









PALYNOS

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NEWSLETTER OF THE INTERNATIONAL FEDERATION OF PALYNOLOGICAL SOCIETIES

CONTENT OF PALYNOS VOL. 40 (2)

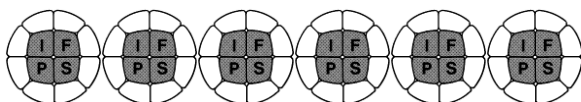
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15TH INTERNATIONAL PALYNOLOGICAL CONGRESS (IPC) / XITH IOPC JOINT MEETING, PRAGUE, CZECH REPUBLIC, SEPTEMBER 12–19, 2020

We would like to invite you to the XVth International Palynological Congress and XIth International Organization of Palaeobotany Conference from September 12th to 19th 2020 in Prague, Czech Republic.

An international joint meeting of the whole community is dedicated to the 200th Anniversary of Modern Palaeobotany, as 1820 was the starting point of palaeobotanical nomenclature inferred from the the first issue of “Flora der Vorwelt” the principal work of the Czech “Father of Palaeobotany“ Kaspar Maria von Sternberg.

Palynology and Palaeobotany have a long tradition in the Czech and Slovak Republics with several famous pioneers including Kaspar Maria von Sternberg, Karl and Otakar Feistmantels, August Joseph Corda, Dionýz Štúr, Karel Bořivoj Presl, as well as world wide known Czech palynologists and palaeobotanists of the modern era e.g. Blanka Pacltová, Milada Vavrdová, Zlatko Kvaček, František Němejc, etc.



IFPS BUSINESS



1820 – 2020: 200 YEARS OF MODERN PALAEOBOTANY

Scientific programme will cover, in oral and poster presentations, all aspects of palaeo-, actopalynology and palaeobotany. During the field trips, organized across the time and space, participants will be allowed to see Lower Palaeozoic of the famous Barrandien area, to touch at the Pennsylvanian plants of Western Bohemia, to visit Tertiary and Quaternary sequences at the localities in North Bohemia and Southern Moravia, and last but not least, to know the cultural and natural specificities of the various parts of Bohemia and Moravia.

Preliminary programme, deadlines and related informations will be announced via:

www.prague2020.cz

as well as via:

<https://www.facebook.com/ipciopc2020>

by the middle of August 2018 and during the EPPC meeting in Dublin.

Congress Venue: Clarion Conference Hotel (www.clarioncongresshotelprague.com/en)

It will be our pleasure to welcome you all to Prague2020!

Organizing committee in cooperation with Conference Partners Prague Ltd.

PRESENTATION OF NEW IFPS COUNCILLORS

Reiko Kishikawa
Palynological Society of Japan, PSJ



Dear Members of the IFPS,

It is my honor to greet you, scientists working and flourishing in the more than 100year old field of palynology.

I became the President of the Palynological Society of Japan (PSJ) in January 2018. I am an allergist, working at “National Hospital Organization Fukuoka Hospital” in Japan. I will do my best for the PSJ and if called on, for the IFPS for three years.

Do you remember the XIII IPC/IX IOPC 2012, in Tokyo, Japan? It took place just a few months after the Great Tohoku Earthquake, Mw9.0, with its huge tsunami-influenced radioactive pollution in Tokyo. In spite of our anxiety more than 500 members visited Tokyo and the surrounding districts and enjoyed our international meeting at Chuo University, Tokyo. All PSJ members still appreciate your courage and humanity in coming to Japan at that difficult time.

Our PSJ was born in 1965 for the purpose of progressing the science related to pollen and palynology. Our Society is tiny but vibrant and friendly because many fields are brought together:

Pollen analysis,

Aerobiology/Pollinosis,
 Cytology/Physiology,
 Morphology/Taxonomy,
 Genetics/Thremmatology,
 Apiculture/Food/Agriculture and the field of
 Criminology.

We officers of PSJ are always supported by our all of members.

My field is Aerobiology/Pollinosis. We have been monitoring airborne pollen as a causative agent of pollinosis in Japan for a long time. In our country conifer pollen (especially Japanese cedar and Cupressaceae pollen) were put into the same category, and are now referred to collectively as “JC”, is the most important of all our pollen allergens.

The number of patients with Japanese cedar pollinosis has increased nationwide since the latter part of the 1970’s. The Japanese Government has taken preventive measures against JC pollinosis since 1986. We began to monitor pollen antigens at almost the same time using a Durham Sampler (Figure 1).

This is a bar chart of the average total tree pollen count and percentile of pollen count at 26 locations across Japan for 2~28 years. The percentage of Japanese cedar pollen exceeds 40% with Cupressaceae pollen in second place at about 20% of the total tree pollen count. They are still increasing with plantation-tree aging and climate change.

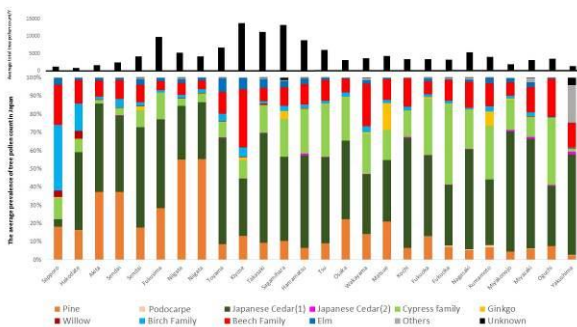


Figure 1. The total pollen counts and prevalence of important pollen counts at each pollen monitored locations. Japanese Cedar (1): in spring, Japanese Cedar (2): in autumn. Source: Kishikawa et al. 2016. Regional Distribution of Allergic Tree Pollen in Japan. J Geogr Nat Disast S6: 003. doi: 10.4172/2167-0587.S6-003)

Recently the number of patients with food allergy related pollen allergy (Pollen-Food Syndrome) has also increased in Japan. So we

would like to learn from your broad knowledge of palynology in the IFPS for our current and future comfortable living.

