

British Society for Geomorphology Annual Meeting

Plymouth 2016

Provisional timetable of events

Sunday 4th September

10:00 – 15:00	OPTIONAL FIELD TRIP: 'Moor to see' – Rediscovering the classic geomorphology of Dartmoor through modern advances in field techniques
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Monday 5th September

10:00 – 15:00	EARLY CAREER RESEARCHER SESSION (lunch provided): Communicating Geomorphology within and beyond the classroom
11:30 – 14:30	EXECUTIVE COMMITTEE MEETING (EC members only). Room TBC
14:00 – 17:00	CONFERENCE REGISTRATION Foyer, Sherwell Lecture Theatre

15:00 – 16:20: SESSION 1	
15:00	Gurnell and Holloway: Getting to the root of the problem
15:20	Harvey <i>et al</i> : Biogeomorphic impacts of invasive crayfish
15:40	Bunting <i>et al</i> : The effect of a fine sediment pulse on invertebrate surface, longitudinal and vertical distributions in stream mesocosms
16:00	Gregory and Chin: Integrating what is natural within urban geomorphology
16:20 – 16:40	TEA AND COFFEE BREAK
16:40 – 18:00: SESSION 2	
16:40	Masselink and Scott:

	Role of NAO in controlling multi-decadal coastal dynamics – a re-interpretation of the ‘lost village of Hallsands’
17:00	Earlie and le Dantec: Field observations of coastal cliff top ground motions and wave cliff interaction under high energy wave conditions
17:20	Rushby and Bateman: Reconstructing extreme and mean sea levels from coastal dunes and salt marshes
17:40	Delgado-Fernandez: The effect of vegetation cover on coastal dunes’ ability to respond to sea-level rise
18:10 – 19:00	FROST LECTURE, Prof Jim Griffiths Tales of an Itinerant Geomorphologist
19:30 -	ICEBREAKER / BUFFET – THE LOFT, MARINA BAR, BARBICAN

Tuesday 6th September

08:40 – 10:10: SESSION 3	
08:40 – 09:10	WILEY AWARD LECTURE: Dr Hervé Guillon <i>et al</i>: Sediment origin and erosion processes within an alpine glaciated catchment (Bossons glacier, Mont-Blanc, France)
09:10	Clason <i>et al</i> : A combined modelling and geomorphological approach to investigating the post-Younger Dryas retreat of the Bothnian Sea Ice Stream
09:30	Boston <i>et al</i> : Styles of glaciation on Kilimanjaro, Tanzania, in response to late Quaternary climate change
09:50	SWEETING AWARD LECTURE: Mr James Cave: Catastrophic Rock-Slope Failures in NW Scotland: Quantitative Analysis and Implications
10:10 – 10:40	TEA AND COFFEE BREAK
10:40 – 12:45: SESSION 4	
10:40	Nield <i>et al</i> : Grainfall and grainflow feedbacks on barchan dune mobility
11:00	Cullen and Bourke: Platform abrasion by boulder transport during the 2015/2016 storms
11:20	Mockford <i>et al</i> : Geomorphological and sedimentological controls on Icelandic dust emissions: observations from Markarfljot, South Iceland
11:40	Parsons <i>et al</i> : The role of biophysical cohesion on subaqueous bed form size

12:00 – 12:45	WARWICK AWARD LECTURE: Prof Douglas Jerolmack Creepy landscapes of glass
12:45 – 13:30	LUNCH AND POSTERS

13:30 – 15:10: SESSION 5A	
13:30	Milan <i>et al</i> : A model for bedrock-core bar structure and development
13:50	Marren <i>et al</i> : The length of incisional avulsions
14:10	Dixon <i>et al</i> : Elliptical Fourier Shape Analysis – a new tool for morphological studies
14:30	Dunn <i>et al</i> : Multidecadal Fluvial Sediment Delivery to Deltas under Environmental Change Scenarios
14:50	Mudd <i>et al</i> : A single event in the Ladakh Himalaya resulted in erosion equivalent to greater than 1000 years of the average erosion rate
13:30 – 15:10: SESSION 5B	
13:30	Oldknow and Hooke: Implications of changing palaeoconnectivity for alluvial fill terrace development in the Great Karoo, South Africa.
13:50	Colarossi <i>et al</i> : Timing, patterns and drivers of late Quaternary environmental changes in the southern African interior
14:10	Hay <i>et al</i> : Towards an understanding of how aeolian sediment accumulation and preservation responds to the influence of complex topography
14:30	Stokes <i>et al</i> : Alluvial fans as recorders of volcanic island denudation
14:50	Brooke <i>et al</i> : Alluvial fans: reconciling modelled and observed sediment dynamics in response to climate change
15:10 – 15:40	TEA, COFFEE AND POSTERS

