



56<sup>th</sup>

BSRG



# Annual General Meeting

16-19 December 2017, Newcastle

# Programme Book

# 56<sup>th</sup> BSRG Annual General Meeting 16-19 December 2017, Newcastle

Conveners

Sanem Acikalin  
Cees van der Land

In partnership with

**pds**group



The  
Geological  
Society

# PROGRAMME

## Saturday, 16<sup>th</sup> December 2017

**Field Trip (10:00-16:00)** – The Carboniferous Coal Measures of the Northumberland Basin: taking coals to Newcastle

**Leader:** Dr. Stuart Jones, Durham University

**Meeting point:** Lay-by on Claremont Road, next to Great North Museum (see map)

## Sunday, 17<sup>th</sup> December 2017

**Workshop (09:00-14:30)** – Virtual Outcrops – From Data Acquisition to Application

**Leader:** Prof. John Howell, University of Aberdeen

**Venue:** Newcastle University City Campus, Cassie Building Room 2.33

**Workshop (15:00-18:45)** – How to Write Fellowships and Grant Proposals

**Leaders:** Prof. Chris Jackson (Imperial College London), Prof. Peter Talling (Durham University), Dr. Ian Kane (Manchester University), Prof. Daniel Parsons (University of Hull), Prof. Jeff Peakall (University of Leeds), Dr. Jon Tennant (ScienceOpen)

**Venue:** The North of England Institute of Mining and Mechanical Engineers – Westgate Road, Newcastle Upon Tyne, NE1 1SE (Next to Central Station)

**Ice Breaker (19:00-21:00)**

**Venue:** The North of England Institute of Mining and Mechanical Engineers – Westgate Road, Newcastle Upon Tyne, NE1 1SE (Next to Central Station)

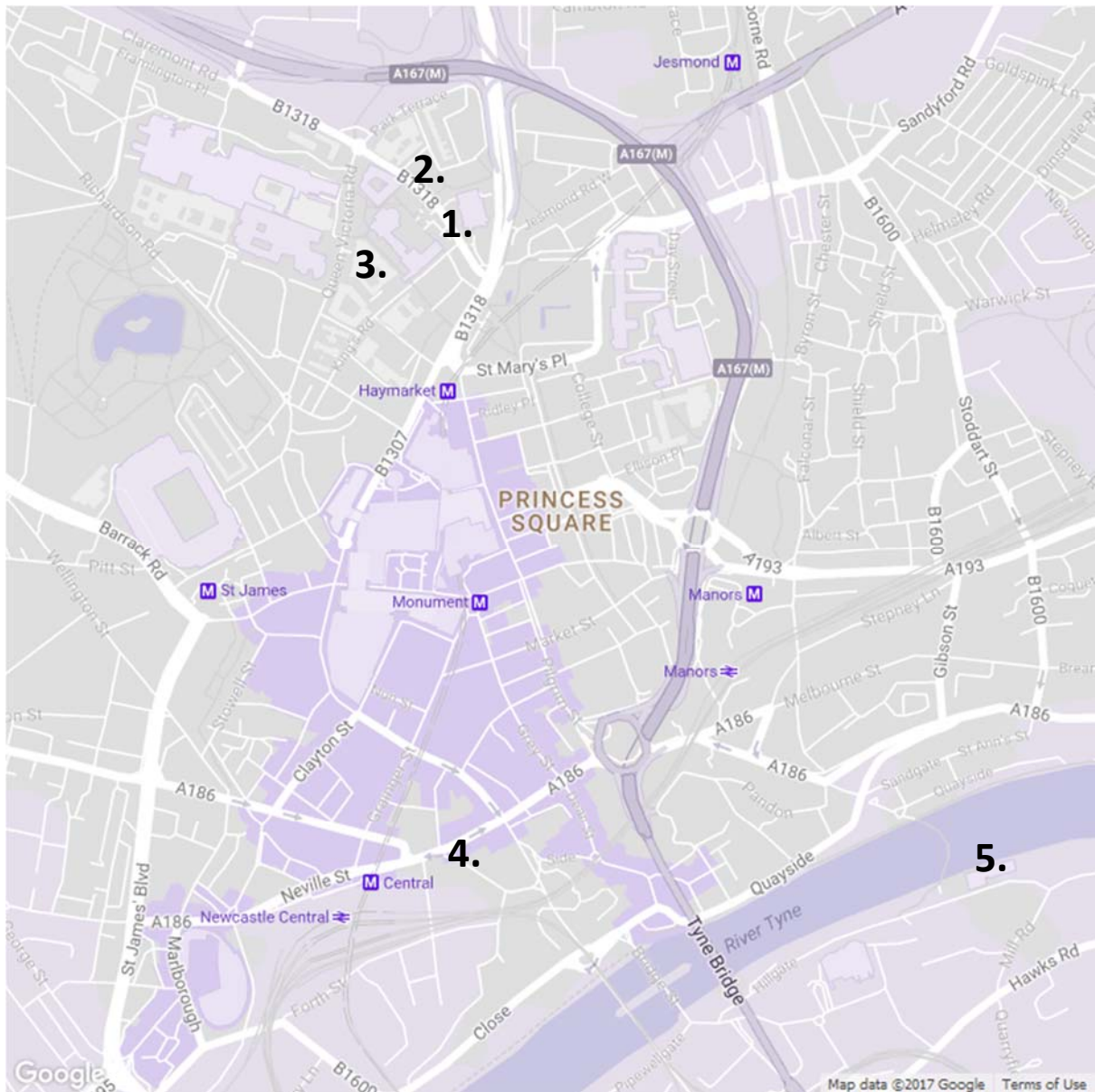
## Monday and Tuesday, 18<sup>th</sup>, 19<sup>th</sup> December 2017

