehene nackte Zellen. Diese werden frei. Was dann aus ihnen wird, ist unbekannt; man nimmt an, daß sie kopulieren. Demnach liegt ein ziemlich komplizierter Generationswechsel vor, der noch nicht völlig geklärt ist. Wichtig ist für uns das Entstehen von 8 halbmondförmigen Zellen, die den Planktonten verlassen. Sie erinnern an die von Eisenack (1951, 1958 b, S. 391) als *Lunulidia* bezeichnete Form aus dem ordovizischen *Dictyonema*-Schiefer.

Genotypus: *Campenia gigas* n. g., n. sp.][1]

Author: Mädler, K., 1963, p. 350, pl. 26, figs. 1-6, pl. 27, figs. 1-4.

Reference: Die figurierten organischen Bestandteile der Posidonienschiefer: Geol. Jb., no. 58, pp. 287-405, pls. 15-30, 4 text figs., 3 tabs.

Type locality: Germany, Heiligendorf sheet 3630, Forstort Campen near Braunschweig

Type horizon: Jurassic, Lias ε, Posidonienschiefer

Preparation: H_2O wash, Schulze sol. (24-48 hrs.), NaOH (1-2 hrs.), HF (1-2 days), HCL (1-3 hrs.), NaOH (a few min.) (each treatment sometimes repeated if required), fuchsin stain, glycerin jelly mounts

Repository: [Micropaleontological] type collection of the Bundesanstalt für Bodenforschung and the Niedersächsisches Landesamt für Bodenforschung, Hannover

Holotype: Pl. 26, fig. 1, prep. M366, grid 1A1, TK-Nr. 3650

[1] [Bracketed information derived from generic description.]

TYPE SPECIES OF THE GENUS

Should read: Beihefte geol. Jb.

[the Geol. Jb. is a completely different series!]

Hunt Institute for Botanical Documentation

May 6, 1968

Dr. G.O.W. Kremp
Geochronology Labs.
University of Arizona
Tucson, Arizona 85721

Dear Gerhard:

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

Hunt Institute for Botanical Documentation

April 9, 1968

Dr. Gerhard O.W. Kremp
Geochronology Labs.
University of Arizona
Tucson, Arizona 85721

Dear Gerhard:

Your letter about Schulz's paper worries me somewhat. However, we had developed the information that the paper which was assigned to Vol. 29 (about which we corresponded previously) was officially published. The library of the Geological Survey in Washington helped us in developing the information in question. With some trepidation, therefore, I went ahead and put the taxa from that paper in Vol. 29, which you should be getting in proof form any day now. Perhaps it would be desirable for you to loan me the publication you mention in your letter of 5 April, or send me a verifax copy of it, so that we can check out this perplexing question.

By the way, did you ever get my letter about the shocking news of Dr. Erdtman's refusal to allow us to republish from Grana Palynologica. I would very much like to have your latest news about this--will you write him?

Missed you at the AASP meeting in Dallas. A lot of your friends were there. Best regards to Eva.

Yours very truly,

Alfred Traverse
Editor
Catalog of Fossil Spores and Pollen

AT:kwc

Hunt Institute for Botanical Documentation

THE UNIVERSITY OF ARIZONA
TUCSON, ARIZONA 85721

Department of Geochronology

5 April 1968

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

Dear Al:

I have just received a publication from Eberhard Schulz called "Sporenpaläontologische Untersuchungen rätoliassischer Schichten im Zentralteil des Germanischen Beckens." It is part of the publication Paläontologische Abhandlungen, Part B; 1967; pp. 426-633. I wonder if this might be the printed version of the paper you were wondering about a little while ago. On page 2, it says that this work was accepted by the mathematical - science faculty of the Martin Luther University of Halle - Wittenberg as a dissertation.

What have you done with the old paper from Eberhard Schulz? Maybe this one should be a substitute for it.

Please give me your reaction about this. If you want the publication, I will send it to you. With best regards.

Yours truly,

Gerhard

GOWK:cbm

Gerhard O. W. Kremp
Professor

Hunt Institute for Botanical Documentation

March 20, 1968

Dr. Gerhard O.W. Kremp
Geochronology Lab.
University of Arizona
Tucson, Arizona 85721

Dear Gerhard:

You probably have heard by grapevine about the efforts of various microplaeontological people to get a national apparatus setup for the coding and storage of data on all phases of micropaleo. The central storage place would probably be the American Museum in New York. Harry Cousminer has, therefore, been acting as the general chairman of the group. We have been approached to be the palynological wing of this group.

The grapevine has also told me that you are involved in some sort of similar project. It would be good to hear what it involves and to what extent there could be cooperation instead of competition. The palynological meetings in Dallas would have been a possible place, but I recall that you had decided not to attend. Perhaps you have changed your mind in the interim. If so, try to reserve a couple of hours to talk with me about this and other matters.

Yours very truly,

Alfred Traverse
Associate Professor of Geology

AT:kwc

Hunt Institute for Botanical Documentation

March 13, 1968

Dr. G.O.W. Kremp
Geochronology Lab.
University of Arizona
Tucson, Arizona 85721

Dear Gerhard:

Dr. Erdtman has "thrown a curve" at us--see enclosed copy of letter from him. This is obviously not in his interest either: authors will shy away from sending him their papers. And we don't want the whole papers--just new specific descriptions. I wonder if you would undertake to write him urging him to change his mind? His letter was a jolt--first such the Catalog ever got! Would you let me have a copy of the letter you send? (Presuming you are willing)--and of his response.

Yours very truly,

Alfred Traverse
Editor
Catalog of Fossil Spores and Pollen

AT:kwc

cc: H.T. Ames
Enclosure: copy of Erdtman-Ames letter

Hunt Institute for Botanical Documentation

February 28, 1968

Dr. Gerhard OLW. Kremp
Geochronology Lab.
University of Arizona
Tucson, Arizona 85721

Dear Gerhard:

Thank you for your phone call this morning. Tate and I have been conferring since then about what to do regarding your comments. The difficulty with doing anything really major is that we are very near the point of going to press and changes at this point would involve rephotographing or patching of the existing negatives. In the future I hope to get the proof copy sent to you much further ahead of time than was the case with this volume.

The comments you have made certainly will be useful to us in compilation of future volumes. Among other things, we will certainly be on the lookout for botched Latin.

With reference to your comments about bibliographic citations of the papers quoted by Malyavkina: we feel that the difficulty may have been that the bibliography to Vol. 28 was inadvertently omitted from the proof copy. At least, we now discovered that there were no bibliographies put in the copies sent to Jim Schopf and Bob Kosanke. The papers by Sauer, etc., are in the bibliography to Vol. 28.

With reference to the disagreement of gender to which you have called attention: some of these are apparently O.K. For example, *Podocarpus* should be feminine, and I believe an argument can be made that *Abiecedripites* should be considered a tree and therefore feminine. On the other hand, you are quite right about the mess regarding *Triletes* and *Lygodium*. We feel that the only thing we can do about this at this stage is to add a paragraph to the compilers' preface calling attention to it and, as I say, to be on the lookout for this sort of thing in the future.

Hunt Institute for Botanical Documentation

Thank you very much for your help.

Yours very truly,

Alfred Traverse
Editor
Catalog of Fossil Spores and Pollen

AT:kwc

Hunt Institute for Botanical Documentation

Notes from phone call.
G.O.W. Krempf &
A. Thomas
26-V-68

Malyanthus —

Give full reference for
Sauvé work, etc. —

52
59
65
68
84
94
104
109
112
115
116
128
129
134
136
142

Harris: Tubules etc. must be masc.
arcolatus

Dyksterhuis: Tubules must be
masculine —
be male in
Neuter

Malyanthus: all spp. in feminine

Adenolepis should be masculine

Hunt Institute for Botanical Documentation

104 - 106, 109

Lygodium — forms
should be forms

122, 123 - 24 - 26

Podocarpus neglecta

— ites shoulder
1 masculine

p. 52 — one fem.
otherwise
(72) - gen 5
masculine

Hunt Institute for Botanical Documentation

THE UNIVERSITY OF ARIZONA
TUCSON, ARIZONA 85721
~~GEOCHRONOLOGY LABORATORIES~~
Department of Geochronology

February 13,'68

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

Dear Al:

This note is to inform you that Vol. 26 and the binder of Vol. 21 arrived safely. Thank you very much.

Sincerely yours,

Gerhard

Gerhard O. W. Kremp
Professor

GOWK:sck

Hunt Institute for Botanical Documentation

THE UNIVERSITY OF ARIZONA
TUCSON, ARIZONA 85721

~~GEOCHRONOLOGY LABORATORIES~~
Department of Geochronology

2 January 1968

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

Dear Al:

A few weeks ago I received Volume 27 of the Catalog of Fossil Spores and Pollen. It looks fine to me and I hope that everyone else will agree with my opinion.

I have not, however, received Volume 26; and the binder for Volume 21 is missing. I would appreciate it if you could send me both of these items. Also I very urgently need the reference for Volume 26 for a bibliography. Could you please send it to me on a postcard immediately?

Yours truly,

Gerhard

Gerhard O. W. Kremp
Professor

GOWK:cbm

Hunt Institute for Botanical Documentation

Dr. Gerhard O.W. Kremp
Geochronology Lab.
University of Arizona
Tucson, Arizona 85721

Dear Gerhard:

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

Hunt Institute for Botanical Documentation

October 31, 1967

Dr. Gerhard Kremp
Geochronology Labs.
University of Arizona
Tucson, Arizona 85721

Dear Gerhard:

For reasons which I am unable to understand, our very carefully prepared photocopy of 2 of the publications we borrowed from you for use in Volume 29 of the Catalog have begun to turn brown. Most of this material now cannot be used in the preparation of formats, and we may have to replace some of the photocopying that has already been fastened on to formats. I hate to ask you this, but I wonder if you would send us immediately on very short-term loan your copy of the 2 publications so that we could take another crack at photocopying. I promise you that we will have the publications back to you within a copple of weeks. The papers are:

1. Schulz, E., Sporae dispersae aus der Trias von Thüringen, Abhandlungen, Zentrales Geologisches Institut, Berlin Heft 1, S. 257-287, XX-XXIII pls. 1 abb. u. 1 tab., 1965.

2. Die figurierten organischen Bestandteile der Posidonienschiefer, Von Karl Mädler, Beih. geol Jb., 58, S. 287-406,,4 abb., 3 Tab., 16 Taf., Hannover/Dezember 1963.

We have been having more than the usual number of annoying delays in publication lately. Perhpps now that Halloween is over, things will prodeed normally again.

Verybbest wishes.

Yours very truly,

Alfred Traverse, Editor
Catalog of Fossil Spores and Pollen

Hunt Institute for Botanical Documentation

THE UNIVERSITY OF ARIZONA
TUCSON, ARIZONA 85721

Department of Geochronology

14 September 1967

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

Dear Al:

Thank you very much for your letter of July 28, and the very interesting information concerning your computer ideas which you included in it. Our secretary sent a photocopy of this letter to me in Mexico, from where I have just returned.

I had written to you already, from Mexico, but somehow I got the wrong idea that your meeting with the NFS people would be in connection with the A.I.B.S. meeting at the Texas A & M University. I went there and hoped to be able to see you and talk to you personally, but this did not materialize.

So I would like to tell you in a quick letter now that I am in the middle of a trial for a number of oil companies, and am attempting to bring information about stratigraphic palynology onto the computer tape. As you perhaps know, I have worked already several years in order to convince people to put the vast amount of literature on computer tape and fooled around with a number of projects in this direction. The compiling job can, without a doubt, only be handled by modern data processing. It seems that now the time is ripe and that more people are willing to spend money on it.

I realize that this enterprise should have an ultimate goal of making available for the American scientists all the information which has been gathered since more than 100 years in palyntology or, if you want, in Earth Sciences and in the Biological Sciences.

Since the computer provides the means of allowing many people to use many systems at the same time for compiling data, and eventually reshuffels them to fit every need, I would believe that this vast task should be undertaken by many persons with a common goal in mind.

Hunt Institute for Botanical Documentation

In our two cases, it may even be possible to have a much closer cooperation. Having this in mind, I am writing this letter. I hope that as soon as it is convenient, you would let me know what happened at the meeting with the NFS people. According to this outcome, maybe we can see possibilities for both of us to pull in the same direction.

With the very best wishes to you and everyone in Penn State,

Sincerely yours,

Gerhard

Gerhard O. W. Kremp
Professor

GOWK:cbm

Hunt Institute for Botanical Documentation

THE UNIVERSITY OF ARIZONA
TUCSON, ARIZONA 85721

GEOCHRONOLOGY LABORATORIES

May 22, 1967

Dr. Alfred Traverse
Pennsylvania State University
University Park
Pennsylvania

Vol 31

Dear Dr. Traverse:

I am sending you herewith a photocopy of a letter just received from Dr. de Jersey. When acknowledging his letter I told him that his 1959 and 1962 papers appeared in volume 26.

932

Under separate cover I send you two papers from de Jersey which you may substitute for the "tut-tut" paper from Reinhardt.

May I remind you that I have the plates from Pocock, 1962. We had originally reserved this paper for volume 26. Pocock knows this and sent to me his original photos at my request. I think we must either use his paper very soon, in the next volume, and explain the delay to him, or should send back his original photos. I think it is not proper to keep his photos here for several years without doing anything with them.

Vol 31

Very truly yours

G. O. W. Kremp, Professor

k/j

Hunt Institute for Botanical Documentation

CATALOG OF FOSSIL SPORES AND POLLEN

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



THE
INTERNATIONAL COMPENDIUM
OF
PALYNOLOGICAL SYSTEMATICS

July 28, 1967

Dr. Gerhard O.W. Kremp
Professor of Geology
Geochronology Laboratories
University of Arizona
Tucson, Arizona 85721

Dear Gerhard:

Your letter of 23 June arrived here while I was in the field with a graduate student, Doug Nichols, in Texas. Bill Spackman and Jane Dolsen somehow gathered your letter up with theirs when they left for Florida, and I only today have received it back. Quite a well travelled letter!

I am very pleased that you will continue to remain associated with us at least for some time to come.

I am carrying on some discussions with some representatives of the National Science Foundation and American Geological Institute regarding possible computerization of the information which the Catalog republishes. There will be a further conference on this matter sometime after the first of September, and I will try to remember to send you some sort of memorandum about how all of that comes out.

The illustrations from Stan Pocock arrived during my absence, and Tate Ames had them in his possession, but for some reason did not know that he had them. I have now taken steps to see that the illustrations are halftoned, and they should be returned to Pocock within a couple of weeks.

Very best wishes to you and to your family and thanks again for your reassurance.

Yours very truly,

Alfred Traverse
Editor
Catalog of Fossil Spores and Pollen

AT:kaw

Hunt Institute for Botanical Documentation

CATALOG OF FOSSIL SPORES AND POLLEN

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



THE
INTERNATIONAL COMPENDIUM
OF
PALYNOLOGICAL SYSTEMATICS

June 23, 1967

Dr. G.O.W. Kremp
Geochronology Laboratories
University of Arizona
Tucson, Arizona 85721

Dear Gerhard:

I enclose herewith your copy of Mädler's 1964 paper you lent us for inclusion in Volume 29 of the Catalog. I am going in the field in a couple of days, but I have left firm orders with Tate to see to it that the other Triassic papers are photocopied and returned to you before the end of June, as I well remember your saying that you had need of them soon. The text is no problem, but half-toning the plates is--we have to get into line with the various other projects and wait our turn.

Naturally, I am expecting to hear from you about the Pocock plates, which you mentioned in yours of 22 May. As I wrote earlier, I would like to have them here, have them half-toned, and return the originals to Pocock, if you are agreeable. I would promise action in a month or so.

Yours very truly,

Alfred Traverse
Editor
Catalog of Fossil Spores and Pollen

AT:kaw

Hunt Institute for Botanical Documentation

THE UNIVERSITY OF ARIZONA
TUCSON, ARIZONA 85721

GEOCHRONOLOGY LABORATORIES

23 June 1967

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

Dear Al:

Thank you very much for sending me "Palynology of the Surface Sediments of Great Bahama Bank, etc." by you and Ginsburg. This is a very interesting and elucidating paper for use in teaching and also it will give many a palynologist some facts to think about.

Pocock's illustrations are in the mail and should be received by you promptly.

It is very far from my intention to take any step that would in any way weaken the Catalog of Fossil Pollen and Spores or interfere with its development. I consider it a most important work. It was my idea that since I am so far away and communication is more difficult and causes delays, it would be better to give you a free hand to work the volumes out at your own speed, using your own good judgment, free from any cumbersome collaboration. I got the idea that perhaps that was what Dr. Spackman had in mind.

Such a decision is anyway a couple of years away. Nobody needs to be aware of the proposed change at this time, except us. We have plenty of time to consider what is best. These two years will also give you experience and assurance in working with the material to be included and with the complications of the business end of the enterprise. Any decision that is made will be in line with what seems best for the development of the Catalog.

Bill Spackman's thoughts on the whole matter will be appreciated.

Very truly yours,

Gerhard

GOWK:cbm

Gerhard O. W. Kremp
Professor

Hunt Institute for Botanical Documentation

June 2, 1967

Dr. Gerhard O.W. Kremp
Geochronology Laboratories
University of Arizona
Tucson, Arizona 85721

Dear Gerhard:

Thanks for the photocopy of de Jersey's letter. It looks as if we are working on all of his suggestions!

I am returning the two de Jersey papers herewith for the reason that we have them available here, and you may need them. I am hopeful that we can have the other Triassic material back to you within a couple of weeks too.

Thanks for the info about Pocock's illustrations. Will you send me the photos so that I can have the half-tone negatives made? I then can return the photos directly to Pocock. The paper should be covered in Volume 31, which is slated to come out in Jan.-Feb., 1968. I agree with you that it is wrong to keep that sort of thing for long periods of time without taking action.

Thank you for yourccontinued help.

Yours very truly,

Alfred Traverse
Editor
Catalog of Fossil Spores and Pollen

AT:kaw

Hunt Institute for Botanical Documentation

June 1, 1967

Dr. G.O.W. Kremp
Geochronology Laboratories
University of Arizona
Tucson, Arizona 85721

Dear Gerhard:

The copy of your recent letter to Bill Spackman came on Monday of this week. I was disturbed to hear about your plans to resign as an editor. We were coasting along assuming that the various new arrangements were all right by you. Naturally, I was looking forward to having help from you in the form of planning some volumes and looking critically at all volumes as they appear in "format form". However, it would be desirable to have you formally associated with the Catalog on a permanent basis, whether or not you are able to do any work.

I do hope you will reconsider your decision and agree to go on being listed as an editor. Beginning with Volume 28, we had proposed to list the editors on the spine as "Traverse, Ames, Kremp & Spackman", in recognition of the different distribution of duties that now applies. For my part, I would be willing to have alphabetical listing. Bill, however, feels this would be undesirable. What do you think?

I do hope that my characteristic brusqueness has not been a factor in your decision. I feel sure that we can work together.

With best wishes,

Yours very truly,

Alfred Traverse
Associate Professor of Geology

AT:kaw

Hunt Institute for Botanical Documentation

Al.

