

PALYNOS

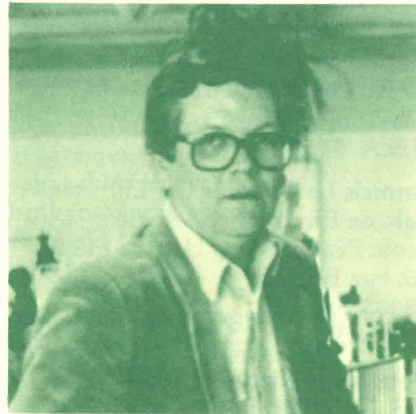
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Volume 11, No. 2 - December 1988

NEWSLETTER of the INTERNATIONAL FEDERATION of PALYNOLOGICAL SOCIETIES

JARZEN'S LAST HURRAH

(Ed. Note: Dr. David M. Jarzen, Secretary-Treasurer of IFPS the past four years, distributed copies of his "Last Memorandum" on September 3 at the final plenary session of the 7th IPC in Brisbane. Your editor believes that this document deserves wider dissemination among palynologists--thus, it is reprinted here).



Having now completed four years as IFPS Secretary-Treasurer, I take this opportunity to impress upon you the importance of communication among palynologists on a worldwide scale.

As Secretary, I have been the recipient of literally reams of correspondence, newsletters and other forms of communication which have allowed me a more complete insight into my own science, palynology. I have become aware of the palynological community, its achievements, problems, needs, and its future. Some of this information is recorded in *Palynos* but much of it remains locked in the IFPS correspondence and Archives. This information must be shared.

The so-called computer age cannot really assist IFPS as yet because of distance, languages, logistics and, of course, financial constraints. For now we must be content with the written

word and telephone conversations. In the future, computer and satellite transmission of data may be within the reach of IFPS; however, until that time, the following suggestions will certainly shorten the "tyranny of distance."

1. Member societies must communicate regularly with news items, membership lists, special symposia, new ideas, and general information, not only with the Secretary-Treasurer, but also with the Editor of *Palynos*. Dr. J. Canright has created a professional vehicle, *Palynos*, which has become our principal contact between Congresses. It can be considered the IFPS keystone, the object on which its members depend for communication.
2. Member societies should be aware of the establishment at the Hunt Botanical Library, Pittsburgh, of the IFPS Archives, currently under the care of Dr. A. Traverse. Societies are encouraged to forward historical or otherwise considered important documents to the Secretary-Treasurer to be screened for inclusion in the Archives.
3. *The World Directory of Palynologists*; now a reality, as a result of the dedication and hard work provided by Dr. R. Fensome and his associates. Societies as well as individual members are urged to update necessary information to the *World Directory*.

In 1992 we will once again meet as a group in Aix-en-Provence for the 8th IPC. It would be encouraging to know that the four years spent within that time were advantageously used to increase communication, promoting awareness of palynological

events worldwide, and most assuredly that time and distance have not lessened the purposes that are noted in our constitution.

This year we welcomed two new societies, LS (Linnean Society Palynology Group) and PTPB (Precambrian to Tertiary Palynologists of Belgium). Have we now covered all palynologists worldwide or are there others yet to share their information with the palynological community?

Colin McGregor, our President for 1984-88, has kept the rudder in the water and our sails fully displayed. Under his direction IFPS has moved forward in the tradition of those presidents who have preceded. Colin and I worked under predetermined restraints and convictions. Costs in producing *Palynos*, *The World Directory of Palynologists*, an archives and seed money for the 7th IPC have made their mark on our financial health. Might I suggest here that the 1988-92 Council consider for the first time in 20 years an increase to \$2 U.S. in society dues per member per year?

Appreciation is here expressed to the Societies, the Councillors, the Members, to Jim Canright, Al Traverse, Rob Fensome and especially Colin McGregor, who in 1984 asked me to serve as Secretary-Treasurer. It has been my humbling experience to attempt to perform a job for which I had little preparation. All of you not only made it possible but made it enjoyable.

See you in Aix!