**Technical sessions**

**Venues:** Armstrong Building, Rooms 2.98, 2.16, 1.04 and 1.06  
Bedson Building, Room G.04

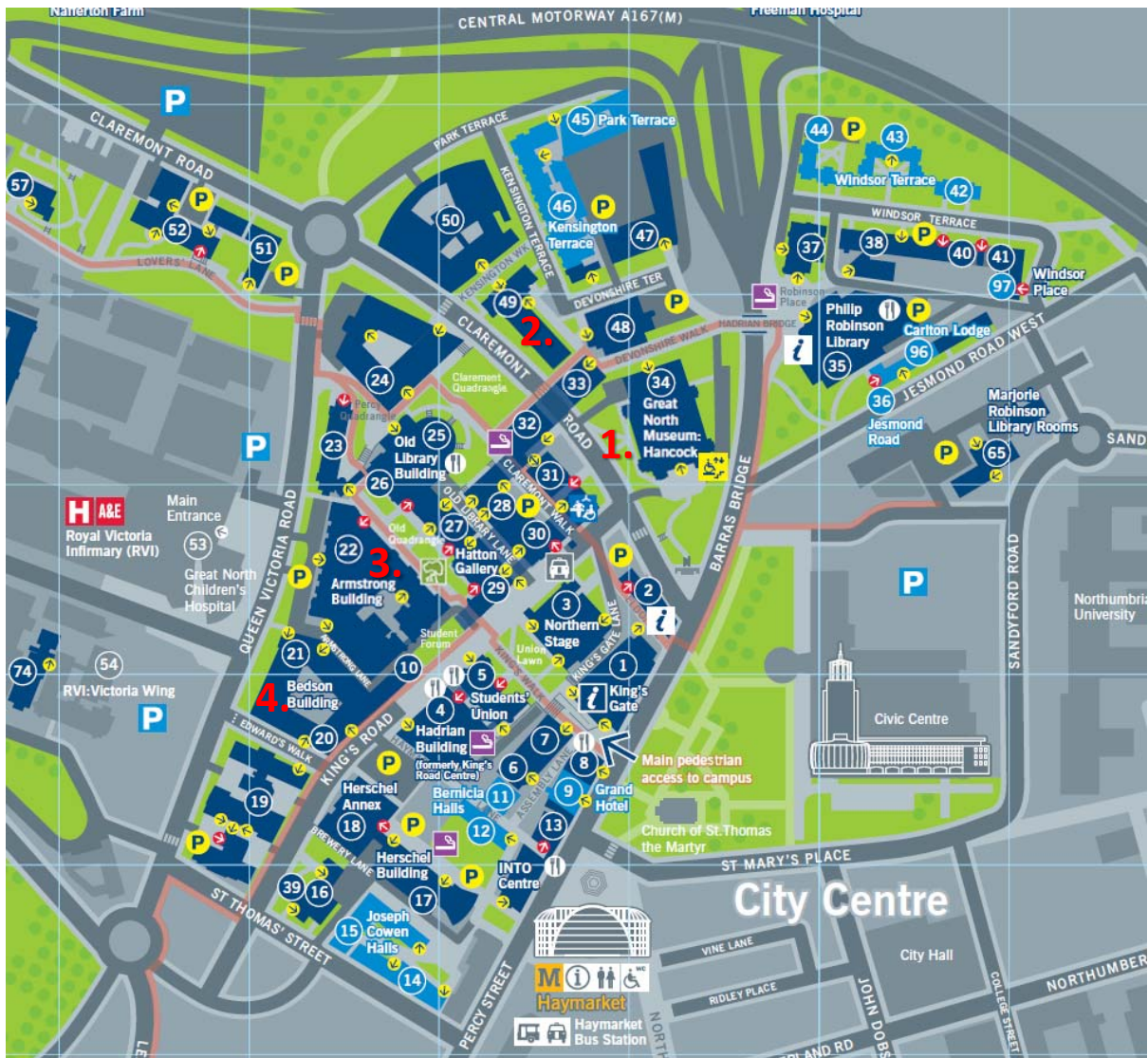
**Conference Dinner (19:30-23:00)**

**Venue:** Baltic Riverside Restaurant, South Shore Rd, Gateshead NE8 3BA



1. Meeting point for fieldtrip, Claremont Road lay-by
2. Cassie Building, Virtual Outcrop workshop
3. Armstrong and Bedson Buildings, Technical Sessions
4. The North of England Institute of Mining and Mechanical Engineers, NE1 1SE
5. Baltic riverside restaurant, NE8 3BA