Thank you for your attention.

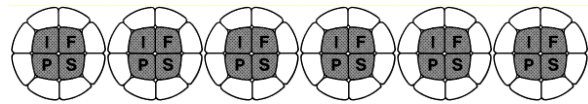
Reiko Kishikawa

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National Hospital Organization Fukuoka

National Hospital, Japan

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IFPS SOCIETIES'

REPORTS

Asociación de Palinólogos de Lengua Española (APLE)

Recommended terminology for aerobiological studies

A paper on “Recommended terminology for aerobiological studies” has been recently published, as brief communication, in the journal *Aerobiologia*. This study has been carried out in the frame of the Working Group on Quality Control in the European Aerobiology Society (EAS) <http://www.eas-aerobiology.eu/> and in the International Association for Aerobiology (IAA) <https://sites.google.com/site/aerobiologyinternational/> with the active participation of two members of the Spanish Society of Palynology (APLE); Carmen Galán and Delia Fernández.

This proposal aroused as a need on Aerobiology, an interdisciplinary branch of the Biological Sciences, in which researchers with heterogeneous backgrounds are involved in different topics related to microorganisms and airborne biological particles, e.g. pollen and spores, that used a passive transport in the atmosphere to disperse, and also studies on plant or fungal phenology, to know their

seasonal behavior in relation to weather and climate.

As a result of the above, some concepts, terms or expressions used in aerobiology with a clear definition, are however, frequently misused, so that, we, nineteen researchers have agreed to standardize a total of 23 definitions, also defining the way for presenting the data obtained in our investigations. This task is not easy, but it is necessary, in a multidisciplinary science, with much interest in the scientific community and with different applications: agriculture, forestry and health sciences.

Here we list these terms in alphabetical order:

Allergen, Allergen concentration, Allergenic, Allergology, Annual (or Seasonal) Pollen (or Spore) Integral, Bacterium [Bacteria, pl.], Bacterial Concentration, Colony-Forming Unit, Colony Count (alternatively Culturable Bacteria or Fungal Spore Count), Culturable Fungal Spore Concentration, Fungal Spore, Fungus [Fungi, pl.], Main Pollen (or Spore) Season, Mould (Mold), Pollen (or Spore) Allergen Potency, Pollen (or Spore) Allergy Potency, Pollen (or Spore) Allergy Risk, Pollen (or Spore) Calendar, Pollen (or Spore) Concentration, Pollen (or Spore) Count, Pollen Emission, Pollen Grain and Pollen Production.

Some terms are new and we have presented which ones have been replaced.

More information in:

Galán C, Ariatti A, Bonini M, Clot B, Crouzy B, Dahl A, Fernandez-González D, Frenguelli G, Gehrig R, Isard S, Levetin E, Li DW, Mandrioli P, Rogers CA, Thibaudon M, Sauliene I, Skjoth C, Smith M, Sofiev M. 2017. Recommended terminology for aerobiological studies. *Aerobiologia*, 33:293–295.

Report written by:

Carmen Galán, Universidad de Córdoba, Spain, email: [bvlgasoc\(at\)uco.es](mailto:bvlgasoc(at)uco.es)

Palynological Association of Nigeria (PAN)

Celebrating 50 years (1967-2017) of doctoral scholarship of Prof. Adebisi Sowunmi at the University of Ibadan. 2nd June 2018.

On Saturday, June 2nd, 2018, a one-day symposium was held in honour of Professor M. Adebisi Sowunmi in celebration of 50 years (1967-2017) of her Doctoral scholarship in Palynology. Professor Sowunmi was trained in Solna, Sweden by the legendary Prof G. Erdtman from 1964-1967 for her PhD. Her PhD Thesis “On the pollen morphology of the Palmae and its bearing on Taxonomy” part of which was published in the Review of Palaeobotany and Palynology journal (Sowunmi, 1968, 1972, 1978), remains an invaluable resource in the pollen morphology of palms in the tropics, as well as their accurate identification in deposits of Late Cretaceous Period.

Shortly after obtaining her PhD, Sowunmi established the first palynology laboratory in a Nigerian University where research and teaching of the fundamentals and applications of palynology began and continues till date. She published in *Grana* two of the best-known resources on the pollen morphology of woody plant species in Nigeria (Sowunmi, 1973, 1995). Sowunmi pioneered Melissopalynology (Sowunmi, 1976, 2001) and developed Environmental Archaeological (Ecological Anthropological) research in Nigeria. Her palynological study of sediment cores obtained from the Niger Delta and Equatorial Africa revealed not only the palaeoenvironment of the rainforest going far back as to the Late Pleistocene (Sowunmi, 1981a, b; 1985), but revealed, for the first time human-rainforest interactions and botanical evidence of farming in Nigeria (Sowunmi, 1985, 1999). In addition, pollen analysis of sediment samples from Kariya Wuro, a Late Stone Age (LSA) rock shelter revealed human palaeoethnobotanical practices in the LSA (Sowunmi and Awosina, 1991). Sowunmi continues to research into

the past environments and climates of the tropical rainforests in Nigeria (Sowunmi, 2004; Orijemie and Sowunmi, 2014) and with her student, has recently elucidated the sporopollenin chemistry of certain pollen of plants indigenous to Nigeria. The scholarship of Professor M. Adebisi Sowunmi, over the last half century, has elucidated the pollen flora of Nigeria, deep history of the West African environment (vegetation and climate) in the geologic past from the time of Angiosperm explosion (The Cretaceous) through when Anatomically Modern Humans (AMH) evolved up till the ethnographic Present. Her research, which cuts across several disciplines in the Earth (or Historical) and Biological Sciences, gives special attention to Human Ecology (Ecological Anthropology) regarding the socio-economic and cultural development of humans within an environmental context.

