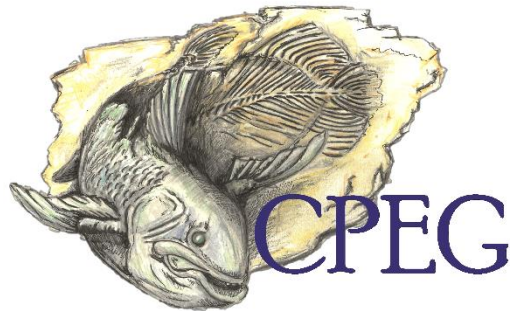


Crossing the Palaeontological – Ecological Gap
30-31 August 2018
School of Earth and Environment, University of Leeds



Schedule

Thursday 30 August 2018

0800 **Registration opens and welcome tea and coffee**
Foyer, School of Earth and Environment

0855 **Opening remarks and housekeeping**
School of Earth and Environment Seminar rooms

Session 1: Biogeography

0900 **Rapoport effect and the climatic variability hypothesis in Early Jurassic ammonites**
Axelle Zacaï, Arnaud Brayard, Rémi Laffont, Jean-Louis Dommergues, Christian Meister & Emmanuel Fara

0915 **Absence of evidence is not evidence of absence: Quantifying reef coral range shifts under global climatic change**
Lewis Jones*

0930 **Geographic distributions of benthic invertebrate species are diversity-dependent across the Phanerozoic**
Gwen Antell*, Wolfgang Kiessling, Martin Aberhan & Erin Saupe

0945 **A tragedy in three acts: integrating ecological and palaeoecological techniques to understand the past and future of Brazil's iconic Araucaria forests**
Oliver Wilson*

1000 **Globally discordant Isocrinida (Crinoidea) migration confirms asynchronous Marine Mesozoic Revolution**
Rowan Whittle, Aaron W. Hunter, David J. Cantrill & Kenneth J. McNamara

1015 **Spatiotemporal niche dynamics of marine organisms through deep-time**
Nussaibah B. Raja*, Manuel Jonas Steinbauer & Wolfgang Kiessling

1030 **Tea and coffee break and posters**
Foyer, School of Earth and Environment

1100 **Plenary 1: What do ecological networks and covariance matrices mean for paleo- and macroecology?**
Andrew Beckerman

Session 2: Extinction 1

1145 **Ocean deoxygenation: palaeoecological and ecological change**
Bryony Caswell & Christopher L.J. Frid

1200 **Global warming can lead to depletion of oxygen by disrupting phytoplankton photosynthesis: a mathematical modelling approach**
Sergei Petrovskii

Lightning session 1: Community Ecology

1215 **The Rise of Dinosaurs: Tetrapod diversity and climate during the Late Triassic**
Emma Dunne*, Alex Farnsworth, Sarah Greene, Dan Lunt & Richard Butler

1220 **High beta diversity in a Triassic reef basin assemblage**
Vanessa Julie Roden* & Wolfgang Kiessling

1225 **Faunal associations within the Late Jurassic Morrison Formation, Western Interior, USA**
Elsbeth Wallace*, William Sellers & Robert Sansom

1230 **Lunch** (not provided)

1330 **Plenary 2: What makes this time different? Comparing modern plant extinction risk with plant responses to mass extinctions in the fossil record**
Karen Bacon

Session 3: Biotic interactions

1415 **The demographic history of invasive fire ants**
Pnina Cohen*, DeWayne Schomaker, Beth Wade, Eyal Privman

1430 **Timespines: does predator-prey arms race interaction drives morphological adaptation through time?**
Thomas Guillerme, Kevin Healy, Adam Kane, Marco Castiello, Richard Dearden, Rafael Delcourt, Anna Jerve, Martin Brazeau, Vera Weisbecker & Lauren Sallan

Lightning session 2: Biotic interactions

1445 **Gastropod Gastronomy: Do predatory drilling snails prefer native or non-native bivalve prey?**
Fiona Pye*, Paolo Albano, Nussaibah B. Raja & Manuel Steinbauer

1450 **Understanding the role of competition and biotic interaction on the evolution of cranial morphology in African bovids**
Joshua Tyler* & Faysal Bibi

1455 **Evaluating bite marks and predation of fossil jawless fish during the rise of jawed vertebrates**
Emma Randle* & Robert S. Sansom

1500 **Tea and coffee break and posters**
Foyer, School of Earth and Environment

1530 **Plenary 3: Temperature, extinction and diversification: can we explain the patterns in the rocks through the physiology and ecology of living organisms?**
Andrew Clarke