15:40 – 17:10: SESSION 6	
15:40 – 16:10	CHORLEY AWARD LECTURE: Dr Jeremy Ely Do subglacial bedforms comprise a size and shape continuum?
16:10	Mol <i>et al</i> : Sediment production in warming Arctic environments; a potential problem?
16:30	Thorndycraft <i>et al</i> :

	Testing models of palaeolake evolution during the last deglaciation of the North Patagonia palaeo-icesheet: Geomorphic evidence from the Baker River valley (Chile)
16:50	Jarman and Harrison: Anomalous Landscapes - elephants in geomorphic spaces ?
17:10 – 18:00	SESSION 7 POSTERS
19:00 – 20:00	BSG AWARDS AND FELLOWS PRESENTATION CEREMONY National Marine Aquarium
20:00 –	CONFERENCE DINNER National Marine Aquarium

Wednesday 7th September

08:40 – 10:10: SESSION 8	
08:40	Dingle <i>et al</i> : Where does all the gravel go?
09:00	Boulton <i>et al</i> : When did the Moroccan High Atlas Mountains get high? Constraints on neo- and active tectonics from fluvial geomorphology and palaeoaltimetry
09:20	Roda-Boluda <i>et al</i> : 10Be erosion rates and grain size export controlled by normal fault activity and landslide occurrence
09:40	Whittaker <i>et al</i> : Evaluating the competing effects of lithology and sediment supply on the erosional dynamics of rivers crossing active faults
10:00	Briant <i>et al</i> : Issues in generating effective field-model comparison in landscape evolution modelling
10:20 – 10:40	TEA AND COFFEE BREAK
10:40 – 12:40: SESSION 9	
10:40 – 11:40	LINTON AWARD LECTURE: Prof Jean Poesen Soil erosion in the Anthropocene: research needs
11:40	Boardman: The value of Google Earth for erosion mapping: a case study from West Sussex, UK
12:00	Sperl <i>et al</i> : Wind driven soil erosion after forest conversion in the Chaco ecoregion
12:20	Vercruyse and Grabowski: Sediment fingerprinting at a high temporal resolution in an urbanised catchment. A case of the River Aire, UK
12:40 – 14:00	LUNCH and BSG ANNUAL GENERAL MEETING (AGM from 13:00)

BSG / BHS SESSION - THE HYDROGEOMORPHOLOGY OF FLOOD RISK	
14:00 – 15:30: SESSION 10 - Recent floods in the long-term context	
14:00 – 14:10	Petts and Gilvear: Introduction
14:10	Large <i>et al</i> : Susceptibility of catchments to intense rainfall and flooding
14:30	Burt: Long-term trends in extreme rainfall in the British Isles
14:50	Clubb <i>et al</i> : FIRTH: An new automated technique for mapping floodplain extents from digital elevation models
15:10	Chiverrell <i>et al</i> : Lake sediment evidence for 21st century extreme flooding in the UK
15:30 – 15:50	TEA, COFFEE AND POSTERS
15:50 – 17:10: SESSION 11: Geomorphic impacts of recent flooding	
15:50	Brookes: Erosion risk due to recent 'extreme' flood events in the UK
16:10	Wishart and Maas: The geomorphological impact of the 2015/16 winter storms in Northern England and implications for catchment management.
16:30	Sear <i>et al</i> : Valley and anthropogenic controls on the geomorphic responses to an extreme flood
16:50	Shanahan: Flood risk management and the value of a geomorphological perspective: examples from the Environment Agency
17:10 – 17:30	TEA, COFFEE AND POSTERS
17:30 – 18:15: SESSION 12: Monitoring and modelling of large floods	
17:30	Perks and Russell: Advances in flash flood monitoring using UAVs
17:45	Mullen <i>et al</i> : Modelling the effectiveness of grass buffer strips in managing muddy floods under a changing climate
18:00	Skinner: Modelling the geomorphology of flash flooding from intense rainfall
18:15 – 19:30	BUFFET AND DISCUSSION

