

**NERC DTP Conference Schedule**  
**Day 1 – Thursday 25<sup>th</sup> May 2017**

0900 – 0930	Registration and refreshments	School of Earth and Environment foyer
0930 – 0955	Welcome	Martyn Chipperfield
<b>Session 1</b>	<b>Paleo and Oceans</b>	<b>Chair: Jennie Dentith</b>
1000 - 1015	Adam Woodhouse	Death in the oceans: extinction risk in the marine realm.
1015 - 1030	Alexander Krause	New Insights into Phanerozoic Atmospheric Oxygen Levels from Biogeochemical Modelling: Returning to Geocarbsulf.
1030 - 1045	Charlotte Allen	Evolution, processes and deposits of high latitude submarine fans.
1045 – 1100	Katherine Doyle	Every ocean has an oxic lining: A geochemical study of a Mesoproterozoic ocean.
1100 – 1130	Coffee break	
<b>Session 2</b>	<b>Atmospheric Dynamics</b>	<b>Chair: Oliver Halliday</b>
1130 – 1145	Lucy Recchia	Simple models of the Indian monsoon.
1145 – 1200	Thomas Wood	The widening of the tropical belt: quantifying drivers of changes in the position of the Hadley cell edge in idealised climate perturbation experiments.
1200 – 1215	Amy Bennett	Impact of the 2015/16 El Nino event on tropical forest.
1215 – 1230	Oliver Halliday	Forced Gravity Waves and the Tropospheric Response to Convection.
1230 – 1330	Lunch	
<b>Session 3</b>	<b>Functional Ecology</b>	<b>Chair: Robert Williams</b>
1330 – 1345	Alexander Chambers-Ostler	The hydraulic limitation of tree height attainment.

1345 – 1400	Jordan Chetcuti	Multi species ground beetle individual based modelling investigating effects of connectivity on biodiversity.
1400 – 1415	Ruth Jeavons	Foraging Effort and Success of a Far-Ranging Marine Predator.
1415 – 1430	Zak Mitchell	Dragonfly Flight: Linking biomechanics and macroecology.

**1430 – 1530 Geosphere poster session and refreshments SEE Foyer**

Ben Todd	Using molecular dynamics to calculate the lattice thermal conductivity of lower mantle minerals.
Claire Harnett	Evolution of mechanical properties of dome rock across eruptive periods.
George Taylor	Multi-scale imaging of the North Anatolian Fault Zone (Turkey) across crust and mantle.
Erietta Mouloupoulou	Hydrodynamic investigations in a “slice” of beach.
Jennifer Dentith	Simulating radiocarbon in the ocean model of the FAMOUS GCM.
Maurits Metman	The reversed- and normal-flux contributions to axial dipole decay for 1880-2015.
Patrick Sugden	The mantle source of collision related volcanism in the Arabia-Eurasia collision zone.
Sarah Fell	Alpine river benthic diatom responses to deglaciation.
Tim Dixon	Nitrogen Speciation During Weathering in Simulated Subglacial Environments.
Jed Atkinson	Lilliputians and Brobdingnagians: Body size changes in Lower Jurassic bivalve molluscs.
Ruth Amey	Going To Any Lengths: Solving for Slip and Fault Size in Mw 6.2 Kurayoshi, Japan, 2016 Earthquake.
Owen King	Assessing the impact of glacial lake development on glacier mass loss, glacier geometry and glacier dynamics in the Everest region, central Himalaya.

<b>Session 4</b>		
<b>Ice Sheets and Glaciers</b>	<b>Chair: Tim Dixon</b>	
1530 – 1545	Paul Smith	Dimensional Reduction, Reconstructing and Prediction of Climate Simulators.
1545 – 1600	Jenna Sutherland	Control of large proglacial lakes on past outlet glacier dynamics in New Zealand.
1600 – 1615	Siobhan Prise	Subglacial Aquifers: Characterisation with Geophysical Techniques.
1615 – 1630	Niall Gandy	Modelling the Collapse of the Minch Paleo Ice Stream, Scotland.
<b>1630-1730 Biosphere poster session</b>		<b>SEE Foyer</b>
Caitriona Shannon	Slowing the spread of Invasive Non-Native Species: Best practice and stakeholder engagement.	
Caroline Ward	Why do people choose to participate in protected area governance? A Theory of Planned Behaviour approach in Madagascar.	
Fabio Peruzzo	A phenomenological spatial model for macro-ecological patterns in species-rich ecosystems.	
Jude Lane	Sex-specific three-dimensional foraging behaviour of northern gannets.	
Solene Guenat	Bee conservation depends on how land is managed in fast-growing African cities.	
Jamie Wilson	The impacts of Amazonian forest cover change on surface albedo.	
Lousie Beveridge	Maize, beans, and drought in Central America: an interdisciplinary PhD.	
Shani Garraway	Isoprene in Borneo: Observations and modelling at the Bukit Atur Observatory.	
Robert Williams	Non-native wall lizards in the UK: an invasive threat?	
<b>1700 -</b>	<b>Drinks reception and buffet</b>	<b>SEE Foyer</b>