Respectfully,

David M. Jarzen

IFPS MEMBER SOCIETIES AND COUNCILLORS

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- ALPP** (*Asociacion Latinoamericana de Paleobotanica y Palinologia*)
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- APLE** (*Asociacion de Palinologos de Lengua Espanola*)
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- CAP** (*Canadian Association of Palynologists*)
D.M. Jarzen
- CIMP** (*Commission Internationale de Microflore du Paleozoique*)
B. Owens & one TBA*
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- GPSBI** (*Gruppo di Palinologia della Societa Botanica Italiana*)
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S. Blackmore
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- PPAA** (*Palynological and Palaeobotanical Association of Australasia*)
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K. Takahashi
- PSL** (*Palaeobotanical Society, Lucknow*)
V. Venkatachala
- PSP** (*Palynological Society of Poland*)
E. Turnau
- PTPB** (*Precambrian to Tertiary Palynologists of Belgium*)
M. Streel

- SPC** (*Soviet Palynological Commission of the Botanical & Paleontological Societies*)
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*To be appointed.

COLLECTING THE SAMPLES

by

A palynologist in Canada

Imagine, if you will, the Outpatient Department of a Large Urban Hospital. Everything glistens and smells of disinfectant. Everyone goes around in pristine white lab coats, carrying clipboards.

Arranged around the Central Storage Area are Private Examination Rooms (so labelled), equipped with sliding signs announcing "Examination In Progress" or otherwise. One hears, at regular intervals over the loudspeaker, "Paging Dr. So and So. Paging Dr. So and So. Dr. So and So, please report to Examination Room Such and Such."

At the appointed hour, Client enters with Specialist Consultant—a Palynologist. Purpose of appointment: to collect samples for analysis by Specialist Consultant.

At the Reception desk, Client and Specialist Consultant are given Visitor's Badges, requested to leave attaché cases, etc., at the desk, and instructed not to wander around without escort.

A White Coat immediately appears to escort Client to Private Examination Room. As the nearly deserted corridors are traversed, Client and White Coat converse in hushed tones. Upon entering the Examination Room, White Coat picks up telephone to announce that Client's core may now be delivered. He then demonstrates the switches which provide ultraviolet light and control the volume of Musak.

In due course, a gurney arrives with core. Client remarks—after he has carefully studied the core—that there is some mistake: this core belongs to Another Client.

The correct core is at last in place on the examination tables. White Coat, who has been carrying on a one-sided conversation on something or other to do with hockey, becomes Business Like. Checklist in hand, he discusses Tests-to-be-Run with Client. "And don't you think, Mike, that a Whatever at half-metre intervals would be appropriate here? No? Well, what about a Thus at three metre intervals? Good! A wise choice, if I may say so! Now, let's consider . . ." (Specialist Consultant estimates extra work to the tune of \$50-\$75 grand has just been commissioned, and regrets having already quoted his puny fees.)

Finally, after a few looking-down-the-nose queries as to the purpose of the Specialist Consultant's presence, White Coat leaves Client and Specialist Consultant alone to collect samples.

Just as Client and Specialist Consultant get organized, a more junior White Coat—who introduces himself as Mr. Ma—enters, and asked if he may be of any assistance. Client assures Mr. Ma that no further assistance is required. Mr. Ma withdraws.

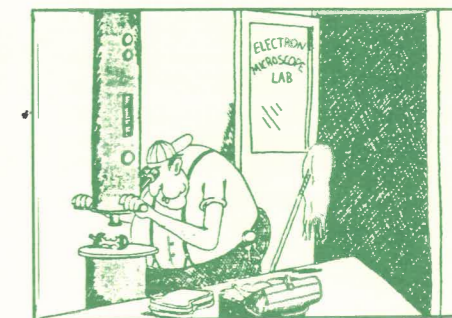
Appropriate samples are quickly selected for examination by Specialist Consultant. At this point, Client and Specialist Consultant realize that the sample bags they each brought have been left in their attaché cases at the Reception Desk on the far side of the building. The room is then searched for an alternate supply of sample bags. A drawer beneath the wash-handbasin looks promising. It yields: disposable examination gloves, forceps, acid, a key to the microscope, three tablets of Analysis Request Forms, a packet of chewing gum, and a number of disposable face masks. It does *not* yield sample bags.

Client picks up telephone: "Mr. Ma. Paging Mr. Ma. Mr. Ma, please report to Examination Room Number 3. Repeat. Emergency in Examination Room Number 23. Mr. Ma . . ."

After approximately fifteen minutes, Mr. Ma reappears. A request for sample bags is submitted. "How many sample bags do you require? Twenty? Okay!"

Half an hour later, exactly twenty sample bags (cheap variety) arrive.