The symposium brought together young and early career researchers who engaged and discussed, with senior and established researchers, their research work which addressed issues relating to the pollen flora of Nigeria (and West Africa), environmental history (vegetation and climate) of the Earth's remote and recent past, and the cultural history and development of humans.

The Symposium was held at the Department of Archaeology and Anthropology, University of Ibadan. Participants were drawn from the Universities of Ibadan, Lagos, Nigeria and Jos. A keynote address and nine papers (Table 1) were presented. The keynote address titled 'The future of Palynological Research in Nigeria' was presented by Dr. P. Adeonipekun of the Department of Botany, University of Lagos; Dr. Adeonipekun is the current President, Palynological Association of Nigeria (PAN) and a former student of Prof Sowunmi's.



Professor M.A. Sowunmi (third from the right) with some of her former and current students



L-R: Dr P.A. Adeonipekun (PAN President), Prof M.A. Sowunmi (PAN Foundation President) and Oyelami A. (PAN Publicity Secretary)

References

- Orijemie, E.A. and Sowunmi, M.A. 2014. Humans and the Mangrove in Southern Nigeria. In: Stevens, C.J., Nixon, S. Anne-Murray, M. and Fuller, D.Q. (Eds.) *The Archaeology of African Plant Use* Pp 103-112, Walnut Creek California.
- Sowunmi, M.A. 1968. Pollen morphology in the palmae, with special reference to trends in aperture development. *Review of Palaeobotany and Palynology* 7: 45-53.
- Sowunmi, M.A. 1972. Pollen morphology of the Palmae and its bearing on taxonomy. *Review of Palaeobotany and Palynology* 13 (1): 1-80.
- Sowunmi, M. A. 1973. Pollen of Nigerian Plants I Woody Species. *Grana* 13: 145-186
- Sowunmi, M.A. 1976. The potential value of honey in palaeopalynology and archaeology. *Review of Palaeobotany and Palynology* 21: 171-185.
- Sowunmi, M.A. 1978. Polymorphism in the pollen of tropical plants. IV Int. Palynolo. Conf., Lucknow (1976-77) 1: 255-263.
- Sowunmi, M. A. 1981a. Aspects of Late Quaternary vegetational changes in West Africa. *Journal of Biogeography* 8: 457-474.

Sowunmi, M.A. 1981b. The Late Quaternary environmental changes in Nigeria. *Pollen et Spores* 23(1): 125-148.

Sowunmi, M.A. 1985. The beginnings of agriculture in West Africa: botanical evidence. *Current Anthropology* 26 (1): 127-129.

Sowunmi, M.A. 1992. Late Quaternary environments in Equatorial Africa: palynological evidence. *Palaeoecology of Africa* 22: 213-238.

Sowunmi, M.A. 1995. Pollen of Nigerian Plants II woody species. *Grana* 34:120-141.

Sowunmi, M.A. 1999. The Significance of the Oil Palm (*Elaeis guineensis* Jacq.) in the Late Holocene

Environments of West and West Central Africa: a further consideration. *Veget. Hist. Archaeobot.* 8: 199-210.

Sowunmi, M.A. 2001. Microscopic Analysis of Honey. *The Nigerian Field* 66: 125-133.

Sowunmi, M.A. 2004. Aspects of Nigerian Coastal Vegetation in the Holocene. Some recent insights. In: Battarbee, R.W., Gasse, F. and Sticklay, C. F. (eds.) *Past Climate variability through Europe and Africa* Pp 199-218. Springer, Dordrecht, The Netherlands.

Sowunmi M.A. and Awosina, E.O. 1991. Pollen analyses of Kariya Wuro Rock Shelter, Bauchi State. *The Nigerian Field* 56: 163-170.

Table1. List of Presenters at the Symposium.

E.A. Orijemie	Prof Sowunmi, MA: The Quintessential Scholar
P.A., Adeonipekun, PA.	Key Note Address: The Future of Palynological Research in Nigeria
E. A. Orijemie	Climate Change and Cultural Responses in Prehistoric Nigeria
K.C. Daraojimba& M., Mangut	A peep into the palaeoenvironment of Lankan, south-eastern Jos Plateau, Nigeria: palynological perspectives
Y. Ademodi	A study of the pollen grains of some bee pollen pellets from an apiary in the University of Ibadan and the construction of a twelve- month pollen calendar therefrom
A., Oyelami,	The Application of Palynology in the Oil Industry
SO Obigba and MA Sowunmi	Under-Representation of Certain Pollen Types in The Holocene Palynomorph Record at Ahanve, South West Nigeria: An Investigation
P.A., Adeonipekun, M. B. Adebayo& TD, Ashaolu	Late Holocene Paleoenvironmental Study of Cored Stream Samples from The Montane of Gashaka-Gumpti, Taraba State, Nigeria
V.O., Olajide& R.A., Alabi	Archaeobotanical Analysis of Late Stone Age Environments of Ita Ogbolu Rock Shelter Ondo State, Southwestern Nigeria
M. Mangut, A. Ogundiran, O. Moyib, O. Ade& D, Okanlawon	Bara: The Final Resting Place of the Alaafin