THE UNIVERSITY OF ARIZONA
TUCSON, ARIZONA 85721

GEOCHRONOLOGY LABORATORIES

C.A. 25, May 1967

Dr. William Spackman
University Park
Pennsylvania

Dear Bill:

After having fooled around as long as I have with the Catalog, I think it is time I made a decision on the happier side. I heard from Al that you were feeling that you should resign from volume 30. Traverse told me in Utrecht nine months ago. He mentioned it only after I had told him that I was thinking that now that he is taking over the Catalog in such a competent way I should drop out as co-editor because the whole running of the business would be much easier if he had the total responsibility. I have no doubt that Traverse is able to do the job. When I made the proposal to him his reaction was that I should wait to make such a decision until he was really on his feet.

I think the proper time has come. I am convinced that Al's position in Penn State is permanent and for that reason the future of the Catalog is assured. I have talked the matter over with Ted Smiley and he feels that perhaps the same time that you retire would be the proper time for me to retire also.

It goes without saying that I shall continue to do all that I can to be of help. I think, however, that Al should have the responsibility and should be the only editor.

I would like to take this opportunity to thank you for what you have done for the Catalog, for your friendly courtesies to me throughout the years. I know from many comments how important the Catalog has been already to many palynologists and I am happy and proud that I had the opportunity, thanks to your initiative, to work on this very important project.

Very truly yours

G. Kremp

G. O. W. Kremp, Professor

k/j

Hunt Institute for Botanical Documentation

May 10, 1967

Dr. Gerhard O.W. Kremp
Geochronology Laboratories
University of Arizona
Tucson, Arizona 85721

Dear Gerhard:

Just finished my final review of 27--found something like 200 errors, most of which were of the small variety (Zetzsche spelled Zetche, Roman numerals written incorrectly, and the like), a few somewhat more serious. Bill Spackman will now have a look at it, and then Tate and Dorothy Hubiczak, his helper, will make the corrections. If only we could cut down the flood of little mistakes our productivity could be greatly increased. I have taken some steps that seem to help--a style guide, an approved list of abbreviations not to be deviated from, and the like. But I am still looking for more shortcuts and improvements.

By the way- the reason there were only 133 pp. in 27 is that many of the page units were three, or even four, pages long.

Thanks for the Mississippian help. I agree with you completely that it would be better and more appropriate to say Lower Carboniferous and Upper Carboniferous for European material. I'll advise Tate to operate accordingly on the Zerndt papers.

What to do about *Tasmanites* et al is difficult. My motive for leaning toward including some of them is that *Tasmanites* etc. are found in palynological preparations quite commonly and I think it increases the usefulness of the Catalog to have them represented to some extent. I would have no intention of getting into hystrichosphaerids, dinoflagellates and the like. Let Eisenack cover them. As it stands, Spackman, Jim Schopf and I for inclusion, you and Tate against, of those asked. If we include some of them in Volume 29, from Mädler, I do not feel that we are therefore committed to covering great blocks of such material.

Hunt Institute for Botanical Documentation

Fidelity Onion Skin
100% COTTON

Volume 29 is practically blocked out with your kind assistance. Volume 30 will consist entirely of Samoilovitch. Part of Volume 31 will also be Samoilovitch. So, as I believe I said in an earlier letter, we would appreciate it if you could start pulling Volume 32 together--for Feb., 1968.

Greetings as ever.

Yours very truly,

Alfred Traverse
Editor
Catalog ~~of Fossil~~ Spores and Pollen

AT:kaw

Eckerch
Hunt Institute for Botanical Documentation

May 3, 1967

Dr. Gerhard Kremp
Geochronology Laboratories
University of Arizona
Tucson, Arizona

Dear Gerhard:

I enclose the copy of paper by Reinhardt. For the rather amusing reason that the paper has already been covered by the Catalog (Vol. 24!), we do not need to keep it. Tut, tut..

Yours as ever,

Alfred Traverse
Editor
Catalog of Fossil Spores and Pollen

AT:kaw

Enclosure

Hunt Institute for Botanical Documentation

THE UNIVERSITY OF ARIZONA
TUCSON, ARIZONA 85721

GEOCHRONOLOGY LABORATORIES

3 May 1967

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

Dear Al:

Please find enclosed a copy of one page of Sullivan's 1965 paper on pollen and spores in which a time correlation of the Mississippian can be found. You may have noted it anyway but I wanted to make sure that you understood why I have in the correction of Zerndt's papers designated Namurian A as Mississippian. Thinking it over I wonder if it is really a good idea to use for European sediments age designations like Mississippian and Pennsylvanian instead of Lower and Upper Carboniferous. Really nobody knows where the Pennsylvanian starts in relation to the Upper Carboniferous and where the Upper Carboniferous ends in relation to the Pennsylvanian. It may be best to use the European time scale, Upper and Lower Carboniferous, for European sites.

In you letter of April 25 you ask me about my advice at to whether the catalog should include such palynomorphs as Tasmanites, Tytthodiscus, etc. My thought would be to not include them. Of course it might be argued that these are spores and therefore belong in the Catalog. This is probably still a valid argument when you decided to take in megaspores. The megaspores, so far as I am concerned, are just on the borderline. As you can see from the enclosed charts concerning the development of pre-Pleistocene palynology, we have now about 14,000 newly described species of pollen and spores. That means if our Catalog really caught up with the literature as we planned to, we should now be publishing volume 90. Achieving our original goal will be tough enough without bringing in things not originally contemplated.

However, it might be possible to put out a "Series B" to include palynomorphs other than spores of higher plants.

I am sorry that I misunderstood your plans concerning Vol. 29. I will answer this question in detail another time.

Sincerely yours,

Gerhard

Gerhard O. W. Kremp
Professor

GOWK:cbm
enclosures

Hunt Institute for Botanical Documentation

HACQUEBARD and BARSS (1957) had suggested that there must have been a differentiation of Upper Mississippian floras to explain why their assemblage from a coal in the Mattson Formation of the Northwest Territories of Canada was more closely related to the spore floras described from western Russia by LUBER and WALTZ (1938) than to those from the Hardinsburg Formation of the eastern United States reported by HOFFMEISTER, STAPLIN and MALLOY (1955).

In this paper, it is proposed to discuss the composition of all known Upper Mississippian spore assemblages on a regional basis, and to attempt to explain the differences which exist among them. Much of the information has been obtained from published sources, but some new data have also been included from northern England,

TABLE 1.

Subdivisions of Mississippian sequences of Europe, Russia and North America.

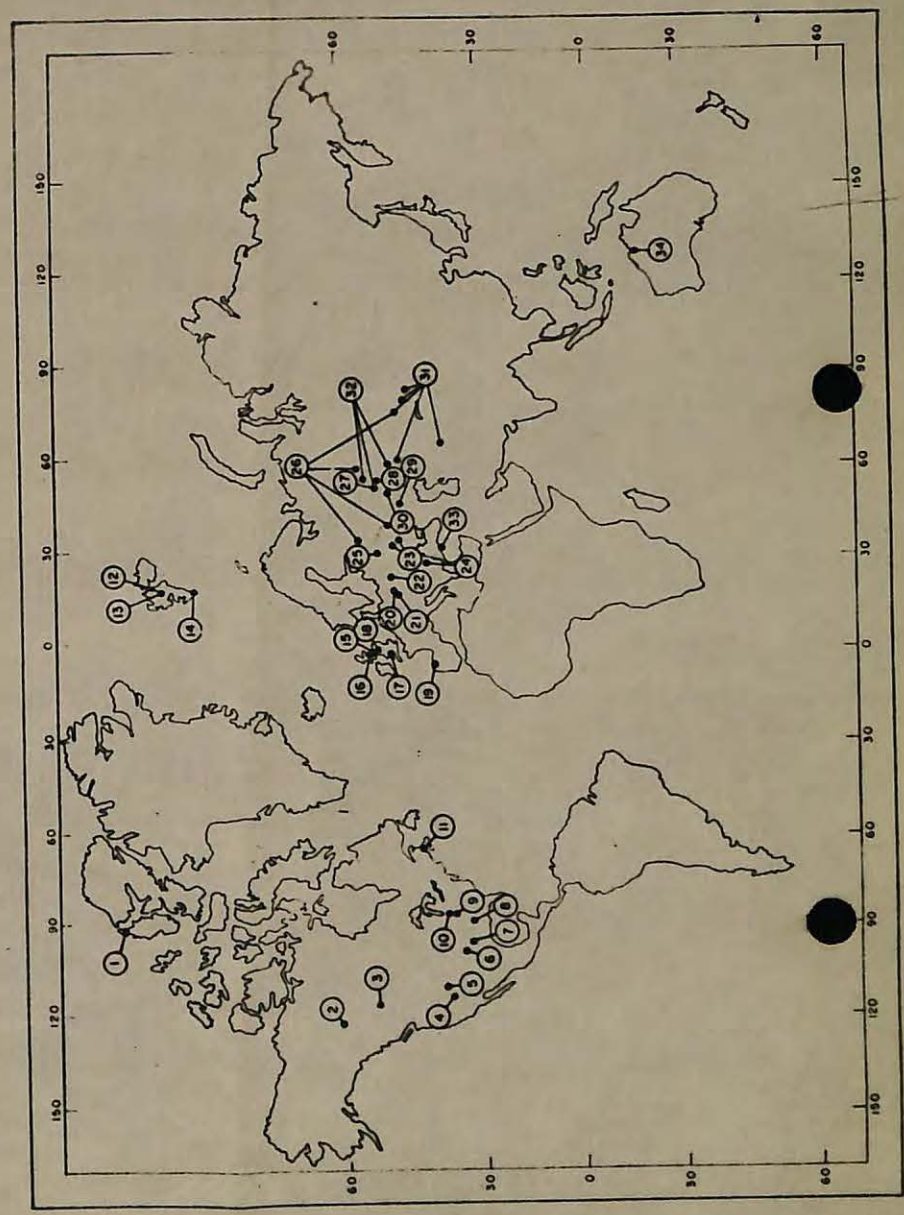
EUROPE			RUSSIA		NORTH AMERICA		
Namurian A			Lower Carboniferous	'Namurian	Mississippian	Upper	Chester
Lower Carboniferous	Dinantian	Viséan		Viséan			Meramec
		Tournaisian		Tournaisian		Lower	Osage
							Kinderhook

the mid-continent area of the United States, and the Northwest Territories of Canada. The locations of the spore assemblages are shown in text-figure 1.

FIGURE 1.

The locations of the Upper Mississippian spore floras referred to in the text. The assemblages are identified numerically as follows : 1. — PLAYFORD and BARSS (1963) ; 2. — HACQUEBARD and BARSS (1957), present paper ; 3. — STAPLIN (1960) ; 4. — WIGGINS (1961) ; 5. — SCHEMEL (1950) ; 6. — present paper ; 7. — WILSON (1959) ; 8. — present paper ; 9. — HOFFMEISTER, STAPLIN and MALLOY (1955) ; 10. — KOSANKE (1964) ; 11. — M. S. BARSS (personal communication) ; 12. — HUGHES and PLAYFORD (1961), PLAYFORD (1962, 1963) ; 13. — BHARADWAJ and VENKATACHALA (1962) ; 14. — BIRKENMAJER and TURNAU (1962) ; 15. — RAISTRICK (1938), present paper ; 16. — KNOX (1948), BUTTERWORTH and WILLIAMS (1958), LOVE (1960), LELE and PROVAN (1962), SULLIVAN and MARSHALL (1966) ; 17. — SULLIVAN (1964) ; 18. — NEVES (1961) ; 19. — NEVES (1964) ; 20. — ZAKOWA and JACHOWICZ (1963) ; 21. — HORST (1955), DYBOVA and JACHOWICZ (1957), KRUSZEWSKA (1963) ; 22. — JACHOWICZ (1964) ; 23. — ISHCHENKO (1956, 1958) ; 24. — VENKATACHALA and BEJU (1962), BEJU (1964) ; 25. — KEDO (1957, 1958, 1959) ; 26. — LUBER and WALTZ (1938, 1941) ; 27. — BLUDOROV and TUZOVA (1956) ; 28. — VALLIULINA and CHERNOMORSKY (1961) ; 29. — LOGINOVA (1959) ; 30. — BYVSHEVA (1957) ; 31. — LUBER (1955) ; 32. — BYVSHEVA (1960) ; 33. — AGRALI (1963, 1964) ; 34. — VENKATACHALA (1964).

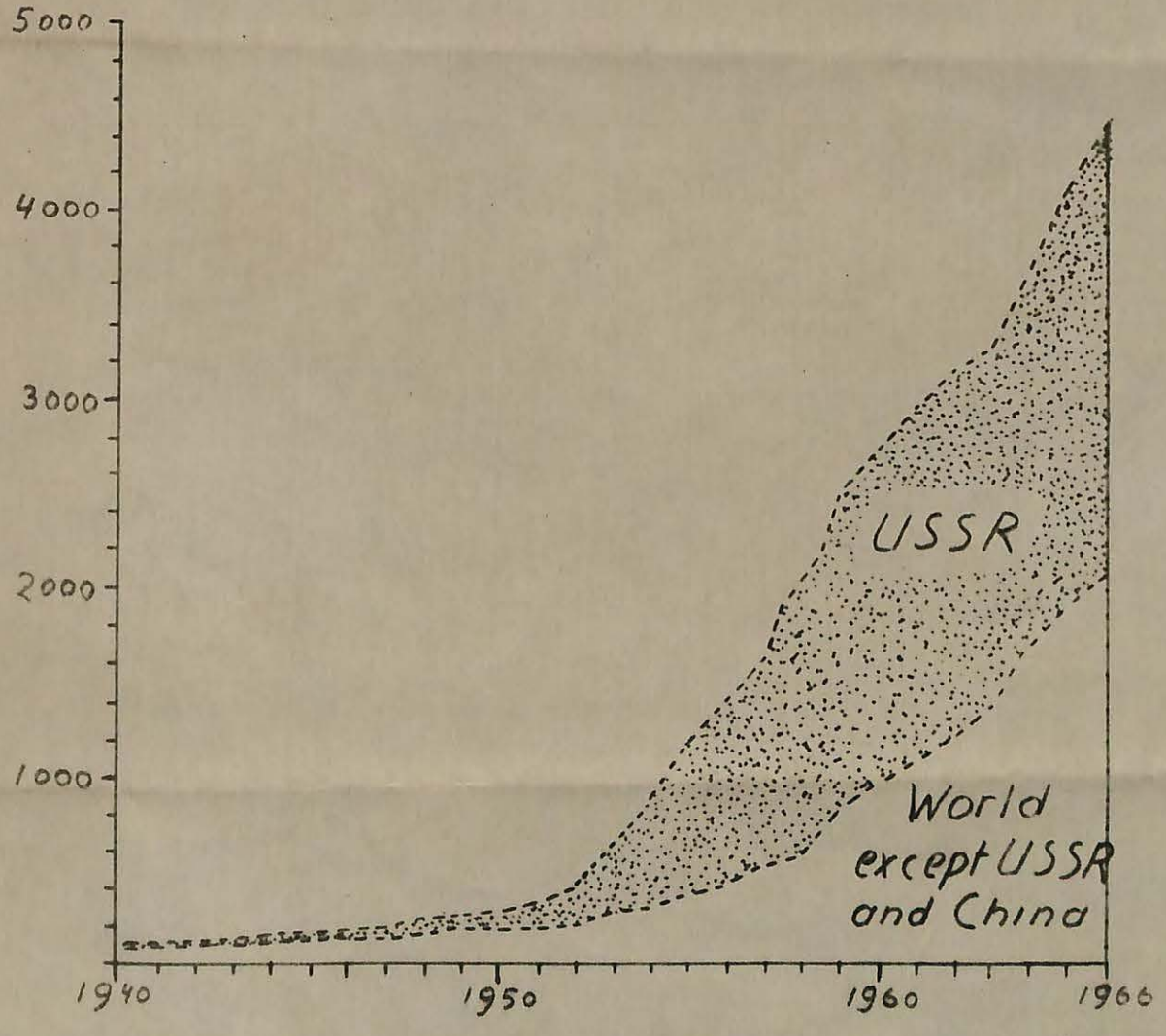
Although the term « Upper Mississippian » is used to define the stratigraphical limits of the spore floras considered in this paper,



the ages of the rocks in any given area are still referred to the system of classification generally applied in that region. The strati-

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Pollen et Spores Vol. 7 No. 3 p. 539-563



PROLIFERATION OF PUBLICATIONS IN PRE-PLEISTOCENE PALYNOLOGY
Cumulative totals.

Hunt Institute for Botanical Documentation

Slide 5

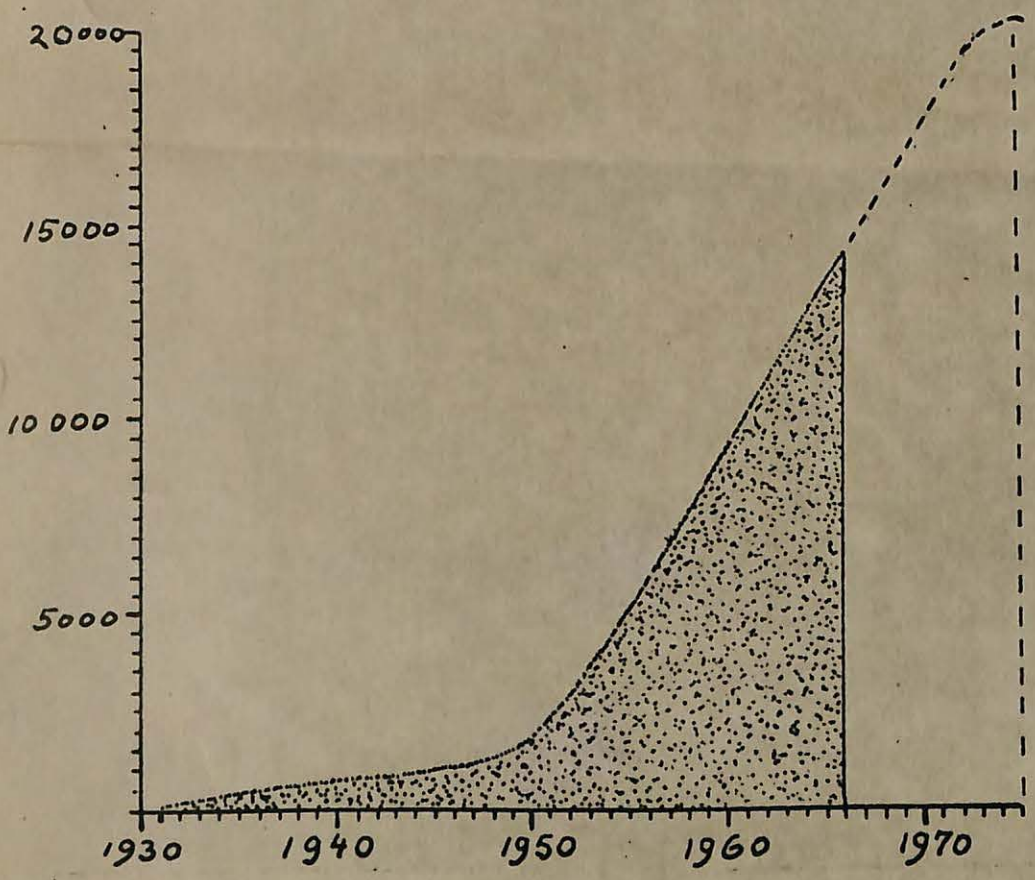


Fig 3

NEW NAMES FOR SPORE DISCOVERIES, DOUBLED AND REDOUBLED.
CUMULATIVE TOTALS

Hunt Institute for Botanical Documentation

AIR MAIL May 1, 1967

Dr. G.O.W. Kremp
Geochronology Laboratories
University of Arizona
Tucson, Arizona

Dear Gerhard:

Thank you for yours of 24 April and for the additional batch of papers, both of which arrived today. The comments on 27 are much appreciated and very useful. I would like still more! I think we'll put the additional material from Zerndt directly on the pages rather than in an appendix. My experience as a long time user of CFSP is that the material in appendices is effectively lost. I returnhherewith the "Schlüssel"-we have made a photocopy.

