

Palaeogeography: the Spatial Context for Understanding the Earth System

St.Johns College, Cambridge, U.K.
August 10-13th, 2008



FINAL NOTICE

Limited spaces are still available so please register as soon as possible

Keynote Speakers

David Rowley (University of Chicago): *palaeoaltimetry and Tibet*
Alan Smith (University of Cambridge): *tectonic modelling and its precision*
Paul Valdes (University of Bristol): *climate models and palaeogeography*
Larry Lawver (University of Texas, Austin): *plate modelling the Gulf of Mexico*
Simon Dadson (Centre for Ecology and Hydrology, Oxford): *landscape dynamics*
Ian Dalziel (University of Texas, Austin): *pre-Pangaea palaeogeography*

Palaeogeography is a key boundary condition for explorationists in the oil, gas and minerals industries and climate modellers alike. This meeting has been designed to bring together all interested parties and to look at the problem from three main perspectives: plate tectonic models, which underpin all palaeogeographies; palaeolandscapes, which includes palaeotopography and palaeobathymetry as well as reconstructions of drainage systems; climate and ocean dynamics, which examines how palaeogeography impinges on Earth System Modelling.

Format of Meeting

2½-day conference; oral and poster presentations; invited papers. To facilitate discussion, the number of active participants will be limited to 100 individuals. General attendance is limited.

Technical Conveners

Roy Livermore (University of Cambridge): roylivermore@hotmail.com
Paul Markwick (GETECH): pjm@getech.com
Matthew Huber (Purdue University): huberm@purdue.edu

Further information about this conference can be found on the SEPM and Geological Society, London websites:

GSL: <http://www.geolsoc.org.uk/events>

SEPM: <http://www.sepm.org/events/researchconferences/rconferencehome.htm>

Publications

Program with abstracts at the meeting and a planned post-conference GSL-SEPM Special Publication.

GSL/SEPM Joint Research Conference CAMBRIDGE, August 10-13, 2008



The
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Transport

For those of you planning on attending the IGC 2008 and this Cambridge conference you may be interested to learn that Ryanair have cheap, direct flights between Oslo and London (Stansted): www.ryanair.com
Details on how to get to and from St.John's College are available on the college website

Accommodation

Accommodation is available at St. John's College at a special rate for participants of **£240 (total cost)**. Further details are available on the registration page:

<http://www.geolsoc.org.uk/events>

St John's College is one of the finest colleges in Cambridge and a great venue for a conference. For further details about the facilities and accommodation please visit the college website:

<http://www.joh.cam.ac.uk/conferences/>

Registration

Registration through the Geological Society website:

<http://www.geolsoc.org.uk/events>

- £120 Fellow / corporate affiliate
- £170 Non-Fellow
- £120 Speaker
- £60 Student / retired

If you have any questions concerning accommodation or registration please contact **Georgina Worrall** at the Geological Society:

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We would like to express our thanks to the current sponsors of this conference:



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SCHEDULE

DAY 1: Monday 11th August 2008

Session 1: Introduction & History

8:30am - Introduction and Welcome

Session 2: Plate Modelling

8:45am – Smith, A. & Livermore, R. (KEYNOTE)

The precision of continental reconstructions

9:35am – Ernst, R., Bleeker, W., Hamilton, M., Söderlund

Continental reconstructions back to 2.6 Ga using the Large Igneous Province (LIP) record, with implications for mineral deposit targeting and hydrocarbon resource exploration

10:05am – Ali, J.

Reconciling the Indian Ocean plate tectonic-paleogeographic framework with the paleobiogeographical record: key problems and best answers 2008

10:35am - BREAK -----

10:50am – Herold, N., Sdrolis, M., Müller, D., You, J.

Reconstructing tectonic boundary conditions of the Middle Miocene

11:40am –Whittaker, J.

TBA [sea floor roughness]

12:10 – LUNCH -----

Session 3: Tectonics and Palaeoelevation

1:20pm – Rowley, D. (KEYNOTE)

Insights into orogenesis based on stable isotope paleoaltimetry

2:10pm – Dupont-Nivet, Hoorn, C., Konert, M.

Palynological evidence for uplift of the Tibetan Plateau prior to the Eocene-Oligocene climate transition

2:40pm – Lawver, L., Gahagan, L.M., Norton, I.O. (KEYNOTE)

A PLATES reappraisal of the formation of the Gulf of Mexico

3:30pm - BREAK -----

4:00pm – Dalziel, I. (KEYNOTE)

Reconstructing Pre-Pangea Earth paleogeography

4:30pm – Loope, D., Rowe, C., Oglesby, R., Van der Voo, R.

Integrating eolian cross-strata with climate modeling to resolve Pangean

5:00 – 6:00pm – DISCUSSION FORUM

DAY 2: Tuesday 12th August 2006

Session 4: Palaeogeography.

8:30am –Dadson, S. (KEYNOTE)

Sediment delivery to ocean basins from steep mountain islands

9:20am - Markwick, P.

TBA (Drainage analysis and implications for palaeodrainage reconstructions)

10:10am – Bohacs, K. & Fraticelli, C.

Verifying/calibrating paleogeographic reconstructions – the limitations of modern synoptic analogs and the critical roles of contingency, conditioning and context

10:40am - BREAK -----

11:00am – Valdes, P. (KEYNOTE)

TBA

11:50 – Thrasher, B.L., & Sloan, L.C.

The effects of paleoelevation on the regional Early Eocene climate of Western North America

12:20am - LUNCH -----

1:20pm – Wyton, J., Sharland, P., Simmons, M., Kemp, D., Godet, A.

Identification, timing, causation and palaeogeographic mapping of the global Early Aptian OAE (K80 MFS)

1:50pm – Narjess, K.

TBA [Tunisian palaeoenvironmental reconstructions]

2:20pm – Butt, A., Ghazi, S.

The Paleogene of the Salt Range, Pakistan

2:50pm – Huber, M.

The importance of paleogeography for understanding Eocene climates

3:30pm - BREAK -----

4:00pm – DISCUSSION FORUM followed by dinner: Can palaeogeography really help explorationists? How reliable are results? What next?

DAY 3: Wednesday 13th August 2006

Workshop

8:30am – Livermore, R

Plate modelling and the problem of ocean gateways

10:00am - BREAK -----

10:30am – Markwick, P.

Palaeogeographic Methods: reconstructing the palaeolandscape for explorationists and climate modellers and why it's so important to get it right

12:00am – DISCUSSION & CLOSE OF MEETING

1:00pm - LUNCH -----

