

# 52<sup>nd</sup> BSRG ANNUAL GENERAL MEETING

University of Hull



## PROGRAMME AND SCHEDULE

# 52nd BSRG AGM, HULL 2013

## Schedule & Timetable

### ALLAM LT, DERWENT BUILDING

#### DAY 1: 19th December 2013

815 900 Coffee

900 915 Welcome and Introduction

#### Session 1: [Plenary] - Carbonate Sedimentology (CHAIR: Dan Parsons)

915 945 KEYNOTE: Facies Models and Forward Modelling of Carbonate Depositional Systems Bosence, Dan

#### Session 2: [Plenary] - Novel Advances in Sedimentology (CHAIR: Dan Parsons)

945 1000 The Use of Unmanned Aerial Vehicles in Sedimentology Howell, John

1000 1015 The importance of spin: global submarine channel dynamics Peakall, Jeff

1015 1030 Using sedimentology to help unravel the subduction-accretion & collision history of the southern margin of Eurasia (NE Turkey) Robertson, Alastair

1030 1045 Sedimentology of a Welsh Ordovician Konservat-Lagerstätte Jordan, Naomi

1045 1100 Discovery of major Middle Permian extinction in the Boreal Realm (Spitsbergen) with a possible causal link to Chinese volcanism Bond, David

1100 1130 Coffee

#### Session 1: Cont. (CHAIR: David Bond)

1130 1145 Lime mud genesis: The microbial biofilm link Pedley, Martyn

1145 1200 Using ICP-OES and ICP MS as a method of chemostratigraphic correlation and indication of environmental changes in Devonian carbonate reef complexes of the Canning Basin, Western Australia Caulfield-Kerney, Sam

1200 1215 Controls on non-marine carbonate facies: the Purbeck Formation (Late-Jurassic to Early Cretaceous) of Dorset, Southern England. Gallois, A.

1215 1230 Reactive transport modeling of mixed fluid dolomitisation: Traditional coastal mixing zones and ascending freshwater-mesohaline mixing Cooper, Katherine

1230 1330 Lunch

#### Session 3: [Plenary] - Deltaic, Fluvial and Coastal-Shelf Interactions (CHAIR: Jaco Baas)

1330	1400	KEYNOTE: Deltas or Marine-Influenced Distributive Fluvial Systems - what does get preserved in the rock record?	Hartley, Adrian
<b>Session 3: Cont. (CHAIR: Jaco Baas)</b>			
1400	1415	Tidal to fluvial transition of the Sego Sandstone, Book Cliffs, Utah, USA	van Cappelle, Marijn
1415	1430	Influence of basin physiography on coastal-shelf sedimentary processes: Integrating ocean modelling and sedimentary facies analysis in the Mio-Pliocene, NW Borneo, South China Sea	Collins, Daniel A.
1430	1445	Tidal bars scale flow and sedimentary processes	Keevil, Claire
1445	1500	Assessing the influence of backwater hydraulics on sedimentological character of distributary channel fills in a tidally influenced deltaic system, Campanian Neslen Formation, Utah, USA	Colombera, Luca
1500	1530	Coffee	
<b>Session 3: Cont. (CHAIR: Arjan Reesink)</b>			
1530	1545	Modelling tectonic and eustatic sea-level processes in the Kyrenia Range, Cyprus, using sedimentology and new U-series data	Palamakumbura, Romesh
1545	1600	Subsurface classification of fluvio-deltaic sub-environments in the Triassic Mungaroo Formation, Exmouth Plateau, Australia	Stuart, Jennifer
1600	1615	The fluvial-tidal transition as a tool to assess the importance of tides in ancient deltas: implications for reservoir modelling	Gugliotta, M
1615	1630	Sedimentological, Ichnological and Paleontological Indicators of Tidal Influence and Brackish Water Conditions in Fluvial Coastal Plain Successions	Shiers, Michelle
<b>Special Session [Plenary] (CHAIR: Dan Parsons)</b>			
1630	1700	Poster Introductions	
1700	1900	Wine Reception and Posters	
1930	2359	Conference Meal (The Deep)	
<b>DAY 2: FRIDAY 20th December</b>			
<b>Session 5: [Plenary] - Fine-grained systems (Clay Minerals Group Supported Session) (CHAIR: David Wray)</b>			
900	930	KEYNOTE: From Nanopore to Wellbore: Penetrating the Shale Matrix	Aplin, Andrew
<b>Session 6: Turbidites, Debrites and Mass Flows - dynamics &amp; deposits (CHAIR: Jeff Peakall)</b>			