POSTERS

Name	Title
Ahmed	High-magnitude flood events trigger cutoffs in the Amazon Basin
Alderson	Geomorphological controls on the fate of fluvial carbon storage in headwater peatlands
Baruch	Improving our understanding of flood risks through citizen science
Boulton	Geomorphic constraints on the active normal faulting of the Gediz (Alaşehir) Graben, Western Turkey.
Boulton	Rivers under the Ice: Fluvial geomorphology of the sub-glacial Gamburtsev Mountains (Antarctica)
Bullard	High Latitude and Cold Climate Dust: observations, impacts and characteristics
Clarke	Using 3D visualisations and online GIS to enhance community flood awareness
Clarke	Investigating the impact of vegetation on alluvial fans using laboratory experiments
Devoto	Evaporite sinkholes in the Friuli Venezia Giulia Region (NE Italy)
El Bastawesy	Integrated management of the Lake Nasser and Tushka for the sustainable development of the South Western Desert of Egypt
Evans	Carbon sinks or hotspots of carbon turnover? Towards a conceptual understanding of the role of floodplains in terrestrial carbon cycling
Foda	Effect of Proposed Developments Project in Tekeze Setit Atbara Sub-basin
Garcia Valiente	Large scale geomorphological characterization of the north coast of sw england
Gilvear	Geomorphic assessments of two upland tributaries of the River Spey Scotland as the basis for considering river restoration
Goodwin	Variability of wave-induced erosion thresholds on tidal flats and salt marshes
Grieve	How does the resolution of topographic data impact the measurement of geomorphic process?
Griffiths	Dynamics and geomorphological influence of large woody debris in a small mountain river, north Wales
Hollings	Sedimentary links between hillslopes and channels in a dryland basin
Holmes	Recent Environmental Change in the Indian Himalaya: A Palaeolimnological Study
Holmes	Wild science: Undertaking geomorphological research on youth expeditions
Holmes	Investigating recent environmental change through geomorphological mapping of glacial landforms in Ladakh, India: a geomorphological outreach project.
Hu	Geometry and dynamics of bedforms under variable flows
Knapp	Large rock slope failures impact on lakes – event reconstruction and interaction analysis using sedimentology and geophysics
Kougkoulos	Glacier Change and glacial lake outburst flood (GLOF) risk in the Bolivian Andes
Mather	Reconstructing palaeoflood magnitude over Quaternary time-scales
Milan	Fine sediment trapping and fingerprinting investigations for catchment-scale sediment management
Mills	Late Pleistocene glaciation of Mount Wilhelm, Papua New Guinea
Mol	Microclimatic weathering in 3D; an Arctic case study

Mol	Weathering at the igneous - sedimentary interface; a case study from South Africa
Moloney	Extending the palaeoflood record: assessing the uncertainty and viability of palaeoflood records
Morris	Modelling the Interaction of Coastal and Estuarine Processes
Nield	Combining through-water terrestrial laser scanning and physical modelling experiments to characterise the structure and drag of vegetation.
Obaid	Landscape maturity and fold growth timing in the Kirkuk Embayment, northern Iraq
Olusola	Interactions between topography, soil moisture and solar radiation: a model framework approach
Omosanya	A seismic geomorphology study of coves and promontories associated with recurrent mass-wasting in the Norwegian Sea.
Peifer	River profiles and landscape evolution of mountainous regions in intraplate settings
Perks	Developing non-contact hydrometric monitoring networks
Poate	Wave Transformation and Rocky Platforms
Richard	A numerical prediction of time dependent flow fields over three dimensional alluvial dunes
Rollason	Multi-dimensional perspectives of flood risk – applying local knowledge to understanding, mapping, and communicating flood dynamics
Santos	Impacts of hydropower development and climate change on fish ecology in the Mekong River, SE Asia
Schillereff	Generating quantitative palaeoflood data from homogeneous lake sediments: a case-study from Brotherswater, northwest England
Sharpe	A methodological review of the long term storage of pollutants in freshwater sediment biofilms and their response to environmental disturbances.
Shuttleworth	Making Space for Water: Blanket peatland restoration leads to reduced storm runoff from headwater systems
Skinner	Flash flood! - A geomorphology virtual reality spectacular!
Sutherland	Large woody debris transport in headwater streams, insights from physical modelling
Thompson	Current stream power estimates for Scottish rivers and implications of climate-induced hydrological change
Twohig	The role of fine sediment in managing catchment scale flood risk
Valters	Frontiers in Geomorphological Computing
Vincent	Reconstructing the palaeoenvironment of a Plio-Pleistocene Hominin site in southwest Kenya: insights from a multiproxy approach
Wu	Wave-induced ripple development in mixed clay-sand substrates
Ye	Bedform Dynamics in Biophysical Cohesive Substrates