

LEEDS YORK NERC DTP 2018 CONFERENCE PROGRAMME

Thursday 31st May

9am Registration and Coffee

SESSION 1: Global Change

SESSION CHAIR: Stefan Swift

9.30	Peter Joyce	How will northern ecosystems respond to global environmental change?
9.45	Sarah Fell	Declining glacier cover threatens the biodiversity of alpine river diatom assemblages
10.00	Bart Crezee	Searching for peat in the Congo rainforest
10.15	Louise Brown	Investigating marine benthic ecosystem response to global environmental change

SESSION 2: Atmospheric Dynamics

SESSION CHAIR: Zara Mir

10:30	Grace Ronnie	Fluxes of formaldehyde and OH reactivity in the atmosphere
10:45	Will Dixon	Investigation Of Organic Aerosol Composition In A Chinese Mega-City Using A Novel High-Resolution Spectral Database
11:00	Martin Daily	From Clouds to Cells: Fundamental Studies of Ice Nucleation Applied to the Atmospheric Sciences and Cryopreservation
11:15	Luca Cantarello	Developing an observation operator for an idealised model of the atmosphere
11:30	William Torgerson	The impact of diabatic processes on the rapid intensification of tropical cyclones

11:45 Coffee break

SESSION 3: Ancient and modern life

SESSION CHAIR: Sam Greenwood

12:15	Bethany Allen	Characterising spatial biodiversity patterns across the end-Permian mass extinction and recovery interval
12:30	Andrew Mair	Investigating paleoclimate from the Uruguayan margin using foraminifera
12:45	Jed Atkinson	Body Size Changes in Lower Jurassic Bivalve Faunas
13:00	David Orr	Evolutionary genomics of lactation strategies in Pinnipeds

13:15 Lunch

SESSION 4: Oceans & Ice

SESSION CHAIR: Thomas Speak

14:00	Ryan Pound	Dry deposition of ozone to the ocean surface in chemistry transport models
14:15	James Cant	Coral population demographics: the variation between tropical and subtropical communities.
14:30	David Loades	Measuring Ozone Flux to the Sea Surface
14:45	Joshua Chambers	Surface melting of mountain glaciers: the effect of ice surface properties on melt rates

POSTER SESSION 1: Atmosphere

POSTER CHAIR: Niall Gandy

SESSION 5: Seismic, stresses and slips

SESSION CHAIR: Joshua Williams

16:00	Iain Johnston	The role of flooding in the activation of landslides
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16:15	Itahisa Gonzalez Alvarez	Small-scale heterogeneities beneath three Australian seismic arrays
16:30	Joshua Williams	How a drop in stress causes me to increase in stress
16:45	Jamie Ward	Seismically Resolving Sharp Velocity Boundaries in the Earth's Lowermost Mantle

Friday 1st June

9am Registration & coffee

SESSION 6: Geological processes

SESSION CHAIR: Tom Thorp

9:30	James Shaw	Structural controls of orogenic gold in Northern Ireland and implications to orogenic gold genetic models
9:45	Dot Drayton	Impact of faults on fluid flow in microbial and hydrothermal carbonates
10:00	Roxana Stanca	Evolution of a micro-continent during continental break-up: re-evaluating the Falkland Plateau
10:15	Hugh Graham	The evolution of porphyry-epithermal gold systems using trace element mobility and concentration

SESSION 7: Novel modelling approaches

SESSION CHAIR: Michael Charters

10.30	Claire Harnett	Great balls of fire: using a particle method to model volcanic dome collapse
10.45	Rachel Whitty	Measuring volcanic plumes using a drone
11:00	Leonardo Miele	Statistical Physics of Biological Evolution
11:15	Louise Beveridge	Crop modelling for food security in Central America

11:30 Coffee

SESSION 8: Innovative methods

SESSION CHAIR: Kate Smith

12:00	Joshua Hampton	Treasure Hunting with Radar
12:15	Luis Rees-Hughes	Simplifying Interpretation of Geomorphological Ground-Penetrating Radar Data: An Automated Image Segmentation Approach
12:30	Freya Lumb	Where are we? Aircraft and Radar's position for coordinated experiments
12.45	Joana L. B. Melo	The role of Earth Observation products in the development of REDD+ baselines of carbon emissions from deforestation

13:00 Lunch

SESSION 9: Human-nature interactions

SESSION CHAIR: Roxana Stanca

14:00	Becky Robertson	Changing greenspaces in Bradford to improve biodiversity and health in urban populations
14:15	Rachael Osguthorpe	Upland soil functions under organic grazing systems
14:30	Thirze Hermans	Conservation agriculture adoption in Southern Africa; an interdisciplinary approach
14:45	Jamie Carr	Human development and the fate of forests

POSTER SESSION 2: Biosphere & Geosphere

POSTER CHAIR: Solane Guenat

16:30 Closing remarks & awards