930	945	Optimised turbulence enhancement during shear flow over a rib roughened boundary: implications for turbidity currents run-out length	Arfaie, A.
945	1000	Facies Trends and Large-Scale Architecture of the Pennsylvanian Ross Formation, Western Ireland - New Insight from Cores South of the Shannon	Obradors-Latre, A
1000	1015	Controls on the thickness and architecture of turbidite sandstones in MTD dominated settings, Vocontian paleomargin, SE France	de Leeuw, J.
1015	1030	Coalesced 3D scours on the base of a hybrid event bend from the Gottero Sandstone, NW Italy	Fonnesu, Marco
1030	1045	Inherent autogenic avulsion of aggradational submarine channels	Dorrell, R.M.

1045 1130 Coffee

**Session 6: Cont. (CHAIR: Marco Patacci)**

1130	1145	Architecture and Facies Characteristics of Scour-fills in Channel-Lobe Transition Zones, Karoo Basin, South Africa	Hofstra, Menno
1145	1200	An unexpected "switch-off" in turbidity current activity during the Palaeocene-Eocene Thermal Maximum	Clare, M.
1200	1215	The Fosado Turbidite Channel Complex (Eocene, South-Central Pyrenees, Spain)	Obradors-Latre, A
1215	1230	Finding order in chaos: The sedimentology of the Gwna mélange	Dartnall, Rosemary

1230 1330 Lunch

1330 1400 BSRG AGM Meeting

**Session 6: [Plenary] - Cont. (CHAIR: Ian Kane)**

1400	1430	KEYNOTE: Half-way between the gutter and the scars: a review of mass transport deposits and look forward	Jackson, Chris
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**Session 6: Cont. (CHAIR: Ian Kane)**

1430	1445	Lateral facies changes and architecture of hybrid-like beds deposited in a ponded minibasin (Castagnola Fm, NW Italy).	Patacci, Marco
1445	1500	A progradational ice advance sequence in the Neoproterozoic Kingston Peak Formation, California	Busfield, M.E.

1500 1530 Coffee

**Session 6: Cont. (CHAIR: Dave Hodgson)**

1530	1545	Sedimentary facies in submarine canyons	Sumner, E.J.
1545	1600	Are you picking up what I'm putting down?: Long run-out flows that did not erode the seafloor	Stevenson, C.J.
1600	1615	Temporal and spatial evolution of a waxing then waning catastrophic density current revealed by chemical mapping	Williams, Rebecca
1615	1630	Debrite character and thickness distribution in MTD dominated setting: Middle Reservoir Zone, Britannia Field, North Sea	Teloni, Riccardo
1630	1645	Neoproterozoic ice sheets and olistoliths: the Kingston Peak Formation, Kingston Range, California	Le Heron, Daniel P.
1645	1700	Thin-bedded turbidites: a new approach toward better characterisation	Omoniyi, Bayonle

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### NIDD ROOM, DERWENT BUILDING

#### DAY1: THURSDAY 19th December 2013

815 900 Coffee

900 915 Plenary

#### Session 1: [Plenary] - Carbonate Sedimentology

915 945 Plenary

#### Session 2: [Plenary] - Novel Advances in Sedimentology

945 1000 Plenary

1000 1015 Plenary

1015 1030 Plenary

1030 1045 Plenary

1045 1100 Plenary

1100 1130 Coffee

#### Session 2: [Plenary] - Novel Advances in Sedimentology

1130 1145 Plenary

1145 1200 Plenary

1200 1215 Plenary

1215 1230 Plenary

1230 1330 Lunch

#### Session 3: [Plenary] - Deltaic, Fluvial and Coastal-Shelf Interactions

1330 1400 Plenary

#### Session 4: Basins, Modelling and Reservoir Characterisation (CHAIR: Chris Jackson)

1400 1415 Basin Architecture of the Zubair Formation and its Relationship to the Reservoir Characteristics in Selected Oilfields in The Southern Iraq Al-Ziayyir, Haitham

1415 1430 An Automated Approach to the Measurement of Geometric Attributes from Modern Sedimentary Systems for Object Based Reservoir Modelling Burr Nyberg, J.E.