1. Meeting point for fieldtrip, Claremont Road lay-by
2. Cassie Building, Virtual Outcrop workshop
3. Armstrong Building, Technical Sessions
4. Bedson Building, Technical Sessions

# Programme at a Glance – Monday, 18<sup>th</sup> Dec 2017

9:00-9:15	Welcome and introduction by Head of School <i>Bedson Building Room G.04 Lecture Theatre 1</i>		
9:15-9:45	Dorrik Stow - Keynote Speaker		
9:45-10:15	Fiona Whitaker - Keynote Speaker		
10:15-10:45	Geoff Abbott - Keynote Speaker		
	Armstrong Building		
10:45-11:15	<b>Posters and Coffee break</b>		
	Room 2.98	Room 2.16	Room 1.04
	<b>Deepwater Clastics</b>	<b>Tectonic recorders</b>	<b>Diagenesis</b>
11:15-11:30	Poyatos-More	Chen	Pettigrew
11:30-11:45	Steventon	Sinclair	Breislín
11:45-12:00	Cosgrove	Jordan	Wakefield
12:00-12:15	Nicholson	Robinson	Oye
12:15-12:30	Nwoko		Wasielka
12:30-13:30	<b>Poster and Lunch Break</b>		
	<b>Deepwater Clastics</b>	<b>Tectonic recorders</b>	<b>Diagenesis</b>
13:30-13:45	Allen	Andrews	Wilkinson
13:45-14:00	Hansen	Toby	Dowey
14:00-14:15	Brooks	Soutter	Verhagen
14:15-14:30	Cullis	Nugraha	Stricker
14:30-14:45	Wu	Rodriquez	Okunuwadje
14:45-15:00	Healy	Robertson	
15:00-15:30	<b>Posters and Coffee break</b>		
	<b>Deepwater Clastics</b>	<b>Tectonic recorders</b>	<b>Mudstones</b>
15:30-15:45	Ferguson	Zondervan	Ohiara
15:45-16:00	McArthur	Balmer	Walker
16:00-16:15	Bell	Sommerville	Boulesteix
16:15-16:30	Munawar	Yan	Atar
16:30-16:45	Furhrmann	Barrett	Trabucho
16:45-17:00		Cullen	
17:00-18:30	<b>Poster Session – drinks and BSRG awards</b>		

# Programme at a Glance – Tuesday, 19<sup>th</sup> Dec 2017

9:00-10:00	BSRG - AGM <i>Bedson Building Room G.04 Lecture Theatre 1</i>		
10:00-10:30	Amanda Owen - Keynote Speaker		
	Armstrong Building		
<b>10:30-11:00</b>	<b>Posters and Coffee break</b>		
	Room 2.98	Room 2.16	Room 1.04
	<b>Deepwater Clastics</b>	<b>SEPM Special Sess</b>	<b>Shallow Marine</b>
11:00-11:15	Talling	Nichols	Ghinassi
11:15-11:30	Kelly	Collins	Leslie
11:30-11:45	Tiltston	Narayan	Shiers
11:45-12:00	Vendettuoli	Pierce	Zuchuat
12:00-12:15	Baas	Mullins	Cartesio
12:15-12:30	Summer	Noad	
<b>12:30-13:30</b>	<b>Poster and Lunch Break</b>		
	<b>Deepwater Clastics</b>	<b>Fluvial &amp; lacustrine</b>	<b>Shallow Marine</b>
13:30-13:45	Haughton	Dingle	van Yperen
13:45-14:00	Stevenson	Quick	Cole
14:00-14:15	Baker	Ebinghaus	Emery
14:15-14:30	Spychala	Russell	Watkinson
14:30-14:45	Pohl	Rahman	Vallack
14:45-15:00	Gunn	Burns	Roquette
<b>15:00-15:30</b>	<b>Posters and Coffee break</b>		
	<b>Glacial systems</b>	<b>Fluvial &amp; lacustrine</b>	<b>Fluid-Particle inter</b>
15:30-15:45	Harrison	Duller	Jacinto
15:45-16:00	Roseby	Jorissen	Clare
16:00-16:15	Ross	Al Zerouni	Silva
16:15-16:30	Kearsey	Russell	Simmons
16:30-16:45	Palamakkumbura	Clarke	Crisostomo-F
16:45-17:00	Le Heron		Cornard