Speaking of Zerndt--yes, by all means try to get the rare megaspore material from your friend in Germany. We'll incorporate it definitely.

I believe that the quality of the reproduction is satisfactory in the papers that you sent, except for Schulz--and I gather that you are getting the originals from him. Tate was a little dubious about the paper from Schulz that was multilithed instead of printed and had the literature reference changed in pen (by you?) from Mitteilungen to Abhandlungen, etc. Can we count on the paper that we have being the final form, or is it some sort of preprint?

I read Schulz's letter with interest--seldom have seen an author so apologetic about his species. It will be interesting to have his comments when they come.

We should have no trouble getting the papers back to you as you suggest--by the endoof June. We are starting right in on them. I remember the student who is working on Triassic. Good luck to him.

Vol. 30 will consist exclusively of Samoilovich, as previously explained. Vol. 31 will pick up the rest of Samoilovich, plus 120 or so other

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things. Perhaps we had better say that the next volume for you to plan is 32, and with that much warning we would appreciate it if you could send us as much as possible in the way of "workup"--footnotes, etc.

Best wishes as ever.

Yours very truly,

Alfred Traverse
Editor
Catalog of Fossil Spores and Pollen

AT:kaw

Enclosure: "Schlüssel"

Hunt Institute for Botanical Documentation

THE UNIVERSITY OF ARIZONA
TUCSON, ARIZONA 85721

GEOCHRONOLOGY LABORATORIES

April 24, 1967

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

Dear Al:

On Thursday I promised to send you as soon as possible my comments on Volume 27. Here they are. Zerndt, J., 1940, Megasporen des Saarkarbons & Paläontographica,

1. Complete literature cited on Page 27-6 is: Abh. B, vol. 84, p. 133-150. Stuttgart.

2. On page 27-10 the reference should be: Dijkstra, S. J. and P. H. van Vierssen Trip. (1946): Eine monographische...

3. Page 27-123. (Lagenicula agnina) You say that the type horizon is not indicated. This seems to be right for the 1934 paper. However, in 1944 Zerndt established a distribution table which gives more information on the geological age. The table apparently was not published and was only prepared for the German Geological Survey. It was war time, and as you probably know, Zerndt was killed just after the war. It might be, perhaps, a good idea if you would, in an appendix, add these few pages of the table to Volume 27. It certainly would serve a very important purpose as probably very few except me still have this list available. I am enclosing it to you. Since you may have trouble to understand everything, I have made a quick excerpt detailing the information concerning the megaspores which are treated in Volume 27 of the Catalog.

Lagenicula agnina, Type 34: Type Horizon; Uppermost Mississippian, Namurian A, Lower part of the Randgruppe (Dinantian), Flora Schichten. Type Locality, Eastern part of the Upper Silesian Coal Basin, Poland.

L. angulata, Type 7: The same as Type 34, but also found in the Grodziecer Schichten, Randgruppe, Namurian A. (See p. 4 of table.)

L. crassiculata, Type 26A: Occurs from the Kulm to Lower Flora Schichten.

L. simplex, Type 35: Occurs Flora Schichten and Grodziecer Schichten.

L. Splendida, Type 28: Flora Schichten.

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Sporites echinospinosus. No type number indicated in 1944 paper, but the locality, Mine Doroto, indicates that this species must also have been found in the Flora Schichten.

Triletes bennholdi, Type 33: Flora Schichten.

T. fulgens, Type 8: Flora Schichten and Godziciecer Schichten.

T. parviapiculatus: No information available here.

T. radiatus, Type 22: Kulm (Dinantian), Flora Schichten.

Concerning Volume 29, I am ~~enclosing~~ sending by extra mail the following:

1. Sporae dispersae aus dem Rhät Thüringens, P. Reinhardt. (1961)
2. Über die Sporae dispersae der Thüringer Trias, P. Reinhardt (1964)
3. Echinitosporites iliacoides nov. fgen. et fsp., eine neue Sporenform aus dem Keuper der Niederlausitz, Schulz & Krutzsch, (1961)
4. Sporenpaläontologische Untersuchungen zur Rhät-Lias-Grenze in Thüringen und der Altmark, Schulz (1962).
5. Sporen und Pollen aus dem Mittleren Buntsandstein des germanischen Beckens, Schulz (1964).
6. Sporae dispersae aus der Trias von Thüringen, Schulz (1965).
7. The Spore-Pollen Flore of the Hungarian "Kossen Facies", Venkatachala and Goczan (1964).

These seven papers together with the three papers from Mädler should add up to 150 new descriptions.

I have not written to ask for publishing permission from Venkatachala, etc. or to any of the journals.

Schulz says in his letter, "When I send to you the original photos I will give some more comments about the species." It might be possible to obtain original photos from Reinhart and from Venkatachala and Goczan. You indicated to me in our conversation in San Francisco that you would be happy to undertake this necessary correspondence, I am relying upon you.

I am enclosing for your information copies of my correspondence with Mädler and Schulz. If you should wish to continue megaspore descriptions I might be able to get the older literature of Zerndt which may be almost impossible to obtain anywhere, from a friend in Germany. Since he is retired, it would be well to get this material as soon as possible if you wish to continue the megaspore descriptions.

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You are no doubt aware that I have only 133 pages in my copy of Volume 27 of the Catalog. Was this the end? // answered

I am enclosing a copy of my letter to Schulz for your information.

Hoping my comments will be helpful to you, I am

Sincerely yours

Gerhard

G. O. W. KREMP, Professor

k/j

Another thing, would it be possible to have the papers back by the end of June? I have a student working on Triassic microflora assemblages in Arizona, and he needs these papers very badly for his thesis.

G.

Hunt Institute for Botanical Documentation

THE UNIVERSITY OF ARIZONA
TUCSON, ARIZONA 85721

GEOCHRONOLOGY LABORATORIES

April 24, 1967

Dr. E. Schulz
Berlin (Germany)
Stedingerweg 40

Dear Dr. Schulz:

I have sent the papers immediately to Pennsylvania State University to Dr. Traverse, my co-editor, for incorporation in Catalog Vol. 29.

Very truly yours

COPY

G. O. W. KREMP, Professor

k/j
cc to Dr. Traverse

Hunt Institute for Botanical Documentation

DEUTSCHE DEMOKRATISCHE REPUBLIK
Zentrales Geologisches Institut
Wissenschaftlich-technisches Zentrum der
VVB Geologische Forschung und Erkundung

DDR 104 Berlin, Invalidenstraße
Fernruf 220
Datum: 16.3.1967

Sehr geehrter Herr Prof. Dr. Kremp!

Wir bestatigen den Eingang Ihres Schreibens vom 8. Februar 1967 und bedanken uns vielmals dafür.
Die von Ihnen gewünschten drei Publikationen sind bereits abgeschickt worden. In der Publikation "Sporenpaläontologische Untersuchungen zur Rhät - Lias - Grenze in Thüringen und der Altmark" sind 6 Arten und 1 Unterart, davon 5 Gattungen neu. Die 5. Gattung ist bereits Synonym. Die Publikation "Sporae dispersae aus der Trias von Thuringen" enthalt 11 neue Arten, davon 5 Gattungen neu. In der in Ihrem Schreiben als "c" bezeichnete Publikation "Echinitosporites iliacoides nov. fgen. et. fsp., eine neue Sporenform aus dem Keuper der Niederlausitz" handelt es sich um die Beschreibung einer monotypischen Gattung; Sie enthält also nur eine neue Art.
Insgesamt sind also in diesen drei Arbeiten 19 neue Arten enthalten. Von diesen sind 6 Arten vermutlich jüngere Synonyme, da jeweils kurz vor dem Erscheinen meiner Arbeiten Publikationen anderer Autoren erschienen sind. Es läßt sich natürlich heute noch nicht genau sagen, ob es sich tatsächlich um Synonyme handelt, da zum Vergleich mancher Arten die Originalpräparate oder zumindest die Originalfotos notwendig sind. Ich wollte dies nur anführen, da ich nicht weiß, ob Sie diese fraglichen Arten noch in Ihrem Catalog abbilden wollen. Wenn ich die Originalfotos schicke, gehe ich noch näher auf jene fraglichen Arten ein.
Bereits im Jahr 1965 hatte ich Ihnen meine Publikation "Sporen und Pollen aus dem Mittleren Buntsandstein des germanischen Beckens - Mber. Dt. Akad. Wissensch. 6, 8, S. 597 - 606, 2 Taf., Berlin 1964" geschickt. In dieser Arbeit wurden 4 neue Arten beschrieben. Die Originalfotos davon schicke ich zusammen mit den anderen.

Mit den besten Grüßen

Ihr sehr ergebener

E. Schulz
(E. Schulz)

Hunt Institute for Botanical Documentation

Dr. Karl Mädler in der
BUNDESANSTALT FÜR BODENFORSCHUNG

A.Z.: Mäd./Jaq. -
Bei Antwort bitte angeben

3 Hannover-Buchholz, den 20. Febr. 196
Alfred Bentz-Haus
Postfach 54
Fernruf: Sammelnummer 0 46 81 - Durchwahlnummer: 64 68
Telegramme: Bundboden
Fernschreiber: 9 23 730

Herrn
Dr. G. O. W. K r e m p
University of Arizona
Geochronology Laboratories

T u c s o n , Arizona 85721

Sehr geehrter Herr Kremp!

Besten Dank für Ihr freundliches Schreiben vom 6. d. M.. Ich stelle Ihnen meine Arbeiten für Ihren Katalog gern zur Verfügung. Wenn Sie Originalfotos benötigen, müßte ich erst neue Kopien anfertigen lassen. Bei der Überlastung unseres Fotolabors ist dafür jedoch etwas Zeit erforderlich. Damit Sie aber schon disponieren können, nenne ich Ihnen zunächst die Anzahl der neuen Arten:

In 1964a: 25 neue Gattungen und 80 neue Arten, behandelt 97 Arten

In 1964b: 11 neue Gattungen und 29 neue Arten

Ich werde Ihnen diese Arbeiten mit gewöhnlicher Post übersenden, außerdem eine 1963 erschienene, bisher allerdings nur als Sonderdruck vorliegende Arbeit: "Die figurierten organischen Bestandteile der Posidonienschiefer". Darin sind 7 neue Gattungen und 19 neue Arten beschrieben, die meisten jedoch aus der Gruppe der Tasmanales und Leiosphaeridiales, die aber im weiteren Sinn auch zu den "Sporomorphen" gehören. Ich würde empfehlen, diese auch in Ihren Katalog aufzunehmen. Es wird darin die neue Klasse Hystrichophyta mit einem neuen

- 2 -

Hunt Institute for Botanical Documentation

System aufgestellt. Von Pollen wird nur Classopollis ausführlich abgehandelt und eine neue Art beschrieben.

Wie behandeln Sie Emendationen und Neu-Kombinationen? Wenn Sie diese auch aus meinen Arbeiten berücksichtigen wollen, würden wir wohl auf 150 Arten kommen.

Ich würde mich freuen, wieder von Ihnen zu hören und verbleibe

mit besten Grüßen

Ihr

K. Müller

Hunt Institute for Botanical Documentation

April 25, 1967

Dr. G.O.W. Kremp
Geochronology Laboratories
University of Arizona
Tucson, Arizona 85721

Dear Gerhard:

We look forward to receiving your review of vol. 27 in what should be--judging from your card of 20 April--a few days.

Regarding the material for Vol. 29 (the Mädler papers): we had expected that your contribution would include the general design of the volume--the selection of which taxa would be included, the assignment of materials to individual pages with appropriate editorial comment, footnoting, etc. I agree that the exact numbers of the pages is fluid until later on, but the designer of the volume could be expected to prepare the "reference materials" and so forth.

Under the circumstances of limited time, Tate and I are going ahead with the design of Vol. 29, which will include the Mädler papers, as well as some taxa from Samoilovich (1961) to complete the volume. May we suggest that the papers from Schulz be combined with the other Triassic material you have (or even non-Triassic Mesozoic) for vol. 31 and ask that you do the sort of design, assembly of reference materials, and so forth discussed above?

While we have your attention, may we pose a question that urgently needs your advice for vol. 29: What do you think we should do about Tasmanites, Tyttlodiscus, etc? We have steered clear in the past of "non-pollen", but did you think we should include these? It would involve some departure from past policy. Will Dr. Eisenack's Catalog eventually cover Tasmanites, et al.? Please comment on these matters as soon as possible.

Naturally, we would also like to have your reaction to our suggestion re vol. 31 too, but that could wait a bit longer.

Hunt Institute for Botanical Documentation

Best wishes, as ever.

Yours very truly,

Alfred Traverse
Editor
Catalog of Fossil Spores and Pollen

AT:kaw

Hunt Institute for Botanical Documentation

April. 20. 64

Dear Al

I am unable to Finish proofreading of vol. 27 to day. Will send you my comments and additions on Monday (or Tuesday) - I hope Think they may be helpful.

Excuse the hurry.

Leonard Kasso

Hunt Institute for Botanical Documentation

April 19. 63

Dear [redacted],

Quick an answer to your April 14 note.
Mädler's paper are thought, indeed, to be for
vol. 29., or don't you like it? I have
avoided page assignments, because I thought
that this is one of the last steps of
the assemblage procedure.

Hope this answers your question.

Best greetings Gerhard Kaempf

Hunt Institute for Botanical Documentation

THE UNIVERSITY OF ARIZONA
TUCSON, ARIZONA 85721

GEOCHRONOLOGY LABORATORIES

10 April 1967

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

Dear Al:

Thank you for your letter dated March 30.

On Friday, April 7, I sent you by registered mail three publications of Dr. K. Maedler, containing 113 new descriptions of pollen and spores from the German Triassic and Jurassic. As you may see from the photocopy of his letter, it is impossible for him to send us the original photos of his illustrations. Therefore, if you possibly can, I hope you will try to make reproductions of the illustrations as they are provided in the papers.

As I remember, you offered to make the layout of the new descriptions yourself in Penn State, and I trust you will have no difficulties with the German. If any do arise, I will help at any step of the procedure.

When I wrote to Dr. Maedler for his publication, I also asked the boys in the Geast German Geological Survey for their contributions to the Triassic Palynology. It took them quite a while to answer. (Neither Dr. Schulz nor Dr. Maedler sent their mail by air.) But, as you see from the enclosed photocopy of Dr. Schulz's letter, the three publications with 19 new descriptions are on the way. I figure they should be here by the end of April. If that is not too late for you, I will wait to receive them. I have some other Triassic stuff sitting on my desk ready to send you and could supply you with it. However, since I had written to the Germans mentioning Volume 29, I would not like to disappoint them.

Very truly yours,

Gerhard

Gerhard O. W. Kremp
Professor

GOWK:cbm

Hunt Institute for Botanical Documentation

Dr. Karl Mädler in der
BUNDESANSTALT FÜR BODENFORSCHUNG

3 Hannover-Buchholz, den 28. Febr. 1967
Alfred-Bentz-Haus
Postfach 54
Fernruf: Sammelnummer 6 46 81 - Durchwahlnummer: 64 68
Telegramme: Bundboden
Fernschreiber: 9 23 730

A.Z. Mäd./Jaq. -
Bei Antwort bitte angeben

Herrn
Dr. G. O. W. K r e m p
University of Arizona
Geochronology Laboratories

T u c s o n , Arizona 85721

Sehr geehrter Herr Kremp!

Besten Dank für Ihr freundliches Schreiben vom 8. d. M.. Ich stelle Ihnen meine Arbeiten für Ihren Katalog gern zur Verfügung. Wenn Sie Originalfotos benötigen, müßte ich erst neue Kopien anfertigen lassen. Bei der Überlastung unseres Fotolabors ist dafür jedoch etwas Zeit erforderlich. Damit Sie aber schon disponieren können, nenne ich Ihnen zunächst die Anzahl der neuen Arten:

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- 2 -

Hunt Institute for Botanical Documentation

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Wie behandeln Sie Emendationen und Neu-Kombinationen? Wenn Sie diese auch aus meinen Arbeiten berücksichtigen wollen, würden wir wohl auf 150 Arten kommen.

Ich würde mich freuen, wieder von Ihnen zu hören und verbleibe

mit besten Grüßen

Ihr

K. Mädler

Hunt Institute for Botanical Documentation

DEUTSCHE DEMOKRATISCHE REPUBLIK
Zentrales Geologisches Institut
Wissenschaftlich-technisches Zentrum der
VVB Geologische Forschung und Erkundung

DDR [illegible] Berlin, Invalidenstraße 44
Fernruf: 22060
Datum 16.3.1967

Sehr geehrter Herr Prof. Dr. Kremp!

Wir bestätigen den Eingang Ihres Schreibens vom 8. Februar 1967 und bedanken uns vielmals dafür.
Die von Ihnen gewünschten drei Publikationen sind bereits abgeschickt worden. In der Publikation "Sporenpaläontologische Untersuchungen zur Rhät - Lias - Grenze in Thüringen und der Altmark" sind 6 Arten und 1 Unterart, davon 5 Gattungen neu. Die 5. Gattung ist bereits Synonym. Die Publikation "Sporae dispersae aus der Trias von Thüringen" enthält 11 neue Arten, davon 5 Gattungen neu. In der in Ihrem Schreiben als "c" bezeichnete Publikation "Echinitosporites iliacoides nov. fgen. et. fsp., eine neue Sporenform aus dem Keuper der Niederlausitz" handelt es sich um die Beschreibung einer monotypischen Gattung; Sie enthält also nur eine neue Art.
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Bereits im Jahr 1965 hatte ich Ihnen meine Publikation "Sporen und Pollen aus dem Mittleren Buntsandstein des germanischen Beckens - Mber. Dt. Akad. Wissensch. 6, 8, S. 597 - 606, 2 Taf., Berlin 1964" geschickt. In dieser Arbeit wurden 4 neue Arten beschrieben. Die Originalfotos davon schicke ich zusammen mit den anderen.

Mit den besten Grüßen

Ihr sehr ergebener

E. Schulz

Hunt Institute for Botanical Documentation

March 30, 1967

Dr. G.O.W. Kremp
Geochronology Laboratories
University of Arizona
Tucson, Arizona 85721

Dear Gerhard:

Just by way of Eastertide greetings and to remind you that one of these weeks we are hoping to get from you the blocked-out form for Volume 29 of the Catalog. Volume 27 is now complete except for editorial revision (as you know, that can take some time), and you should receive the "proof" copy fairly soon. Preparation of formats for Volume 28 begins next Monday, and is scheduled for completion about 1 June.

Greetings to all my friends at Tucson.

Yours very truly,

Alfred Traverse
Editor
Catalog of Fossil Spores and Pollen

AT:kaw

Hunt Institute for Botanical Documentation

THE UNIVERSITY OF ARIZONA
TUCSON, ARIZONA 85721

GEOCHRONOLOGY LABORATORIES

9 January 1967

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

Dear Al:

Just finished "proofreading" Vol. 26, but could not find any mistakes. Congratulations. (I don't have the papers of Pautsch 1958, Lantz 1958, and Hennely 1959, but assume that you did your best there also.)

