SAFARI2 - International Committee Members

Prof. Dr. Trevor Charles Platt

Prof. Trevor Platt FRS is Jawaharlal Nehru Science Fellow of the Govt. Of India at CMFRI, Kochi since November 2014. Prof. Dr. Platt, has been working on Indian EEZ for about 25 years, and has developed a specific interest in primary production of the Northern Indian Ocean. He has inspired a range of Indian students through the POGO-SCOR fellowship scheme, his visiting Professorship at NIO, Cochin and his teaching in various international training courses. Dr. Platt FRS, a professorial fellow at Plymouth Marine Laboratory, UK and a scientist of high international standing, is the founding co-Chairman of ChloroGIN, the founding Chairman of SAFARI (another GEO activity, on Societal Applications to Fisheries and Aquaculture of Remotely-sensed Imagery), the founding Chairman of the International Ocean-Colour Coordinating Group (IOCCG) (1995-2005), former Chairman of Joint Global Ocean Flux Study (JGOFS), all of which are highly respected on a world scale for constructive and cost-effective contributions to the relevant scientific field and especially to capacity building in developing countries.

Dr. Shubha Sathyendranath

Dr Shubha Sathyendranath is Head of Remote Sensing and Marine Optics at Plymouth Marine Laboratory and is the Assistant Director for the Partnership for the Observation of the Global Oceans. Dr Sathyendranath's research interests include ocean colour modelling, spectral characteristics of light penetration underwater, bio-optical properties of phytoplankton, modelling primary production, bio-geochemical cycles in the sea, climate change, biological-physical interactions in the marine system, ecological provinces in the sea, ecological indicators and phytoplantkon functional types.

A native of India, she has worked in India, France, Canada and the U.K. Her many scientific contributions have been recognized by the award of the *Grande Médaille Albert 1er* (Monaco). She has devoted considerable effort to capacity building in developing countries (for which she has received the IOC-UNESCO N.K. Panikkar Medal). She is currently the Science Lead for the ocean-color component of the Climate Change Initiative of the European Space Agency.

Dr. J K Jena

Deputy Director General (Fisheries Science), Indian Council of Agricultural Research, New Delhi. He is also the President of Asian Fisheries Society and the Chairman of Asian Fisheries Society Indian Branch. His research areas include Freshwater aquaculture and Population genetics. Awards/Honours received for his scientific contributions include Special One Time Award of ICAR, 1998; Young Scientist Award & Scientist of the Year Award of Bioved Research Centre, 1999 & 2000; Best Young Scientist Award of Dr. Hiralal Choudhuri Fisheries Foundation, 2001; ICAR Award for Team Research, 2000 & 2008; Prof. H.P.C. Shetty Award of AFSIB, 2008; Pillay Aquaculture Award, 2011; Dr. S.Z. Qasim Medal, 2011; Rafi Ahmad Kidwai Award of ICAR, 2013.

He is a member of Zoological Society of India, Bodh Gaya; Academy of Sciences for Animal Welfare; Zoological Society of India, Bhubaneswar; Bioved Research Society and Communication Centre; Academy of Science, Engineering and Technology (FASET), Bhopal.

Dr A Gopalakrishnan

Director, ICAR - Central Marine Fisheries Research Institute, Kochi and Convener, SAFARI-2

Dr. Gopalakrishnan has worked on the different aspects of genetic stock identification of fishes using DNA markers and DNA barcoding of fishes using mtDNA markers. He has developed the protocol for cryopreservation of milt of indigenous freshwater fishes for conservation as well as perfected the techniques for captive breeding of indigenous freshwater fishes.

Through his research he has proved his skills and expertise in the fields of Ecology and Evolution, Population Genetics, Genetic Diversity, Molecular Markers, Conservation Genetics, DNA Barcoding, Microsatellite Genotyping, Molecular Taxonomy and Cryopreservation. For his contributions to science, he has won various awards and recognitions**,** which include Fellow, National Academy of Science (2012), V.G. Jhingran Swaran Padak 1992, Senior Scientist Award 1992 etc. He is a member of International Consortium of Barcode of Life; WWF – The Nature Conservancy, USA; Contributor to Freshwater Eco-regions of the World (FEOW) –Region Eurasia, and Collaborator (Code No. 1148) – Fishbase, World Fish Center.

He is also the leader of the projects such as the ICAR sponsored 'Genetics, genomics and biotechnological applications in mariculture' and 'Fishery resources management and Outreach activity on fish genetic stocks' as well as the MoES sponsored 'Global learning for local solution: Reducing vulnerability of marine dependent coastal communities'.

Prof. Ola Mathias Johannessen

Prof. Ola Mathias Johannessen (OMJ) is the Founding Director of the Nansen Environmental and Remote Sensing Center (NERSC) (www.nersc.no). He is also Professor Emeritus at the Geophysical Institute, University of Bergen (UoB). He is the President of the Nansen Scientific Society, the President of the Norwegian Scientific Academy for Polar Research (http://www.polar-academy.com/), Board member of the Bjerknes Climate Center in Bergen, the Chairman of the Guardian Board of the Nansen International Environmental and Remote Sensing Center (NIERSC) in St. Petersburg, Russia, the Co-Chairman of the Board of the Nansen-Zhu Center at the Institute of Atmospheric Physics of the Chinese Academy of Science in Beijing where he also formally is a Visiting Professor and appointed as Guest Professor at Peking University, Beijing and Co-Chairman of the Board of the Nansen-Tutu Marin Center at University of Cape Town, South Africa.

