

## AASP-CAP-2018 CALGARY PROGRAM

### *Sunday, August 5th:*

- 7:00 am - 6:00 pm Alberta Badlands & Royal Tyrrell Museum field trip  
4:00 pm - 6:00 pm Registration (in Marriot Hotel Lobby)  
6:00 pm - 9:00 pm Outgoing Board Meeting (@ One18 Empire, private dining room)
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### *Monday, August 6th:*

- 8:00 am Breakfast (outside Sunalta Room @ Marriott Hotel)  
Registration (outside Sunalta Room @ Marriott Hotel)  
Poster set up (in Sunalta A @ Marriott Hotel)
- 9:00 am Opening Remarks

### Special Session in Honour of Leonard (Len) V. Hills and Arthur (Art) R. Sweet on Western Canadian Palynology and the Cretaceous/Paleogene Western Interior of North America

Chairs: Thomas Demchuk and Kimberley Bell

- 9:10 am KEYNOTE: Overview of Late Cretaceous palynomorph biostratigraphy of the Western Interior Basin with emphasis on southern Alberta and Montana (**D.R. Braman**)
- 10:00 am Palynological insights into a Late Cretaceous marine environment, Hornby Island, British Columbia (**S.M.S. McLachlan**, V. Pospelova, and R.J. Hebda)
- 10:20 am Coffee Break
- 11:00 am Introducing *Pulcheripollenites sweetii* in honour of the late Dr. A.R. Sweet, as part of a revised stratophenetic framework for *Pulcheripollenites* spp. (**K.M. Bell**)
- 11:20 am A probabilistically-constrained zonation of the Paleogene Wilcox: Initial application of ranking and scaling (RASC) to a robust deep-water Gulf of Mexico (GoM) Wilcox palynological dataset (**R. Hackworth**, A. Gary, A. Kahn, L. Febo and L. Zarra)
- 11:40 am Palynology and Carbon Isotopes of Paleocene-Eocene Outcrops, Bastrop Area, Central Texas: Continuing Investigation of the PETM in the U.S. Gulf Coast (**T.D. Demchuk**, C.N. Denison, K.F. Gardner, M. Stephenson and J.M.K. O'Keefe)
- 12:00 pm Lunch Break

### General Palynology Session

Chairs: Iain Prince and Rebecca Hackworth

- 2:00 pm New theories on the properties and structure of bisaccate pollen (Pinaceae) exines from nano imaging of modern and fossil specimens (**S. Stukins**, R. Cojocar, O. Mannix, C.G. Miller, A. Pacureanu and M. Capron)

- 2:20 pm The Upper Devonian palynomorphs of Bjørnøya, Norwegian Arctic (**G. Lopes**, G. Mangerud and G. Clayton)
- 2:40 pm Palynology and coal petrography of the Pennsylvanian Tyler Formation, Williston Basin, North Dakota (D. Pocknall, **M. Thomas**, E. Melville and T. Demchuk)
- 3:00 pm Palynology and palynofacies of the Late Permian Galilee Basin: Implications for the end-Permian palaeoenvironment (**A. Wheeler**, N. Van de Wetering, J. Esterle and A.E. Götz)
- 3:20 pm Coffee Break
- 3:50 pm The temporal and spatial distribution of Triassic dinoflagellate cysts (**G. Mangerud**, N.W. Paterson and J.B. Riding)
- 4:10 pm Biostratigraphy on the Johan Sverdrup Field, offshore Norway (**A. Cullum** and B. Selvikvåg)
- 4:30 pm Reworked palynomorphs in the latest Jurassic – Early Cretaceous Westbourne Formation – Mooga Sandstone succession, Surat Basin, southeastern Queensland, Australia (**J.J. Cooling**, J.L. McKellar, J.S. Esterle and V. Bianchi)
- 4:50 pm Closing Remarks

**6:00pm – 8:00pm Icebreaker: Paly Patio Party @ Marriott's Roof Top Patio**

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***Tuesday, August 7th:***

- 8:00 am Breakfast (outside Sunalta Room @ Marriott Hotel)
- 9:00 am Opening Remarks

**CAP Special Session: From Land to Sea - Innovative Research by Canadian Palynologists**

Chairs: Vera Pospelova and Manuel Bringué

- 9:10 am Non-pollen palynomorphs (NPPs) in the marine sediments of Arctic Canada: a valuable paleoenvironmental tool in the late Quaternary (**A.J. Pieńkowski**)
- 9:30 am Dinoflagellate cyst production in the Cariaco Basin: a 12.5 year-long sediment trap study (**M. Bringué**, V. Pospelova, E.J. Tappa and R.C. Thunell)
- 9:50 am Production of organic-walled dinoflagellate cysts in the presence/absence of sea ice cover in the Beaufort Sea (Arctic Ocean): a sediment trap study (**V. Pospelova**, C. Lalande, M. Heikkilä and L. Fortier)
- 10:10 am Coffee Break

- 10:40 am Canadian research on freshwater dinoflagellates and their cysts – paleoecological, biostratigraphic, and taxonomic insights (**F.M.G. McCarthy**, A.M. Krueger, D.C. Danesh and O.B. Kuzmina)
- 11:00 am KEYNOTE: On the edge: almost 50 years of Mesozoic–Cenozoic palynology in eastern Canada (**R.A. Fensome**, G.L. Williams, R.A. MacRae and H. Nøhr-Hansen)
- 12:00 pm Lunch Break  
CAP Annual General Meeting (@ One18 Empire, private dining room)