A few suggestions: Would it be possible to photocopy the original Chinese and Russian titles and to add this somewhere in the back or front of the volume? This would be of special value for foreigners, if they want to order the Russian book from a library. I know that it is very difficult in our country to order a Russian paper through the library if you only know the French transliteration as given in "Pollen et Spores." Transliterations vary from country to country and are not handled uniform even in the States.

Another thing, perhaps for future volumes: Why are we repeating information on the bottom of the pages which is already given in the original text? I am thinking about information concerning the repository. It enlarges our chances of making mistakes, is very time consuming, and - I think - it is not even particularly helpful. Somebody may even think - although I hope not - that we are pedantic.

Also I wonder if Tate should change, in future volumes, the arrangement of the paragraphs, e.g. picking up the first the ДИАГНОЗ or the ОПИСАНИЕ. True, the Russians are very inconsistant, but so what.... Here again "Time is money" and our love for orderly arrangement may only invite mistakes by loosing some paragraphs.

Hoping that every thing is very fine in your cold, cold Pennsylvania and that you and your family had a good Christmas Season, with best regards, also to Bill, Tate and all the gang.

Yours,

Gerhard

Gerhard O. W. Kremp

GOWK:cbm

Hunt Institute for Botanical Documentation

December 1, 1966

Dr. G.O.W. Kremp
Geochronology Lab.
University of Arizona
Tucson, Arizona

Dear Gerhard,

Preparation of formats to Volume 26 is now complete. Accordingly, photo copies of these mats are being forwarded to you under separate cover for your review and comment. Although a limited number of changes were made in contents of Volume 26, I believe you will have all of the required references on hand except, perhaps, Chang, L.C., 1965, (a photocopy of this reference is, therefore, included with the mats.) Except for page numbers de Jersey, 1959, (Queensland Min. Jour. Vol. LX) and de Jersey, 1960, (Queensland Geol. Surv. Pub. 294) are the same publications. If a review of my last letter containing revised contents of Vol. 26 or sheets distributed by A.T. at San Francisco entitled "C.F.S.P. contents vols 26, 27 and 28" indicates that you will need other references please drop me a line and I will see that they are forthcoming.

Preliminary preparation of Volume 27 is also now complete and I expect to see the first formats in the next day or two. Following acceptance by the "A." Committee of plans to copyright and Trademark the C.F.S.P. Reinschospora symbol we are again moving to gain these protections. Volume 26 will be copyrighted and the application for the Trademark prosecuted.

In a spare moment could you please inform Al or myself as to the planned contents of Volume 29. All that we would like is a simple list of the assigned publications identified by author, date, title and source (something less formal, but analogus in detail to that distributed to the "A" Committee).

Best wishes to you and your family for the coming Holiday Season,

H.T. Ames

Hunt Institute for Botanical Documentation

Dear Al:

I am very sorry but I cannot find any address of Pautsch. I have looked through all our files and could not find even a literature reference of him. Can you not write to the journal?
Hoping that my ignorance does not wreck all your confidence in my palynologic knowledge
sincerely
yours

Gerhard Kremp

Hunt Institute for Botanical Documentation

29 Nov., 1966

Dr. Gerhard Kremp
Geochronology Laboratories
University of Arizona
Tucson, Ariz. 85721

Dear Gerhard:

An emergency has just arisen in that I discover that a letter requesting permission to publish never reached M. B. Pautsch--our letter was returned, according to HTA, and he never got around to tracking her down--and then we moved, and.....

Could you send me the address in the enclosed envelope, if you have same? (Wish someone would publish an up-to-date palynological address list.)

Greetings.

Yours very truly,

Alfred Traverse

Eldeck
Fidelity Onion Skin
Location

Hunt Institute for Botanical Documentation

28 Nov., 1966

Dr. G. O. W. Kremp
Geochronology Laboratories
Tumamoc Hill
University of Arizona
Tucson, Arizona 85721

Dear Gerhard:

Good to see you in S. F. I do hope that you got your car and got it safely back to Tucson.

I feel that we will be able to establish a satisfactory modus operandi for the Catalog between us. If we don't, it won't be for lack of trying on my part!

Under separate cover we are sending you a batch of publications that belong to you. HOWEVER, we have looked our eyes out and find no trace of the Pokrovskaya volume that you were mostly interested in. Tate says he is sure that he sent it to you earlier, and it is true that he has been using my copy in connection with the preparation of Volume 26. Are you sure that you didn't get it? Of course, I feel slightly helpless, beaause all of this happened before I had arrived on the scene here.

You gave me some mock-ups for Takahashi 1964 while we were together in S. F. Is this material that you would propose for Volume 29? If so, do you want to make the whole volume Cretaceous? I look forward to getting your design for the volume as soon as you can get around to it. The Takahashi paper would make up about 60 pages of the volume, if that's what you intended.

Regards to your charming wife, with whom I enjoyed talking over the phone in Tucson..

Yours very truly,

AL

Alfred Traverse

Hunt Institute for Botanical Documentation

28 October, 1966

Dr. Gerhard O. W. Kremp
Geochronology Laboratories
University of Arizona
Tucson, Arizona 85721

Dear Gerhard:

Thanks for yours of 21 October, enjoyed as your letters always are.

In line with your most recent suggestion, which sounds fine to me, I have changed my reservation for Tucson from the late afternoon of Wed., 16 Nov., to the morning of Thurs., 17 Nov. This is really better anyway, since I note that a couple of the pollen papers in which I have an interest, especially those of Habib and Margaret Davis, are, to be given late on Wednesday afternoon, and I would otherwise have had to miss them. So, I'll stay over in S. F. until Thursday morning, and that way we can, as you say, spend a quiet evening together on Wednesday, 16 Nov. I am very much looking forward to it.

Under the arrangements I now have, I'll arrive in Tucson via TWA at 11:35 a. m. on Thursday, 17 Nov. I'll have the afternoon and evening of the 17th in Tucson, and will leave for San Antionio on Friday, the 18th, about 8:00 a. m.

I would be glad to give a seminar talk on Thursday afternoon, if that would be acceptable. Title: Sedimentation of Pollen, Based on Study of Marine Sediments.

I have answered the letters re subscription to the Catalog. The letters really were helpful in substantiating the arguments I am making with the dean that we ought to be advanced enough funds to reprint the volumes that are out of print, so that we can fill orders for the whole catalog. Who wants just part of an encyclopedia?

See you in San Francisco, presuming that you don't make it to the coal group field trip in Utah.

Yours very truly,

Alfred M. ----

Hunt Institute for Botanical Documentation

Complete Answer
- Re

THE UNIVERSITY OF ARIZONA
TUCSON, ARIZONA 85721

GEOCHRONOLOGY LABORATORIES

21 October 1966

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

Dear Al:

Let me give you a quick answer to your letter dated October 15.

As it stands now it is probably best we try to arrange a "decent business meeting" at a quiet place in San Francisco on Wednesday evening and after that you leave for Texas via Tucson. I talked yesterday with Paul Martin. He will be here at the time in question and will be very glad to see you.

Paul and I have a small but very fine Palynology class this year. May I air the possibility that you perhaps would be so kind to give a seminar to this group while you are here in Tucson? Your experiences at Shell Oil have given you so much knowledge and material at hand that it should be very easy for you to spare some of these experiences with our group (only I myself feel very sorry that I cannot listen to it). But if your time does not allow it, the seminar need not be held. On the other hand, we certainly could arrange it on a very short notice.

I am enclosing a letter from Mrs. H. A. Martin, School of Biological Sciences, University of New South Wales, and also one from the Texas Western College, El Paso, concerning the CATALOG and would be very happy if you folks would answer both letters as soon as possible.

With the best greetings

Yours,

Gerhard

Gerhard O. W. Kremp
Professor

GOWK:cbm
enclosures: 2

Hunt Institute for Botanical Documentation

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. G.O.W. Kremp
Co-Editor, CFSP
Geochronology Laboratories
University of Arizona
Tucson, Arizona

Dear Gerhard:

As you probably recall, I have mentioned previously that I propose to discontinue Option C (punch-cards) for the Catalog of Fossil Spores and Pollen as one small step toward expeiditng our procedures. Response of the subscribers to a questionnaire has been slow but mostly favorable. Unless I hear strong objections, Option C will be discontinued effective with Volume 26.

See you next month.

Yours very truly,

Alfred Traverse
Editor, Catalog of Fossil Spores and Pollen

AT:le

Hunt Institute for Botanical Documentation

18 October, 1966

Dr. Gerhard O. W. Kremp
Geochronology Laboratories
University of Arizona
Tucson, Arizona

Dear Gerhard:

Yours of the 11th finally came this a. m. The problem apparently is that, though it was correctly addressed within, on the envelope you had "Department of Botany". They kicked it around a while over there before sending it on. It's an interesting slip of the pen, for some would probably believe that that's where I really belong!

On rereading my last letter to you, I note with embarrassment that it is so poorly composed that it will be a miracle if you understand.

The gist of it is that I guess we'll have to do our visiting in San Francisco, unless something happens between now and the meetings to clarify your vehicular problem. I shall hold on to my present reservations to Tucson (to arrive late on the 16th Nov.). If you want and are able to stay in San Francisco after the meetings, I can change my reservation to the 17th and be with you. Or, we can make some other plan depending on what happens to you. In the meantime, let's plan to have a quiet evening in San Francisco--perhaps Monday, the 14th? I am sure we can make whatever adjustments are required after we get together in S. F. Looking forward to it!

Yours very truly,

Al

Alfred Traverse

Hunt Institute for Botanical Documentation

15 October, 1966

Dr. G. O. W. Kremp
Geochronology Laboratory
University of Arizona
Tucson, Arizona

Dear Gerhard:

The letter you said was on the way still hasn't appeared. I hope that's not typical of the way the mails work between thee and me.

I have been sitting with a calendar in my lap trying to carve up the time available some way that would put [redacted] together for a while. The biggest problem is that I'm so short of time. I am definitely going to the pre-meeting field trip, which precludes our getting together then. In order to be back here for my class on Tues., 22 Nov., I must be in Austin by the 18th, 19th at the latest. The only way I can do that is to spend only a couple of days after the meeting in San Francisco in getting to Texas, via Tucson (or however I do it).

I believe that the only reasonable arrangement under the circumstances of uncertainty about your bus, etc., is for me to hold my ticket to San Antonio via Tucson, as now set up. When we get together in San Francisco, we can discuss what the situation is. Perhaps, for example, we could get together on Wed. evening, the 16th, and I could defer my departure for Texas until the following morning.

Let's leave it at that. I'll see you in S. F. I'll have the layout for 26-27-28 for your perusal. I will also have the completed mock-up volume for 26, unless that has by then been already mailed to you.

Best wishes as ever,

Alfred Traverse

Hunt Institute for Botanical Documentation

THE UNIVERSITY OF ARIZONA
TUCSON

GEOCHRONOLOGY LABORATORIES

October 11 1966

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

Dear Al:

Excuse me please that I did not answer your kind letters immediately.Such a pile of backlog work has piled up here during My three month of absence that I yust don't know what to do first.
It is very good to see that,conserning the Catalog,there is blowing now a good fresh wind in State College,and ,you are right,it would be very good if we both would have the opportunity to talk things over, carefully and in a detailed way.
The upcoming meetings in San Fancisco may offer an excellent opportunity. I will be there too as I have to give a joined paper on Wednesday,Nov. 16.
Everything seemed to be fine.I planned to go to San Francisco with our VW-bus and than drive back over Reno,where I have,perhaps for two days,, a research commitment. You could have then gone with me to Tucson in the bus,but...
Trouble is, that this vehicle is not yet here from Europe and even may not yet be available for the San Francisco meetimgs.
I yust got a letter from Rotterdam telling me that the bus will arrive in Long Beach not before Nov. 11.I than have to pick up the vehicle immediately on the dock or pay a fee of $ 30.- or so per day. Well, every thing will be yust wonderful,- if the ship actually arrives on or before Nov. 11 in Long Beach and if the long shore men work on Veterans Day,Friday Nov.11 (they certainly don't work on Saturdays)
Now I must plan things so,that if it appears that I can not get my bus in time,I have made the reservations for Reno for the weekend before the San Francisco meetings or else that I am able to pick up the bus either on the Nov. 14, 15. or after my paper,and manage still to have reserved enough time for you.
Gully, how complicated simple things can become sometimes.I hope to get more information from the shipping company,and in the mean time you may let me know how you would be able to adjust to the various possibilities.
The microphotos arrived safely.I wills send them back to Drs.Palcova and Samoilovich.

With the best greetings
yours

Gerhard

Gerhard O.W.Kremp
Professor

Hunt Institute for Botanical Documentation

3 October, 1966

Dr. G. O. W. Kremp
Geochronology Laboratories
University of Arizona
Tucson, Arizona

Dear Gerhard:

There have been several "high level" conferences about CFSP since I last wrote. I believe I am beginning to get, very slowly, some appreciation for the complexity of the problems that are involved. I hope that the various policies that will emerge will be agreeable to you. The gist of what I now have in mind is that we'll send to you a photocopy of the completed mockups for each volume, for your comments and suggestions. But I am also hoping that you will undertake to originate some volumes (every third or every fourth, or whatever seems reasonable) in Tucson, by which I mean that you would plan and design the volumes and either acquire the materials for them, or (according which seems easier to you) have us do this, then ship the design and materials to us for preparation of mockups, which will then be handled as mentioned above.

As I previously wrote you, I think it is very desirable that we get together to air this completely, with no distractions such as are found at a scientific meeting. Does the suggestion of post the GSA meeting (San Francisco), about 17 November, seem agreeable?

Volume 26 should be in shape to send you the abovementioned photocopy within a couple of weeks. Ames is (I hope) working on the layout of 27 and 28--which I should be able to show you in Tucson. As I wrote earlier, I would very much like to have you produce a design for 29, and we can talk about 30, etc.

Yours very truly,

Alfred Traverse
Associate Professor of Geology

Hunt Institute for Botanical Documentation

28 September, 1966

Dr. Gerhard O. W. Kremp
Geochronology Laboratories
University of Arizona
Tucson, Arizona

Dear Gerhard:

I have been going through the backlog of things that should be returned to authors (including some of Leschik's that were covered in Volume 9!). I have sent them all back except for two, for which I do not have an address. These are contributions of Samoylovich and of Paciltova. I enclose the packets concerned with the request that you send them off to the authors at your earliest convenmience.

Nexttime you write would you send me the addresses for the abovementioned people, for my files?

Two other editorial matters that need to be mentioned for your comment:

1. I have decided to take action on eliminating Option C, per our discussions in Utrecht. I have written to the subscribers converned and, so far, have received only satisfactory comments. Unless I hear to the contrary in overwhelming fashion, there will be no more Option C, beginning with Volume 26. (Which is pretty well along toward completion.)

2. Ames has plans pretty well along for Volume 27. I am very hopeful that we can get it completed before the end of the year. That means that we ought to be at work on plans for Volume 28 very soon. Would you be willing to tackle Volume 29, with the idea that you would select and obtain the materials and then ship the whole thing to me for processing? I would like to have the volume represent some sort of stratigraphic entity, per tradition (say, Upper Mesozoic--that's currently very hot). I would appreciate it if we could have a list of the tentatively proposed contents as soon as possible, so that Ames and I would avoid duplication. I do hope you can do this.

Yours very truly,

Alfred Traverse, Co-Editor, CFSP

Hunt Institute for Botanical Documentation

September 21, 1966

Dr. Gerhard O.W. Kremp
Geochronology Laboratories
University of Arizona
Tucson, Arizona

Dear Gerhard:

Good to see you in Utrecht. You have been a good old friend. I hope that we can coöperate on the Catalog for many years to come. I shall be writing you more specifically about all that one of these days. Perhaps I should plan to visit you in Tucson after the GSA meetings in November to get down to cases about the Catalog while free of other distractions. What do you think?

In the meantime--perhaps you would be interested in the enclosed letter I am sending to all Option C subscribers. I would appreciate your comments.

Best wishes as ever.

Yours very truly,

Alfred Traverse

AT:le
Enclosure

Hunt Institute for Botanical Documentation

THE UNIVERSITY OF TEXAS *Department of Geology*
AUSTIN 12, TEXAS

14 March, 1966

Dr. Gerhard O. W. Kremp
Professor Geochronology
University of Arizona
Tucson, Arizona

Dear Gerhard:

Just got my copy of "Morphologic Encyclopedia of Palynology", and am indeed impressed. Although I havenot had time to peruse the book as yet, I can already tell that it will be an indispensable bibliographic aid around the laboratory. You have performed a valuable service by producing this volume. (Handsomely printed, too!)

I have been here for one year as visiting lecturer, apparently with no chance that a permanent position might develop here (though they did not tell me this when I came). So, I am looking for a job. You might keep me in mind if you hear of an opening. I have been teaching the introductory course (historical geology) and offering also a course in palynology-coal petrography-paleobotany.

Best wishes, as ever.

Yours cordially,

Hunt Institute for Botanical Documentation

Geological Survey of Queensland
2 Edward Street,
Brisbane, B. 15 30th December, 19 64.

Telephone ~~= 32 0161 =~~ 33 9011

NJdeJ/MM.

Professor G.O.W. Kremp,
Geochronology Laboratories,
The University of Arizona,
Tucson,
ARIZONA, U.S.A.

Dear Professor Kremp,

Forwarded herewith, to assist in re-publication in the Spore Catalog, are photographs of species described in recent publications (G.S.Q. Publications Nos. 321 and 322). Copies of these publications, entitled respectively "Triassic Spores and Pollen Grains from the Bundamba Group" and "Jurassic Spores and Pollen Grains from the Surat Basin", have been forwarded to you, by surface mail, earlier this year. The photographs enclosed comprise both plates of the earlier publication (No. 321) and all photographs of new species in the later paper (No. 322).

With best wishes to yourself and for the continuing development of the Spore Catalog in 1965,

Yours sincerely,

N.J. de Jersey

Hunt Institute for Botanical Documentation

Geological Survey of Queensland
2 Edward Street,
Brisbane, B. 15

Telephone 32 0461
320401

6th June, 1963.

Professor G.O.W. Kremp,
Geochronology Laboratories,
The University of Arizona,
Tucson,
ARIZONA, U.S.A.

Dear Professor Kremp,

Thank you for your letter of May 6th. I was pleased to hear that Volume 24 of the Catalog is in process of preparation, as it indicates a more rapid advance in publication, which should make the Catalog even more useful. So far we have only received up to Volume 17, but I imagine the later volumes are on their way to us.

I am forwarding herewith the original photos from the Ipswich paper, so that you will have them ready to use whenever is appropriate. Incidentally the magnification of all the photographs is, more accurately, 850 diameters, not 900 diameters, as stated in the paper. There is a spare set of plates also available from my earlier paper, on Jurassic spores and pollens from the Rosewood coalfield (G.S.Q. Pub. No. 294), and you are welcome to have them also when required.

Enclosure

With kind regards and best wishes for the advancement of the Catalog,

Yours sincerely,

N.J. de Jersey

Supervising Geologist.
(Palynology)

Hunt Institute for Botanical Documentation

THE UNIVERSITY OF ARIZONA
TUCSON

GEOCHRONOLOGY LABORATORIES

March 5, 1962

Mr. Alfred Traverse
Shell Development Company
Exploration & Production
Research Division
P.O. Box 481
Houston 1, Texas

Dear Al:

We are very sorry, but it is absolutely understandable. We know that we have not lost you, and we hope to win another fellow palynologist at that time. (How sounds that?)