Ed. Note: For obvious reasons, the author of this article wishes to remain anonymous. However, this article has been copyrighted, thus anyone wishing to utilize any or all of this story should contact me and I will contact the author for permission.



IFPS PRESIDENT'S MESSAGE

Tucson, Utrecht, Novosibirsk, Lucknow, Cambridge, Calgary, Brisbane--international palynological congresses are by now a well-established tradition. They continue to serve a useful purpose as an interdisciplinary meeting place for palynologists from all continents. After six meetings in the Northern Hemisphere, it appeared especially appropriate that the *Palynological and Palaeobotanical Association of Australasia* succeeded in bringing the 7th IPC "down-under" as an Australian Bicentennial activity. The palynological world is grateful to 7th IPC Co-Chairmen **Noel de Jersey** and **Geoff Playford**, as well as their PPAA colleagues, for their laudable efforts in making the Brisbane Congress eminently successful.

To the younger generation of palynologists, the linkage between the regular palynological congresses and the *International Federation of Palynological Societies* may seem obvious. However, we should all be aware that it took many years of patient diplomacy before the members of the diverse palynological community finally agreed to form an international organization. Several early attempts failed, and even at the 1962 conference in Tucson, a proposal to form an international organization was rejected by a majority vote of the delegates. Nevertheless, at this same meeting there was no objection to the nomination of the *International Palynological Conference Committee*. Although charged solely with arranging another conference, this committee continued to explore the possibilities and limitations of creating a permanent organization. The following four valid reasons were cited in favour of such an organization: (1) Liaison is needed among the isolated disciplines that often overlap in the field of palynology; (2) There is no representative body with the authority to present our views to various institutions; (3) The attention of non-palynologists could be drawn to the potentialities of our work and the proper use of our results; (4) It is much easier to obtain grant monies, conference sites and other support for our endeavors if palynologists were organized as a formal group.

At the 2nd IPC in Utrecht in 1966, the reality of the above points was appreciated; as a result, a majority of

the delegates supported the establishment of an *International Committee for Palynology*, a working group which was given authority to prepare a constitution for a permanent international association. Yet it took another ten years of laborious discussion and negotiation before a constitution could be ratified in Lucknow. The ICP (after Novosibirsk in 1971 "Committee" was changed to "Commission") was accepted as an umbrella association of the world's palynological societies. At the Cambridge (UK) meeting in 1980, a lobby was initiated to alter the name of the ICP, in order to more accurately reflect the federative status of this international organization. Accordingly, at the 1984 Calgary meetings ICP was formally rebaptized as the *International Federation of Palynological Societies*. Thus, after more than two decades, with the acceptance of the IFPS constitution, the difficult tasks of the successive committees and commissions was finally accomplished. During the four years between the Calgary and Brisbane meetings, IFPS rapidly developed into a well-structured and well-administered mature organization.

Wim Punt and I feel highly honoured by our selection to follow in the footsteps of the teams of **Frank Staplin**, **Frits Jonker**, **Norman Hughes**, **Al Traverse** and **Claude Caratini** that had the difficult task of shaping an international palynological organization, and the team of **Colin McGregor** that guided IFPS to adulthood.

We strongly believe in the old maxim, "If it ain't broke, don't fix it", so do not expect radical changes in the IFPS infrastructure and administrative procedures set up by our immediate Canadian predecessors. We are pleased that both **Colin McGregor** and **David Jarzen** will remain on the IFPS Council. And despite his "sayonara" in the previous issue of *Palynos*, we were able to convince **Jim Canright** that a good American editor should not retire at the moment when IFPS is being burdened with a double-Dutch administration. Also, we feel that our archives, cherished by **Al Traverse**, should remain in the New World. Unfortunately, **Rob Fensome** is not in a position to continue his work on *World Directory of Palynologists*; we hope to find a successor who will

be similarly dedicated to this important project.

The four reasons formulated by the *International Palynological Conference Committee* back in the early 60's are still the basis for the existence of our federation. However, during our administrative term we hope to give special attention to their Point #4--obtaining funds. We believe that financial aid is especially needed to give graduate students the opportunity to participate in our international meetings, even if these are held in remote places. I appeal to all our constituent societies to adopt this philosophy and to start exploring every source of potential sponsorship. The 8th IPC will be held in Aix-en-Provence, France in 1992. I sincerely hope that this congress will become known as the meeting were the youngest generation of palynologists from all over the world had the chance to be seen and heard.