### General Palynology Session

Chairs: Marie Thomas and Stephen Louwye

- 2:00 pm Out of the gray (**J. Lucas-Clark**)
- 2:20 pm Resolving the age of the Oyster Bay Formation, Vancouver Island, British Columbia (Canada) (**S.M.S. McLachlan** and V. Pospelova)
- 2:40 pm Recent efforts to uniformize Paleocene Dinocyst species systematics in the greater North Sea Basin (**M. Vieira** and S. Mahdi)
- 3:00 pm Drilling the Whale appraisal well: use of palynology to assist placement of a critical casing point and coring point in the Wilcox Formation, Gulf of Mexico (**I.M. Prince**, S-J. Jackett, N. Champion, M. Polling, G. Martin, M. Jakeman and M. Borges)
- 3:20pm Cenozoic floral history of southeastern Australia (**V.A. Korasidis** and M.W. Wallace)
- 3:40 pm: Scientific Medal for Scientific Excellence Presentation (recipient: David Batten)

#### **4:00pm - 6:00pm: Poster Reception (Sunalta A)**

Middle Miocene shallow marine sequences in tropical South America: applied palynology improving regional stratigraphic correlation in northern Colombia (D. Cárdenas, F. Oboh-Ikuenobe, E. Duarte, E. Mongol, E. Hernández, O. Ilesanmi, B. Moore, C. Jaramillo and O. Adojoh)

Aptian-Albian palynomorphs from the onshore Zululand Basin (South Africa): Towards a refined age control and depositional model (A.E. Götz and K. Ruckwied)

Pollen rain-vegetation ratio of two transects of the tropical deciduous forest in San José Tilapa, Puebla (Tehuacán-Cuicatlán Valley), Mexico (M. León-Carreño, B. Vasquez-Velasco, A. Martínez-Bernal, E. Ramírez-Arriaga, A. Valiente-Banuet and Ma. del R. Zarate-Hernández)

*Gammeroites volkheimeri* Archangelsky S. 1988, a distinct bisaccate pollen from the southern hemisphere (D. Michoux)

Preliminary palynofloristic results from the lower-middle Eocene “Tilapa red beds” and from the middle Eocene Yanhuitlán Formation, Mexico (E. Ramírez-Arriaga, A. Martínez-Bernal, E. Martínez-Hernández, A.F. Nieto-Samaniego and M. Prámparo)

Imaging the internal and external wall structures of pollen grains susceptible to structural collapse (D. Tirlea, H. Friebe, P. Li, S. Xu and E. Flaim)

**7:00 pm Business and Beer Bash, Last Best Brewing & Distilling**

- Meet in lobby of Marriott Hotel @ 6:45 for those who wish to walk over as a group

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**Wednesday, August 8th:**

8:00 am - 9:00 am Breakfast (outside Sunalta Room @ Marriott Hotel)

9:00 am Opening Remarks

**General Palynology Session**

Chair: Stephen Louwye

9:10 am Miocene palynoflora and its climatic significance in Penghu islands (**W.-M. Wang**, Y.-N. Cheng and H.-Y. Shan)

9:30 am Late Miocene palaeoenvironmental evolution of the Dacian Basin (SE Romania) (**M. Casas-Gallego**, V. Novak, I. Pérez-Rodríguez, J. Fenton, A. Marza and E. Tudor)

9:50 am Palynology and age of faulting in the Pliocene Pismo Formation, coastal central California, USA (**L.H. Fisk** and D.M. Haasl)

10:10 am Coffee Break

**Theme Session: Applications of Palynology to Environmental Science**

Chairs: Steve Stukins and Gunn Mangerud

10:40 am Multiproxy for determining the timing of Neotropical grasslands expansion in the Llanos Basin, Colombia (J. Romero, M.A. Escobar, **A. Urban**, D. Nelson, G. Bayona, S.W. Punyasena, M. Zavada and C. Jaramillo)

11:00 am Did grassland extensively migrate southward over 1000 km into the present-day forested eastern China during the Last Glacial Maximum?-a new pollen record (**J. Shu**)

11:20 am Modern xerophytic shrubland pollen rain and its application to the interpretation of Cenozoic pollen data from the Tehuacán-Cuicatlán Valley, Mexico (**E. Ramírez-Arriaga**, A. Martínez-Bernal, A. Valiente-Banuet, M. Prámparo and Ma. del R. Zarate-Hernández)

11:40 am Group Photo

- 12:00 pm      Lunch Break
- 2:00 pm      Melissopalynological analysis of *Scaptotrigona mexicana* honey and field observations in Cuetzalan del Progreso, Puebla, Mexico (**E. Martínez-Hernández**, E. Ramírez-Arriaga, M.G. Sánchez Dirzo and M.A. Castillo-Hernández)
- 2:20 pm      Palynology of honey and bees in North Carolina as outreach for informal science education (**M.B. Farley**, R.A. Hagevik and K.U. Campbell)
- 2:40 pm      Ecohydrological dynamics of a degrading subarctic peatland: Implications for Arsenic mobility (**J.M. Galloway**, M. Gałka, G.T. Swindles, S.A. Wolfe, P.D. Morse, R.T. Patterson, H. Falck and L. Kung)
- 3:00 pm      Pollen and non-pollen palynomorphs as biomonitors in oil sands operations (**F.M.G. McCarthy**, L.A. Neville, C.S. Garner and R.T. Patterson)
- 3:20 pm      Student Awards and Closing Remarks
- 3:30 pm      Poster tear-down
- 4:00pm-7:00pm      Incoming Board Meeting (@ One18 Empire, private dining room)

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***Thursday, August 9<sup>th</sup>***

- 8:00 am      Depart for Burgess Shale & Canadian Rocky Mountains field trip

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***Friday, August 10<sup>th</sup>:***

- ~10:00 pm      Arrive back to Marriot Hotel from Burgess Shale & Canadian Rocky Mountains field trip