# Monday 18<sup>th</sup> December 2017

Session 1 - Welcome and Keynote Speakers

*Bedson Building Room G.04 Lecture Theatre 1*

Session chairs: Sanem Acikalin and Cees van der Land

0900-0915 Welcome by conference organisers and Prof. Rob Edwards, Head of the School of Natural and Environmental Sciences, Newcastle University

0915-0945 Keynote Speaker

**Dorrik Stow** - *Vanished Ocean: How Tethys Re-shaped the World*

0945-1015 Keynote Speaker

**Fiona Whitaker** - *Meteoric diagenesis of carbonate-evaporite sequences - insights from Tertiary aquifers of Qatar*

1015-1045 Keynote Speaker

**Geoffrey Abbott** - *The organic geochemical exploration of degraded metabolites during the early evolution of early land plants*

1045-1115 Posters and Coffee break

Session 2A – Deepwater clastic sedimentary systems

*Armstrong Building Room 2.98*

Session chairs: Joris Eggenhuisen and Megan Baker

1115-1130 Miquel Poyatos-More - *Clinothem architecture and sediment distribution in a bypass- to accretion-dominated basin margin succession (Karoo Basin, SA)*

1130-1145 Michael Steventon - *Strain distribution within mass-transport complexes: seismic characterisation and structural restoration, offshore Uruguay*

1145-1200 Grace Cosgrove - *Is the Continental Shelf a Sediment Filter or Conveyor? An Integrated Study of Grain Character and Clinof orm Trajectory across Clinothem Sequences*

1200-1215 Uisdean Nicholson - *Submarine landslides in the South Atlantic: a stratigraphic record of slope stability and tsunamigenesis at an oblique-convergent plate boundary*

1215-1230 Jefferson Nwoko - *Mass transport deposit relief as a control on turbidite systems: An example from Taranaki Basin*



Session 2B – Sedimentology and stratigraphy as tectonic tape recorders

*Armstrong Building Room 2.16*

Session chairs: Chris Jackson and Bonita Barrett-Crosdil

- 1115-1130 Gochi Chen - *Using volcanogenic sediments in W and N Cyprus to document Late Cretaceous subduction of the Southern Neotethys*
- 1130-1145 Hugh Sinclair - *Buffering of tectonic signals in conglomerates quantified using detrital cosmogenic  $^{21}\text{Ne}$  to reveal channel recycling in the Great Plains of Nebraska*
- 1145-1200 Oliver Jordan - *Three main controls, two preserved outcrops and a basin in a Cretaceous Sea*
- 1200-1215 Steven Robinson - *What causes spikes in detrital zircon frequency? The case of Neoproterozoic South China*

Session 2C – The Afterlife of Sediments - Diagenesis and Fluid-Rock Interactions

*Armstrong Building Room 1.04*

Session chair: Stephan Stricker

- 1115-1130 Ross Pettigrew - *Clastic/Evaporitic Interactions in Arid Continental Settings: Implications for Reservoir Quality, Characterisation and Fluid Flow*
- 1130-1145 Catherine Breislin - *The impact of depositional facies on diagenesis, fracturing and reservoir properties within a carbonate-dominated slope: Widmerpool Gulf, Lower Carboniferous, UK*
- 1145-1200 Oliver Wakefield - *Lithofacies control on deformation bands*
- 1200-1215 Olakunle Oye - *Vertical effective stress as a control on quartz cementation in sandstones*
- 1215-1230 Natalia Wasielka - *Controls of Reservoir Quality in Namurian Tight Gas Sandstones, Southern North Sea*

1230-1330 Posters and Lunch break

## Session 3A – Deepwater clastic sedimentary systems

*Armstrong Building Room 2.98*

Session chairs: Ian Kane and Jefferson Nwoko

- 1330-1345 Charlotte Allen - *New data for high latitude channel systems: morphology and architecture*
- 1345-1400 Larissa Hansen - *Quantifying the depositional architecture of updip basin-floor fan pinchouts*
- 1400-1415 Hannah Brooks - *The evolution of a stepped slope evolution over multiple sea-level cycles*
- 1415-1430 Sophie Cullis - *The significance of hierarchy in deep-marine architectural organisation - a database approach*
- 1430-1445 Nan Wu - *Tying Lithology to the Seismic Character of Mass Transport Complexes (MTCs), Gulf of Mexico*
- 1445-1500 Rachel Healy - *Depositional architecture of a slope apron system*