Sincerely yours,

Gerhard

Gerhard O. W. Kremp
Chairman, Program
Committee of the ICP

Hunt Institute for Botanical Documentation

February 26, 1962

Dr. Gerhard O. W. Kremp
Chairman, Program, ICP
Geochronology Laboratories
University of Arizona
Tucson, Arizona

Dear Gerhard:

It is with regret that I must inform you that I have decided not to attend the International Pollen Conference. As Paul may have mentioned to you, we are expecting an addition to the family not long before the Conference begins, and as the time approaches I have come to realize that it really isn't practical for me to be out of town so long at that time. I hope you will understand and that my no-show will not greatly affect your plans. I am sure that one of the other members of the group I was supposed to chair can take my place.

Best wishes to you and your family.

Very truly yours,

Alfred Traverse

AT:nw

bc: Dr. Traverse
Dr. Higgs

Shell Development Company
Exploration and Production Research Division

Hunt Institute for Botanical Documentation

November 29, 1961

Dr. Gerhard O. W. Kremp
Geochronology Laboratory
University of Arizona
Tucson, Arizona

Dear Gerhard:

Regarding yours of November 2, 1961, I have discussed with my colleagues the idea of aid for the persons you listed. We are of the opinion that nothing of the sort you suggest can be obtained here. The free and easy financial situation that existed for some years in the oil industry does not exist now; and we would say that unless some foundation can be found to extend the sort of aid you suggest, the persons will have to raise the necessary funds in their own countries as best they can.

Hope all is progressing satisfactorily with your general plans for the Conference. Having run several much smaller shows, I have some notion of the amount of work entailed if the meeting is to be a success.

Very truly yours,

Alfred Traverse

AT:pjh

bc: Dr. A. Traverse
Dr. D. V. Higgs

Shell Development Company
Exploration and Production Research Division

Hunt Institute for Botanical Documentation

THE UNIVERSITY OF ARIZONA
TUCSON

GEOCHRONOLOGY LABORATORIES

November 2, 1961

Dear Colleague:

The list of foreign scientists includes names of leading palynologists who have expressed their desire to attend the international Conference on Palynology which is being held in Tucson, April, 1962. A keen interest in both palynology and in the United States inspires them. At the same time, these individuals find it very difficult to bear the full burden of travel expenses to the U.S. to attend this Conference. They have little hope of obtaining sufficient aid from their institutions and governments for the trip. Some of them have expressed their determination to come in any case -- even if they must sacrifice to pay all the costs from their own pockets. None of them knows about this letter or has suggested it, but I am convinced, that they would deeply appreciate any assistance which we as individuals could extend to them.

We are hoping that you might consider providing an honorarium to a foreign scientist of your choice. In return he might be requested to lecture or to consult with your group before or after the Tucson meeting. Perhaps you could help in another way by providing assistance in transportation for one of them from and to the port of entry, or from and to your own residence which may lie between his point of arrival and Tucson. Perhaps you may wish to help a foreign scientist by sharing with him board or lodging. If you are able to extend any offer, or if you have any suggestions, please notify us.

Yours very truly,

Gerhard O. W. Kremp

Gerhard O. W. Kremp
Associate Professor

Hunt Institute for Botanical Documentation

Oct. 1. 1961

Dear Al:

Thank you very much for sending me a copy of the "mud" paper. That is a good story to tell to students, which will go into the oil exploration! I am somewhat disappointed about the lack of support of the ICP by the Palaeobotanical Section. Thank you anyway for trying.

Yours Gerhard Kremp

Hunt Institute for Botanical Documentation

July 24, 1961

Dr. Gerhard O. W. Kremp
Chairman, Program Committee, ICP
Geochronology Laboratories
University of Arizona
Tucson, Arizona

Dear Gerhard:

Per your request, I have forwarded the circulars to the two gentlemen.

For your records, the addresses are:

Mr. B. van Raadshooven
B. P. M. Proefstation Delft
Broekmolenweg 20-22
Delft, Netherlands

Mr. Otto Kuyl
Gelogisch Bureau
Akerstraat 86-88
Heerlen, Limburg
Netherlands

Very truly yours,

Alfred Traverse

AT:nw

bc. Dr. Traverse
Dr. Higgs

Shell Development Company
Exploration and Production Research Division

Hunt Institute for Botanical Documentation

June 7, 1961

Dr. Gerhard O. W. Kremp
Chairman, ICP Program Committee
Geochronology Laboratories
University of Arizona
Tucson, Arizona

Dear Gerhard:

I have obtained approval to accept your invitation to chair the discussion of international agreements on pollen catalogs, bibliographies, etc. I will be happy to be chairman, but I hope you realize that I am not exactly unprejudiced. It is well known that I favor freedom in this area, with healthy competition between various bibliographies and catalogs, the palynological public free to make a choice between the alternatives. I am not greatly distressed with the duplication of effort that results.

The Conference certainly is going to be close in time to the S.E.P.M. meeting in San Francisco in late March. I suppose this has advantages as well as disadvantages. I am looking forward to attending both meetings. I would personally prefer that they were separated at least by a year of time.

Best wishes to all of my friends in Tucson.

Very truly yours,

Alfred Traverse

AT:pjh

bc: Technical Files (w/Xerox copy of incoming letter)
Information Copies:
Mr. Purcell's Binder
Dr. Traverse
Dr. Higgs

Shell Development Company
Exploration and Production Research Division

Hunt Institute for Botanical Documentation

February 1, 1961

Dr. Gerhard O. W. Kremp
Geochronology Laboratories
University of Arizona
Tucson, Arizona

Dear Gerhard:

Regarding your letter of January 12, 1961, Mart Schemel, Chris Gutjahr, and I have been over the list and have the following comments:

(1) Each volume should include papers of similar material as to age and fossil type. Megaspore papers should be only in separate volumes. Where possible, hystrichosphaerid papers also should be separately treated.

(2) Select papers that are well illustrated and by major palynological names--e.g., Dijkstra for megaspores. If we ever get caught up, the less important papers and those by less renowned persons can be added.

(3) Do not include papers only for the sake of completeness--some of them may not be of professional quality even though published.

(4) As to specific votes, we have none, except that I would personally like to see Krutzsch's things available for my own use!

This does not seem very helpful, I fear, but really it represents our thinking. We shall be glad to have whatever the Catalog brings out next, subject to the comments above.

We all join in sending greetings and best wishes.

Very truly yours,

Alfred Traverse, Member
Advisory Committee, Catalog of
Fossil Spores and Pollen

AT:nw

Shell Development Company
Exploration and Production Research Division

Hunt Institute for Botanical Documentation

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
FEDERAL CENTER, DENVER 2, COLORADO
Paleontology and Stratigraphy Branch
Building 25

IN REPLY REFER TO:
Geologic Division
G:P&S:GOWK

July 20, 1959

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

Dear Al:

This summer Dr. Robert Potonié of the Geological Survey of Nordrhein-Westfalen in Germany will be in Canada for the meetings of the Int. Bot. Congress in Montreal. I know that he would very much like to visit the U. S. if the opportunity to give papers here or to consult in research programs might make the trip financially possible for himself and his wife.

Originally I had planned to invite him to Penn State University to help with a small research program on taxonomy, but my transfer to the U. S. Geological Survey, Branch of Paleontology and Stratigraphy in Denver made it necessary to cancel these plans. I wonder, however, if a visit of Dr. Potonié might not be of value to the work of your group. Although I have not mentioned this possibility to him, I thought you might like to consider the idea. If you would like, further arrangements might be made with Dr. Potonié himself at the Congress next month. In the meantime do not hesitate to let me know if I can be of any assistance in this matter.

Sincerely yours,

Gerhard

Gerhard O. W. Kremp

Hunt Institute for Botanical Documentation

THE PENNSYLVANIA STATE UNIVERSITY
UNIVERSITY PARK, PENNSYLVANIA

COLLEGE OF MINERAL INDUSTRIES
DEPARTMENT OF GEOLOGY
Palynological Laboratories

December 30, 1958

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

Dear Al:

Thank you for your prompt reply to my letter concerning Volume 4.

In checking with Dr. Delcourt about "Wealdien" I learned that the Belgian "Wealdien" is not exactly the same as the English and German "Wealden", and therefore we made no translation. You will note from the enclosed errata sheet we have covered points 2 and 4 from your letter. The spelling error you pointed out in point 3 has also been covered. Regarding your comment about Volume A, I guess this isn't too clear at the moment but Volume A is a part of a separate series of the Catalog. Volume A is a dictionary of terms as used by the different authors and the glossary of Potonié will be incorporated into this volume. This glossary is still available upon request as are Volumes 1-4 as they are now being reprinted. Regarding the geology of source site, we can present only what the author has given or what we are able to learn through personal correspondence with the author.

I agree with you that we should attempt to present papers not easily obtainable for one reason or another and in this connection I think you will be interested in knowing about the following papers which are to be included in the near future: Ibrahim, 1933 (published privately); Potonié, Ibrahim, and Loose, 1932; Loose, 1934; a Russian paper of Ischenko containing about 100 Pennsylvanian spores; another Russian paper, Bolkhovistina, 1956 containing about 173 Jurassic new descriptions; and the Russian paper of Naumova, 1933, containing about 300 Devonian spores. I would like to add that we hope to translate all these Russian papers.

Thank you very much for your careful checking of this volume as well as all your help in the past.

With best regards.

Sincerely yours,

Gerhard

Gerhard O.W. Kremp
Senior Research Associate

GOWK: cms

enc

Hunt Institute for Botanical Documentation

November 21, 1958

Dr. Gerhard O. W. Kremp
Department of Geology
Pennsylvania State University
State College, Pennsylvania

Dear Gerhard:

I have finished my quick perusal of the fine volume 4 of the catalog, which represents, I know, a tremendous amount of effort. Of that I became convinced when in State College last summer.

I would like to record that Dr. Mart Schemel has also looked over volume 4, and the comments below are, in reality, joint comments of his and mine.

Mistakes:

1. p. 4-8, and many other pages: Wealdien is incorrect English spelling. Since "Lower Cretaceous" is rendered in English, Wealden should also be.

2. p. 4-136: As I have pointed out to Rouse, he has made a rather serious error in referring to my paper. Engelhardtia colebrookiana is not E. colebrookiana Traverse but E. colebrookiana Lindl., an extant species. The illustration to which he referred is, hence, either of modern pollen of E. colebrookiana Lindl., or of E. spackmaniana Traverse (cf. C. F. S. P. 1-6).

3. p. 4-48: Pliozän is misspelled. This error is repeated in many places.

4. p. 4-53: Opok clays. This looks odd to me. Should it be capitalized? Translated?

5. p. 4-104, and many other places: Volume A. Isn't this Volume 1?

Editorial comments:

1. page ii: I believe something should be said here about how the glossary can be obtained, inasmuch as the first volume of the Catalog is out of print.

2. re the formulae: Schemel and I feel that it would be better to put the information in Latin or English, even though this would take perhaps one more line. We feel that the formulae are wearisome.

Hunt Institute for Botanical Documentation

3. Schemel and I feel strongly that the "geology of source site" should be more systematically presented and should contain as the bare minimum the precise age and the lithology. We feel that information such as that on 4-35 is deficient in not stating what kind of sediment is concerned and that that on 4-68 is deficient in not providing sufficient stratigraphic information.

4. pages 4-120: I rather like the provision of the references for Rouse's otherwise cryptic numerals here. But in other instances this is not done--e.g., 4-54). The C. F. S. P. should be consistent.

As a general comment that possibly is out of place here, I would like to suggest that the C. F. S. P. in the future aim at presenting the truly unavailable things in the literature--the older publications long since out of print, etc. Of course, I realize that you will be unable to be so exacting about your obtaining of the original photos, etc., but the service rendered to practical palynologists would be immeasurable.

Very truly yours,

Alfred Traverse

AT:mlb

Hunt Institute for Botanical Documentation

THE PENNSYLVANIA STATE UNIVERSITY
UNIVERSITY PARK, PENNSYLVANIA

COLLEGE OF MINERAL INDUSTRIES
DEPARTMENT OF GEOLOGY

November 7, 1958

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

Dear Al:

Under separate cover I am sending you a copy of Volume 4 of the Catalog for your perusal as a member of the Advisory Committee. You will note the first appearance of Russian new descriptions. The inclusion of this material was, to a great extent, responsible for the delay in preparation of this volume. During this time however, a considerable backlog of material has been prepared and Volumes 5 and 6 are ready for the printer. Also a translation of the Russian paper in Volume 4 has been completed.

It will be appreciated if you will notify us as to comment or criticisms of Volume 4 at your earliest convience.

Thank you again for the time and effort you are expending in behalf of the success of the Catalog of Fossil Spores and Pollen.

Sincerely yours,

Gerhard

Gerhard O.W. Kremp
Senior Research Associate

GOWK: cms

Hunt Institute for Botanical Documentation

THE PENNSYLVANIA STATE UNIVERSITY
UNIVERSITY PARK, PENNSYLVANIA

COLLEGE OF MINERAL INDUSTRIES
DEPARTMENT OF GEOLOGY
Palynological Laboratories

September 30, 1958

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

Dear Al:

Thank you for the title of the microtomists guide and thank you very much for the box of modern hystrichospherid slides which arrived yesterday. Unfortunately two were damaged in shipment but the rest are all in fine condition. I appreciate your sending them very much.

When you come to visit next time and if I have time to prepare it let's try a Kirsch liquor!

Thanks again for the title and the slides.

With best regards.

Sincerely yours,

Gerhard

Gerhard O.W. Kremp
Senior Research Associate

GOWK: cms

Hunt Institute for Botanical Documentation

September 12, 1958

Dr. Gerhard Kremp
Palynological Laboratories
Department of Geology
Pennsylvania State University
State College, Pennsylvania

Dear Gerhard:

Many thanks for a very nice time with you in State College. I hope that the future will provide many opportunities for more reunions of such a happy sort.

When I was with you in the Ihlseng laboratory, I mentioned that you should have a Handbook of Chemistry and Physics available, as well as a good microtomist's guide. I promised to send you a title for one of the latter. Here it is: Gray, P. The Microtomist's Formulary and Guide. Blakiston Co. 1954.

Best wishes to Tate, Ed, Bill Berry, Bill Spackman, etc., etc. Tell Berry that I have seldom enjoyed an evening more than the great corn boil at his place. Regards to Eva and your children.

Yours very truly,

Alfred Traverse

AT:pte

Exploration and Production Research Division
Shell Development Company

Hunt Institute for Botanical Documentation

June 25, 1958

Dr. Gerhard O. W. Kremp
Palynological Laboratory
College of Mineral Industries
Pennsylvania State University
State College, Pennsylvania

Dear Gerhard:

I am indeed going to be on hand for the Bloomington meeting. I have been planning to be in Bloomington several days early to make the preliminary arrangements and to take a preliminary shot at the field trip itinerary with Joe Guennel.

Your title had caught my eye as I prepared the program, and I had been wondering what you intended to propose. Of course, I am flattered by being asked my opinion, and I would be delighted to discuss the issues with you. We would also be interested here in the Key on which you are working, so it would be good to have a chance to discuss that too.

Tentatively, let's say I'll be in State College beginning on August 11, for 2-3 days. I'll keep you informed of exact plans as they unfold.

Hope all the Kremps have a good time in the Golden West. The lignite in Ione should be interesting. Best wishes.

Very truly yours,

AT

Alfred Traverse

AT:ml

Shell Development Company
Exploration and Production Research Division

Hunt Institute for Botanical Documentation

THE PENNSYLVANIA STATE UNIVERSITY
UNIVERSITY PARK, PENNSYLVANIA

COLLEGE OF MINERAL INDUSTRIES
DEPARTMENT OF GEOLOGY
Palynological Lab.

June 19, 1958

DOCUMENT BOND

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

Dear Al,

Thank you for your prompt reply to our request that you examine Volume 3 of the Catalog. We are assembling it now and it should be ready for distribution next week.

Are you planning to attend the forthcoming meeting in Bloomington in August? If so, would it be possible for you to stop here on your way to the meeting? We are preparing to present a paper. I would like very much to discuss our presentation with you as I would like to conform to your ideas on the subject and would appreciate your reactions to the manner in which we are presenting the problem. I would also like to discuss with you the key for fossil spores and pollen we are in the process of developing.

Within the next week, my family and I are leaving for a combined field trip and vacation including South Dakota and to Ione, California and will be back around August 10.

Thank you again for your prompt reply.

With best regards.

Sincerely yours,

Gerhard

Gerhard O. W. Kremp
Senior Research Associate

GOWK:bg

Hunt Institute for Botanical Documentation

THE GENUS SPECIES CONCEPT AND THE INTERNATIONAL CODE OF BOTANICAL NOMENCLATURE

by

G.O.W. Krumm, H.T. Arens, and H.O. Frederikson

The International Code of Botanical Nomenclature, 1956, p. 8 states "...the Committee for Paleobotanical Nomenclature has decided to undertake a wholesale revision of the Appendix (II (Special provisions concerning fossil plants)) on the occasion of the Ninth International Congress to be held at Montreal in 1959." It is felt that such a revision should also consider the unproven problems involving the nomenclature of fossil spores and pollen and should be thoroughly discussed by palynologists. Some proposals concerning a revision of Appendix II are made with emphasis on the needs for a formal recognition of the taxon "organ species" in contrast with the concept "species of fossil plant".

A review of the concepts on which are based the terms "organ and form genera" is presented, and the manner in which fossil spores and pollen may be named when they are morphologically similar to those of modern plants is discussed.

Hunt Institute for Botanical Documentation

Bear Butte and Fort Meade Veteran's Hospital
near Sturgis, South Dakota

Montana Post Card Dist., Box 742, Miles City, Montana

Dr. Alfred Traverse
Shell Development Co.
Explor. & Product. Res. Div.
3737 Bellaire Boulevard
Houston 25
Texas

Air mail

Buffalo, S. Dak. July 12. 58.

Dear Al,

Am very glad to read that you can come and visit me on August 11. For three days. Few days later would suit me a little better, but I hope I can manage it to be back to Penn State before the eleventh. Looking forward to discuss interesting things with you

very truly yours

Gerhard

C2329

Hunt Institute for Botanical Documentation

June 11, 1958

Dr. Gerhard Kremp
Palynological Laboratories
College of Mineral Industries
Pennsylvania State University
State College, Pennsylvania

Dear Gerhard:

I have examined the sheets of volume 3 of the C.F.S.P. and have not found any glaring errors. I'm glad to hear that an index will be provided.

I wish the Catalog could tackle the Russian literature - that stuff is <u>really</u> inaccessible. Any plans along those lines?

Very truly yours,

Alfred Traverse

AT:mpd

Shell Development Company
Exploration and Production Research Division

Hunt Institute for Botanical Documentation

THE PENNSYLVANIA STATE UNIVERSITY
UNIVERSITY PARK, PENNSYLVANIA

COLLEGE OF MINERAL INDUSTRIES
DEPARTMENT OF GEOLOGY
Palynological Laboratories

June 4, 1958

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

Dear Al:

Under separate cover a copy of the catalog pages of Volume 3 of the Catalog of Fossil Spores and Pollen has been sent to you for your perusal as a member of the Advisory Committee. To be added to these 170 pages are a preface, a supplement (which will aid subscribers in synthesizing more complete descriptions of the types), and an index. I hope you will examine this main portion of the volume in an attempt to locate any errors that may be present. The other pages of the volume will be sent to you immediately upon our receipt of them from the printer.