1430 1445 Siliciclastic reservoirs hosted within Large Igneous Provinces: Parameters concerning Genesis and Distribution Taylor, R.A.D

1445	1500	K-Ar ages dates of authigenic illite in oilfield sandstones – are they reliable?	Wilkinson, Mark
1500 1530 Coffee			
<b>Session 4: Cont. (CHAIR: Dan Le Heron)</b>			
1530	1545	Variations of Sediment Preservation Style in the Upper Jurassic of the Central North Sea Basin, UKCS: Halokinesis or Rift Influence?	Abu Bakar, Azli
1545	1600	3D Geologic and Reservoir Modelling of a Distributive Fluvial System Derived from lidar: A Case Study of the Huesca Fluvial Fan	Burnham, Brian S.
1600	1615	Influence of fluid pressure on the diagenesis of Triassic Skagerrak fluvial reservoir sandstones, Central North Sea, UK	Stricker, Stephan
1615	1630	Identifying depth and flow direction of injectites: diagnostic sedimentary structures	Cobain, S.
<b>Special Session [Plenary]</b>			
1630	1700	Poster Introductions	
1700 1900 Wine Reception and Posters			
1930 2359 Conference Meal (The Deep)			

<b>DAY 2: FRIDAY 20th December</b>			
<b>Session 5: [Plenary] - Fine-grained systems (Clay Minerals Group Supported Session) (CHAIR: David Wray)</b>			
900	930	Plenary	
<b>Session 5: Cont. (CHAIR: Arjan Reesink)</b>			
930	945	Diagenesis and non-mechanical compaction of overpressured shales	Andras, Peter
945	1000	Turbulence Modulation In Transitional Clay Flows: Kaolinite Versus Bentonite	Baas, Jaco H.
1000	1015	New method for settling velocity distributions: Two-population floc systems highlighted in British waters	Macdonald, Robert G.
1015	1030	Microconglomerate siltstones from the Early Carboniferous of Scotland: a key deposit for the preservation of early tetrapods	Bennett, Carys E.
1030	1045	Chemostratigraphy and provenance of clays and other non-carbonate minerals in chalks of Campanian age (Upper Cretaceous) from Sussex, southern England	Wray, D.S.
1045 1130 Coffee			

**Session 7: Fluvial systems and Floodplains - dynamics and deposits (CHAIR: Nigel Mountney)**

1130	1145	Sedimentary structures formed under water surface waves during a sediment-laden flash flood that was observed by remote camera	Froude, M.J.
1145	1200	Flow Structures over Fixed 2D Bedforms in Transient States	Unsworth, C.A.
1200	1215	Statistically estimating the position of an apex for a distributive system	Owen, A.
1215	1230	The Great Flood: Alberta's "biblical" deluge of 2013	Noad, Jon

1230 1330 Lunch

1330 1400 **BSRG AGM Meeting**

**Session 6: [Plenary] - Cont.**

1400 1430 Plenary

**Session 7: Cont. (CHAIR: Nigel Mountney)**

1430	1445	Predicting fluvial reservoir architecture in salt-walled mini-basins through application of field analogues and stochastic modelling	Banham, Steven G.
1445	1500	Fluvial systems of the Ghaggar-Hakra Formation, Barmer Basin, Rajasthan, India: Insights into arid-environment fluvial systems	Beaumont, Hazel

1500 1530 Coffee

**Session 7: Cont. (CHAIR: Claire Keevil)**

1530	1545	Bedform Evolution in Unsteady Flows	Reesink, Arjan
1545	1600	Analysis of fine-grained floodplain facies as a tool to interpret spatial and temporal variation in avulsion style: Cretaceous Blackhawk Formation, Wasatch Plateau, Utah, U.S.A.	Flood, Yvette S.
1600	1615	Tetrapod terrestrialisation in the earliest Carboniferous: paleosol morphology and the floodplain environment of the Ballagan Formation	Kearsey, Timothy
1615	1630	How do drainage systems evolve during mid to late Large Igneous Province development?	Barker, A.R.
1630	1645	The Influence of Cohesive Sediments on Dune Development	Schindler, R.
1645	1700	Identification and interpretation of climatic cycles in alluvial fan sediments; a case study from the Permian Cutler Group, Utah, U.S.A.	Gough, Amy