## Session 3B – Sedimentology and stratigraphy as tectonic tape recorders

*Armstrong Building Room 2.16*

Session chairs: Chris Jackson and Bonita Barrett-Crosdil

- 1330-1345 Steven Andrews - *Evidence for marine conditions in East Greenland during the Late Triassic: Implications for North Atlantic palaeogeographies*
- 1345-1400 Stephan Toby - *Can we reconstruct sediment supply signals from clastic sedimentary successions?*
- 1400-1415 Euan Soutter - *The Halibut Slide - a giant submarine landslide triggered by Paleocene mantle plume activity in the North Atlantic*
- 1415-1430 Harya Dwi Nugraha - *Depositional history of the Late Cretaceous to Recent carbonate-dominated successions in the Exmouth Plateau, offshore NW Australia*
- 1430-1445 Clara Rodriguez - *Deepwater salt-related controls on sediment dispersal and architecture: Santos Basin, offshore Brazil*
- 1445-1500 Alastair Robertson - *Sedimentary tape recorder of tectonic and volcanic processes: Eocene-Recent deep-sea sediments of the oceanic Izu-Bonin forearc, NW Pacific (IODP Expedition 352)*

Session 3C – The Afterlife of Sediments - Diagenesis and Fluid-Rock Interactions

*Armstrong Building Room 1.04*

Session chair: Olakunle Oye

- 1330-1345 Mark Wilkinson - *Does the thickening of illite crystals control the formation of secondary porosity in oilfield sandstones?*
- 1345-1400 Patrick Dowey - *Mineral cement development and element mobility within the Haynesville-Bossier Shale*
- 1400-1415 Iris Verhagen - *The durability of detrital clay coatings at shallow burial depths*
- 1415-1430 Stephan Stricker - *Diagenesis on the edge - Clay mineral coats and quartz overgrowth*
- 1430-1445 Sunday Okunuwadje - *Predictive distribution of sandstone reservoir quality by linking diagenesis to depositional facies and sequence stratigraphy: Evidence from the Middle Jurassic Ravenscar sandstone, Yorkshire Coast, UK*

1500-1530 Posters and Coffee break

Session 4A – Deepwater clastic sedimentary systems

*Armstrong Building Room 2.98*

Session chairs: Jeffrey Peakall and Larissa Hansen

- 1530-1545 Ross Ferguson - *Channelisation 'caught in the act': Insights into deep-marine channel evolution from the Gull Island Formation, County Clare, Ireland*
- 1545-1600 Adam McArthur - *Sedimentary architecture of a detached deep-marine canyon head: Examples from the East Coast Basin of New Zealand*
- 1600-1615 Daniel Bell - *Spatial variability of initial reservoir potential within deep-water channel and lobe elements: examples from the Hecho Group, South-central Pyrenees, Spain*
- 1615-1630 Muhammad Jawad Munawar - *Architecture and reservoir quality of low-permeability Eocene lacustrine turbidite sandstone from Dongying Depression, East China*
- 1630-1645 Arne Fuhrmann - *Drift influence on deep-marine systems - Block 2, offshore Tanzania*

## Session 4B – Sedimentology and stratigraphy as tectonic tape recorders

*Armstrong Building Room 2.16*

Session chairs: Chris Jackson and Bonita Barrett-Crosdil

- 1530-1545 Jesse Zondervan - *Active normal faults and coupled landscape response: bedrock variability in the southern Gulf of Corinth, central Greece*
- 1545-1600 Elizabeth Balmer - *Pliocene-Pleistocene Polis graben, W Cyprus; using sedimentary facies, biostratigraphy and Sr isotopic dating as a tectonic tape recorder*
- 1600-1615 David Sommerville - *Fluvial depositional architectures and facies variations in an early syn-rift setting: the Rodini conglomerates, Gulf of Corinth, Greece*
- 1615-1630 Na Yan - *Modelling Facies Architecture and Heterogeneity of Meandering River Successions in Evolving Rift Basins*
- 1630-1645 Bonita Barrett - *Slip or supply? Contrasting architectures of contemporaneous and adjacent Early Pleistocene, syn-rift fan deltas (Gulf of Corinth)*
- 1645-1700 Tim Cullen - *Deep-water processes, architecture and facies distributions around an intra-basinal horst-tip in coarse grained delta bottomsets in a syn-rift setting*

## Session 4C – As Clear as Mud: Removing the Irony from the Idiom

*Armstrong Building Room 1.04*

Session chairs: Joao Trabucho Alexandre and Darren Grocke

- 1530-1545 Timothy Ohiara - *Microfacies Variability of the Lower Carboniferous (Arundian) Hodder Shale, Bowland Basin*
- 1545-1600 Jack Walker - *UK Shale Gas: Using Geochemistry and Biostratigraphy to Correlate Wells in the Upper Bowland Shale Formation*
- 1600-1615 Kevin Boulesteix - *Depositional processes and palaeoenvironmental evolution recorded in mudstones during the Permian icehouse-to-greenhouse transition, Karoo Basin, South Africa*
- 1615-1630 Elizabeth Atar - *An integrated approach to a well-established problem: hyper organic enrichment and heterogeneity in the Kimmeridge Clay Formation*
- 1630-1645 João Trabucho Alexandre - *Distinguishing turbiditic from hemipelagic mud in Cretaceous deepwater black shale successions: implications for oceanic anoxia*
- 1700-1830 Poster session – (*Armstrong Building Room 1.06*)  
Drinks, BSRG award ceremony