**NERC DTP Conference Schedule**  
**Day 2 – Friday 26<sup>th</sup> May 2017**

0900 – 0930	Registration and refreshments	School of Earth and Environment foyer
<b>Session 1</b>	<b>Environmental Chemistry</b>	<b>Chair: Tasha Aylett</b>
0930 - 0945	Shane Dally	Study of the global nickel and aluminium layers in the upper atmosphere.
0945 - 1000	Josephine McSherry	Origin and fate of nitrate contamination in chalk groundwater.
1000 - 1015	Zara Mir	Direct Observations of Criegee Intermediates and Reaction Products- UV Absorption Spectra and Kinetic Analysis of the Self-Reaction of CH <sub>2</sub> OO.
1015 - 1030	Michael Cook	Contaminant resurgence after the cessation of groundwater remediation.
1030 - 1100	Coffee break	
<b>Session 2</b>	<b>Human-biosphere interactions</b>	<b>Chair: Louise Beveridge</b>
1100 – 1115	Johan Fruh	Niche, Neutrality and species richness: exploring the links between community structure and diversity patterns.
1115 – 1130	Michael Charters	Climate change impacts on interactions between crops, insect herbivores, and arbuscular mycorrhizal fungi.
1130 – 1145	Linus Svolkinas	Biological and Socio Political factors affecting the conservation of the Caspian Seals: Planning for the comprehensive cumulative impact assessment of human impacts on Caspian seals.
1145 – 1200	Will Fincham	Alien encounters: Detrital processing, climate change and community impacts of invasive non-native species.
1200 – 1300	Lunch	

<b>Session 3</b>	<b>Aerosols and air pollution</b>	<b>Chair: Matthew Rowlinson</b>
1300 – 1315	Laura Kiely	Evaluating aerosol emissions from vegetation and peat fires in Equatorial Asia.
1315 – 1330	Stefan Swift	Time-Resolved Characterization of Organic Nitrogen in Particulate Matter: An Investigation into Beijing's Air Quality.
1330 – 1345	Thomas Thorp	Investigating sources and impacts of short-lived air pollutants in the Arctic.
1345 – 1400	Lauren Marshall	Investigating the climatic forcing from volcanic eruptions using statistical emulation.
<b>1400 – 1515 Atmosphere poster session and refreshments</b>		<b>Foyer</b>
Adam Saint	Ozone reactivity at the ocean surface: a day/night comparison	
Alessandro Balata	Optimal Control of a MicroGrid in a Stochastic Framework	
Dan Ellis	From Social Networks to the Atmosphere	
Alexander Brennan	A new method for the speciated detection of radical species in the atmosphere, and an inter-comparison of methods radical detection.	
Eleanor Morris	Simulations of air pollution in West Africa during the DACCIIWA field campaign using the GEOS-Chem West African regional model.	
Hana Pearce	Diurnal variability in semi-volatile inorganic aerosol concentration and implications for regional radiative effects.	
Ilkka Matero	The 8.2 ka cooling event caused by Laurentide ice saddle collapse.	
Jacob Shaw	A self-consistent method for the rapid determination of gas phase rate coefficients, applied to reactions of atmospheric VOC with multiple radical oxidants.	
Matthew Rowlinson	Indirect effect of changing aerosol concentrations on greenhouse gas radiative forcing.	
Tasha Aylett	Atmospheric Impacts of a Close Cometary Encounter.	
Will Dixon	Investigation of organic aerosol composition in a Chinese mega-city using a novel high resolution spectral database.	

Yvonne Smith      Icebergs in the Nordic Seas during the Pliocene.

<b>Session 4</b>	<b>Tectonics and Earth Structure</b>	<b>Chair: Claire Harnett</b>
1515 – 1530	Huw Goodall	Space rays and earthquakes
1530 – 1545	Luke Marsden	The relationship between low-frequency seismicity and tilt at silicic volcanoes.
1545 – 1600	Sam Greenwood	Stable Stratification in the Earth’s Outer Core.
1600 – 1615	Thomas Ingleby	Measuring and modelling the earthquake deformation cycle at continental dip-slip faults.
<b>1615 – 1645</b>	<b>Closing remarks and prize winners</b>	Sebastian Rost