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### DERWENT CAFÉ BAR AREA

#### 1700 - 1900 THURSDAY 19th December

#### Posters

1 Carbonate-evaporite cyclicity in the Middle Miocene Fatha Formation of the Mesopotamian Basin, Kurdistan	Abdullah, Heero G.
2 Styles of interaction between fluvial and aeolian systems along the Skeleton Coast, northern Namib Desert	Alkathery, Mahmud
3 Styles of fluvial and aeolian system interaction in desert-margin settings: examples from modern systems	Al-Masrahy, Mohammed A.
4 Sedimentological process record of a sediment bypass zone in a base-of-slope setting: an outcrop study from the Laingsburg depocentre, Karoo Basin	Brooks, Hannah L.
5 Stratigraphic architectural complexity in fluvial overbank successions: examples from the Cretaceous Mesa Verde Group, Utah, USA	Burns, Catherine
6 The north-eastern Porcupine Basin: The provenance and petrography of Early Tertiary sands	Evans-Young, S.
7 Determining the palaeodrainage of the Nile river from a provenance study of the Nile delta cone sediments	Fielding, Laura
8 Sedimentology and depositional architecture of the shallow-marine to non-marine transition, Karoo Basin, South Africa	Gomis-Carteso, Luz E.
9 The use of climatic cyclicity as a correlation method between proximal and distal deposits of arid continental basins	Gough, Amy
10 Palaeogeographic reconstruction of an ephemeral fluvial system, Karoo basin	Gulliford, Alice R.
11 Counter-flow ripples: formation, preservation and value for interpreting flow conditions	Herbert, Chris
12 Impact of vegetation patch shape on mean flow and turbulence characteristics	Jordan, David N.
13 Flow transformation in distal lobe environments: Skoorsteenberg Fm., Tanqua Karoo	Kane, Ian A.
14 Revising the base-Quaternary of the central North Sea using 3D seismic mapping	Lamb, Rachel
15 Outcrop analogues contributing towards the understanding of facies distribution and sedimentary architecture in Upper Cretaceous carbonate platforms (South Central	Lavi, Jonathan J.
16 Multi-scale 3D imaging of minerals, pores and organic matter in the Eagle Ford Shale Formation, Texas: implications for oil shale reservoir characterisation	Ma, Lin
17 Factors controlling floc settling velocity within San Francisco Bay, USA and comparisons with parameterization approaches	Manning, Andrew J.
18 Diagenetic modifications in the Eagle Ford Formation	McAllister, Richard T.
19 Root traces and plant-soil interactions of two Middle Devonian trees, New York State	Morris, Jennifer
20 Equatorial sea surface seasonality in the Mississippian (Early Carboniferous) derived from brachiopod shell calcite	Nolan, L.S.P.
21 Deepwater sandstone fairways and their interaction with substrate: analogues from the Numidian turbidites (Miocene) of Sicily.	Pinter, Patricia
22 New records of the Cotham Marble microbialite and implications lithostratigraphy, palaeogeography and depositional environment of the Rhaetian aged Lilstock Formation	Raine, Robert J.

23	Hypsometry and geology of drainage basins: toward understanding the long term landscape evolution of southern South Africa	Richardson, Janet
24	mLog: a free mineral logger for mineralogical modal analyses	Roberson, Sam
25	Modelling complete particle-size distributions from operator estimates of particle size	Roberson, Sam
26	Sedimentary architecture of point-bar deposits in fluvial and tidally-influenced successions: examples from the Cretaceous Mesa Verde Group, Utah, USA	Russell, Catherine
27	Early Carboniferous marginal marine palaeoenvironments preserve important vertebrate fauna in the Northumberland Basin	Sherwin, Janet
28	Dynamic Humber – Using Cellular-Automata to Model an Estuarine Environment	Skinner, C.
29	Controls on Fluvial and Tidal Sandbody Architecture from the Miocene Uncastillo Formation, Spain, the Eocene Green River Formation, Utah, and the Jurassic Lajas	Smaadal, Kristine
30	Reconstruction of channel and barform architecture in a fluvio-deltaic succession: understanding the significance of complex three-dimensional sedimentary architecture	Soltan, Roman
31	Raman spectroscopy as a method of heavy mineral identification	Stone, Tom
32	Key stratal surfaces traced over 30km from shoreface sandstone to distal mud-rich siltstones; paving the way for predicting sedimentary architecture in shale gas reservoirs	Vaitekaitis, Tracey V.
33	Seismic Characteristics of Hyaloclastite Deposits: Implications for Petroleum Exploration	Watton, Tim
34	The timing of silica diagenesis revealed by basin modelling	Wrona, Thilo
35	The Dynamics of Suspended Sediment over Bedforms in Mixed Sand-Clay-EPS Sediment	Ye, L.