Henk Visscher, Pres. IFPS

Hey, That's Not My Cat!

Sometimes airlines go to extraordinary lengths to keep the customer happy.

Just how far was recently illustrated by the efforts of one of Australia's domestic carriers when it shipped a pet to a Queensland city.

On arrival at destination the animal, a black cat, was found to be dead.

Out of concern for the owner's feelings, the cargo staff went to the local RSPCA to find a suitable substitute, taking great care to ensure the replacement closely resembled the deceased.

After anxious examination, they decided they had finally found one and duly delivered the animal to its owner.

Imagine their surprise when the elderly lady owner, on seeing the cat said, "That's not my cat!"

The well-meaning cargo officer insisted it was, as all the documentation was in order, and the lady was equally insistent it couldn't be.

After some minutes of discussion and with increasing anxiety, the cargo officer finally asked how she could be so sure it wasn't her pet, to which she replied: "My cat died last week and I was flying it home for burial!"

(Taken from *Quantas News*, March 1987. Submitted by D. M. Jarzen.)

7th International Palynological Congress

7th IPC was held in Brisbane, Australia, during the end of August and the beginning of September. The final registration was about 300 people, but the pre-registration was small, which caused a lot of problems for the organizers, particularly with regard to cash flow and planning the field trips. The technical sessions were well-planned and went very smoothly; the session convenors rigorously enforced time limits on talks, and the audiovisual arrangements were good. Most of the talks were informative and worth attending. The two evening banquets had large attendances, and everybody seemed to have a good time eating, drinking, and meeting people. As at all international conferences, the best part of the congress was getting to know new people, and especially having a chance to meet colleagues with whom one has corresponded but never met. The site of the meeting, the University of Queensland, is located in St. Lucia, a suburb of Brisbane. Its pretty, spacious campus was an attractive place in which to take walks between sessions.

Several of the field trips, especially the more expensive ones, had to be cancelled or shortened because of low registration. However, the trips that took place were scientifically very interesting; the field trip leaders were outstanding. From my own point of view, the chance to see a variety of tropical forest types was the highlight of the entire congress.

For most of us, this was a once-in-a-lifetime chance to see Australia, and we were not disappointed; everybody I talked with enjoyed it immensely.

The 8th IPC will be held in 1992 in Aix-en-Provence, France. The 8th IPC representatives held a slide show extolling the virtues of Aix as a really beautiful and interesting city, and they have planned what should be scientifically and scenically very worthwhile geological and botanical field trips to various parts of France.

Norman Frederiksen
President, AASP

Ed. Note. The above report was reprinted with permission from the *AASP Newsletter* 21(4) of October 1988. A recent Telex from **Mary Dettmann**, Program Convenor of the 7th IPC, adds the following information: *Final Registration*- 310 dele-

gates plus 45 accompanying members; Program- 290 oral presentations and 45 posters. Approximately 90 papers have been submitted for the Proceedings Volume, which will be published prior to 1990. "The Organizing Committee thanks all authors, chairmen and convenors for their hard work and assistance."



L-R: Mary Dettmann, Program Convenor and Sue Jarzen, Program Secy. 7IPC. (JEC photo).



Above L-R: Norman Hughes (U.K.), B.S. Venkatachala (India) and John Rowley (Sweden). Reputedly the only palynologists attending all 7 international palynology meetings. Below L-R: ICP/IFPS Presidents at 7IPC Brisbane. N. Hughes (1971-76); A. Traverse (76-80); C. Caratini (80-84); D.C. McGregor (84-88); H. Visscher (88-). (Orig. Kodachromes by S. & D. Jarzen).

MEET YOUR NEW SECRETARY-TREASURER

The individual recently selected to be the new Secretary-Treasurer of IFPS is Dr. **Willem (Wim) Punt** of the State University of Utrecht in the Netherlands.

At least in North America, it has been said that scientists average three positions in different institutions during the course of their professional careers. However, Wim Punt serves as an outstanding exception to this trend, for his entire professional career has been spent in some capacity of the State University of Utrecht since 1949, when he matriculated into their undergraduate biology program. Following graduation and the completion of a Master's degree in biology, in 1958 he was accepted into the Ph.D. program in Botany under the joint guidance of Professor **Lanjouw** (Taxonomy) and Professor **Jonker** (Pollen Analysis & Palaeobotany). In 1962 he was awarded the Ph.D. by this university; his dissertation was entitled, *Pollen Morphology of the Euphorbiaceae, With Special Reference to Taxonomy*. This was published in *Wentia* (7:1-116, 1962), a journal of the *Koninklijke Nederlandse Botanische Vereniging* (Royal Botanical Society of the Netherlands).

