

Oceans 2025 Programmed Advisory Board - October 2008

BIOGRAPHIES

Chair

Professor Peter Liss CBE FRS

Professor Liss is in the School of Environmental Sciences at the University of East Anglia researching and teaching many aspects of environmental chemistry. In particular his research is focused on the biogeochemical interactions between the ocean and the atmosphere, specialising in the processes of air-sea gas exchange, the mechanisms of trace gas formation in the oceans, and their reactivity and role in the atmosphere. His research group is an integral part of the School's Laboratory for Global Marine and Atmospheric Chemistry.

He has received the Challenger Society Medal, the Plymouth Marine Sciences Medal, and the John Jeyes Medal of the Royal Society of Chemistry. Prof. Liss served for 5 years on the Natural Environment Research Council, was Chair of the Scientific Committee of the International Geosphere-Biosphere Programme, and is currently Chair of the Scientific Steering Committee for the international SOLAS Project and the Royal Society's Global Environment Research Committee.

Membership

Richard Burt, Chelsea Technologies Group Limited

Richard Burt joined Chelsea Instruments in 1989 with responsibility for business development and was appointed to the Board in 1992 as sales and marketing director. He has international experience in North America, Asia, China and the Former Soviet Union and expertise in establishing business relationships between research organisations and industry, technology transfer and development of oceanographic sensors and systems for operational oceanography. Recent activities include the application of oceanographic sensor technologies to monitor and protect drinking water supplies. Formerly employed by the scientific civil service/MoD, Richard specialised in non acoustic detection in anti submarine warfare and under ice oceanography and conducted and participated in international military oceanographic programmes. He is a Fellow of the Institute of Marine Engineering, Science and Technology, Chairman of the Association of Marine Scientific Industries, Board Member and Co-chair Stakeholder Council for NOAA Alliance for Coastal Technologies (USA) and member of the UK Marine Monitoring Assessment Strategy Working Group.

Professor Mike Cowling, Crown Estate

Information to follow

Professor Jan de Leeuw - Royal Netherlands Institute for Sea Research

Professor de Leeuw is Senior Scientist at the Royal Netherlands Institute for Sea Research (NIOZ) where he was Director from 1995 - 2004. A professor in organic geochemistry and molecular biogeology at Utrecht University, he has been a member of 60 PhD committees in The Netherlands and is an external examiner for PhD oral examinations. A member of the Board of the European Association of Organic Geochemistry, he holds a professorship in geochemistry at the University of Cataluña. He is a member of the Editorial Advisory Board Organic Geochemistry, the Royal Dutch Academy of Sciences, and an Executive Board member of the Marine Board European Science Foundation. Professor de Leeuw is a member of the CLIVARNET/Klimaatvariabiliteit committee NWO, the Executive Committee of POGO, the Scientific Committee Alfred Wegener Institut für Polar- und Meeresforschung, the CoPI of Census of marine Life programme ICoMM (International Census of Marine Microbes), the Scientific Committee Plymouth Marine Lab and is Chair of the Club du Soleil (RAK/KNAW).

Professor Stephen Hawkins, University of Bangor

Information to follow

Dr Serge Heussner, Centre de Formation et de Recherche sur l'Environnement Marin (CEFREM)

Information to follow

Professor Dan Laffoley, Natural England

Dan divides his time between two roles: Vice Chair - Marine for the International Union for Conservation of Nature's (IUCN) World Commission on Protected Areas (WCPA) and Marine Principal Specialist for the Chief Scientist's Team at Natural England. In 2006, Dan was elected as a Vice Chair of the WCPA which he is now taking through a major strategic review to develop the role and focus of the marine work through the development and implementation of the WCPA - Marine global Plan of Action. As Marine Principal Specialist, Natural England, he is a 'champion' for marine conservation issues and marine science, evidence and research in particular, and provides thought leadership across Natural England. This involves maintaining an overview of the subject area, building Natural England's specialist, scientific and evidential reputation, building and maintaining working relationships with expert and research networks, and ensuring that Natural England marine conservation work is sound, up to standard, and based on good evidence.