I would appreciate it very much if you would send either your list of errors or notice that you found no errors as soon as possible. We hope to hear from the other members of the committee either on or before June 20. It is hoped to send the volumes to the subscribers at that time if reports from the committee members are favorable.

With best regards.

Sincerely yours,

Gerhard

Gerhard O.W. Kremp
Senior Research Associate

GOWK: cms

Hunt Institute for Botanical Documentation

THE PENNSYLVANIA STATE UNIVERSITY
UNIVERSITY PARK, PENNSYLVANIA

COLLEGE OF MINERAL INDUSTRIES
DEPARTMENT OF GEOLOGY
Palynological Laboratories

April 3, 1958

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

Dear Al:

Thank you for your telegram concerning Volume 2 of the Catalog. I certainly appreciate the interest you have in this compendium.

Judging from the comments of the other members of the Advisory Committee, Volume 2 seems to contain no serious errors.

Volume 3 is about half printed and should be ready for your perusal before very long. We feel it to be the most valuable of the first three volumes and will be eager to hear the Committee's opinion. Volume 4 is progressing very well and will soon be sent to the printer. Our subscriber list is growing daily the total now reaching over two hundred individuals or organizations.

With best regards.

Sincerely yours,

Gerhard

Gerhard O.W. Kremp
Senior Research Associate

GOWK: cms

Hunt Institute for Botanical Documentation

O-1863 (REV. 6-51) PRINTED IN U.S.A.

TELEGRAM

☐ EMERGENCY ☑ REGULAR

HC-184

MARCH 17, 1958

DR. GERHARD KREMP
PALYNOLOGICAL LABORATORIES
COLLEGE OF MINERAL INDUSTRIES
PENNSYLVANIA STATE UNIVERSITY
STATE COLLEGE, PENNSYLVANIA

VOLUME TWO SEEMS OK TO ME. I HAVE ONLY BEEN ABLE TO CHECK IT IN CURSORY FASHION.

ALFRED TRAVERSE

AT:ml

Hunt Institute for Botanical Documentation

THE PENNSYLVANIA STATE UNIVERSITY
UNIVERSITY PARK, PENNSYLVANIA

COLLEGE OF MINERAL INDUSTRIES
DEPARTMENT OF GEOLOGY

Palynological Laboratories

March 5, 1958

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

Dear Al:

Under separate cover a copy of Volume 2 of the Catalog of Fossil Spores and Pollen has been sent to you for your perusal as a member of the Advisory Committee. I hope you will examine this volume in an attempt to locate any errors that may be present.

I would appreciate it very much if you would send either your list of errors or notice that you found no errors as soon as possible. We hope to hear from the other members of the Committee either on or before March 15. It is hoped to send the volumes to the subscribers at that time if reports from the committee members are favorable.

With best regards.

Sincerely yours,

Gerhard

Gerhard O.W. Kremp
Senior Research Associate

GOWK:cms

Hunt Institute for Botanical Documentation

1. G. Rilfstone 10194

2. A. Traverse 132

February 12, 1958

Dr. Gerhard O. W. Kremp
Ihlseng Laboratories
College of Mineral Industries
Pennsylvania State University
State College, Pennsylvania

Dear Gerhard:

Thanks very much for the most gracious letter of the 5th. I have known all along that our views were not really too different. I believe as the years go by I'll even be forced to admit that a very large percentage of fossil pollen must indeed be considered as species of the artificial genera. We seem to reach a small parting of the ways in that I feel that in some instances it is justified to consider fossil pollen to be organ species of extant genera, and I gather that you don't. However, in our adherence to the principal of priority, etc., we are clearly together in a very different camp from that of van der Hammen.

I am glad to hear about the progress of the Catalog. Oil companies research people seem to be rather pragmatic, and it is unquestionably important to insure the future of the Catalog that a more or less regular production schedule be attained (even if it is slow). It is therefore very desirable that volumes 2-5 get out as quickly as possible, even if every i isn't dotted to your standard of perfection. Probably Bill Spackman has passed on this advice from me already. I talked with him at some length about it the other day.

SR: Thought you'd be interested

Best wishes.

Very truly yours,

AT

Alfred Traverse

AT:ml

Shell Development Company
Exploration and Production Research Division

Hunt Institute for Botanical Documentation

THE PENNSYLVANIA STATE UNIVERSITY
UNIVERSITY PARK, PENNSYLVANIA

COLLEGE OF MINERAL INDUSTRIES
DEPARTMENT OF GEOLOGY

Palynological Laboratories

February 5, 1958

DOCUMENT BOND
CONTENT USA

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

Dear Al:

Thank you very much for sending your reprint "The Nomenclatural Problem of Plant Microfossil Species Belonging to Extant Genera". I am sure it will be a valuable addition to our library.

I must confess that I was a bit dubius about what you might discuss in a paper of this title as I was afraid we might not be in complete agreement on some points in this connection. I am very happy to say however that we are in complete agreement throughout this paper. You are to be congratulated on making clear to our colleagues that practically all their fossil species of extant genera are nothing but organ species. It is certainly a step in the right direction along the road to less confusion and I hope that many paleobotanists read your paper.

I agree wholeheartedly that the existing botanical rules aresufficient for palynologists. If one really thoroughly studies the rules (including the Preamble) the path to follow in solving nomenclatural problems is clear. I am especially happy about your last paragraph.

The Catalog seems to be developing well. Besides Shell, Humble Oil, Carter Oil, and Pan American, we received $2000.00 from California Research. Volumes 2 and 3 are now in press and we are now working on Volumes 5-8. Volume 5 will contain the first Paleozoic new descriptions. We have received premission and plates from the Russians for the paper of Dr. Elna Zalklnskaja about Tertiary spores. We hope that we can include a translation of this paper in Volume 4 or 5.

Concerning the slides from the type localities, I haven't forgotten the matter. I just have not had the opportunity to take care of them and hope to get this cleared up before long.

With best regards.

Sincerely yours,

Gerhard

Gerhard O.W. Kremp
Senior Research Associate

GOWK:cms

Hunt Institute for Botanical Documentation

November 11, 1957

Dr. Gerhard Kremp
Palynological Laboratories
College of Mineral Industries
Pennsylvania State University
State College, Pennsylvania

Dear Gerhard:

May I suggest that, in the case of corrections, it would be much cheaper and just as (or more) acceptable to the subscriber, if a list of errata were circulated. For the change required by "finding" the Bradley slides, a sheet with repeated listings of the proper information could have been sent. From such a sheet, the slips could be cut and pasted in the original sheets by the subscribers. Errata will doubtless occur again, and the technique for correction used this time will bankrupt the Catalog.

Best wishes.

Very truly yours,

AT

Alfred Traverse

AT:hmp

Shell Development Company
Exploration and Production Research Division

Hunt Institute for Botanical Documentation

October 18, 1957

Dr. Gerhard O. W. Kremp
Senior Research Associate
Palynological Laboratories
College of Mineral Industries
Pennsylvania State University
State College, Pennsylvania

Dear Gerhard:

Thanks for yours re the slides. You are quite correct about the slides. I thought I had conveyed this information to you previously. At the moment Art LeBlanc has most of the collection in our Midland office, hence I cannot give you precise information, but my recollection is that something over 50% of the slides are completely sterile. John Grayson I know has a chart showing which ones are sterile, which ones are nearly so. It seems to me that these two categories included about 75% of the slides, but you could check that with John. When I get the slides back from LeBlanc, I'll prepare a similar chart for your perusal.

I agree with you that the sterile slides really should be replaced, with the same or equivalent material. But beyond this suggestion, I do not intend to pursue the matter further.

I was very sorry that you couldn't make the Stanford meeting. I am not going to be able to make it to Atlantic City, in all probability, so it may be some time before we meet again. There are many things it would be good to discuss with you.

Best wishes.

Very truly yours,

Alfred Traverse

AT:rdb

Shell Development Company
Exploration and Production Research Division

Hunt Institute for Botanical Documentation

THE PENNSYLVANIA STATE UNIVERSITY
UNIVERSITY PARK, PENNSYLVANIA

COLLEGE OF MINERAL INDUSTRIES
DEPARTMENT OF GEOLOGY

October 9, 1957

Palynological Laboratories
Ihlseng Lab.

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

Dear Al:

Recently I have learned that several of the slides made from the European fossil spore type localities which I sold you some time ago are more or less sterile. I know that the material which the original author used contained only a few pollen and spores in many cases and as I didn't apply different methods of preparation, my slides should contain, in general, about as much fossil spore material as those of the original author. However some of them may be practically worthless. Please give me a list of the slides which should be exchanged so that I can attempt to straighten out this unfortunate situation.

With best regards, I remain

Sincerely yours,

Gerhard

Gerhard O.W. Kremp
Senior Research Associate

GOWK:cms

Hunt Institute for Botanical Documentation

THE PENNSYLVANIA STATE UNIVERSITY
UNIVERSITY PARK, PENNSYLVANIA

COLLEGE OF MINERAL INDUSTRIES
DEPARTMENT OF GEOLOGY
Palynological Laboratories

September 10, 1957

Dr. Alfred Traverse
3737 Bellaire Blvd.
Houston 25, Texas

Dear Dr. Traverse:

The following is a list of the orders received thus far from Shell Oil in Houston:

Palynological Laboratory
Shell Oil Company
Room 1115
3747 Bellaire Blvd.
Houston, Texas (Option A)

Mr. Bertran van Raadshooven
Shell Oil Company
3737 Bellaire Boulevard
Houston 25, Texas (Option A)

Shell Development Company
3737 Bellaire Blvd.
Houston 25, Texas
Attn: Library (Option B)

Dr. Alfred Traverse
3737 Bellaire Blvd.
Houston 25, Texas (Option D)

Enclosed is Page 2 of Information Circular 3 concerning the Catalog in case there is any question as to what each option indicated is.

Sincerely yours,

Carol M. Stickell

(Mrs.) Carol M. Stickell
Secretary to Dr. Kremp

Hunt Institute for Botanical Documentation

The catalog is to be offered in four options which are described below. Examples of these options will be found among the accompanying sheets; however, only a facsimile of option B is shown because of impractibility of mailing a single "Unisort" punch card at this time. An example of option A also has been excluded at this time since it is similar to option D. Option A is on unpunched heavier stock.

Option A. Plain Index Cards (8½ X 11")
Printed on 8½ X 11" sheets of white Index bristol (72 lb. paper)
Suitable for filing.
Cost per 170 Cards $5.10 . @ 3¢

Option B. "Unisort" Punch Cards (5 X 8")
Printed on both sides of 5 X 8" Unisort Analysis Cards, Standard Form Y 9, manufactured by Charles R. Hadley Co.
Cost per 170 Cards $13.60 . @ 8¢

Option C. "Keysort" Punch Cards (8 X 10½")
Printed on one side of card.
8 X 10½ white stock. Cards manufactured by Allied Printing Co. Form KS811B, Athens, Ohio.
Cost per 170 Cards $11.90 . @ 7¢

Option D. Punched Sheets (8 X 11½") in Loose Leaf Binder. Printed on one side of 8 X 11½" sheets of white opaque vellum paper (60 lb.), in durable "Gebcote" loose leaf binder. Manufactured by General Binding Co.
Binder is composed of a flexible pyroxylin coated latex impregnated material with metal ring 1 1/8" in diameter capable of holding 170 pages.
Cost of Volume $4.90 . @ 2¢
(The price per Volume includes the cost of the binder which is $1.50.)
If you desire these punched sheets only, subtract $1.50 for the binder from the price listed under option D.

To aid us in making our arrangements for a publication best adapted to the needs of our subscribers, will you please answer the information accompanying the circular and return it to us whether you wish to subscribe at this time or not. Those wishing to subscribe now, please sign in the blank provided. We wish to make it clear that your signature affixed to this information sheet will in no case be considered binding; we wish, however, a certain rather positive concept of those who will be willing to subscribe at a later date.

Hunt Institute for Botanical Documentation

September 5, 1957

Dr. Gerhard O. W. Kremp
Palynological Laboratories
Pennsylvania State University
State College, Pennsylvania

Dear Gerhard:

Yours of the 9th of August got here after I had left for California for the work preliminary to paleobotanical field trip. I presume that it is now too late for me to do any good by listing errors, so I shall not do so. I have found some of the common variety of typographical errors--nothing startling.

I would like to comment that the binder isn't hard enough to satisfy me--probably only a personal foible. It seemingly is durable enough.

Please inform me whether we have subscribed for cards for the laboratory or not. Please let me know what cards we are supposed to be getting. What I want is the 5x8-inch card (Unisort?). I presume the bound deal is for me, personally.

Congratulations on Volume I, and best wishes.

Very truly yours,

Alfred Traverse

AT:ml

Shell Development Company
Exploration and Production Research

Hunt Institute for Botanical Documentation

THE PENNSYLVANIA STATE UNIVERSITY
UNIVERSITY PARK, PENNSYLVANIA

COLLEGE OF MINERAL INDUSTRIES
DEPARTMENT OF GEOLOGY
Palynological Laboratories

August 9, 1957

Dr. Alfred Traverse
3737 Bellaire Blvd.
Houston 25, Texas

Dear Al:

Enclosed is Volume I of the Catalog of Fossil Spores and Pollen. As a member of the Advisory Committee, I hope you will examine this volume in an attempt to locate any errors that may be present. Care was taken in the compilation of this volume but it seems almost impossible to find every error before printing and we have already found several.

I would appreciate it very much if you would send either your list of errors or notice that you found no errors as soon as possible. We hope to hear from the other members of the Committee either on or before August 19. At that time it is planned to compile an errata sheet or in the case of a glaring error to make arrangements for a new plate.

Your cooperation in making the Catalog a success is certainly very much appreciated.

Sincerely yours,

G Gerhard

Gerhard O. W. Kremp
Senior Research Associate

GOWK:cms
Enclosure

Hunt Institute for Botanical Documentation

THE PENNSYLVANIA STATE UNIVERSITY
UNIVERSITY PARK, PENNSYLVANIA

COLLEGE OF MINERAL INDUSTRIES
DEPARTMENT OF GEOLOGY
Palynological Laboratories

February 27, 1957

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

Dear Al:

Today in going through the files a copy of your manuscript of "Pollen Analysis Of The Brandon Lignite of Vermont" to be sent to the publisher was found. The following Author's note was found:

"2. The microfossil photomicrographs in Plates I-VI are all at identical magnification of approximately 600x. The published photomicrographs should be at 500x because of international convention. Hence, the plates should be reduced by exactly one-sixth in reproduction."

According to this we will place a 600x scale on our sheets and place the following note at the foot of the sheets:

Traverse's original plates approx. 600x.
Plates reduced to 500x in Traverse, 1955, publication.

Does this change in plans meet with your approval? I would appreciate it if you would call me or send a cable accordingly. This should settle the matter of the magnification and I certainly want to thank you for your cooperation in the matter.

Sincerely yours,

Gerhard

Gerhard O. W. Kremp
Senior Research Associate

GOWK:cms

Hunt Institute for Botanical Documentation

THE PENNSYLVANIA STATE UNIVERSITY
UNIVERSITY PARK, PENNSYLVANIA

COLLEGE OF MINERAL INDUSTRIES
DEPARTMENT OF GEOLOGY
Palynological Laboratories

February 18, 1957

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

Dear Al:

I hope you have returned from your trip safely and that the trip to California was an enjoyable one.

The catalog is going along fine. At present we have subscriptions from 14 countries and 22 of the United States.

We have come across a problem with your photos from the Brandon Lignite report. It seems that somewhere along the line the magnification of the photos which are in the report was reduced. Thus the photos which we have made from your original plates are slightly larger than the reproductions in the report itself. The matter is not a crucial one, however we would like to make some notation on our sheets to explain this difference and would like to know who you would like the matter to be handled. Perhaps we should make an asterisk beside the scale and following the description a note:

* Original photos (500x) were slightly reduced by printing process. The author's original plates are used within the catalog with the correct magnification of 500x.

We will correct the errors in the way you proposed it, by making a note at the bottom of the page e.g. Pinus amplivesicula ta
BT - 9 Figure 8(19)*
*/ should read: 9(19) / (at bottom of sheet)

In the case of Engelhardtia spackmaniana we found another error and corrected it in the following way:
Engelhardtia spackmania*
*/ should read: spackmaniana /.

We proceeded in this way with all the errors on your sheet. We couldn't find any trouble with p. 56, line 33. As far as we can tell it reads the same as the line on the errata sheet.

Hunt Institute for Botanical Documentation

What would you like us to do with the type finding notes? It is possible to place this information after the type specimen in the following way:

Type specimen... slide ... (h ≠ ♀-).

If you think this should go with the catalog we will do it. Otherwise we will plan to leave it out.

As we would like to get the first volume out as soon as possible perhaps you could call me at the University, Extension 707 and let me know about these matters.

Sincerely yours,

Gerhard

Gerhard O. W. Kremp
Senior Research Associate

GOWK:cms

Hunt Institute for Botanical Documentation

THE PENNSYLVANIA STATE UNIVERSITY
UNIVERSITY PARK, PENNSYLVANIA

COLLEGE OF MINERAL INDUSTRIES
DEPARTMENT OF GEOLOGY
Palynological Laboratories

December 19, 1956

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

Dear Al:

In reply to your letter of December 13, I am afraid I cannot give you the information you seek, at the moment.

All of the material which I sent to you I have forwarded to John Grayson. When I get this material back I shall be happy to try to answer your questions for you.

Best wishes to you for a very happy holiday season and for the coming year.

Sincerely yours,

Gerhard

Gerhard O. W. Kremp
Senior Research Associate

GOWK:cms

Hunt Institute for Botanical Documentation

THE PENNSYLVANIA STATE UNIVERSITY
UNIVERSITY PARK, PENNSYLVANIA

COLLEGE OF MINERAL INDUSTRIES
DEPARTMENT OF GEOLOGY

November 28, 1956

Anthracological Laboratories

DOCUMENT BOND
RAG CONTENT U.S.A.

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

Dear Dr. Traverse:

Enclosed you will find some of the information you requested in your past letters. If it is not all that is necessary please let us know and we shall do what we can to find anything else you might need in connection with the photographs of Dr. Kremp.

Dr. Kremp will be writing to you in the very near future in regard to your last letters.

Sincerely yours,

Carol M. Stickell

(Mrs.) Carol M. Stickell
Secretary to Dr. Kremp

file under Kremp

Hunt Institute for Botanical Documentation

December 13, 1956

Dr. Gerhard Kremp
Anthracological Laboratories
College of Mineral Industries
Pennsylvania State University
State College, Pennsylvania

Dear Gerhard:

Thanks for the additional data for the photographs. This pretty well covers the story, except that I haven't been able to discover where Friedrichskoog is , I still don't have information on the origin of the Rhaetic Swedish sample, and I haven't been able to find out where Siegelsum is. It may be that you don't have this information.

As mentioned in my letter of November 22, I need to know which of the items are at 500x magnification, as you stated in an earlier letter that all but one folder in the original set were at 1000x, that one folder at 500x. Will you let me know which are the 500x items?