OMJ is the author and co-author of 500 publications of which 7 are books (6 Springer- 1 American Geophysical Union) and 136 are in referee journals, books and proceedings, (e.g. 8 in Science - 1 in Nature). OMJ is presently involved in the following scientific fields: Global

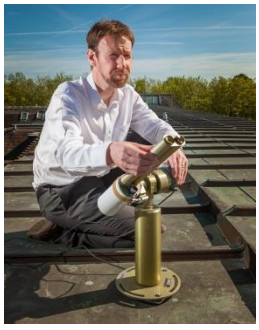
warming detection and prediction of the Arctic climate system, including sea ice, Greenland ice sheet variability, operational oceanography, radioactive spreading in the Nordic Seas, Indian and Southern Ocean circulation studies and socio-economic impact studies of global change.

Dr. Andy Steven

Dr Andy Steven has twenty five-plus years of experience in coastal research and management throughout temperate and tropical Australia, the Asia-Pacific and the Middle-East. He is the Research Director of the CSIRO Coastal Development & Management Program, the largest coastal research program currently in Australia. He is also the Director of the Australian Coastal Ecosystem Facility (ACEF) and leads the CSIRO involvement in the eReefs project and the CSIRO Marine and Coastal Carbon Biogeochemistry Cluster. Andy is recognized for his research on nutrient and carbon biogeochemistry of coastal ecosystems, including coral reefs and estuaries, and its application to natural research management.

Andy currently holds adjunct positions at Griffith University and the University Technology of Sydney and co-supervises a number of doctoral students and post-doctoral fellows.

Dr. Rodney Malcolm Forster



Director of Institute of Estuarine and Coastal Studies and Reader in Applied Estuarine and Marine Sciences, University of Hull, Hull, UK. His research interests include remote sensing of the marine environment, Operational oceanography, Estuaries and coasts and The North Sea. Dr. Forster has been passionate about marine biology and uses sensors, satellites and models to understand the patterns and processes which control marine ecosystems, with a focus on the primary production of phytoplankton and seaweeds. Much of Forster's work is applied ecology - working with industry and government to understand, use and protect our seas.

Dr. Shovonlal Roy

Lecturer in Remote Sensing, University of Reading, UK.

A Ph. D. in ecological modelling using non-linear dynamics, Dr. Roy's research topics are related to marine ecosystems as well as other biological systems. By combining empirical data with theoretical models his research aims to provide better understanding of how the ecosystems function under various scenarios in a changing environment and how the ecosystems stability and species diversity are maintained over ecological time scales. Presently, he is developing mathematical models that couples biological and physical properties of the marine system to understand how light absorption properties of different species of phytoplankton contribute to oceanic primary productivity, formation phytoplankton blooms and also towards regulation of biologically-mediated carbon cycle in the changing oceans. His current research aims to extract useful information related to marine ecosystem from satellite data on a global scale, tackling pressing issues such as ocean carbon uptake, acidification, and quantifying the effectiveness and consequences of proposed geo-engineering schemes.

Dr. Vivian Lutz

Dr Lutz is a researcher and teacher at the Instituto Nacional de Investigación y Desarrollo Pesquero in Argentina. Her research interest involve marine bio-optics. Dr Lutz was one of the instructors at the NF-POGO Visiting Professorship in Brazil (2006), at the Regional CofE Brazil (2009) and at the pre-symposium training of SAFARI-1 in Kochi in 2010. She is one of the founding members of ANTARES-CholoroGIN.

Dr. Paul M. DiGiacomo

Dr. Paul M. DiGiacomo is Chief of the Satellite Oceanography and Climatology Division in the NOAA/NESDIS Center for Satellite Applications and Research (STAR). Previously, he was Chief of the Marine Ecosystems and Climate Branch in STAR, as well as the NOAA CoastWatch Program Manager. Prior to joining NOAA in 2006, Paul served as Supervisor of the Earth Missions Concepts Group at NASA's Jet Propulsion Laboratory (JPL) in Pasadena, CA, as well as the Discipline Program Manager of the Carbon Cycle and Ecosystems Program Office at JPL. Paul is a biological oceanographer, with particular interest in the remote sensing of coastal regions. Paul is active in a number of national and international working groups and panels. Presently he is serving as Co-Chair of the GOOS Panel for Integrated Coastal Observations and Co-Chair of the Coastal Zone Community of Practice of the Global Earth Observing System of Systems (GEOSS), and he also serves as the NOAA Representative to the International Ocean Colour Coordinating Group.

Dr. Renato Quinones

A Marine Biologist with Ph. D in Marine Ecology from Dalhousie University, Canada, Dr. Quinones's research interests include Aeroboic and anaerobic metaolism in marine communities, ecoallometry, biogeochemical role of archaea in the marine environment, fisheries oceanography.

Dr. Milton Kampel

Milton Kampel holds a Masters in Remote Sensing from the National Institute of Space Research (INPE) (1993), a PhD in Oceanography (Biological Oceanography) Oceanographic Institute - IOUSP (2003) and Post-Doctorate at the Bedford Institute of Oceanography, Canada (2005). He is currently Researcher at the National Institute of Space Research, acting in the Coordination of Earth Observation. He develops applications for remote sensing, satellite data

telemetry and geotechnologies in oceanography and the environment, mainly in the following subjects: Ocean color, Primary productivity, Analysis of variability of phytoplankton biomass, Monitoring of marine ecosystems, Analysis of surface fields of sea surface temperature, Coastal Management, Mapping of mangroves and coral reefs, among others.