Session 4: Extinction 2

1615 **Worms on Acid on Film**
Catherine Mascord*, Jennifer James*, Liam Herringshaw, Dave Bond, Joerg Hardege, Krysia Mazik, Dan Parsons, Bryony Caswell & Duncan McIlroy

1630 **Identifying patterns and drivers of extinction selectivity: Recent and deep-time approaches**
Amy Tims*, John Alroy & Matt Friedman

1645 **Trends in body size of brachiopods and bivalves across the Early Toarcian (Early Jurassic) extinction event in the NW-Tethys**
Veronica Piazza* & Martin Aberhan

1700 **Poster session and wine reception**
Foyer, School of Earth and Environment

1830 **End**

Friday 31 August 2018

- 0830 **Tea and coffee**
Foyer, School of Earth and Environment
- 0855 **Opening remarks and housekeeping**
School of Earth and Environment Seminar rooms

Session 5: Conservation ecology

- 0900 **Conserving evolutionary history does not result in greater diversity over geological timescales**
Juan López Cantalpiedra, Tracy Aze, Marc W. Cadotte, Guilio V. Dalla Riva, Danwei Huang, Florent Mazel, Matthew W. Pennell, María Ríos Ibáñez & Arne Mooers
- 0915 **MEGACENE: The fate and function of marine megafauna from the Pliocene to the Anthropocene**
Catalina Pimiento & John Griffin
- 0930 **What defines a native species? Using the Quaternary record to inform environmental and conservation management**
Jennifer Crees
- 0945 **Using long-term archives to understand shifting extinction selectivity across the Holocene in an Asian biodiversity hotspot**
Samuel Turvey
- 1000 **Overfishing through time: Unlocking past fisheries data using molecular methods of species identification on ancient fish bones**
Virginia Harvey*, Linas Daugnora, & Michael Buckley
- 1015 **Fossils for conservation**
Melanie Tietje*, Martin Schobben, & Mark-Oliver Rodel
- 1030 **Tea and coffee break and posters**
Foyer, School of Earth and Environment
- 1100 **Plenary 4: A Half-Billion Years of Food Webs: From the Cambrian to the Anthropocene**
Jennifer Dunne

Session 6: Behavioural ecology

- 1145 **Facultative monogamy in a brooding oyster from lower Eocene of western India and its possible relation to global warming**
Kalyan Halder
- 1200 **Reconstructing the ecology of a Jurassic psedoplanktonic megaraft colony**
Aaron Hunter, David Casenove, Emily Mitchell & Celia Myers

Lightning session 3: Functional ecology

- 1215 **Grizzly or Panda: Dietary Flexibility in cave bears *Ursus spaeleus* investigated with Dental Microwear**
George W. Harrison*
- 1220 **Testing the sensitivity of dental microwear texture analysis as a dietary proxy: can it detect niche partitioning in sympatric species?**
Mark A. Purnell, Neil Adams*, Christopher A. Nedza & Leszek Rychlik
- 1225 **Investigating the evolution of echolocation in odontocetes (Mammalia: Cetacea) via analysis of the inner ear**
Travis Park & Natalie Cooper

1230 **Lunch** (not provided)

Session 7: Community ecology

1330 **Community dynamics through the Neogene in planktonic foraminifera**

Isabel Fenton, Paul N. Pearson & Andy Purvis

1345 **Reconstructing the Christian Malford ecosystem in the Oxford Clay Formation (Callovian, Jurassic) of Wiltshire: exceptional preservation, taphonomy, burial and compaction**

Malcolm Hart, Zoe Hughes, Kevin N. Page, Gregory D. Price & Christopher W. Smart

1400 **Vegetation ecology using ancient lake sedimentary DNA**

Kelsey Lorberau*

1415 **Modelling community dynamics from long-term relative abundance data**

Gregg Milligan, Richard Bradshaw, Damian Clancy, Matt Spencer, & Kamila Zychaluk

1430 **Tea and coffee break and posters**

Foyer, School of Earth and Environment

1500 **Plenary 5: Ecology and the Paleocene mammal radiation**

Thomas Halliday

Session 8: Extinction 3

1545 **Marine invertebrate responses to temperature-related stressors and their interactions**

Carl J. Reddin, Paulina S. Nätscher, Ádám T. Kocsis, Hans-Otto Pörtner & Wolfgang Kiessling

1600 **Macroevolution through mass extinctions**

Mark Puttick, T Guillaume & Matthew Wills

1615 **Regional determinants of megafauna extirpation during the Late Pleistocene in southeastern Australia**

Frederik Saltre, Joel Chadoeuf & Corey J.A. Bradshaw

1630 **Closing remarks and presentation of awards**

1700 **End**

*eligible for a student prize