Dr John Lock, Defra

John Lock is the Head of the Marine and Fisheries Science Unit, Defra. The Unit manages the Marine Directorate's £10m R&D budget for fisheries, marine biodiversity and marine environment, on behalf of policy. John is also the Coordinator for the Commission funded ERA-NET project "MariFish, Coordination of European Marine Fisheries Research Programmes" which brings together 18 European ministries and research councils, from Iceland to Cyprus, into a working partnership. Before joining Defra, John worked on fisheries research projects on Kenya's Lake Turkana, the inshore fisheries resources of the Dominican Republic and headed the Papua New Guinea Government's fisheries science team. John's current interests include providing robust science to policy makers, the 2-way communication between scientists and policy, and strengthening European collaboration.

Dr Stephen Malcolm, Cefas

Stephen is a geochemist and a graduate of University College London (BSc Geology, 1975) and University of Edinburgh (PhD, 1981). He held research positions at the Scottish Marine Biological Association (now SAMS) and in the Ministry of Agriculture, Fisheries and Food (now Defra). He has been a Science Director at Cefas and senior adviser to Defra since 2000.

Stephen's interests are the application of science in government policy and in the provision of evidence for managing human impacts and the use of the seas. He has specialised in marine eutrophication and is currently leading on delivery of the national assessment of the overall status of the seas around the UK, Charting Progress 2. Stephen has served on numerous committees including the Inter-Agency Committee on Marine Science and Technology and the Marine Assessment Policy Committee and represents the UK on Monitoring and Assessment at European and Regional (OSPAR) level.

Dr Mike Neilson, Scottish Government, Marine Directorate

Mike Neilson is a Director at the Scottish Government. Currently holding the position of Marine Director, until recently he was Director, Public Service Landscape Project and previously acting Head of the Development Department, Director for Housing and Regeneration Group. He was formerly responsible for sponsorship of the Water Industry in Scotland. He has worked previously at the UK Treasury and the European Commission on a wide range of issues including financial markets, the EU budget and European Transport policy.

Ian Townend - Research Director at HR Wallingford.

As an Independent Research Organisation, HR Wallingford completes research for government and the private sector, related to the water environment, from catchment to coast. Ian led one of the first regional scale UK coastal studies that helped frame development of Shoreline

Management Plans; piloted the application of risk methods to examine coastal flooding at a national scale for the insurance industry and led the UK estuary research programme. His own research concerns estuary and coastal systems and involves hydraulics, sediment transport, and geomorphology, the associated habitats and ecosystems. His main interest is in the dynamic response of these systems to change. Ian is currently a Visiting Professor of the School of Engineering and the School of Ocean and Earth Sciences, was an independent member of the Inter-Agency Committee on Marine Science and Technology (IACMST), sits on the Council of the Scottish Association of Marine Science (SAMS) and is a member of Defra/EA Flood and Coastal Erosion Risk Management Theme Advisory Group for Strategy and Policy Development.

Dr Bill Turrell, Fisheries Research Services, Scotland

Bill joined the Fisheries Research Services (FRS) in 1986 after completing a degree in Physics, a Masters in Atmospheric Physics at Imperial College and PhD in Physical Oceanography. He has studied many aspects of the oceanography of Scottish waters and his research provides advice to the Scottish Government on the environmental impacts of fish farming and of the offshore oil and gas industry, the fate of discharges and oil spills, and processes in the ocean which help modify the climate of northern Europe. Bill has worked on fish migration, dispersion of fish eggs and larvae and the relationship between deepwater species and ocean properties. His current research interests focus on climate change, its cause and impact. As Science Director of the Fisheries Management Programme, Bill leads the team responsible for research, monitoring, and assessment supporting advice on the health and status of Scottish marine fish stocks for the Scottish Government and European Union.

Dr Steven Wilson, NERC

Information to follow

Dr Richard Wood, Meteorological Office

Richard Wood is Head of Climate, Cryosphere and Oceans at the Met Office Hadley Centre, and is a Met Office Research Fellow. He has over 20 years research experience and has published widely in ocean and climate modelling, focusing on the role of oceans in climate change. Particular areas of interest include stability of the thermohaline circulation, use of observed water mass changes as detectors of change in the hydrological cycle, and ocean observing system design. He has contributed to wider climate modelling issues, particularly through contributions to reports of the Intergovernmental Panel on Climate Change (IPCC); for which he has been a lead author or coordinating lead author on the third and fourth Assessment Reports, and the recent Technical Paper on Climate Change and Water.