



The
Geological
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William Smith Meeting 2016: Glaciated Margins: The Sedimentary & Geophysical Archive

2-3 June 2016

Programme

Thursday 2 June 2016	
08.15	Registration & Tea, Coffee & refreshments (Main Foyer and Lower Library)
08.45	Welcome
Glaciated Margins: Plenary session	
09.00	Peter Talling (University of Southampton) What is the relationship between glacial cycles and large (>500 km ³) submarine landslides and associated tsunami?
09.15	Ebbe Hartz (Det Norske Oljeselskap) Tilts and vertical motion related to ice-loading and glacial erosion: The science and its application
09.30	Tom Rydningen (The Arctic University of Norway) On the evolution of glaciated continental margins
09.45	Sandra Passchier (Montclair State University) An Antarctic stratigraphic record of step-wise ice growth through the Eocene-Oligocene greenhouse-icehouse transition
10.00	Questions for speakers
10.15	Break: tea, coffee, refreshments and posters (Lower Library and Arthur Holmes room)
The Deep Time Archive	
10.45	Marie Busfield (Aberystwyth University) Sedimentology of the Sturtian icehouse: characteristic glaciomarine environments
11.00	Max Lechte (University of Melbourne) A sub-ice setting for Neoproterozoic iron formations within the Sturtian glacial sequence? Insights from Australia and Namibia
11.15	Ian Fairchild (Birmingham University) Neoproterozoic glaciations in Svalbard: a Snowball and an enigma
11.30	Jean-François Ghienne (Université de Strasbourg) Incisions in the Late Ordovician glaciated margin of Morocco: tunnel valleys or submarine canyons?

11.45	Andrew Rees (Saudi Aramco) Depositional Evolution and Internal Architecture of Late Ordovician Pro-glacial Outwash Fans in the Subsurface of Northwest Saudi Arabia
12.00	Saeed Al Tofaif (Royal Holloway University of London) Sedimentological and Stratigraphic Architecture of an Hirnantian Palaeovalley, NW Saudi Arabia
12.15	Questions for speakers
12.30	Lunch and Posters (Lower Library and Arthur Holmes room)
	The Antarctic and the Southern Hemisphere I (Margin architecture/long-term records)
13.15	Keynote: Professor Carlota Escutia (Universidad de Granada) Sedimentary records of past warmth at the Wilkes Land margin: Results from IODP Expedition 318
13.45	Javier Hernández -Molina (Royal Holloway University of London) Sedimentary stacking pattern and evolution of the Antarctic Peninsula, Pacific Margin offshore of Adelaide Island
14.00	Karsten Gohl (Alfred Wegener Institute) Documenting past retreats of the West Antarctic Ice Sheet – Drilling targets in the Amundsen Sea Embayment
14.15	Jennifer Horrocks (Durham University) First high-resolution record of Late Quaternary environmental changes in the Amundsen Sea, West Antarctica, revealed by multi-proxy analysis of drift sediments
14.30	John Smeilie Glaciated margins – what the <i>glaciovolcanic</i> record can teach us
14.45	Questions for speakers
15.00	Break: tea, coffee, refreshments and posters (Lower Library and Arthur Holmes room)
	Resource Potential: Case studies and Dilemmas I
15.30	Keynote: Professor Jonathan Craig (Eni S.p.A. Upstream & Technical Services, Milan) Glacially-influenced Hydrocarbon Systems - Ancient and Modern
16.00	Phil Hirst (Royal Holloway University of London) Depositional Model for the Ordovician Glaciated Margin of Jordan
	The Antarctic and the Southern Hemisphere II (Grounding-line processes/products)
16.15	John Anderson (Rice University) Variable styles and rates of grounding line retreat revealed by high-resolution multibeam data from Ross Sea, Antarctica
16.30	Lauren Simkins (Rice University) Signatures of meltwater influence on ice-sheet retreat from Antarctic continental shelves
16.45	Lindsay Prothro (Rice University) Contribution of localized processes to large-scale ice-margin instability
17.00	Questions for speakers
17.15	The William Smith Lecture Keynote: Professor Julian Dowdeswell (University of Cambridge) The marine-geophysical signature of past ice sheets
18.15	Wine reception (sponsored by MSG)
20.00	Hot fork buffet dinner & posters (Lower Library and Arthur Holmes room)



