



## Past Carbon Isotopic Events & Future Ecologies: Palaeoanalogue CIEs and current biosphere & ecological change as a guide to the 22<sup>nd</sup> century & beyond

Tuesday 02 – Wednesday 03 November 2010

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09.15	<b>Registration &amp; coffee</b>
09.45	<b>Welcome</b> Sir Crispin Tickell
10.05	<b>Introduction – Why consider Carbon Isotope Excursion (CIE) palaeoanalogue for current warming</b>
10.20	Jonathan Cowie, Concatenation Science Communication
<b>SESSION THEME: Past and current CIEs (Session Chair: Tim Sparks)</b>	
10.25	<b>The tempo of climate and carbon cycle variability across the Paleocene-Eocene boundary: Implications for the origin of hyperthermals</b>
10.50	Jim Zachos, University of California
11.00	Questions
11.05	<b>Theories of the cause and nature of the Toarcian and other CIEs</b>
11.30	Anthony Cohen, Open University Questions
11.40	<b>Tea &amp; coffee</b>
12.10	<b>The Cause and Nature of the Current and Possible Future Carbon Isotope Excursions</b>
12.35	Peter Cox, Exeter University Questions
12.50	<b>Comparison of early Eocene and end-21<sup>st</sup> century climate model forecasts</b>
13.15	Paul Valdes, University of Bristol Questions
13.25	<b>Lunch (not provided)</b>
<b>SESSION THEME: CIEs and the terrestrial environment (Session Chair: Peter Cox)</b>	
14.10	<b>Cretaceous carbon-isotope excursions and their significance for global change</b>
14.35	Hugh Jenkyns, University of Oxford Questions
14.50	<b>Climate change and mammalian evolution across the PETM/IETM in the continental record of North America (mid-latitude)</b>
15.15	Ross Secord, University of Nebraska Questions
15.30	<b>Tea &amp; coffee</b>
16.00	<b>Mid to high latitude land ecosystem changes across the Palaeocene-Eocene Thermal Maximum in northwest Europe</b>
16.25	Margaret Collinson, Royal Holloway, University of London Questions
16.40	<b>Current signs of terrestrial ecosystem change</b>
17.05	Tim Sparks, formerly Centre for Ecology & Hydrology Questions
17.20	<b>Wine reception (&amp; followed by conference dinner for speakers and those who booked)</b>

Wednesday 03 November 2010	
08.30	<b>Registration &amp; coffee</b>
<b>SESSION THEME: CIEs the marine environment and global biodiversity</b> (Session: Chair Margaret Collinson)	
09.00	<b>Evolution and extinction in marine environments during the Paleocene-Eocene thermal maximum (PETM)</b> Ellen Thomas, Yale University
09.25	Questions
09.40	<b>Biological consequences of present and future acidification of the ocean</b> John Raven, University of Dundee
10.05	Questions
10.20	<b>Global biodiversity and global climate the deep time perspective</b> Peter Mayhew, University of York
10.45	Questions
10.55	<b>Tea &amp; coffee</b>
<b>SESSION THEME: Consequences for the 22<sup>nd</sup> century</b> (Session Chair Anthony Cohen)	
11.25	<b>Terrestrial environmental and ecological (IPCC) B-a-U consequences</b> Pam Berry, Environmental Change Institute Oxford
11.50	Questions
12.05	<b>The marine environment and the ecological consequences of a business-as-usual scenario</b> Manuel Barange,
12.30	Questions
12.45	<b>Probabilities, possibilities and uncertainties: Early warning of future tipping points</b> Tim Lenton, University of East Anglia
13.10	Questions
13.20	<b>Lunch (not provided)</b>
14.05	<b>Ecosystem (service) vulnerability in the event of an PETM / IETM analogue</b> Jonathan Cowie, Concatenation Science Communication
14.30	Questions
14.45	<b>Avoiding catastrophic climate change: Towards a sustainable future?</b> Lord Robert May, Oxford University
15.10	Questions
15.35	<b>General conference discussion</b>
16.00	<b>Summation</b>
16.15	<b>Break</b>
16.30	<b>Outreach event: <i>Past rapid changes in CO<sub>2</sub> levels and the climate system: lessons for the future</i></b> Welcome and Introduction followed by Panel Debate with contributions from the floor John Raven (Chair), David MacKay (Chief Scientific Advisor Department Energy & Climate Change), Brian Lovell (President, Geological Society).
	<b>Thanks:</b> Hazel Norman (General Secretary, British Ecological Society)
17.45	<b>Reception</b> Networking session