Report written by:

Orijemie Emuobosa Akpo,

British Academy Newton International Fellow,

McDonald Institute for Archaeological Research, University of Cambridge, UK

Lecturer, Department of Archaeology and Anthropology, University of Ibadan, Nigeria

email: orijemie5(at)yahoo.com

Other announcements from PAN

1. The Palynological Association of Nigeria (PAN) wishes to announce that its website: www.palynologica.com.ng is up and running.
2. A Session 'Vegetation responses and human adaptations to Environmental Changes in the Holocene of West Africa' for INQUA 2019 Conference to be held in Dublin has been accepted, The Session, Reference Number 12, is part of the INQUA Palaeoclimate Commission, and was sponsored by two executive members of the Palynological Association of Nigeria (PAN) namely Dr Orijemie, E.A. and Dr Adeonipekun, P.A.

Abstract Submission in due times at:
<http://www.inqua2019.org>

3. Adeniyi, Tiwalade A., Department of Botany, University of Lagos, Nigeria, and member of PAN was recently awarded a PhD. The title of his thesis is *Aeropalynology and Allergenicity of Pollen in Selected Locations within Lagos Metropolis, Nigeria*. Here is a synopsis of his work: Aerosampling was conducted in selected locations in Lagos metropolis (Surulere, Ebute-Metta, University of Lagos, Akoka (UniLag), Bariga and Gbagada) from January 2013 to December 2014. The dominant pollen grains recovered were subjected to allergenicity tests. These included *Alchornea cordifolia*, *Amaranthaceae*, *Casuarina equisetifolia*, *Cyperaceae*, *Poaceae*, and *Terminalia catappa*. Allergenicity tests of these pollen revealed a total of 14 allergenic proteins out of which 12 were hitherto unidentified. The 58 kDa allergenic protein of *Alchornea cordifolia* pollen recorded the highest hypersensitive potential (84 %). The aeroflora data of the studied areas will assist allergy sufferers in managing allergies while the identified allergenic proteins have potentials of being developed into immunotherapy drugs.

American Association of Stratigraphic Palynologists (AASP)

Topical sessions in the Geological Society of America Annual Meeting (GSA), Indianapolis, Indiana, USA, November 4–7, 2018

If you are planning to attend the GSA 130th annual meeting in Indianapolis, Indiana, USA (4-7 November 2018), and you are a micropaleontologist, I would like to invite you to consider submitting an abstract in the session **T121. Insights from Microfossils, Palynology, and Their Modern Analogs: From Traditional to Emerging Techniques**.

Full Session Rationale: Traditional uses of microfossils, such as in biostratigraphy and paleoenvironmental reconstructions, continue to be central to many research applications. Oxygen and carbon isotopes of microfossils have become the backbone of paleoceanography. In recent decades, novel geochemical uses of microfossils have been increasingly utilized, such as boron isotopes and an ever-increasing suite of trace elements. This session will highlight a broad spectrum of traditional and innovative microfossil applications in terrestrial and marine environments, including modern analogs.

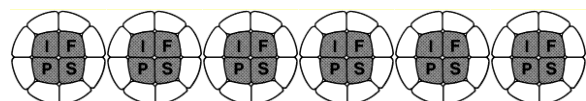
Scientific Categories:

Paleoclimatology/Paleoceanography,
Geochemistry,
Paleontology,
Biogeography/Biostratigraphy

The abstracts deadline is 14 August 2018 (11:59 p.m., Pacific Time).

GSA 2018. Meeting information:

<http://community.geosociety.org/gsa2018/home>



FUTURE MEETINGS

2018

2018 5TH INTERNATIONAL PALAEO- TOLOGICAL CONGRESS (IPC 2018), PARIS, FRANCE, JULY 9 – 13, 2018

The 5th International Palaeontological Congress (IPC 2018) will take place in Paris, France, from July 9-13, 2018. Further informations available at <http://www.ipa-assoc.org/docs/First-Circular-of-IPC5.pdf>

2018 XVII ARGENTINE SYMPOSIUM OF PALEOBOTANY AND PALYNOLOGY (SAPP):TOWARDS NEW CHALLENGES. PARANÁ-ENTRE RÍOS, ARGENTINA, 30TH JULY – 5TH AUGUST, 2018

The 7th SAPP symposium will be held for the first time in Paraná, in the Entre Ríos province of Argentina, between 30th July and 5th August, 2018. For further information please visit the symposium webpage: <http://fcyt.uader.edu.ar/web/sapp2018>, or contact the local organiser Mercedes di Pasquo ([sapp2018\(at\)palino.cm.ar](mailto:sapp2018(at)palino.cm.ar)).

2018 10TH EUROPEAN PALAEO- BOTANY PALYNOLOGY CONFERENCE (EPPC), DUBLIN, IRELAND, AUGUST 12–19, 2018

The 10th EPPC will take place in Dublin, Ireland, from August 12-18, 2018. For further information, please visit the conference webpage: <http://eppc2018.ie>

2018 11TH INTERNATIONAL CONGRESS ON AEROBIOLOGY (ICA), PARMA, ITALY, SEPTEMBER 3–7, 2018

The 11th International Congress on Aerobiology (ICA): *Advances in aerobiology for the preservation of human and environmental health: a multidisciplinary approach* will take place in Parma, Italy, from September 3–7, 2018. For more

information please visit the webpage: <http://www.ica2018.eu/>

2019

2019 1ST MEETING OF THE IBERIAN ECOLOGICAL SOCIETY (SIBECOL) & XIV AEET MEETING, BARCELONA, SPAIN, FEBRUARY 4-7, 2019

Coinciding with the commemoration of the centenary of the birth of Professor Ramón Margalef, we are pleased to announce the 1st Iberian Ecological Society Meeting, concurring with the XIV Meeting of the Spanish Society of Terrestrial Ecology (AEET). The conference is aimed to be the kickoff of SIBECOL (Sociedad Ibérica de Ecología) a new scientific society, joining ecologists from Iberian countries, whatever the system or approach they work on. During the conference, several sessions will deal with ecological questions that require long-term datasets, and/or the use of palynology. Deadline for abstracts submission: 10th July. Further details and session proposed can be found at:

<http://congresosociedadibericaecologia2019.net>

2019 VIII WORKSHOP ON NON- POLLEN PALYNOFORMS, BARCELONA, SPAIN, JULY 2019

The VIII Workshop on Non-Pollen Palynomorphs is foreseen to take place in Barcelona, Spain, in 2019 organised by Dr. Encarni Montoya, Institute of Earth Science Jaume Almera (CSIC), Barcelona, Spain. We are glad to announce that for this occasion, we are planning a joint workshop of non-pollen palynomorphs and phytoliths, co-organised by Dr. Marco Madella, University Pompeu Fabra, Barcelona, Spain. Further information will be available in due times.

2019 XX INQUA CONGRESS 2019, DUBLIN, IRELAND, JULY 25 –31, 2019

The XX INQUA Congress will take place in Dublin, Ireland from July 25-31, 2019. The congress theme will be "Life on the Edge", with additional sub-themes of "Dynamic Ice Sheets on a Global Scale", "Extinction", and "Adaptation to Environmental Change". Please check the webpage as the call for abstracts will be announced soon. Meanwhile, other details and several proposals for the conference field trip are available at <http://www.inqua2019.org>

2020

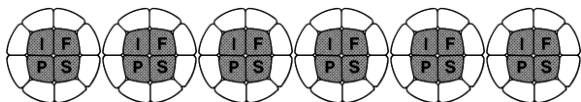
2020 15TH INTERNATIONAL PALYNOLOGICAL CONGRESS (IPC) / IOPC XI JOINT MEETING, PRAGUE, CZECH REPUBLIC, SEPTEMBER 12–19, 2020

The 15th International Palynological Congress (IPC) / 11th International Organisation of Palaeobotany Conference (IOPC) will take place in Prague, Czech Republic, in 2020. Further Information will be available at www.prague2020.cz, as well as via

<https://www.facebook.com/ipciopc2020>

by the middle of August 2018.

(See also announcement above)



PALYNOLOGICAL HOMMAGE

Josette Renault-Miskovsky (1938–2018)



Josette Renault-Miskovsky was born in Alfortville near Paris, France, on September 18, 1938. She was recruited by CNRS in 1965 at the Laboratoire de Géologie de la Faculté des Sciences, headed by Prof. Pierre Bellair and her researches were related to the Laboratoire de Paléontologie humaine et de Préhistoire de l'Université de Provence.

In the framework of her habilitation thesis (Doctorat d'Etat), defended in 1972, she spent much time at the Musée de l'Homme to consult the pollen reference collection in Arlette Leroi-Gourhan's laboratory of palynology and worked in close collaboration with Michel Girard. She subsequently joined the Laboratoire de Préhistoire du Muséum national d'histoire naturelle in 1981, where she founded a Palynological Unit she headed until 2004. In 1996, she was nominated first class Senior Researcher at CNRS (equivalent to full Professor).

Josette Renault-Miskovsky was among the pioneers in Palynology applied to archaeological sites, especially caves. Her researches associated archaeological data with palaeoclimatic and palaeoenvironmental reconstructions: among others, this was the case for the site of la Caune de l'Arago

(Tautavel, Southeast France) excavated by Henry and Marie-Antoinette de Lumley, where she developed a close synergy with Jean-Claude Miskovsky's (her husband) sedimentological approach. Among her most recent studies, we can mention those conducted in "Pié-Lombard (Tourettes sur Loup, Alpes maritimes)" and "la Dame du Cavillon (Menton, Alpes maritimes)". Josette Renault Miskovsky also conducted expertise activities combining palynology and apiculture (expertise being one of the Muséum scientists' missions).

Josette Renault-Miskovsky was a teacher in the DEA of Geology, Human Palaeontology and Prehistory (Université de Provence, then Muséum national d'histoire naturelle), then in the Muséum's Master of Quaternary and Prehistory. She supervised many Ph.Ds. and her student's scattered or swarmed, like pollen grains do, in several universities and research institutions in France and abroad. As a teacher, she always paid much attention to the dissemination of scientific information in elementary and high schools, and took part in many exhibitions in the Muséum national d'histoire naturelle and beyond.

She was awarded the "Bertrand, Deflandre, Deflandre-Rigaud and Cuvillier prize" by the French Académie des Sciences and nominated knight in the Ordre National du Mérite. Josette Renault-Miskovsky has been a member of National Committee for Scientific Research, played an active part in the Association des Palynologues de Langue Française (APLF), the Association Française pour l'Etude du Quaternaire (AFEQ, as secretary then president) and also the French National Comity of INQUA.

Josette Renault-Miskovsky passed away on January 19th, 2018.

Most significant publications:

Renault-Miskovsky, J., 1972. Contribution à la paléoclimatologie du Midi méditerranéen pendant la dernière glaciation et le post-glaciaire, d'après l'étude palynologique du remplissage des grottes et abris sous roche. Bulletin du Musée d'Anthropologie de Monaco, n°18, p. 145-210, 7 fig., XI tabl. Thèse de Doctorat d'Etat.

