Scientific Program

OMICS Group Conferences
Accelerating Scientific Discovery

International Conference on
Oceanography & Natural Disasters

August 21-23, 2013 Holiday Inn Orlando International Airport, Orlando-Florida, USA



Exhibitors

Reef Innovations

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Manta Pacific Research Foundation MANTA PACIFIC

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Proposals are invited for organizing Symposia/Workshops at OMICS Group Conferences or OMICS Group will sponsor small events at your universities in related areas under the title of your own. These proposals can be sent to respective conference mail ids or to *symposia@omicsonline.org*

OMICS Group Conferences
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Day 1 August 21, 2013

08:00-08:30 Registrations

International B

OMICS Group Conferences
Accelerating Scientific Discovery

08:30-08:55 Opening Ceremony

Keynote Forum

08:55-09:00 Introduction

09:00-09:25 **Shih Ang Hsu**
Louisiana State University, USA

09:25-09:50 **Csilla Ari**
University of South Florida, USA

09:50-10:15 **Garriet W Smith**
University of South Carolina, USA

10:15-10:40 **Stef Stienstra**
The Royal Dutch Navy, The Netherlands

Coffee Break 10:40-11:00 @ Atrium

11:00-11:25 **Juergen Richt**
Department of Homeland Security, USA

Introductory Remarks on Reef Innovations

11:25-11:35 **Larry Beggs**
Reef Innovations, USA

Oceanography-2013

Track 3: Coastal Science & Engineering
Track 13: Tools & Technology in Oceanography

Session Chair: Dominic D'Agostino, University of South Florida, USA

Session Co-Chair: Kevin C. Owen, LNG Deepwater Port Project, USA

Session Introduction

11:35-11:55 **Title: Evaluating groundwater inflow to Texas coastal embayments**
Dorina Murgulet, Texas A&M University-Corpus Christi, USA

11:55-12:15 **Title: The use of a floating desalination plant to treat harmful algal blooms**
Kevin C. Owen, LNG Deepwater Port Project, USA

12:15-12:35 **Title: Nickel complexation by organic ligands in the coastal waters: Sewage pollution as a potential source for organic ligands**
Radwan Al-Farawati, King Abdulaziz University, Saudi Arabia

12:35-12:55 **Title: Characteristics of wave runup observed over breakwater in field**
Jeseon Yoo, Korean Institute of Ocean Science & Technology, South Korea

Lunch Break 12:55-13:40 @ Atrium

13:40-14:00 **Title: Variation in the recovery rates of an in-shore soft-sediment benthic community following a dredging event; core vs. periphery and species data vs. Surrogates**
Jennifer M Rowland, University of New England, Australia

14:00-14:20 **Title: Physicochemical characteristics and water quality assessment from Kuramo lagoon, Lagos**
JBabalola Olusola Adeniyi, Lagos state Polytechnic, Nigeria

14:20-14:40 **Title: Methods for studying biological preparations in hyperbaric environments**
Dominic D'Agostino, University of South Florida, USA

14:40-15:00 **Title: Linking oceanographic modeling and benthic mapping with habitat suitability models for Pink Shrimp on the West Florida shelf**
Peter J. Rubec, Florida Fish and Wildlife Conservation Commission, USA

Panel Discussion

Coffee Break 15:00-15:20 @ Atrium

Natural Disasters-2013

Track 1: Biodefense & Emerging Infectious Diseases
Track 2: Immunotherapeutics & Vaccines
Track 3: Biosafety and Biosecurity Measures
Track 4: Bio-detectors & Biosensors
Track 5: Public Health in Concern to Biothreat and Biodefense

Session Chair: Mingtao Zeng, Texas Tech University Health Sciences Center, USA

Session Introduction

15:20-15:40 **Title: Evidence that Rickettsia prowazekii may be susceptible to noncanonical purines**
Nicholas E. Burgis, Eastern Washington University, USA

15:40-16:00 **Title: Integrated genomic-based biosurveillance enterprise for operational awareness**
Juergen Richt, Department of Homeland Security, USA

16:00-16:20 **Title: Development of 'flock-side' diagnostic assays and surveillance methodologies for the detection of avian influenza virus (AIV) in South Africa**
P.J. Lebea, CSIR Biosciences, South Africa

16:20-16:40 **Title: Preparation for potential pandemic influenza through vaccination**
Mingtao Zeng, Texas Tech University Health Sciences Center, USA

16:40-17:00 **Title: The use of anthrax and orthopox therapeutic antibodies from human origin in biodefense**
Stef Stienstra, The Royal Dutch Navy, The Netherlands

17:00-17:20 **Title: From label free mass spectrometry of nappa and snap generated proteins to qmc_d sensor of new conception**
C. Nicolini, University of Genova, Italy

17:20-17:40 **Title: Developing a biosecurity framework against possible advanced bioterrorism**
Dominic B Maikaje, Nigerian Defence Academy, Nigeria

Panel Discussion

17:40-18:40 Cocktails Sponsored by **Journal of Marine Science Research & Development**