# Tuesday 19<sup>th</sup> December 2017

Session 1 – *Bedson Building Room G.04 Lecture Theatre 1*

0830-1000 British Sedimentological Research Group – Annual General Meeting 2017

1000-1030 BSRG Roland Goldring Award Keynote

**Amanda Owen** - *Predictive fluvial models: applications, limitations and examples*

1030-1100 Posters and Coffee break

Session 5A – Deepwater clastic sedimentary systems

*Armstrong Building Room 2.98*

Session chairs: Peter Haughton and Rachel Brackenridge

1100-1115 Peter Talling- *Can direct measurements produce a step change in understanding of submarine flows?*

1115-1130 Robert Kelly - *The dynamics of partially-confined gravity currents*

1130-1145 Mike Tiltston - *Internal waves as the dominant mechanism for sediment support in stratified turbidity currents*

1145-1200 Daniela Vendettuoli - *The stratigraphic incompleteness of submarine channel deposits*

1200-1215 Jaco Baas - *Biological mediation of turbidity currents, mudflows, and slides*

1215-1230 Esther Summer - *A Predictive Model for Submarine Canyon Type Based on River Influence and Proximity to Land*

Session 5B – Society for Sedimentary Geology (SEPM) Open Session

*Armstrong Building Room 2.16*

Session chairs: Gary Nichols and Adam McArthur

1100-1115 Gary Nichols - *The problems of modern estuary facies models: are they suitable analogues for transgressive, fluvially-influenced shoreline successions in the stratigraphic record?*

1115-1130 Daniel Collins - *When the past isn't present: Investigating palaeobathymetry, palaeotides and sedimentary preservation in the mid-Campanian Western Interior Seaway*

- 1130-1145 Nadia Narayan - *Diving into Hot Water: Geothermal Prospecting in Carboniferous Limestone Karst (A UK Study)*
- 1145-1200 Colm Pierce - *Composite architecture from a low-accommodation aeolian system stack – lateral translation versus bedform climb?*
- 1200-1215 James Mullins - *Improving Reservoir Characterization and Modelling of Aeolian Systems using Process-based Geometrical Models and Multiple Point Statistics*
- 1215-1230 Jon Noad - *The World's Weirdest Sedimentary Structures*

## Session 5C – Shallow Marine and Coastal Sedimentary Systems

*Armstrong Building Room 1.04*

Session chairs: Rhodri Jerrett and Miquel Poyatos-Moré

- 1100-1115 Massimiliano Ghinassi - *Sedimentology of tidal point bars in a microtidal regime: inferences from the northern Venice Lagoon (Italy)*
- 1115-1130 Graham Leslie - *Terrestrial to deep marine Mesozoic meta-sedimentary successions in Singapore*
- 1130-1145 Michelle Shiers - *High-resolution study of a preserved fluvial-to-marine succession for refinement of regional palaeogeography: example from the Neslen Formation, Utah, USA*
- 1145-1200 Valentin Zuchuat - *Schizophrenia in sedimentology: The J-3 Unconformity and the Curtis Formation, Central-Eastern Utah, USA*
- 1200-1215 Luz Elena Gomis Cartesio - *Shelf edge and slope along-strike architecture and sediment distribution: Karoo Basin, South Africa*

1230-1330 Poster and Lunch Break

## Session 6A – Deepwater clastic sedimentary systems

*Armstrong Building Room 2.98*

Session chairs: Peter Talling and Sophie Hage

- 1330-1345 Peter Haughton - *Origin and significance of cross-stratification and related scour surfaces in amalgamated deep-water sandstones*
- 1345-1400 Chris Stevenson - *Tb or not Tb (Act II): Banding in Turbidite Sandstones*
- 1400-1415 Megan Baker - *Novel Sand-Mud Sedimentary Structures in the Aberystwyth Grits Group and the Borth Mudstone Formation*
- 1415-1430 Yvonne Spychala - *Spatial and temporal evolution of submarine lobe deposits*
- 1430-1445 Florian Pohl - *Turbidity Currents in Channel-Lobe Transition Zones (CLTZs): Loss of Lateral Flow-Confinement Controls Patterns of Erosion and Deposition*



1445-1500 Neal Gunn - *Contourite material properties and the association with initiating long run-out submarine debris flows*

## Session 6B - Fluvial and Lacustrine Sedimentary Systems

*Armstrong Building Room 2.16*

Session chairs: Stuart Clarke, Andrew Mitten and Ross Pettigrew

1330-1345 Elizabeth Dingle - *Abrupt grain size transitions drive rapid changes in channel dynamics*

1345-1400 Laura Quick - *The impact of sediment recycling on the gravel sand transition in the Himalayan foreland basin*