Renault-Miskovsky, J., 1991. L'environnement au temps de la Préhistoire. (Préface Henry de Lumley), Editions Masson, 2e Edition, 200 p., 68 fig.

Renault-Miskovsky, J. & M. Petzold, 1992. Spores et pollen. Editions Delachaux et Niestlé, 356 p., 272 fig.

Sémah, A.-M. & J. Renault-Miskovsky, 2004. L'évolution de la végétation depuis deux millions d'années, Guide de la Préhistoire mondiale. Editions Art'Com et Editions Errance, 315p.

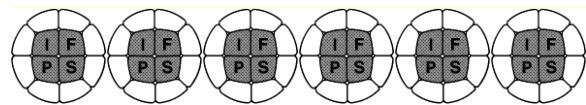
Sémah, A.-M. & J. Renault-Miskovsky, 2015. La biodiversité végétale menacée. Le pollen en témoin. Editions Actes Sud – Errance, IRD, 160 p.

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NEWS FROM PALYNOLOGY RELATED FIELDS

1st Meeting on Phytolith Research in China, Beijing, April 21-22 2018

On April 21-22, 2018, the First Meeting on Phytolith Research in China took place in Beijing. More than 150 scientists from 43 units throughout the country participated at the meeting (Figs. 1 & 2). It was hosted by the Key Laboratory of Cenozoic Geology and environment, Institute of Geology and Geophysics, Chinese Academy of Sciences, together with some related committees and societies including the Palynological Society of China.

All together 40 oral presentations and 10 posters were presented at the meeting. Discussions were mainly given in five sessions, i.e. 1) Modern process of plant

silicones, 2) Fossil phytolith in the study of paleoclimate, paleoenvironment, and environmental archaeology, 3) Application of phytolith in agricultural archaeology, 4) Phytolith linked to silicon cycles and ^{14}C dating, and 5) Phytolith morphology. Each session consisted of 1-2 keynote talks and 4-9 normal talks.



Figure 1: 1st Meeting on Phytolith Research in China held in Beijing Hongxiang hotel, April 21-22, 2018.

Phytolith analysis was introduced into China in 1980's by palynologists. Since then, great progress has been achieved on phytolith morphology and classification, fossil phytolith application in paleoclimate, paleoenvironment, origination of agriculture, environmental archaeology, and biogeochemistry research. During the past 20 years, many important achievements have been made mainly in research methods, phytolith classification systems, phytolith application in solving key scientific problems in different fields, which have laid a foundation for the further development of phytolith in China.

Some main topics at the meeting are highlighted here. By studying the phytoliths in modern crop plants, such as Bambusoideae, Oryzoideae, *Panicum miliaceum*, *Setaria italica*, and the modern process of phytoliths in surface soil, it greatly

promotes the phytolith classification of these plants, recognizing the crop phytoliths, and interpreting their climatic and environmental significance. Other studies included a new quantitative method to understand the evolution of the C4 herbs and the East Asian monsoon since the late Miocene, the middle Holocene vegetation and fire history in Central Yunnan, the reconstruction of Pleistocene climate in the middle and lower reaches of the Yangtze River, and the Holocene climate vegetation succession in northeastern China.

As for the environmental archaeology and agricultural archaeology, discussion was laid on the different stages of Neolithic period, covering both North and South China. New knowledge for phytolith identification standards of crops, and other agricultural remains was largely established. Carbon encapsulated in phytolith is used to study carbon cycle and radiocarbon dating. The related carbon dating technology was developed. Silicon carbon coupled with biogeochemical cycle in the terrestrial ecosystem were emphasized for further study.

In order to create more opportunities for academic exchanges, especially for young scholars and students with a platform of learning, and to further promote the development of phytolith study in China, it was preliminarily decided that the National Meeting on Phytolith Research in China will be held every two years in the future.

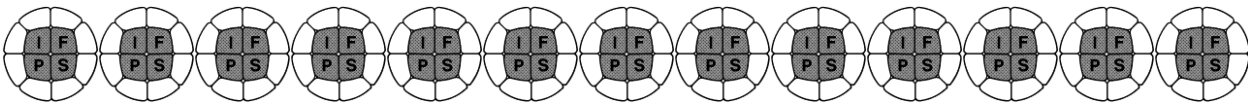
Meeting report by: Wei-Ming Wang (Department of Palaeobotany and Palynology, Nanjing Institute of Geology and Palaeontology, Chinese Academy of Sciences, 39 East Beijing Road, Nanjing 210008, P. R. China. email: wmwang(at)nigpas.ac.cn

第一届全国植硅体学术大会

2018.4.21 北京



Figure 2: Participants of 1st Meeting on Phytolith Research in China, Beijing, April 21-22, 2018.



51st Annual Meeting of AASP - The Palynological Society joint with the Canadian Association of Palynologists (CAP) Annual General Meeting

*Calgary, Alberta, Canada
August 5th - 10th, 2018*



Calgary, Alberta and Canadian Rocky Mountains - Calgary Tourism

Fourth Circular

Please join us for the 51st Annual Meeting of AASP -The Palynological Society in Calgary, Alberta, Canada this August. Calgary is ideally located between the Canadian Rocky Mountains and the Alberta Badlands, offering a plethora of potential extra curricular activities pre- and post meeting.



