

Deep-Ocean Science, Technology and Conservation 21st Century Opportunities and Imperatives

17:30 for 18:45, 13th November 2013

Weston Auditorium, de Havilland Campus,
University of Hertfordshire
Hatfield AL10 9EU

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Deep-Ocean Science, Technology and Conservation 21st Century Opportunities and Imperatives

Engineering Science and Technology Prestige Seminar

Wednesday 13 November 2013
6:45 pm (buffet from 5:30 pm)

Admission Free

The Weston Auditorium
de Havilland Campus
University of Hertfordshire
Hatfield, Herts, AL10 9EU



EEESTA Prestige Seminar 2013

SPEAKERS

Professor Quintin McKellar CBE, Vice Chancellor, University of Hertfordshire, was Scientific Director and Chief Executive of the Moredun Research Institute between 1997 and 2004. He was Principal of the Royal Veterinary College of the University of London for six years before being appointed Vice-Chancellor of the University in 2011. He was recently awarded a CBE.

Professor David S. Cronan, Professor Emeritus, Marine Geochemistry, Department of Earth Sciences and Engineering, Imperial College London; has published over 150 papers on marine geochemistry, seafloor mineral deposits, hydrothermal sediments and submarine volcanic activity. He was awarded Pettersson Medal by the Royal Swedish Academy of Sciences in recognition of his contributions in deep sea sedimentation.

Dr. Paul Tyler: Professorial Research Fellow Ocean and Earth Science/Personal Chair, University of Southampton. Specialist in deep-sea biology; Co-PI 'Census of Marine Life' Chemosynthetic Ecosystems Research; Biogeography of deepwater chemosynthetic ecosystems; International Network for Scientific Investigation of Deep-sea Ecosystems. Over 60 research cruises, ~80 submersible dives, >200 publications.

Dr. Cindy Lee Van Dover: Harvey W. Smith Professor of Biological Oceanography and Chair, Division of Marine Science and Conservation, Nicholas School of the Environment, Duke University and Director of the Marine Laboratory; Pilot-in-command of 48 dives in deep-diving submersible ALVIN. Specialist in the ecology of chemosynthetic ecosystems, including community structure, biogeographic patterns, and vent food webs.

Dr. Samantha Smith: Vice-President Corporate Social Responsibility, Nautilus Minerals; President-Elect International Marine Minerals Society. Led inter-disciplinary team to design and complete the Solwara 1 Environmental and Social Impact Assessment for seafloor massive sulphide extraction off Papua New Guinea. Manages impact assessments of Nautilus's operations and associated studies for seafloor mineral extraction.

Mr. Andreas I. Chrysostomou, President of the IMarEST. Head, Division for Maritime Policy, Multilateral Affairs and Standards, Department of Merchant Shipping, Government of Cyprus; Chairman, Marine Environment Protection Committee of the IMO; Outstanding Public Service Award by the United States Coast Guard for Contributions to International Shipping.

Deep-Ocean Science, Technology and Conservation

PROGRAMME

5:30 pm Registration, refreshments and networking

6:45 pm Seminar

Welcome: Professor Quintin McKellar

Opening Remarks: Professor David S. Cronan

Our chairman for the evening will present the 2013 EEESTA Award to an outstanding young Arkwright Scholar, and present certificates to Friends of EEESTA. He will then set the scene for the Seminar.

1st Speaker: Dr. Paul Tyler

Hand in Hand: Technological Development and Exploration of the Deep Sea

The remoteness of the deep ocean has challenged researchers since the mid-19th century. Sampling the deep seabed requires innovative engineering over the last 30 years. The development of sampling techniques is discussed, and how technology drives sampling programmes in abyssal plains, submarine canyons and chemosynthetic environments.

2nd Speaker: Dr. Cindy Lee Van Dover

Deep-Ocean Exploration, Industrialization, and Conservation

The speaker will describe exploration on the US continental margin with US deep submergence vessels, Alvin, Jason, Sentry and Nereus, and discuss the use of remote controlled submersibles. The need to develop effective environmental management and conservation of the deep seabed is considered.

3rd Speaker: Dr. Samantha Smith

Deep-Sea Mineral Production: Environmental Responsibility

The world's demand for minerals continues to rise. Minerals from the deep sea can offer many environmental and social advantages. A world-leading approach to environmental management and conservation strategies for the deep sea minerals industry are discussed, citing case studies.

Open Forum: questions and answers

Vote of Thanks: Andreas I. Chrysostomou

9:30 pm Close