1400-1415 Alena Ebinghaus - *Using floodplain ecosystem dynamics to recognize avulsion patterns: A case study from the Bighorn Basin, Wyoming*

1415-1430 Catherine Russell - *Role of fluvial abandonment mechanisms in governing the preserved form of point-bar deposits in the stratigraphic record*

1430-1445 Md Mostafizur Rahman - *Classification and quantification of crevasse splay deposit*

1445-1500 Catherine Burns - *The overlooked overbank: quantitative prediction of stratigraphic architecture in fluvial overbank successions*

## Session 6C – Shallow Marine and Coastal Sedimentary Systems

*Armstrong Building Room 1.04*

Session chairs: Stephen Lokier and Kirsten Dutton

1330-1345 Anna van Yperen - *Facies architecture and stratigraphic development of a thin, low-gradient delta along a sandy coast – the Cretaceous Mesa Rica Sandstone in New Mexico (USA)*

1345-1400 Grant Cole - *Allocyclic vs autocyclic controls on shallow-water delta architecture evolution and sandbody stacking patterns*

1400-1415 Andy Emery - *Environmental change during relative sea-level rise and marine transgression at Dogger Bank*

1415-1430 Matthew Watkinson - *The Effects of Pleistocene Climate Change on Nearshore Sandstone Facies, Stratigraphy and Diagenesis*

1430-1445 Hazel Vallack - *Exploring the drivers of modern carbonate hardground formation in Abu Dhabi*

1445-1500 Emmanuel Roquette - *Source-to-Sink analysis of the Moroccan Atlantic Margin: tracing source areas for Lower Cretaceous reservoirs of the Essaouira-Agadir Basin (EAB)*

1500-1530 Posters and Coffee Break

Session 7A – Glacial sedimentary systems

*Armstrong Building Room 2.98*

Session chairs: Daniel Le Heron and Zoe Roseby

- 1530-1545 Devin Harrison - *GPR architecture and post-depositional evolution of jökulhlaup sediments, Gígjökull, Iceland*
- 1545-1600 Zoe Roseby - *Deglacial history of the Anvers-Hugo Trough, western Antarctic Peninsula*
- 1600-1615 Neil Ross - *Evidence for the long-term sedimentary environment in an Antarctic subglacial lake*
- 1615-1630 Tim Kearsey - *The origins and fill histories of buried palaeo valley systems and overdeepened bedrock troughs in the Midland Valley of Scotland*
- 1630-1645 Romesh Palamakkumbura - *GoForth: Preliminary interpretations from new borehole data on the glacial controls of the Quaternary sedimentary evolution of the Forth Estuary, Scotland*
- 1645-1700 Daniel Le Heron - *An exhumed Paleozoic glacial landscape in Chad*

Session 7B – Fluvial and Lacustrine Sedimentary Systems

*Armstrong Building Room 2.16*

Session chairs: Hugh Sinclair and Lizzie Dingle

- 1530-1545 Robert Duller - *Delayed sedimentary response to the PETM, Northern Spain*
- 1545-1600 Elisabeth Jorissen - *Sedimentary architecture and depositional controls of a Pliocene river-dominated delta in the semi-isolated Dacian basin*
- 1600-1615 Safaa Al Zerouni - *Controls on morphological change within wandering gravel-bed rivers over decadal time scales: River Coquet, Northumberland, UK*
- 1615-1630 Andy Russell - *Controls on rapid post eruption fluvial system response, Calbuco, Chile*
- 1630-1645 Stuart Clarke - *The sedimentology, architecture and depositional setting of the fluvial Spireslack Sandstone of the Midland Valley, Scotland: insights from Spireslack surface coal mine.*

Session 7C – Fluid-particle interaction and its sedimentary products

*Armstrong Building Room 1.04*

Session chairs: Maria Azpiroz and Jaco Baas

- 1530-1545 Ricardo Silva Jacinto - *Storm-induced turbidity flows in the Capbreton submarine canyon, coupling currents, fresh depositis and morphodynamics*
- 1545-1600 Mike Clare - *Ready... Steady... Flow? Common observations of turbidity current frequency and triggering in disparate settings*
- 1600-1615 Joana Silva - *Submarine Slope Failure with Hybrid Dilative-Contractional Behaviour*
- 1615-1630 Steve Simmons - *Detailed measurements of the sediment concentration structure of turbidity currents in the Congo submarine canyon*
- 1630-1645 Adriana Crisostomo-Figueroa - *Stability of detrital grain-coating clays during sediment transport*
- 1645-1700 Pauline Cornard - *Supercritical-flow deposit distribution and facies in a channelised mid-slope, base-of-slope, and proximal basin-floor, Middle Eocene, Ainsa Basin, Spanish Pyrenees*

# POSTERS

(18-19 Dec, Armstrong Building Room 1.04)