Calgary Marriott Downtown Hotel



Calgary Marriott Downtown Hotel

VENUE

The venue for this meeting is the recently renovated Calgary Marriott Downtown Hotel, boasting exceptional location with a stylish whisky bar (One18 Empire) featuring creative Canadian dining. The hotel is located adjacent to Stephen Avenue; a major pedestrian mall known for its restaurants, pubs, bars, cafes, shopping and entertainment venues. A block of rooms has been secured at the Marriott at a negotiated rate of \$199 CAD/night + taxes. For bookings call the Marriott's central reservation number at 1.800.228.9290 or use the link provided on the conference web page (www.palynology.org/51st-annual-meeting-aasp-tps-joint-cap-calgary) under the "Venue" tab.

TRANSPORTATION

Calgary is easily accessed by the Calgary International Airport (YYC) which is serviced by most major American and International airlines. Transportation to the hotel area from the airport is available via taxi, public transportation or airport shuttle (reservation required).

Public transportation, including light rapid transit, is available from the conference venue area. Visit www.calgarytransit.com for additional information.

REGISTRATION RATES (in Canadian dollars)			
	Early Bird (before June 1st)	Regular (June 1st onward)	Single day rates
Student member	\$300	\$325	\$110
Student non-member	\$340	\$375	\$130
Professional member	\$400	\$445	\$150
Professional non-member	\$470	\$525	\$180

**Abstract
Deadline:
May 31st, 2018**

**Please follow the
template on the website
and send submissions
to Thomas Demchuk
(tdemchuk@swbell.net)**

TECHNICAL SESSIONS

In addition to offering general technical sessions, we have four proposed sessions/ symposia:



Len Hills



Art Sweet

- Special session in honour of Leonard (Len) V. Hills and Arthur (Art) R. Sweet on **Western Canadian Palynology and the Cretaceous Western Interior of North America**. Keynote: Dennis Braman.
- Symposium on **Canadian East Coast biostratigraphy and palynology** (including the Atlantic Margin). Keynote: Rob Fensome and Graham Williams.
- CAP special session: **From land to sea - innovative research by Canadian palynologists**.
- Theme session: **Applications of palynology to environmental science**.

Visit
<http://palynology.org/51st-annual-meeting-aasp-tps-joint-cap-calgary/>
for additional details and to register

FIELD TRIPS

Pre-meeting trip:

Alberta Badlands & Royal Tyrrell Museum (Drumheller, Alberta): Cost: \$125 CAD (\$75 CAD for students)

This one day trip (Sunday, August 5th) features the Alberta Badlands, a landscape of coulees and hoodoos famous for rich deposits of fossils, including dinosaur bones which are showcased at the Royal Tyrrell Museum of Paleontology. We will be visiting this world-class museum for a behind the scenes tour and gallery viewing. Lunch at the remote and rustic Last Chance Saloon in Wayne, AB and stops at the Willow Creek Hoodoos and Horseshoe Canyon are scheduled for the afternoon.

Maximum participants: 45



Alberta Badlands near Drumheller



Royal Tyrrell Museum of Paleontology

Post-meeting trips:

Canadian Rocky Mountains (Banff, Alberta) Cost: \$150 CAD (\$100 CAD for students)

This one day field trip (Thursday, August 9th) features local geology and paleontology west of Calgary in the Rocky Mountain Front and Main ranges, including Banff National Park. This trip will conclude with a dining experience in Banff before returning to Calgary in the evening.

Maximum participants: 12

(field trips continued on next page)



Canadian Rocky Mountains, Banff National Park

Visit <http://palynology.org/51st-annual-meeting-aasp-tps-joint-cap-calgary/> for additional details and to register

Post-meeting trips (continued):

Burgess Shale & Canadian Rocky Mountains

(Banff, Alberta and Field, British Columbia)

Cost: \$475 CAD (\$400 CAD for students)

We are offering a two day trip (Thursday, August 9th and Friday, August 10th) to visit both the Canadian Rocky Mountains and the Burgess Shale UNESCO World Heritage Site. The first day of the trip will be held in conjunction with the "Canadian Rocky Mountains" field trip (above), however, instead of returning to Calgary at the end of the first day, this trip involves an overnight stay in Field, BC at Truffle Pigs Lodge. The second day of the field trip features a strenuous 22 km (14 mile) round trip guided hike up to Walcott Quarry to see the famous Burgess Shale, containing exquisitely preserved 508 million year old fossils of soft-bodied marine animals.

Maximum participants: 12

TENTATIVE SCHEDULE

Sunday, August 5th:

- One day Alberta Badlands & Royal Tyrrell Museum field trip (Drumheller, Alberta)
- Outgoing board meeting (6pm-9pm, Inglewood Boardroom @ Marriott Hotel)

Monday, August 6th:

- Technical Session (Sunalta Room @ Marriott Hotel)
- Icebreaker: Paly Patio Party (6pm-8pm @ Marriott's Roof Top Patio)

Tuesday, August 7th:

- Technical Session (Sunalta Room @ Marriott Hotel)
- CAP AGM (11:30am-1:30pm @ One18 Empire)
- Business & Beer Bash (7pm @ Last Best Brewing & Distilling) - tickets \$65 CAD (\$30 CAD for students)

Wednesday, August 8th:

- Technical Session (Sunalta Room @ Marriott Hotel)
- Incoming board meeting (4:30pm-7pm @ One18 Empire)

Thursday, August 9th:

- One day Canadian Rocky Mountains field trip (Banff, Alberta)
- First day of Burgess Shale & Canadian Rocky Mountains field trip (Banff, Alberta) -

Friday, August 10th:

- Second day of Burgess Shale & Canadian Rocky Mountains field trip (Field, British Columbia)



Walcott Quarry Hike - Burgess Shale Geoscience Foundation



Organizing Committee:

Kimberley Bell (kmball@ucalgary.ca) and Thomas Demchuk (tdemchuk@swbell.net)



II SIMPOSIO INTERNACIONAL DE PALEONTOLOGÍA DEL PERÚ

TENDENCIAS MODERNAS DE LA
PALEONTOLOGÍA APLICADAS A LA GEOLOGÍA

27 - 30
noviembre, 2018



COMITÉ ORGANIZADOR

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ST2. Bioestratigrafía y Tiempo Geológico
ST3. Paleoclimatología y Paleogeografía
ST4. Paleontología económica de Yacimientos
ST5. Patrimonio paleontológico y Geoparques
ST6. Geoética paleontológica, Educación y Sociedad.