Following three months of post-doctoral study in the Stockholm laboratory of Professor **Gunnar Erdtman**, Wim accepted appointment to the position of Junior Scientist at the University of Utrecht, with the assignment of teaching pollen morphology to students of both botany and geology. Although initially he placed emphasis on the phylogenetic



Willem Punt

aspects of pollen morphology (especially in the families Loganiaceae, Dichapetalaceae and Euphorbiaceae), gradually his interests broadened to include certain aspects of aeropalynology, melitopalynology and palaeopalynology (of the Tertiary).

Since 1975 one of his most important research projects involves the organizing and editing (in collaboration with the British Museum palynologists, **G.S.C. Clarke** and **Steven Blackmore**) of "The Northwest European Pollen Flora," of which five volumes covering 43 families have already appeared. (Further information about this NEPF series can be found in *Palynos* 9(1):5, 1986).

Additionally, since 1972 Wim has served as Editor-in-Chief of the prestigious international journal, *Review of Palaeobotany and Palynology*, published by Elsevier in Amsterdam.

Although the above-listed details would seem to indicate that Dr. Punt's life is completely devoted to palynology, he reports that he still manages to find time to socialize with his family, practice the piano and to enjoy such hobbies as photography, philately and tennis.

VII SIMPOSIO DE PALINOLOGIA A.P.L.E. GRANADA, 26-30 Septiembre 1988

Prof. J-P Suc (Montpellier) reported on the plans for the 8th International Palynological Congress which will be held in Aix-en-Provence (France) in 1992.

At the conclusion of the scientific program, the APLE General Assembly convened and elected the following officers:

President - **M.C. Risueño** (Centro Invest. Biol., Inst. de Biol. Celular, Velasquez 144, Madrid 28006)

V. President - **J. M. Roure-Nolla** (Dpto. de Botánica, Univ. Autónoma de Barcelona, Bellaterra, Barcelona)

Secretary - **M.J. Diaz-Dapena** (Dpto. de Botánica, Avda. Reina Mercedes s/n, 41012 Sevilla)

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C. Gómez-Farreras (Dpto. de Botánica, Univ. Complutense, 28040 Madrid)

I. La-Serna-Ramos (Dpto. de Botánica, Univ. de La Laguna, Tenerife)

Councillor to IFPS - **M. I. Rodríguez-García** (Estacion Exp. El Zaidin, Profesor Albarada 1, 18008 Granada)

The VIII APLE Symposium on Palynology will be held in Tenerife (Canary Islands) on a date in 1990 to be announced later.

M.C. Risueño, Pres. Madrid, Spain

BOOK REVIEW

Palynological and Palaeobotanical Studies in Honour of Basil E. Balme.

P. A. Jell & G. Playford, editors. *Memoir No. 5* of the *Association of Australasian Paleontologists*, 1988, pp. 341. A\$40, softback. National Library of Australia card numbers ISBN 0 94946604 2; ISSN 0810-8889.

"This volume has been assembled by many of his former students and associates in the year of his official retirement from the University of Western Australia. It is intended as a mark of appreciation and respect to one who has contributed so much to the development of palynology, especially stratigraphic palynology, in the Australian region." (From the preface by **Geoffrey Playford** & **Elizabeth M. Truswell**).

This book is an appropriate tribute to **Basil Balme** who has indeed made so many varied and significant contributions to the study of Australian spores and pollen, especially of the Devonian, Carboniferous, Permian and Mesozoic. This volume covers a wide range of subjects, from Ordovician acritarchs to Recent dinoflagellates in the marine realm, to spores and pollen from the late Paleozoic to the record of late Tertiary *Eucalyptus* pollen from the nonmarine microfloras.

