



The
Geological
Society

-serving science & profession

William Smith Meeting 2014: The Future of Sequence Stratigraphy: Evolution or Revolution?

22 – 23 September 2014

Programme

| Monday 22 September 2014 | |
|---|---|
| 08.30 | Registration & tea & coffee (Main foyer and Lower Library) |
| Sequence Stratigraphy assumptions and methods | |
| 09.00 | Introduction: What's the problem? |
| 09.15 | KEYNOTE: How has Sequence Stratigraphy delivered on its promise? Insights from seismic data Henry Posamentier (Chevron) |
| 10.00 | Four decades of Sequence Stratigraphy: Musings on a mature method William Hellend-Hansen (University of Bergen) |
| 10.30 | A simplified guide for Sequence Stratigraphy: Nomenclature, Definitions and Method Vitor Abreu (Exxonmobil) |
| 11.00 | Tea, coffee and refreshments and posters (Lower Library) |
| Sequence Stratigraphy by accommodation succession method, stratigraphic hierarchy and stratigraphic signatures Jack Neal (Exxonmobil) | |
| 12.00 | Modelling spatial and temporal variation of productivity, anoxia and TOC associated with sea-level changes Christian Bjerrum (University of Copenhagen) |
| 12.30 | Debate Chaired by P. Allen, P. Wright & P. Burgess |
| 13.00 | Lunch and posters (Lower Library) |
| Sea Level and Geodynamics | |
| 14.00 | KEYNOTE: Is there a stable reference frame for eustasy? Mike Gurnis (Caltech) |
| 14.45 | The influence of large-scale tectonics, mantle flow and climatic change on sediment accumulation John Armitage (Royal Holloway) |

| | |
|---|---|
| 15.15 | The relationship between Sequence Stratigraphy and Dynamic Topography Mark Hoggard (Bullard Laboratories) |
| 15.45 | Tea, coffee and refreshments and posters (Lower Library) |
| | |
| 16.15 | Building a better eustatic model: comments on Palaeozoic sea level change David Ray (Neflex) |
| 16.45 | High amplitude Cretaceous sea level fluctuations registered in the carbonate systems of the Eastern Arabian Plate Frans van Buchem (Maersk Oil) |
| 17.15 | Debate Chaired by P. Allen, P. Wright and P. Burgess |
| 17.30 | Summary of the day Chaired by P. Allen, P. Wright and P. Burgess |
| 18.00 | WILLIAM SMITH LECTURE: The Sequence Stratigraphy Revolution Ron Steel (University of Texas and University of Aberdeen) |
| 19.00 - 20.00 | Drinks reception and posters (Lower Library) |
| | |
| Tuesday 23 September 2014 | |
| 08.00 | Registration, Tea & coffee (Main foyer and Lower Library) |
| Multiple Controls | |
| 08.30 | Recap on Day 1, Introduction to Day 2 |
| 08.45 | KEYNOTE: The autostratigraphic view of non-uniqueness Tetsujo Muto (Nagasaki University) |
| 09.30 | Sequence Stratigraphy and lithostratigraphy, the devil is in the details Joep Storms (Delft University of Technology) |
| 10.00 | Re-interpretation of sequence stratigraphic architectures as the product of autogenic behaviours and variations in sediment flux: Upper Cretaceous Blackhawk Formation, Book Cliffs, Utah, U.S.A Gary Hampson (Imperial College London) |
| 10.30 | Delta growth and river valleys: The influence of high-frequency climate and sea level changes on the South Adriatic shelf (Mediterranean Sea) Vittorio Maselli (Istituto di Scienze Marine, Bologna, Italy) |
| 11.00 | Tea, coffee and refreshments and posters (Lower Library) |
| | |
| 11.30 | Vertical and lateral heterogeneities in shallow marine reservoir analogues: the Panther Tongue (para) sequence, Utah Andrea Forzoni (Delft University of Technology) |
| 12.00 | Climate change, sediment supply and the deep water record Peter D. Clift (Louisiana State University) |
| 12.30 | Debate Chaired by P. Allen, P. Wright and P. Burgess |
| 13.00 | Lunch and Posters (Lower Library) |
| The Impact of variable sediment flux | |
| 14.00 | KEYNOTE: A 'source-to-sink' perspective on Sequence Stratigraphy: Accommodation vs sediment supply as drivers of depositional sequences Rob Gawthorpe (University of Bergen) |

| | |
|-------|---|
| 14.45 | The Problem with Sequence Boundaries: Insights from Late Quaternary Systems and Experimental Studies Mike Blum (University of Kansas) |
| 15.15 | On the Challenge of Coupling Sequence Stratigraphy and Dynamic Landscape Evolution in Deep Time Ole Martinsen (Statoil) |
| 15.45 | Tea, coffee and refreshments and posters (Lower Library) |
| | |
| 16.15 | The effect of ultra-large rivers on marine sequence development Philip Allen will introduce the topic of spatially variable sediment discharges to the ocean followed by a period of discussion |
| 16.45 | Variations in sediment flux at the million-year time scale: implications for Sequence Stratigraphy Nikolaos Michael (Saudi Aramco) |
| 17.15 | Discussion: What next for Sequence Stratigraphy – evolution or revolution? Chaired by P. Allen, P Wright and P. Burgess |
| 17.45 | End of conference |