LUGAR:
SOCIEDAD GEOLÓGICA DEL PERÚ
Av. 28 de julio 745 Miraflores Lima 18
Telf. (511) 628-1150

INFORMES:
Telf: 618-9800 Anexo: 139
simposiopaleoperu@ingemmet.gob.pe
Coordinación General: Lourdes Jaime Pareja

CURRENT IFPS AFFILIATED SOCIETIES AND COUNCILLORS

The current list of the IFPS officers and IFPS councillors is provided below. The IFPS president (Jean Nicloas Haas), IFPS secretary-treasurer (James B. Riding), IFPS editor of *PALYNOS* (Encarni Montoya), and the IFPS Web-Master (vacant) should be informed of any errors or necessary changes (email addresses below)

The list of current IFPS councillors also includes information on website addresses for the various societies. Please inform the IFPS Officers of possible website changes.

IFPS Officers	Affiliation	Email
IFPS President Jean Nicolas Haas	University of Innsbruck, Austria	Jean-Nicolas.Haas@uibk.ac.at
IFPS Past President Charles Wellman	University of Sheffield, England	C.Wellman@sheffield.ac.uk
IFPS Secretary-Treasurer James B. Riding	British Geological Survey, UK	jbri@bgs.ac.uk
IFPS Editor of PALYNOS Encarni Montoya	Institute of Earth Sciences "Jaume Almera" (CSIC), Spain	encarnacionmontoya@gmail.com
IFPS Web-Master Vacant		
IFPS affiliated Societies	Acronym & Website	Councillors
American Association of Stratigraphic Palynologists – The Palynological Society	AASP – TPS http://www.palynology.org	Fabienne Marret-Davies
Arbeitskreis für Paläobotanik und Palynologie	APP http://www.palges.de/arbeitskreise/ak-palaeobotanik-palynologie.html	Martina Stebich
Arbeitskreis für Vegetationsgeschichte der Reinhold-Tüxen-Gesellschaft	AVRTG http://www.reinhold-tuexen-gesellschaft.de/	Hermann Behling
Asociación Latinoamericana de Paleobotánica y Palinología	ALPP http://www.ufrgs.br/alpp	Mercedes di Pasquo
Asociación de Palinólogos de Lengua Española	APLE http://aple.usal.es	Pilar S. Testillano
Association des Palynologues de Langue Française	APLF http://laplf.org/	Marie-Pierre Ledru
Canadian Association of Palynologists	CAP http://www.scirpus.ca/cap/cap.shtml	Simon Goring
Collegium Palynologicum Scandinavicum	CPS www.palynology.info	Heikki Seppä
Commission Internationale de Microflore du Paléozoïque	CIMP http://cimp.weebly.com/	Gilda Lopes
Gruppo di Palinologia della Società Botanica Italiana	GPSBI http://www.societabotanicaitaliana.it/laygruppo.asp?IDSezione=22	Laura Sadori
International Association for Aerobiology	IAA https://sites.google.com/site/aerobiologyinternational/	Dorota Myszkowska
Linnean Society Palynology Specialist Group	LSPSG http://www.linnean.org/	Barry Lomax
Organisation of Czech and Slovak Palynologists	OCSP http://www.ocsp.eu/	Marianna Kováčová
Palynological Association of Nigeria	PAN	Emuobosa Orijemie
Palynological Society of China	PSC http://www.chinapsc.cn/palynology/en/index.asp	Wei-Ming Wang
Palynological Society of Japan	PSJ http://www.psj3.org/	Reiko Kishikawa
Palynological Society of Poland	PSP	Milena Obremaska
Palynologische Kring (The Netherlands)	PK http://www.palynologischekring.nl	Timme Donders
Palynologists and Plant Micropalaeontologists of Belgium	PPMB	Philippe Steemans
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Society for the Promotion of Palynological Research in Austria	AUTPAL http://www.autpal.at	Michael Hesse
The Micropalaeontological Society Palynology Group	TMS http://www.tmsoc.org/paly.htm	Manuel Vieira
The Palaeobotanical Society India	PBS http://palaeobotanicalsociety.org	Rama S. Singh
Turkish Committee for Palynology	TCP	Zühtü Bati
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<i>International Union of Geological Societies</i>	<i>IUGS</i>	Lucy Edwards
<i>International Union of Biological Societies</i>	<i>IUBS</i>	Jacques-Louis de Beaulieu
Societies on hold/Former Societies of the IFPS:		
International Association for African Palynology	AIPA/IAAP	
Palynological and Palaeobotanical Association of Australia	PPAA	
Philippine Palynological Society	PPS	

PALYNOS (ISSN 0256-1670) is published bi-annually (in summer and winter) and is distributed electronically to all IFPS Councillors for local distribution to individual members of their **International Federation of Palynological Societies (IFPS)** affiliate society. The newsletter is also posted on the IFPS website (see below).

We welcome news items, reports on society activities, reviews etc. and members should forward these to the editor:

Encarni Montoya
encarnacionmontoya(at)gmail.com