The seventeen papers comprising this volume can be roughly divided into the following categories:

- 1) Spore and pollen studies, mainly descriptive, from late Paleozoic, Triassic and Pliocene to Recent (4).
- 2) Spore and pollen studies, descriptive, stratigraphic, mainly Cretaceous palynomorphs (4).
- 3) Dinoflagellate studies, stratigraphic, descriptive, Jurassic and Santonian (3).
- 4) Spore, pollen and dinoflagellate studies, descriptive, stratigraphic, Eocene (2).
- 5) Acritarchs, descriptive, stratigraphic, Ordovician and Eocene (2).
- 6) Recent dinoflagellates (1).
- 7) Paleobotany, Permian *Glossopteris* (1).

It is not possible in the space provided to comment on all of the papers in this volume. Accordingly, the following remarks reflect my major interests in the stratigraphic aspects of palynology and/or illustrated stratigraphic catalogs of palynomorphs.

In their paper on the Lower Ordovician acritarchs of Queensland, **G. Playford** and **R. Wicander** describe and illustrate a microflora "with little relationship to other known palynofloras." (Frequently, however, such floras, once described, turn out to occur in other sites as well).

Neil Marshall and **Alan Partridge's** report on the new acritarch genus *Tritonites* from the Eocene of southeastern Australia illustrates the point made above very well. I discovered this palynomorph in the Eocene of California twenty years ago, but identified it as *Horologinella*. I'm glad to have found out its true identity after two decades.

The intriguing study by **John Filatoff** and **Peter Price** on the Mesozoic spore genera *Striatella* (*Cicatricosisporites* et al.) and *Contignisporites* includes the statement that these striate forms "have considerable potential for global stratigraphic correlation." I, for one, hope their conclusions will be able to stand the test of experience, because this will make life easier for the stratigraphic paleontologists concerned with the Mesozoic. In my opinion, there is a lot of utility in a convenient format in this paper.

An extensive (42 pp.) photographic catalog of Jurassic dinoflagellate assemblages from New Zealand by **Robin Helby**, **Graeme Wilson** & **J. Grant-Mackie** includes good brief discussions of these forms and their biostratigraphic value.

Neil Marshall describes the stratigraphic occurrence of 10 dinoflagellate species from the Santonian of the Gippsland Basin and relates their occurrence, albeit with difficulty, to existing Australian zonation schemes.

The palynology of the late Eocene lignitic sequence from the Eucla Basin (W. Australia) is described by **Lynne Milne**, and **Elizabeth Truswell** & **J. A. Owen** report on the Eocene pollen assemblage recovered from Bungonia, N. S. W.

Ten species of tricolp(orate) pollen (Normapolles and Proteaceae) from uppermost Cretaceous horizons of southern Australia and the Antarctic Peninsula are described by **Mary Dettmann** and **David Jarzen**; the geographic and stratigraphic distribution of these grains is included.

The book is sturdily-constructed with a stitched binding. Editing, illustrations and print are all first class. The papers are conveniently arranged in stratigraphic fashion. I estimate that there are about 90 full pages of high quality photographic plates, plus ca. 250 pages of informative texts, figures, tables and charts. Because of its eclectic nature, there is something included for almost all palynologists, and for those with broad interests, there is much. Obviously this book passed my personal acid test, because I purchased my own copy!

Congratulations to everyone involved in the production of this publication for keeping it a secret from Basil until it was presented to him at the conclusion of his Keynote Address at the Opening Plenary Session of the 7th IPC at Brisbane. I know he was immensely pleased, and I wish to add my own best wishes to a friend of 23 years--fair dinkum, Basil, we all owe you much.

Harold V. Kaska
Clayton, California

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PSC REPORT

The Third National Conference of the **Palynological Society of China (PSC)** was held in Yichang, Hubei Province from November 27-31.

One hundred and forty delegates attended this conference and presented about 50 research reports, either in the general sessions or in special symposia covering the following major topics: aerobiology in medicine, pollen morphology, palynological techniques, Quaternary paleoecology, and stratigraphic palynology of all four eras.

The delegates showed great interest in the development and achievements of these aspects of palynology over the past few years; in addition, special attention was focussed on the applications of palynological data in the national economy of China.

Many of the delegates also participated in the post-conference excursion to the famous Three Gorges on the Yangtze River.

During this conference a new 25-member Board of Directors of PSC was elected. The first board meeting resulted in the election of the following executive officers: *President - Zhichen Song; Vice-Presidents - Jintan Zhang, Jiduan Yang, Chuanben Zhao; Secretary-General - Shu Ouyang; Deputy Secretary-Generals - Danian Wang, Yinshuo Chen.*

At the close of this conference, Professor **Xu Ren** (Institute of Botany, Academia Sinica, Beijing) was recognized as the founding father of Chinese palynology, and by acclamation elected to the position of Honorary President of the Palynological Society of China.

