

Conference Programme: “Life in a High Carbon World”, 15 September 2015

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| 9.00 – 9.30 | Coffee and registration |
| 9.30 - 9.45 | Welcome and introduction: Professor Rachel Mills, Head of Ocean & Earth Science |
| 9.45- 10:30 | Keynote: Professor Hans-Otto Pörtner, Alfred-Wegener-Institute, Bremerhaven <i>“Climate change impacts on ocean biology: physiological underpinnings, projections and uncertainties”</i> |
| 10.30- 11.00 | Break |
| Theme 1: Carbon, climate change and cycles | |
| Chair: Dr Jessica Whiteside | |
| 11.00 – 12.10 | (11.00 – 11.20) Keynote: Professor Andrew Watson, University of Exeter <i>‘The ocean in the global carbon cycle’</i> (11.20 – 11.30) Professor Gavin Foster, Ocean and Earth Science <i>‘Climate sensitivity in warm worlds of the past’</i> (11.30 – 11.40) Professor Richard Sanders, National Oceanography Centre <i>‘Controls over mesopelagic mineralisation’</i> (11.40 – 11.50) Dr Stephanie Henson, National Oceanography Centre <i>‘How big is the ocean's biological carbon pump?’</i> (11.50 – 12.00) Professor Rachael James, Ocean and Earth Science <i>‘Causes and consequences of methane release from seafloor sediments in the Arctic’</i> (12.00 – 12.10) Professor Mary Edwards, Geography and Environment <i>‘The role of lakes in greenhouse gas emissions from the northern high latitudes’</i> |
| 12.10 – 1.30 | Buffet lunch with posters viewing and judging Conference delegates to vote for posters, final decision to be made by the Judging Panel |
| Theme 2: Carbon effects on organisms and ecosystems | |
| Chair: Professor Jörg Wiedenmann | |
| 1.30 – 3.00 | (1.30 -1.50) Keynote: Professor Chris Perry, University of Exeter <i>‘Trajectories of coral reef carbonate production and accretion in a high CO2 world’</i> (1.50 – 2.00) Dr Phyllis Lam, Ocean and Earth Science <i>‘Nitrifiers in a high CO2 setting’</i> (2.00 – 2.10) Dr Jessica Whiteside, Ocean and Earth Science <i>‘Ecosystem reliance to ocean deoxygenation and acidification: Ancient molecular clues from mass extinction events’</i> (2.10 – 2.20) Dr Chris Hauton Ocean and Earth Science <i>‘The physiological performance of two contrasting decapod crustaceans in response to increased pCO₂ and changes in salinity’</i> |

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| (Cont'd) Theme 2: Carbon effects on organisms and ecosystems | |
| Chair: Professor Jörg Wiedenmann | |
| 1.30 – 3.00 | <p>(2.20 – 2.30) Dr Felix Eigenbrod, Biological Sciences <i>'Vulnerability of ecosystems to climate change moderated by habitat intactness'</i></p> <p>(2.30 – 2.40) Professor Patrick Doncaster, Biological Sciences <i>'Early warnings of a critical transition in biodiversity from compositional disorder'</i></p> <p>(2.40 – 2.50) Dr Tom Roland, University of Exeter <i>'Peatlands and the carbon cycle: past, present and future'</i></p> <p>(2.50 – 3.00) Professor Toby Tyrrell, Ocean and Earth Science <i>'Did ocean acidification kill off the ammonites?'</i></p> |
| 3.00 – 3.30 | Break |
| Theme 3: Human societies and mitigation of high carbon effects | |
| Chair: Dr Chris Hauton | |
| 3.30 – 5.00 | <p>(3.30 -3.50) Keynote: Professor Mark Maslin, UCL <i>"The perfect storm: Population, development and climate change"</i></p> <p>(3.50 – 4.00) Dr Thomas Bibby, Ocean and Earth Science <i>'Marine algal biotechnology'</i></p> <p>(4.00 – 4.10) Professor Gail Taylor, Biological Sciences <i>'Going carbon negative: Can bioenergy be part of the solution?'</i></p> <p>(4.10 – 4.20) Dr Denis Pasero, Ilika Technologies Ltd. <i>'Carbon emission remediation through wireless sensor networks: From transport to homes'</i></p> <p>(4.20 – 4.30) Professor Ian Williams, Engineering and Environment <i>'Overcoming barriers to the development of standardised and transparent methods for practically realisable carbon management at different scales'</i></p> <p>(4.30 – 4.40) Dr Marije Schaafsma, Geography and Environment <i>'Energy, carbon and conservation in Sub-Saharan Africa'</i></p> <p>(4.40 – 4.50) Dr James Dyke, Geography and Environment <i>'Is it rational to develop new fossil fuel reserves?'</i></p> |
| 4.50 – 5.00 | Plenary discussion and conference close Chaired by: Professor Jörg Wiedenmann |
| 5.00 – 6.00 | Poster session, wine & canapés Poster prize award sponsored by Southampton Marine & Maritime Institute |