Yours very truly,

AT

Alfred Traverse

AT:rlg

Shell Development Company
Exploration and Production Research Division

Hunt Institute for Botanical Documentation

November 22, 1956

Dr. Gerhard Kremp
Anthracological Laboratories
College of Mineral Industries
Pennsylvania State University
State College, Pennsylvania

Dear Gerhard:

The list of locations arrived today, which is apparently a reply of mine of November 13. Thank you for the additional information. But if you will refer to my letter, you will note that the items for which I requested more information are not the ones for which you have sent the additional data. Incidentally, I note on looking at the list that I sent you that the typist or I made some typographical errors. The only one that matters much is that the "Valendis-Hauterine" notation should not be with Neustadt am Rübenberg but with Bhrg. Siegelsum. What I would like to have is the location from which the samples came, if you have that information. The items about which I am most in the dark are 3, 6, and 8 (especially the latter).

About the magnification: Unfortunately I did not keep a record of what was in each folder. Would you let me know which items are at 500x? (Folder #1, according to your recent letter).

I have enjoyed studying the photographs and have worked them into my little file. It has been very educational.

Yours very truly,

Alfred Traverse

AT:rlg

Shell Development Company
Exploration and Production Research Division

Hunt Institute for Botanical Documentation

November 16, 1956

Dr. Gerhard Kremp
Anthracological Laboratories
College of Mineral Industries
Pennsylvania State University
University Park, Pennsylvania

Dear Gerhard:

Thanks for yours of November 7, 1956 about the Catalog and certain other matters. I received the copies of your memorandum and we are distributing them. Can you provide a half dozen more copies as soon as possible?

Regarding the mailing list, you should add the following names:

Mr. Bertram van Raadshooven
Shell Oil Company
3747 Bellaire Blvd.
Houston 25, Texas

Mr. A. LeBlanc
Shell Oil Company
P. O. Box 1509
Midland, Texas

Mr. John L. Browning
2080 Obispo Street
Long Beach, California

Dr. Ulf Hafsten
Botanical Museum
University of Bergen
Bergen, Norway

Dr. Barbro Afzelius
Palynologiska Laboratoriet
Rahn. 22, Bromma
Stockholm, Sweden

Mr. Norman Hughes
Department of Geology
Sedgwick Museum
Cambridge, England

Mr. Jan Muller
Compania Shell de Venezuela
Central Laboratory
Apartado 19
Maracaibo, Venezuela

Mr. B. Meyer
Paleontological Department
N. V. de Bataafsche Petroleum
Maatschappij
30 Carel van Bylandtlaan
The Hague, The Netherlands

Dr. Charles Felix
Research and Development Division
Production Department
Sun Oil Company
503 N. Central Expressway
Richardson, Texas

Dr. Estella Leopold
P & S Branch
U. S. Geological Survey
Building 25, Federal Center
Denver, Colorado

Hunt Institute for Botanical Documentation

The mailing list you sent seems to be in pretty bad shape. I suppose you have left the addresses incomplete to save time. But, there are some other errors, and I strongly suggest that you check the list very thoroughly, as people do not like errors in spelling their names, or in their titles or addresses. Such superficial things can be important. I am returning the list with some penciled comments and corrections on a few of the more obvious items.

How does it happen that 170 times 2 cents equals $4.90? I presume the difference between $3.40 and $4.90 is due to the cost of the binder, but $1.50 seems a bit high for a binder.

Thanks for the data on Potonié. I shall have to use only a portion of the material, as the ballot will otherwise be completely impossible to handle, with three other candidates, at least one of which has an equally long biography and bibliography.

Re errata in R.I. 5151. I enclose a list I recently prepared for Professor Barghoorn to accompany the type slides, which are now on deposit at Harvard, per my statement in R. I. 5151. I do not doubt that there are other typographical errors, and I should appreciate being informed about any that you may find, as I am noting them in my master copy.

Another word on this sticky nomenclatural problem: I must gently remind you that misinterpretation or lack of understanding of a law does not invalidate it. Hence, multiplication of examples of misunderstanding of the concept of organ genus does in no way invalidate Article 68. Now, I admit that you have some good arguments against the use of extant generic names for fossil organ species, though I do not at present agree with you on the subject. I would insist, though, that however good your arguments are, you cannot find support for them in the International Rules. The best you can do is to say "That isn't what they meant to say".

I should also make clear that my understanding of the concept of organ species postdates publication of the Brandon monograph. I had not clearly formed that idea at the time of writing R. I. 5151. When I wrote of species I really meant organ species, as is clear from the fact that I also alternatively wrote of "pollen form" as a synonym.

Very truly yours,

Alfred Traverse

AT:hmp

Enclosures

Shell Development Company
Exploration and Production Research

Hunt Institute for Botanical Documentation

November 13, 1956

Dr. Gerhard Kremp
Anthracological Laboratories
College of Mineral Industries
Pennsylvania State University
State College, Pennsylvania

Dear Gerhard:

The plates arrived today, which was an odd coincidence because I have been getting ready to send you the unpublished spore photos that you lent me some time ago. Our reproduction department did a splendid job of reproducing same, and I am glad to have them for my files. Thank you for the loan of them.

Several months have now elapsed since I got these photos from you, and I do not remember all of the details. I did not apparently get any data from you about the provenance of the following sheets:

1. Rhät Schweden
2. Osterwald Hangendflöz (Wealden)
3. Bhrg. Siegelsum
4. Nerstadt am Rübenberg Valendis-Hauterine Wealden
5. Yemen Ob. Jura
6. Friedrichskoog 1, Kerm 1712.0-1718.0 m.
7. Bhrg, Hohenwörden Dogger
8. Buntsandstein
   Bausandstein
   Steinbruch Oppermann nö rdl. Karlsha....
   leg. H. Boigk, A. F. B. Nordhorn

Do you have further data on these? Also, I have had trouble interpreting the script on some of the blue cards. I have noted on the batch of cards with which I have had difficulty that I would like a transliteration, if you will kindly send same.

Hoping that all goes well with all of my friends in State College, and with the Kremps in particular, I am

Yours very truly,

Alfred Traverse

AT:rlg

Shell Development Company
Exploration and Production Research Division

Hunt Institute for Botanical Documentation

THE PENNSYLVANIA STATE UNIVERSITY
UNIVERSITY PARK, PENNSYLVANIA

COLLEGE OF MINERAL INDUSTRIES
DEPARTMENT OF GEOLOGY
Anthracological Laboratories

November 7, 1956

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

Dear Al:

Your prompt answering and the announcement of both your and Mr. Van Roadshooven's interest and the statement that you are content with the catalog were very encouraging. You have certainly played more than a small part in making the catalog a success and we appreciate your help very much, indeed, without your encouragement I would not have tried to develope such a catalog.

According to the proposals you made in your letter to Bill, we will send you, under separate cover, twenty copies of the circular and try to develope an application for 1958 as soon as possible. Maybe when Bill comes down that way he can discuss it further with you. We feel that with your help in subsidizing the catalog we need ask only 2 cents per sheet for the punched sheets, Option D, or $3.40 an issue and $1. 50 for the binder. For Option A, 3 cents per card, Option B, 8 cents a card, and Option C, 7 cents a card. The last are higher because we feel that those who would like to have the fancier cards should pay the cost of the paper out of their own pockets.

I am sorry I could not speak with you in Minneapolis but I hope it will not be long before I have another chance to do so.

Thank you for your offer to give me additional correspondents who might have an interest in the catalog. I am enclosing a list from our files for further additions.

We sent back to you your original photographs two days ago so you should receive them shortly. I am also sending you the information you requested about Dr. Potonie. Will you please return the photograph and the bibliography when your work is completed. Please feel free to change any of the information to suit your needs.

Concerning the problem with the organ genera, I was very happy to discuss the matter with you and to find such an open-minded person. The fact is that very few people understand the difference between organ genera and genera from fossil plants. They speak of fossil plant genera and really mean organ plant genera. I took with me to Minneapolis a book of Dr. Kirchheimer 1937, "Grundzuege einer Pflanzenkunde der deutschen Braunkohlen". It was interesting to me to see page 39 about the Sequoia sempervirens and Sequoia langsdorfi. You find there a sentence like this: The fossil Sequoia langsdorfi

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corresponds in ~~tis~~ essential to the living Sequoia sempervirens. Then he proceeds to give the details of why they are the same. You get the strang idea, reading his explanation, that he is speaking of the remains of a fossil plant. In other words, if the elder paleobotanists speak of Sequoia langsdorfi they don't think of an organ genera but of a fossil plant genera. The point is that the meaning of Paragraph #68 is made only for such old-fashioned concepts but not for ours in our modern thinking. Therefore, we in our case, should not appeal to this paragraph.

Would you send to us, if such exists, a list of the errors from your publication so our catalog can be as accurate as possible. If you have no such list would you tell us what you would like us to do in case of a suspected typographical error.

Sincerely yours,

Gerhard O. W. Kremp
Senior Research Associate

GOWK:cms

Enclosures under separate cover.

Hunt Institute for Botanical Documentation

October 17, 1956

Dr. Gerhard Kremp
Mineral Sciences Building
Pennsylvania State University
State College, Pennsylvania

Dear Gerhard:

Thanks for yours of October 5, which reached me this morning. I did not understand that you would be able to return the original photographs if they were used for the purpose you intended. The copies are really quite excellent, so I thought that they would do. However, under the circumstances I am sending you the originals, with the request that you send back both sets of photographs. There is absolutely no hurry; keep them as long as you like.

The photographs that I borrowed from you some time ago for copying here are in the course of processing here and should be ready to be sent back to you soon.

On the question of the propriety of fossil organ species in extant genera: it seems to me that the main point at issue between us is whether the species of Steinhauera that are now species of Sequoia are organ species or not. For that matter, we could as easily discuss the species of extant genera thatChaney and others have described from leaf impressions and the like. To me it seems evident that all these species are indeed organ species.

To put it as nakedly as possible, I believe that all fossil genera, with a few exceptions, are either form or organ genera. Similarly all fossil species, with few exceptions, are form or organ species. If you agree with me that all fossil species are form or organ species (with few exceptions), then you presumably agree that the practice of putting them into extant genera is specifically sanctioned by Article 68. It does not seem relevant to me that the authors of fossil plant species did not realize that they were describing organ species. In my view, they nevertheless were describing organ species. Chaney's species of fossil leaves are species of leaves not of whole plants, regardless of what his conception may have been.

It is good to discuss these points with you, and I assure you that my understanding of the subject has been much clarified by the discussion.

With best wishes for all, I am,

Yours very truly,

Alfred Traverse

AT:rlg

Hunt Institute for Botanical Documentation

THE PENNSYLVANIA STATE UNIVERSITY
UNIVERSITY PARK, PENNSYLVANIA

COLLEGE OF MINERAL INDUSTRIES
DEPARTMENT OF GEOLOGY

October 5, 1956

DOCUMENT BOND
RAG CONTENT U.S.A.

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

Dear Al:

Thank you very much for sending the plates taken by the Bureau of Mines from your original photos. If you do not have the original photos, we can, of course, use these reprints for our catalog. However, it is my feeling, that it would be better for us to have your own original photos. The procedure would be to make a negative of the original and then to use the negative for the catalog. Therefore, it is is possible for you to send the original photos, I could send them back to you within two weeks.

I will be very happy to make you a bibliography of Potonie's principal contributions and a very brief biography, for use in the poll of the Paleobotanical Section. I will send this to you as soon as possible.

The German word "Reihe" is not exactly the same as the English word "series" or the Latin word "series". The translation of "Reihe" in English would be row or rank. In German there is a word "Serie" too, but we had good reasons why we did not use the word "Serie". After the German feeling of their own language, we can, therefore, use the word "Reihe" without interferring with the botanical supra-generic term "series". In other words, Serie (or (series) is a taxonomic term of botany but "Reihe" is not.

I am sorry that Charlie Trotter misunderstood my intentions concerning the card file. I think, for many reasons, it is necessary for us to bring into the first phase only the species. However, when this is more or less in the printing stage then we have to go into the troublesome region of fossil organ genera etc.

Concerning Paragraph #68, I think that Steinhauera was not established as a fossil "organ genera", but as a "genus of a fossil plant". I agree with you that there really doesn't exist such a thing as a species of whole fossil plants, but is such thinking not a new acquisition of science? Paragraph #68 speaks of "a genus of fossil plant" and by no means of an organ genus. There are two completely different things. I do not feel that Paragraph #68 can help you in establishing Nyssa thompsonia. As these are the words

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of the paragraph, I doubt that you can give them a new meaning. In my opinion you can not say that Paragraph # 68 gives you the right to put the organ species thompsonia into the genus Nyssa. Steinhauera was thought to be a fossil genus, not a fossil organ-genus. Without any doubt species and genera must have existed, and the "old-fashioned" palaeobotanists meant such species and genera. Surely, they did know that they really had only described single separated organs of fossil plants. Let us not forget the idea of organ genera and organ species is relatively new (and we have still the problem of making a distinction between an organ genus and a form genus). You are one of the few men who can clearly see the difference between a fossil species and a fossil organ species. Why don't you go one step farther and make also a clear distinction between genera and organ genera? When you have made this distinction, I hope you will feel as I do. You would no longer wish to put together in a name an organ species and a genus and you would feel the "Nyssa thompsonia" really means a fossil plant with the species name "thompsonia" and "Nyssoidites thompsonia" means only a fossil pollen-organ species with the name "thompsonia".

It is not easy for me to say clearly what I want to say in a foreign language. Please excuse my inability to convey my thoughts to you.

Best wishes to you.

Sincerely yours,

C Gerhard

Gerhard O. W. Kremp
Senior Research Associate

GOWK;cms

Hunt Institute for Botanical Documentation

September 26, 1956

Dr. Gerhard Kremp
Mineral Sciences Building
Pennsylvania State University
State College, Pennsylvania

Dear Gerhard:

Glad to hear that the Catalog is progressing well. Charlie Trotter was here last week, as you know, and he gave me the impression that you had decided not to make cards for the genera. I appreciate the difficulties that would be involved, but despite these difficulties, I wonder if it is wise to refrain from including genera in the Catalog. Of course, genera are really nothing more than collections of species. Hence, all of the essential information is provided by cataloging the species only, but I feel that the catalog ought in some way to provide information about the authorship and descriptions of the genera. I must consider the possibility, of course, that Charlie has merely misunderstood your intentions.

Sorry that there has been such a delay in answering your request for my photographs. I hope it is not too late for me to send you with this letter, not the original photographs, but the original photographs of my plates, as made by the Bureau of Mines. These are not quite as good as the originals themselves, but they are much better than the published versions.

Relative to your comment on my stand on Article 68, of the International Code of Botanical Nomenclature, I have apparently not made myself completely clear to you. My stand is that fossil species of Sequoia, as given in the example in Article 68, are organ species. To me it seems self evident that they are. In fact, all fossil plant species are, in my view, organ species, not species of whole plants. I stated in my paper at Storrs that at some future date there may be such a thing as a species of whole fossil plant, but at the moment there is no such thing. By "...a taxon of fossil...plants...." the International Code means an organ taxon.

Hunt Institute for Botanical Documentation

The term "Reihe", or series, has been given a different definition by the International Code than Potonie and Kremp have given it, and that is what Dr. Schopf pointed out in Storrs. In Article 13 it clearly states that "Series and subseries are categories which may be intercalated between subsection and species." Hence, it is wrong to use the term series in another sense, e.g. as a suprageneric term.

Would you be willing to make up a bibliography of Potonie's principal contributions and a very brief biography, for use in the poll of the Paleobotanical Section that we must make to select a corresponding member? I would appreciate receiving the material as soon as possible, if you are able to provide same.

Dr. Hans Bode was here last week. I believe he was quite disappointed that I could show him so little of immediate interest to him. But I did enjoy meeting him and getting some of his ideas on coal petrography and Carboniferous paleobotany.

Best wishes to you, to Hilde Grebe, and the others.

Yours very truly,

AT

Alfred Traverse

AT:bsm

Enclosures

Shell Development Company
Exploration and Production Research Division

Hunt Institute for Botanical Documentation

THE PENNSYLVANIA STATE UNIVERSITY
UNIVERSITY PARK, PENNSYLVANIA

COLLEGE OF MINERAL INDUSTRIES
DEPARTMENT OF GEOLOGY

September 5, 1956

Dr. Alfred Traverse
Shell Development Company
Exploration and Production Research
3737 Bellaire Boulevard
Houston 25, Texas

Dear Al:

Four days ago I came back from New York with Dr. Hilde Grebe. She arrived very well and is already working with me to complete the master key system that we will use in the card files.

I want to thank you very much for your active interest and help in making up the spore catalog and if you have any other suggestions we would certainly like to hear from you. We will try to prepare as quickly as possible the first hundred cards of this catalog.

May I ask you a personal favor? Could you send me the original photographs of your newly described species? I think we would get a much better copy from the original photograph than is possible from the picture in the book.

I really enjoyed meeting and talking with you about the problems of our common interest. Our discussion was very enlightening to me. Discussing for some days the same problems with Dr. Grebe, and looking into the International rules we found that Paragraph #68 of the rules gives only permission to put a fossil plant species into a living genus. As we understand it, Paragraph #68 mentions only fossil plants but not fossil organ species and that seems to be a big difference.

We both discussed in Storrs the meaning of the German term "Reihe". Looking in a modern German botany handbook, I found that the term "Reihe" is not a standard term in the plant system. We have in German the term "Hauptgruppen" (like Thallophyta). In each Gruppe we distinguished several "Klassen" (like Pteredospermae). The "Klassen" are divided into several "Ordnungen" (known by the ending -ales). The "Ordnungen" are subdivided into families, subfamilies, and genera. So when Potonie and Kremp, in 1954, used for their purposes the term "Reihe" it did not, I believe, interfere with the Articles #12 and #13 of the International Rules.

Best wishes to you in your work.

Sincerely yours,

Gerhard

Gerhard O. W. Kremp
Senior Research Associate

Hunt Institute for Botanical Documentation

THE PENNSYLVANIA STATE UNIVERSITY
UNIVERSITY PARK, PENNSYLVANIA

COLLEGE OF MINERAL INDUSTRIES
DEPARTMENT OF GEOLOGY

July 11, 1956

Dr. Alfred Traverse
Shell Development Company
Exploration and Production Research
3737 Bellaire Boulevard
Houston 25, Texas

Dear Al:

I am very sorry that your letter of June 12 did not arrive before my trip to Crystal Cliff. The sessions were very interesting and several papers about spores were given.

I would be very glad if you could make a visit to State College in late July or early in August. Bill Spackman will be here at this time too. It is possible that I may have to leave for a trip on August 10.

You asked about the missing slides in the type locality collection. Please check to see if you did get 278 slides as numbered on the list of the collection. I don't believe you did as I did not have duplicate slides for all the numbers and I believe you should have received and paid for only 258 slides. I hope this will answer your question; if not, pleast let me know.

Looking forward to seeing you soon in State College, I am with best wishes,

Yours sincerely,

Gkremp

G.O. Kremp

GOK:jd

DOCUMENT BOND
RAG CONTENT U.S.A.

Hunt Institute for Botanical Documentation

July 17, 1956

Dr. Gerhard Kremp
Mineral Sciences Building
Pennsylvania State University
University Park, Pennsylvania

Dear Gerhard:

Thanks for your letter of July 11. I have just talked with Bill on the phone, and told him that I plan to be in State College sometime around the fifteenth of August. It would be too bad to miss you at that time, and I hope that you will have returned by the seventeenth or so, if you are called away on the tenth. If not, perhaps I can arrange by phone for you to leave for my inspection some items that interest me.