Day 2 August 22, 2013

International B

Oceanography-2013

Track 1: Ocean & Climate
Track 2: Costal Hazards & Marine Environment Protection
Track 4: Chemical & Physical Process of Ocean

Session Chair: Shih Ang Hsu, Louisiana State University, USA
Session Co-Chair: A. D. Rao, Indian Institute of Technology Delhi, India

Session Introduction

08:30-08:50 **Title: Effects of BP oil spill burning on coastal fine particle concentrations**
Shih Ang Hsu, Louisiana State University, USA

08:50-09:10 **Title: Development of long-term hazard planning and vulnerability assessment of storm surges using numerical models**
A. D. Rao, Indian Institute of Technology Delhi, India

09:10-09:30 **Title: Negative human impact on rabigh-mangrove swamps on the western red sea coast of Saudi Arabia**
Mohammed O. Al-jahdali, King Abdulaziz University, Saudi Arabia

09:30-09:50 **Title: Improvement in ocean model surface initial forcing for the Bay of Bengal**
Tarumay Ghoshal, Indian Institute of Technology Kharagpur, India

09:50-10:10 **Title: Atmospheric input of trace elements to the ocean; Dust to ashes**
Thomas M. Church, University of Delaware, USA

10:10-10:30 **Title: Variability of coastal ocean processes along the west coast of India**
A. D. Rao, Indian Institute of Technology Delhi, India

Panel Discussion

Coffee Break 10:30-10:50 @ Atrium

Track 5: Ocean Life & Ecosystem

Session Chair: Garriet W. Smith, University of South Carolina Aiken, USA
Session Co-Chair: Khairul Azam, The University of South Pacific, Fiji

10:50-11:10 **Title: Response of corals to temperature stress**
Garriet W. Smith, University of South Carolina Aiken, USA

11:10-11:30 **Title: Formulation of cost effective grow out feeds for Macrobrachium rosenbergii culture in Fiji**
Khairul Azam, The University of South Pacific, Fiji

11:30-11:50 **Title: Coral bleaching in Ratatotok Peninsula and its surroundings area, South-east minahasa, north Sulawesi province, Indonesia (a 15 years monitoring data)**
Laurentius T. X. Lalamentik, Sam Ratulangi University, Indonesia

11:50-12:10 **Title: Trophic levels of commercially important fishes in Malaysian coastal waters**
K.D. Simon, Universiti Kebangsaan, Malaysia

12:10-12:30 **Title: Hard coral conditions in Ratatotok Peninsula Reef, South-East Minahasa, North Sulawesi Province, Indonesia (a monitoring study: 1993-2012)**
David Sompie, PT Newmont Minahasa Raya, Indonesia

Panel Discussion

Lunch Break 12:30-13:15 @ Atrium

Manta Ray Symposium-2013

13:15-13:35 **Title: First evidence of long term and rapid coloration changes of giant Manta rays (genus Manta) with implications on reliability of photo identification techniques**
Csilla Ari, University of South Florida, USA

13:35-13:55 **Title: Underwater telepresence for conservation, education and science**
Robert Aston, Ocean Presence Technologies, USA

13:55-14:15 **Title: Aerial survey & satellite tagging of manta rays in coastal waters of northeast florida**
Timothy Mullican, Georgia Aquarium, USA

14:15-14:35 **Title: The path to manta ray protection in the state of hawaii**
Keller laros, Manta Pacific Research Foundation, USA

14:35-14:55 **Title: Manta site management – community practice in action**
Wendy Laros, Manta Pacific Research Foundation, USA

14:55-15:15 **Title: Sexually dimorphic expression of a germ line gene, dead end, during gonadal development in turbot (Scophthalmus maximus)**
Qunguha Liu, Chinese Academy of Science, China

15:15-15:35 **Dominic D Agostino,** University of South Florida, USA

Coffee Break 15:35-15:55 @ Atrium

15:55-16:55 **Poster Presentation (Oceanography-2013 & Natural Disasters-2013) @ Atrium**

Panel Discussion

16:55-17:10 **Title: Event Introduction**
Csilla Ari, University of South Florida, USA

17:10-17:35 **Title: Video footages on Hawaii Manta Population**
Keller Laros, Manta Pacific Research Foundation, USA

17:35-18:00 **Title: Manta Ray conservation issues**

18:00-18:30 **Title: 'Mantas last dance' movie**

International A

Natural Disasters-2013

Track 8: Climate Change and Extreme Weather
Track 9: Earthscience and Ecology
Track 10: Current Approaches in Environmental Studies
Track 11: Spatial Monitoring and Response Technology for Disasters Management