## Deepwater clastic sedimentary systems

- 1 Jianan Wu - *Progradational and Retrogradational Patterns in Turbidite Sand Sheets: Similar Allogenic Cycles to Slope Channel Systems?*
- 2 Zoe Cumberpatch - *Syn-kinematic deep-water facies distribution against the flanks of the Bakio diapir, Basque-Cantrabrian Basin, North Spain*
- 3 Euan Soutter - *Sedimentological characteristics of a confined deep-marine basin margin: the Grès d'Annot, SE France*
- 4 David Lee - *Identifying and constraining basin-floor lobe elements using well log data and electrofacies modelling: Fans 3 & 4, Skoorsteenbergr Fm., Tanqua depocentre, Karoo Basin, South Africa*
- 5 Emma Morris - *Detailed characterisation of thin-beds in Pennsylvanian slope and fan deposits, Co Clare, western Ireland*
- 6 Julie Harrald - *Investigating tectonic versus climatic controls on mass flow deposits*
- 7 Donald Christie - *Probabilistic Geometric Modelling of Sand Distribution and Geometry in Topographically Complex Deep Marine Basins*
- 8 Isabel de Cala - *Cross-stratification in turbidite systems*
- 9 Daniel Tek - *The variability of submarine canyons on passive margins: comparative analysis and implications for the prediction of deep-water sedimentary architecture.*
- 10 Maarten Heijnen - *What controls the nature and rate of submarine channel evolution? New insights from high-resolution repeat mapping of an active submarine channel*

## Fluvial and Lacustrine Sedimentary Systems

- 11 Simon Jackson - *Quantitative lithofacies characterization of fluvial, aeolian and lacustrine response to salt-walled mini-basin evolution: comparisons between presently active systems and ancient successions*
- 12 Andrew Mitten - *Facies analysis of the Castlegate Sandstone, Utah: An integrated approach*
- 13 Charlotte Priddy - *Fluvial-Aeolian Interactions Within Arid Continental Basins: Insights from the Kayenta Formation, Western USA.*
- 14 Ben Martin - *Development of predictive fluvial facies models: Huesca Fluvial System, Spain*
- 15 Matthew Booth - *Fluvio-deltaic sedimentology of the Lower Carboniferous, Dinantian Yoredale Formation from the Breagh gas field and onshore Northumberland.*
- 16 Graham Leslie - *Depositional setting of the Namurian Spireslack Sandstone*

- 17 Justina Saroni - *Alluvial Architecture and Facies Associations of the Price River Formation, Mesaverde Group, Book Cliffs, Utah, U.S.A*

## Glacial sedimentary systems

- 18 Bartosz Kurjanski - *Glacigenic reservoirs characterisation using sedimentology, geomorphology and virtual outcrop mapping*
- 19 Alice Witherick - *The impact of thermal regime on the characteristics of glacial sediments*

## Society for Sedimentary Geology (SEPM) Open Session

- 20 Andrea Leng - *The impact of freshwater mussels (order Unionoida) on river bed characteristics and sediment flux: A flume-based study*
- 21 David Cousins - *Spatial Variability of Dune and Interdune Facies in the Aeolian Navajo Sandstone, USA*
- 22 Peter Wooldridge - *Down-system partitioning of sediment within CHI-space*
- 23 Alison Hendry - *The interaction of biofilms, sand grains and clay particles in marginal marine environments*
- 24 Kirsten Dutton - *Interactions between microbes and minerals in microbial mats from the Abu Dhabi coastal sabkha*
- 25 Sara Wroblewska - *Grain-size analysis in thin sections: Where to start?*
- 26 Sophie Hage - *Characterisation of organic carbon from source to sink in a river-derived turbidity current system (Bute Inlet, Canada)*
- 27 Michael Morton - *Examining the link between microlithofacies and organic matter in a marine carbonate mudstone to model source rock deposition in Paratethys*
- 28 Christopher Brewer - *Testing popular methods of quantifying sediment flux in source-to-sink analysis of ancient sediment routing system*

## Shallow Marine and Coastal Sedimentary Systems

- 29 Daniel Collins - *Predicting Shoreline–Shelf Processes: Insights from Numerical Modelling of Ancient Tides*
- 30 Ye Chen - *Knickpoint Migration and Long-term Submarine Channel System Evolution within Bute inlet, British Columbia, Canada*
- 31 James Foey - *Halokinetic Controls on the Evolution of Shallow Marine Facies Architecture: Insights from the Upper Jurassic Fulmar Formation, United Kingdom Continental Shelf*
- 32 Juliet Sefton - *Improving mangrove proxies for sea-level reconstructions*
- 33 Stephen Eaton - *Origin, evolution, and mobility of large seabed bedforms, offshore East Anglia, UK*

- 34 Eva Zimmer - *Variability of shoreline trajectory and clinoform geometry in dip and strike directions in the Eridanos Delta on the Dutch Continental Shelf*
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