I have checked with the stores department here and find that we did pay for 278 slides ($556.00), not 258. If this agrees with your records, perhaps it would be wise to arrange to pay $40.00 back. The check would be made payable to Shell Development Company and should be sent to the Stores Department, with a letter explaining that it is a credit on our Purchase Order RE-1193-WJC.

Looking forward to seeing you in August, I am,

Yours very truly,

AT

Alfred Traverse

AFT:rlg

bc - Stores - Mrs. Mitchamore

Shell Development Company
Exploration and Production Research Division

Hunt Institute for Botanical Documentation

June 12, 1956

Dr. Gerhard Kremp
Mineral Sciences Building
Pennsylvania State University
University Park, Pennsylvania

Dear Gerhard:

Hope this reaches you before you have left for the Crystal Cliffs Conference. I know you must be looking forward to that trip and that all of the Kremps will have a good time in the good old Maritimes.

Having got my suite of microscopes set up a few days ago, I have finally had occasion to begin studying the type locality collection we purchased from you last autumn. One curious thing was immediately apparent. The following slides are missing from the series: 39, 40, 41, 44, 45, 46, 47, 49, 50, 51, 52, 53, 164, 165, 167, 170, 175, 176, 182, 189. The slides were tightly packed together in pairs, so I am sure that none have slipped out. Can you account for the missing items?

I am still planning on visiting you in late July or in August, at your pleasure and convenience. Of course, it would be desirable for me to come when Spackman is in the vicinity also.

Very truly yours,

Alfred Traverse

AT:hmp

Shell Development Company
Exploration and Production Research

Hunt Institute for Botanical Documentation

January 18, 1956

Dr. Gerhard Kremp
Mineral Sciences Building
Pennsylvania State University
University Park, Pennsylvania

Dear Gerhard:

Thanks for the "Die Sporenfuhrung der Velener Schichten des Ruhrkarbons" and "The Most Important Results .... Germany" (your East Lansing paper). Of course, I was especially interested in "Stratigraphic Correlations in Paleozoic Horizons with Help of Plant Spores and Pollen." I am curious about the purpose for which this very concise yet complete summary was prepared. I have enjoyed reading it.

My trip is now over; I had a splendid time and learned much. I very much regret that I did not arrange to spend a longer time in Krefeld - I was just beginning to get into gear there when it was time to leave. Professor Dr. Potonie and I had only one evening to discuss the complex nomenclatural questions and could have easily spent days at it.

The next few weeks (months?) will be very crowded for me, as you can imagine. It may be that complete discussions of some of the results of my trip will have to wait until we next meet in person.

Very best wishes. I must also convey greetings from your former colleague in Krefeld, who asked to be remembered to you.

Very truly yours,

A. Traverse

AT:djh

Shell Development Company
Exploration and Production Research Division

Hunt Institute for Botanical Documentation

THE PENNSYLVANIA STATE UNIVERSITY
STATE COLLEGE, PENNSYLVANIA

Gerhard O.W. Kremp
COLLEGE OF MINERAL INDUSTRIES
DEPARTMENT OF GEOLOGY

State College.d.11.1o.55

Dr. Alfred Traverse

Shell Development Company
3737 Bellaire Blvd.
Houston 25, Texas

Dear Alfred:

Your nice letter was a great pleasure for me, thank you so much! I am very glad of course that you got permission to purchase the slides, the price is 556$ in all, just as you said it in your letter. After having purchase order I shall notify the Company that the slides have been shipped.
In the case you will get the trip fo Europe right now, my best wishes will be with you, I hope you will have a very good time. Otherwise I would be very glad to see you sometime this winter in State College.

With the best regards, I am

Yours sincerely,

Gerhard.

Hunt Institute for Botanical Documentation

THE PENNSYLVANIA STATE UNIVERSITY
STATE COLLEGE, PENNSYLVANIA

October 18, 1955

COLLEGE OF MINERAL INDUSTRIES
DEPARTMENT OF GEOLOGY
Gerhard Kremp

Dr. Alfred Traverse
Shell Development Company
Exploration and Production Research

Dear Alfred:

I am enclosing the bill for the slides in triplicate. I hope I did it in the right manner. Would you be so kind to direct it to the right plade.
I am looking forward to the meeting of the Geological Society in New Orleans. Do you also plane to take part? I would be very happy, if I could see you there. But, may be, by this time you are already an your way to Europe!
With the best wishes and regards I am

Sincerely yours,
Gerhard O. Kremp
Gerhard Kremp

I don't know, what I have to do with that stoff „Acknowledgement". So I put it in the envelope, only signed, hoping, that you will complete it, if nessesary.

Hunt Institute for Botanical Documentation

September 26, 1955

Dr. Gerhard Kremp
Research Associate
Pennsylvania State University
University Park, Pennsylvania

Dear Gerhard:

Your letter of 20 September is a splendid help, and I shall doubtless make much use of the information you so generously have supplied me.

Since I just arrived here yesterday, I have not as yet ascertained the timetable on the proposed trip to Europe. However, it now appears at least possible that it will be postponed until next spring. It's all very indefinite at the moment. I shall keep you informed.

Tell Bill that my old Dodge breathed its last in Norton, Kansas, on the trip to Indianapolis to deposit my wife and children with her family, before I came here. We had to buy another car to complete the trip. Just like the Pony Express changing mounts, my wife said. (Bill can explain, if necessary).

Expect a more formal letter before long about the slides you gave me.

Certainly enjoyed seeing you again in East Lansing and hope it will not be too long before we meet again. Best regards to all.

Sincerely yours,

AT:hmp

Shell Development Company
Exploration and Production Research

Hunt Institute for Botanical Documentation

THE PENNSYLVANIA STATE UNIVERSITY
STATE COLLEGE, PENNSYLVANIA

COLLEGE OF MINERAL INDUSTRIES
DEPARTMENT OF GEOLOGY

September 20, 1955

Dr. A.F. Traverse
Shell Development Company
Houston, Texas

Dear Al:

As a result of our talk at the meeting in Michigan, I am sending you a list of scientists who are well known in Europe in palynological work. It might be interesting and helpful for you, and your work in the Shell Oil Company, to visit them.

Most of these scientists may be well known to you. However, in some cases I feel I had better give you a few facts about them.

Dr. Firbas is one of the best known palynologists working in Pleistocene and alluvial strata. Dr. Potonie is now retired, and if writing to Krefeld you should address your letter to Dr. Rein. Dr. Rein is the head of a palynological laboratory in Krefeld where spore work is being done in the German Tertiary coal mines. One of his co-workers is Dr. v.d. Brelie. He spent the last year in Turkey doing pollen analyses on Tertiary lignites in Anatolia province. Dr. Hilde Grebe did palynological research work on Paleozoic and Mesozoic coals of Germany with me. Dr. Madler started his spore work in Hannover with investigations on the Jurassic Posidomen shale.

W. Krutzsch and Dr. Horst work together in the Geolog. Landesamt of Berlin. Horst is the oldest and may also be the more experienced of the two but for political reasons he does not have a sure position in East Berlin. If you plan to visit him, please address his letters to Dr. Thiergart's West Berlin home, as we always did in our correspondence from Krefeld.

Dr. Pichi -Sermoilli, a botanist, who is working mainly with the spores of modern plants, was a delegate from Italy at the foundation of the International Palynological Commission in Paris in 1953.

If you wish to contact the Russians do not write to Kouprianova or Naumova but address your letters to the Palynological Commission in Leningrad. We were advised to do this by Mrs. Kouprianova last year in Paris.

Manum, a pupil of Hoeg, is working with the Tertiary spore flora of

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Spitzbergen. Godwin's primary work is in the Pleistocene and Alluvium. Smith is working primarily with spores of Pennsylvanian age.

With the best wishes that you are now successfully settled in Houston and that you are happy in your new position, I am,

Sincerely yours,

Gerhard O. W'Kremp

Gerhard O.W. Kremp
Research Associate

GOWK:jd

Hunt Institute for Botanical Documentation

I. Netherland

Dr. S.T. Dijkstra
Geol. Bureau of Netherlands
Akerstraat 88
Heerlen

Dr. H.T. Waterbolk
Bataafsche Petroleum Maatschappig
The Hague

Univ. of Groningen?

Dr. Th. b.d. H. Florschütz
Rijksmuseum von Geologie u. Mineralogie
Garenmarkt 1b
Leiden

II. Germany

Prof. Dr. F. Firbas
Botanisches Instiut der Universität
Göttingen

Dr. U. Rein
Amt f. Bodenforschung
Westwall 124
Krefeld

Prof. Dr. R. Potonie, Dr. H. Grebe, Dr. G.v.d. Brelie
Amt f. Bodenforschung, Krefeld

Dr. H. Pflug
Geologisches Institut der T.H.
AAchen

Prof. Dr. H. Weyland
Müllerstrasse 139
Wuppertal - Elberfeld

Dr. K. Mädler
Amt. f. Bodenforschung
Hannover
Wiesenstr. 72

Dr. F. Thiergart
Elch-Apotheke
Ludolf- Finger Platz 2
Berlin - Frohnau

Dr. U. Horst
c/o Dr. F. Thiergart
(Geolog. Landesamt
Invalidenstr. 4
Berlin N.4)

W. Krutzsch
Geolog. Landesamt
Invaliden str. 4
Berlin N.4

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III. Austria

Dr. W. Klaus
Geologische Bundesanstalt
Rasumofskygasse 23
Wien

IV. Italian

Dr. R.E.G. Pichi-Sermoilli
Instituto Botanica dell' Universita
Via Lamarmora 4
Firence (Florence)

V. Russia

Société Botanique de l'Union Sovietique
Commission Palynologique
me Prof. Popow 2
Leningrad 22

Mme. L.A. Kouprianova
Cand. Sc. Biol.
c/o Acad. Sc. d'USSR
Moscow

VI. Finland

V.V. Kujala
Prof. of Forest Biology
Forest Research Inst.
Unioninkatu 40A
Helsinki

VII. Sweden

Prof. Dr. G. Erdtman
Palynological Laboratory
Ranhitsvägen 22
Bromma

VIII. Norway

Dr. K. Faegri
Botanic Institute of University
Bergen

Prof. Dr. A.O. Hoeg and S. Manum
Botan. Inst. of University
Oslo - Blindern

IX. Denmark

Dr. Johannes Iversen
Denmark Geologiska Undersokelse
Charlottenlund, Copenhagen

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X. England

Dr. H. Godwin
Cambridge Botanical School
Cambridge

(Mrs.) Dr. E.M. Knox
43 Dalhousie Terrace
Edinburgh 10, Scotland

Dr. A.H.V. Smith
National Coal Board
North-Eastern Division
Scientific Dept. (Coal Suvey)
14 Endcliffe Avenue
Sheffield, 10

Hunt Institute for Botanical Documentation

August 26, 1955

Through Chief, Br. of Coal Tech.

Dr. Gerhard Kremp
Visiting Professor of Geology
Mineral Sciences Building
Pennsylvania State University
University Park, Pennsylvania

Dear Gerhard:

Enclosed are the publications on carbonization and so forth that you loaned me some time ago. You may have heard from Bill Spackman that I have recently resigned here to accept a job in palynology with Shell Oil Company. More about that when I see you in East Lansing.

Very truly yours

Alfred Traverse, Head,
Fuels Microscopy Laboratory

cc A. Traverse/dw
Enclosures

Hunt Institute for Botanical Documentation

August 3, 1955

Through Chief, Br. of Coal Tech.

Dr. Gerhard Krumb
Visiting Professor of Geology
Mineral Sciences Building
Pennsylvania State University
University Park, Pennsylvania

Dear Gerhard:

In connection with our discussion of the propriety of putting fossil species in genera described for recent material, I wrote the I. A. P. T. for a copy of the latest rules. They reply that the 1950 rules are out of print, and the 1954 rules are not yet available. I have, however, succeeded in borrowing a copy of the 1950 rules and have been busy perusing them for information about the point at issue.

I enclose copies of three of the pages that contain the pertinent information. It is true that the first part of Article PB. 1 seems to say that detached organs must be put in organ-genera. However, it seems to me that that is a misinterpretation. (Article PB. 2, for instance, speaks of "fossil plants and...organ-genera....").

But see also Article 68, p. 38. This clearly states that a fossil genus and a recent genus can be united. If they are united, clearly the species of the fossil genus become species of the recent genus. This proves that under the rules fossil species of recent genera are permitted. If they were not permitted Article 68 would be meaningless.

I would be happy to have any comments you or Bill would care to make about this.

Very truly yours

Alfred Traverse,
Head, Fuels Microscopy Laboratory

Enclosures

ec Alfraverse/dr

Hunt Institute for Botanical Documentation

THE PENNSYLVANIA STATE UNIVERSITY
~~STATE COLLEGE, PENNSYLVANIA~~
University Park, Pennsylvania

COLLEGE OF MINERAL INDUSTRIES
DEPARTMENT OF GEOLOGY

July 26, 1955

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

Dear Al:

In response to your request, Eisenack's address is:

Dr. A. Eisenack
Geol. Institut der Universitat
Siegwartstr. 10
Tuebingen, Germany.

Also, it would be much appreciated if you could return the original plates to me directly.

With best regards,

Sincerely yours,

Gerhard O.W. Kremp

Gerhard O.W. Kremp
Visiting Professor of
Geology

GOWK:jd

Hunt Institute for Botanical Documentation

July 5, 1955

Through Chief, Br. of Coal Tech.

Dr. Gerhard Kremp
Visiting Professor of Geology
Mineral Sciences Building
Pennsylvania State University
University Park, Pennsylvania

Dear Gerhard:

Thanks for your letter of 29 June and for the packet of books and papers that arrived in the same mail. I am very happy to have the copies of your papers, "Sporen-Vergesellschaftungen und Mikrofaunen-Horizonte im Ruhrkarbon" and "Pollenanalytische Untersuchung des Braunkohlenflözes von Beuern bei Giessen".

I shall have the other two papers copied promptly and will send second copies to Dr. Hoffmeister, as you suggest. Did you want me to send him your original plates as well? It was certainly nice of you to send the plates to me. I entertain some fear that the trip around the country is not too healthy for them--several of the photos seem very loose and a couple have come off. I am trying to prevent any more wear and tear than necessary!

We are very interested in the various publications on gasification, carbonization, etc., and hope it will be all right with you if we keep them for a while. We shall have all, or at least most, of them copied for future use.

It is very flattering to be asked to use the appendix that I wrote. You may use the material in any way you choose. When I was working up that appendix I very often wished that I could talk it over with someone familiar with the German work at first hand. As it was, I had only the publications, no knowledge of the personalities involved, etc. This was a rather serious handicap. And I had nobody with whom to talk. So you can imagine how much I enjoyed your visit here. Furthermore, it was a good time for non-professional reasons!

Hunt Institute for Botanical Documentation

I hear that my wife had a short visit in University Park a couple of weeks ago. She has not come home yet, so I don't know whether she met you or not. I hope so.

With best regards, I am

Very truly yours,

Alfred Traverse
Head, Fuels Microscopy Laboratory

cc J. H. Kaut, Jr.

ATraverse/dw

Hunt Institute for Botanical Documentation

THE PENNSYLVANIA STATE UNIVERSITY
~~STATE COLLEGE, PENNSYLVANIA~~
University Park, Pennsylvania

COLLEGE OF MINERAL INDUSTRIES
DEPARTMENT OF GEOLOGY

June 29, 1955

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

Dear Al:

Now, again home, I wish to thank you very much for the hearty welcome you gave me on my visit to Denver. It was very fine and valuable to me that we could talk together. I am sorry that the time was so limited as I wished to talk longer with you.

Under separate cover I am returning the 3 papers of Shinada and the 2 of Sen. I am sorry that I took these papers with me. It was not my intention and I hope you did not lose too much time by this mistake.

Thank you very much for your letter of June 20. It is very fine of you to let me keep the papers of Wodehouse until I have my own copies.

Along the ~~the~~ Shinada and Sen papers I am including two papers of my own. I am very sorry that I have only one copy of each of the papers on the Tertiary pollen floras from Konin and Niedersachsen but perhaps you can make copies of them. Because I know that it is very important to have good pictures, I have included the original photographs from the Konin paper. I would appreciate it very much if you could make the copies as soon as possible as I promised to send both papers to Dr. Hoffmeister for him to make copies also. I will need the papers for preparing my own paper for the East Lansing meetings and would like to have both papers back at least by the end of July. Perhaps you could send the originals (or second copies) of them directly to Dr. W.S. Hoffmeister, Carter Oil Company, 1133 North Lewis Street, Tulsa Oklahoma.

In the matter of the Low-Shaft Blast Furance and Briquettiering problems, I am sending you some books and papers of my own which may be of some help to you:

1. Leitfaden der Brennstoff-Brikettierung
2. Construction of Low-Shaft Blast Furnace Nears Completion
3. Beitrag zur Entwicklung des Niederschachtofens
4. Low Shaft Blast Furnace
5. Braunkohlen-Hochtemperaturkoks
6. Koppers Generatoren
7. Synthesegas durch Vergasung von Brennstoffen aller Art nach Koppers-Totzek.

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I mentioned to you that a Low-Shaft Blast Furnace method which seemed to be a great success had been developed in Duisburg. I will write to the engineers asking if they are able to give detailed information about their methods.

With great satisfaction I read again the appendix of your manuscript about the chaotic state of Tertiary spore nomenclature and I can only say that you expressed there in a logical and clear way the same understanding to which Dr. Potonié and I arrived (only with the little difference that we believe we have to use names of published organ genera if they are valid after the International Botanical Nomenclature Rules on the basis of type and priority principles.)

As you may know, I have to prepare a report for the East Lansing meetings on the taxonomic methods used by German, Dutch and French investigators. Because I am still a little awkward in my use of the English language, I would like to ask if you would permit me to use your appendix as a help in preparing my own talk. Of course, I would mention your name, in this case, but I would not use your appendix as a basis of discussions against your own proposal.

I hope that you soon get the chance to work full time in spore research investigations. With best wishes,

Sincerely yours,

G. O. W. Kremp

Gerhard O.W. Kremp
Visiting Professor of
Geology

GOWK:jd

Hunt Institute for Botanical Documentation

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

September 23, 1954

Dr. Gerhard Kremp
Amt für Bodenforschung
Landesstelle Nordrhein-Westfalen
Krefeld, Westwall 124
Germany

Dear Dr. Kremp:

Thank you for the reprints of your papers recently sent me, through the Smithsonian Institute. "Gattungen der paläozoischen Sporae . . ." will be very useful for reference.

I was also especially pleased to have the paper by you and the Teichmüllers on coal pebbles in the Lower Cretaceous. We are currently investigating the abundant occurrence of Tertiary coal pebbles in the glacial drift of North Dakota.

Very truly yours,

AT

Alfred Traverse
Coal Technologist

ATraverse:vh

cc: Lankford
Region V
Traverse
File 625.1
C File

Hunt Institute for Botanical Documentation

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

April 10, 1953

Dr. Gerhard Kremp
Amt für Bodenforschung
Landesstelle Nordrhein-Westfalen
Krefeld - Westwall 124
Germany

Dear Dr. Kremp:

Many thanks for the copy of your paper, "Sporen-Vergesellschaftungen und Mikrofaunen-Horizonte im Ruhrkarbon", which came today. I much appreciate receiving copies of your publications for use in my work.

Very truly yours,

Alfred Traverse
Coal Technologist

cc Dr. Traverse
File

Hunt Institute for Botanical Documentation