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FUTURE MEETINGS

April 16-22, 1989

FOSSIL AND LIVING DINOFLAGELLATES (Annual Meeting), Woods Hole, Mass., U.S.A. (D.K. Goodman, ARCO Oil and Gas, 2300 W. Plano Parkway, Plano, TX 75075, U.S.A.)

May 1989

AFRICAN PALYNOLOGY (Symposium), Rabat, Morocco. (A. Ballouche, INSAP, av. John-Kennedy, casier postal, Rabat-Souissi, Morocco)

May 22-27, 1989

PALAEONTOLOGY AND STRATIGRAPHY (International Meeting), Messina and Taormina, Italy. Languages, Italian, French and English. (Centenario di G. Seguenza, Istituto di Scienze della Terra, Università degli Studi, 98100 Messina, Italy)

May 29-June 1, 1989

NONMARINE CRETACEOUS CORRELATIONS (IGCP-245 International Meeting), Drumheller, Alberta, Canada. (D.F. Stott, Geological Survey of Canada, 3303 - 33rd Street NW, Calgary, Alberta, Canada T2L 2A7)

July 5-8, 1989

CHAROPHYTES (International Colloquium), Montpellier, France. Languages: French and English. (Colloque Charophytes, Laboratoire de Paleobotanique, U.S.T.L., Place E. Bataillon, F-34 060 Montpellier, France)

July 9-19, 1989

INTERNATIONAL GEOLOGICAL CONGRESS (28th), Washington, D.C., U.S.A. (International Geological Congress, P.O. Box 1001, Herndon, VA 22070, U.S.A.)

August 29-September 2, 1989

PALAEOFLORESTICS & PALAEOCLIMATIC CHANGES IN THE CRETACEOUS & TERTIARY, Czechoslovakia. (E. Knobloch, Geological Survey, Malostranske nam. 19, CS-118 21 Praha 1, CSSR)

September 3-7, 1989

2nd EUROPEAN PALAEOBOTANICAL CONFERENCE, Spain. (C. Alvarez Ramis, University Complutense, Dpto. de Paleontologia, 23040 Madrid, Spain)

September 4-13, 1989

MICROPALAEONTOLOGICAL COLLOQUIUM (26th), Budapest, Hungary. IPA. (Dr. A. Nagymarosy, Department of Geology, "Eotvos L." University, Budapest VIII, Muzeum krt. 4/A H-1088, Hungary)

September 10-16, 1988

PALAEOCEANOGRAPHY (3rd International Conference), Cambridge, U.K. (N.J. Shackleton, Department of Earth Sciences, University of Cambridge, Downing Street, Cambridge CB2 3EQ, U.K.)

September 12-15, 1989

COAL: Formation, Occurrence and Related Properties (International Meeting), Orleans, France. (P. Bertrand, Unite de Recherche en Petrologie, Organique, Universite d'Orleans, 45067 Orleans, Cedex 2, France)

October 2-4, 1989

FLUVIAL SEDIMENTOLOGY (4th International Conference), Barcelona, Spain. (C. Puigdefabregas, Servei Geologic de Catalunya, carrer Diputacio 92, 08015 Barcelona, Spain)

1990

May 6-12, 1990

PACIFIC RIM 90 (International Congress), Gold Coast, Queensland, Australia. (The AusIMM-Pacrim 90, P.O. Box 731, Toowoong, Qld 4066, Australia)

June 3-6, 1990

AAPG/SEPM (Annual Meeting), San Francisco, California, U.S.A. (Convention Department AAPG, Box 979, Tulsa, OK 74101, U.S.A.)

July 1-7, 1989

4th EVOLUTIONARY CONGRESS OF SYSTEMATIC & EVOLUTIONARY BIOLOGY (ICESB IV), Maryland, U.S.A. (J. Corliss, Dept. Zoology, Univ. of Maryland, College Park, MD 20742)

September 3-7, 1990

4th INTERNATIONAL CONFERENCE OF AEROBIOLOGY, Stockholm. (Administrative Secretary 4th IAC, Konferensservice AB, Box 4037, S-17104 Solna, Sweden)

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