Session Chair: Madhav L Khandekar, Environment Canada, Canada

09:00-09:20	**Title: Extreme weather, global warming and natural climate variability** **Madhav L Khandekar,** Environment Canada, Canada
09:20-09:40	**Title: Quantifying future changes in extreme precipitation events based on resolved synoptic atmospheric patterns** **Xiang Gao,** Massachusetts Institute of Technology, USA
09:40-10:00	**Title: Studies on application of geographical information system (GIS) for evaluation of ground water quality in coimbatore district, Tamilnadu, India** **K.Shanthi,** PSG College of Arts and Science, India
10:00-10:20	**Title: Using of neem (azadirachta indica) in management of whitefly (bemisiatabaci genn) in Sudan** **Sana K. Mukhtar,** University of Kordofan, Sudan
10:20-10:40	**Title: Organic and biological nanosensors for environment** **C. Nicolini,** University of Genova, Italy

Coffee Break 10:40-11:00 @ Atrium

11:00-11:20	**Title: The challenge of protecting essential biological and environmental research, an international perspective** **James R. Sutton,** Sigma Iberia. Inc., USA
11:20-11:40	**Title: Sustainable coastal erosion protection and adaptation to climate change in the mekong delta, Vietnam** **Schmitt Klaus,** Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ), Vietnam

Panel Discussion

11:40-12:40	**Workshop** **The Challenge of Protecting Essential Biological and Environmental Research, an International Perspective**

Lunch Break 12:40-13:25 @ Atrium

18:30-19:30	Cocktails Sponsored by **Journal of Geography & Natural Disasters**

Day 3 August 23, 2013

International B

Natural Disasters-2013

08:30-09:00	**Speech on Reef Innovations** **Larry Beggs,** Reef Innovations, USA

Track 6: Applied Research and Technology in Biodefense

Session Chair: Stef Stienstra, The Royal Dutch Navy, The Netherlands

Session Introduction

09:00-09:20	**Title: Laser based defense mechanisms against biological threats** **Ian A Watson,** University of Glasgow, UK
09:20-09:40	**Title: Transcriptional profiling of human Peripheral Blood Mononuclear cells exposed to Bacillus anthracis in vitro** **Marti Jett,** US Army Center for Environmental Health Research, USA
09:40-10:00	**Title: Industrial chemicals as a threat in unstable environments** **Stef Stienstra,** The Royal Dutch Navy, The Netherlands
10:00-10:20	**Title: Real time detection, monitoring and modeling of biological threats** **Ian A Watson,** University of Glasgow, UK

Panel Discussion

Oceanography-2013

Track 6: Ocean Resources
Track 9: Marine Pollution & Management
Track 10: Marine Biotechnology
Track 11: Marine Renewable Energy Technology

Session Chair: Nisreen. E. Mahmoud, Cairo University, Egypt

Session Co-Chair: Jaysankar De, UNESCO Chair in Life Sciences International Postgraduate Educational Center, Armenia

Session Introduction

10:20-10:40	**Title: Effect of low cost locally available ingredients on the growth performance of juveniles freshwater prwan Machrobrachium rosenbergii in the laboratory** **Khairul Azam,** The University of the South Pacific, Fiji
10:40-11:00	**Title: The Butterfly fish (chaetodontidae) conditions in Ratatotok Peninsula reef, South-East Minahasa, North Sulawesi province, Indonesia (a monitoring study: 1993-2012)** **Laurentius T. X. Lalamentik,** Sam Ratulangi University, Indonesia

Coffee Break 11:00-11:20 @ Atrium

11:20-11:40	**Title: Length-weight relationships of six fishes of economic importance in ibeshe waterside, Lagos lagoon, Lagos state Nigeria** **Josef Bamidele Bolarinwa,** Lagos State Polytechnic, Nigeria
11:40-12:00	**Title: Investigations on mass mortalities among Oreochromis niloticus at Mariotteya stream, Egypt : Parasitic infestation and environmental pollution impacts** **Nisreen. E. Mahmoud,** Cairo University, Egypt
12:00-12:20	**Title: Recent statistics of turkey's maritime transportation and recent trends in shipboard petroleum wastewater treatment in Turkey** **Elif Sekman,** Yildiz Technical University, Turkey
12:20-12:40	**Title: Potential of marine bacteria in enhanced bioremediation** **Jaysankar De,** UNESCO Chair in Life Sciences International Postgraduate Educational Center, Armenia

Lunch Break 12:40-13:25 @ Atrium

13:25-13:45	**Title: Importance of aquatic macrophytes in controlling water quality** **Lilit Vardanyan,** UNESCO Chair in Life Sciences International Postgraduate Educational Center, Armenia
13:45-14:05	**Title: Marine fish genetic resources cryoperservation and application in breeding** **Qinghua Liu,** Chinese Academy of Sciences, China
14:05-14:25	**Title: Survey of Current Biomedical Applications for Therapeutic Benefit from Oceanic Bioactive Molecules** **George Schroeder,** University of Central Florida, USA
14:25-14:45	**Title: Assessment of Water Quality Parameters in Two Nigerian Major Rivers** **Ishaq S. Eneji,** University of Agriculture, Makurdi, Nigeria
14:45-15:05	**Title: Marine Resources in Eritrea: Performance, Potential & Prospectus** **Michael Kashu Tesffzgi,** Eritrea Fisheries Corporation, Eritrea

Panel Discussion

Award Ceremony

Coffee Break 15:30-15:50 @ Atrium