Friday 3 June 2016	
08.15	Registration & Tea, Coffee & refreshments (Main Foyer and Lower Library)
08.45	Welcome
	Arctic and the Northern Hemisphere I (The BIIS & glaciation of the North Sea)
09.00	Keynote: Professor Chris Clark (University of Sheffield) Constraining the timing of retreat of the last British-Irish Ice Sheet with a focus on the marine-to-terrestrial transition
09.30	Louise Callard (Durham University) Offshore extent and timing of ice sheet retreat in the Malin Sea sector of the last British-Irish Ice Sheet
09.45	Phil Rose (Apache North Sea Ltd) Abundant evidence for Early to Mid Pleistocene regional grounded ice sheets in the middle of the UK central North Sea.
10.00	Rachel Harding (University of Manchester) All change at the base Quaternary: Reconstructing the geomorphology of Marine Isotope Stages 103-92 from basin-wide 3D seismic data in the southern North Sea
10.15	Emrys Phillips (British Geological Survey) Large-scale glaciectonism as a result of active retreat of the Fennoscandian Ice Sheet across Dogger Bank during the Last Glacial Maximum
10.30	Questions for speakers
10.45	Break: tea, coffee, refreshments and posters (Lower Library and Arthur Holmes room)
	Arctic and the Northern Hemisphere II (Glaciated margin architecture & processes)
11.15	Matthew Owen (University College London) Sediment failures within the Peach Slide (Barra Fan, NE Atlantic Ocean) and relation to the British-Irish Ice Sheet
11.30	Dayton Dove (British Geological Survey) Unravelling the North Sea Lobe; Extensive bathymetry and marine seismic data offer new perspectives
11.45	Serena Tarlati (University of Ulster) British-Irish Ice Sheet dynamics during the last glaciation and deglaciation and its influence on sedimentary processes in deep-water along the North Atlantic Passive Margin, North-West Ireland.
12.00	Rachel Lamb (University of Manchester) Grounded glaciation in the central North Sea during the Calabrian (1.78 to 0.78 Ma)
12.15	Lara Peréz (Geological Survey of Denmark and Greenland) Large-scale evolution of the central-east Greenland glaciated margin from late Miocene to Present
12.30	Questions for speakers
12.45	Lunch and Posters (Lower Library and Arthur Holmes room)
	Resource Potential: Case studies and Dilemmas II
13.45	Emmanuelle Arnaud (University of Guelph) Subsurface heterogeneity in ice marginal deposits and its hydrogeological implications

14.00	Monica Winsborrow (The Arctic University of Norway) Subglacial gas hydrate regulation of ice stream flow
14.15	Karin Andreasson (The Arctic University of Norway) Interactions between grounded ice sheets, deeper hydrocarbon reservoirs and methane emissions
14.15	Graham Goffey (Soliton Petroleum Consulting) Lille John oil field, Denmark: a glacially-driven trap and charge model
15.00	Alan Heward Oil in Permo-Carboniferous ice-marginal deposits in Oman: why oil accumulations occur and what makes them challenging.
15.15	Rebecca Smith (Badley Ashton and Associates Limited) New insights into the Al Khlata to Lower Gharif succession of North Oman
15.30	Questions for speakers
15.45	Break: tea, coffee, refreshments and posters (Lower Library and Arthur Holmes room)
	Arctic and the Northern Hemisphere III (Ice dynamics and retreat signatures)
16.00	Patrick Lajeunesse (Université Laval, Québec) Late-Wisconsinan grounding zone wedge systems off the Québec North-Shore (eastern Canada)
16.15	Sarah Greenwood (Stockholm University) Dynamics of and controls on post-Younger Dryas retreat of a Bothnian Sea ice stream
16.30	Heather Stewart (British Geological Survey) Ice sheet dynamics of the western North Sea Basin: Shallow seafloor glacial landforms preserved offshore eastern Scotland and north-eastern England.
16.45	Katharina Streuff (Durham University) The Holocene geomorphological and sedimentary record of Jakobshavn Isbræ, West Greenland
17.00	Prof Richard Chiverrell (Liverpool University) Evolution in palaeo-ice stream behaviour during rapid retreat
17.15	Questions for Speakers
17.30	Concluding remarks and close of conference