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4th International Conference on

Oceanography & Marine Biology

July 18-19, 2016 Brisbane, Australia

Scientific Program



Quay 2

conference**series**.com 09:20-09:25

Opening Ceremony

Keynote Forum

09:25-09:30 Introduction

09:30-10:00 **Anomalies in the coastal zone of Asia-Pacific as a result of changes in global climate regime at the turn of 20-21 centuries**
Vladimir Ponomarev, Pacific Oceanological Institute, Russia

Track 1: Physical Oceanography

Track 3: Fisheries Oceanography

Track 5: Air Sea Interactions

Track 7: Marine Biology

Track 10: Marine Pollution

Session Chair: Vladimir Ponomarev, Pacific Oceanological Institute, Russia

Session Co-Chair: Svetla miladinova, Institute for Environment and Sustainability, Italy

Session Introduction

10:00-10:25 **Transformation of Surface and Internal Waves at the Bottom Step**

Yury Stepanyants, University of Southern Queensland, Australia

10:25-10:50 **Sensitivity of the Black Sea's ecosystem to hydrodynamic processes**

Svetla miladinova, Institute for Environment and Sustainability, Italy

Group Photo 10:50 to 10:55

Networking and Refreshments 10:55 -11:20 @ Quay Restaurant

11:20-11:45 **Influence of seasonal runoff regulation by the Three Gorges Reservoir on saltwater intrusion in the Changjiang River estuary**

Jian-Rong Zhu, East China Normal University, China

11:45-12:10 **Sustainable Colonization of Macrobenthic Community in Submarine Tailing Placement Areas in Buyat Bay, North Sulawesi, Indonesia**

Inneke F M Rumengan, Sam Ratulangi University, Indonesia

12:10-12:35 **Living condition of hard corals at Buyat Bay, Southeast Minahasa Region**

Magdalena Irene, University of Manado, Indonesia

12:35-13:00 **Expansion-Oriented View on Origin of Oceans**

Subhasis Sen, CSIRO, India

Lunch Break 13:00 to 13:45 @ Quay Restaurant

13:45-14:10 **Simulation of mesoscale and sub-mesoscale circulation in the northwestern coastal region of the Japan Sea**

Vladimir Ponomarev, Russian Academy of Sciences, Russia

14:10-14:35 **The influence of environmental factors on growth and condition of larval Atlantic herring (*Clupea harengus*) in the Saint-Lawrence middle estuary in Quebec, Canada**

Laurence Lévesque, Université du Québec à Rimouski-Institute of Marine Sciences, Canada

14:35-15:00 **Transparent exopolymeric particles within the St-Lawrence estuary : spatial and temporal distributions and effects of increasing global warming and ocean acidification**

Houssein Gaaloul, Université du Québec à Rimouski-Institute of Marine Sciences, Canada

15:00-15:25 **Considering the Patterns of Barotropic Tidal Currents in Persian Gulf and Oman Sea**

Fatemeh sadat, Department of Physical Oceanography, Science and Research Branch, Islamic Azad University, Iran

Networking and Refreshments 15:25 -15:50 @ Quay Restaurant

15:50-16:15 **Performance analysis of an Energy efficient cross layer protocol for underwater acoustic wireless sensor network**

Sakthivel Murugan, SSN College of Engineering, India

- 16:15-16:40 **Use of single cell red alga as feed for Japanese sea cucumber *Apostichopus japonicus* in closed recirculating system**
A M Shahabuddin, Mie University, Graduate School of Bioresources, Tsu, Japan
- 16:40-17:05 **Coupled multi-phase interactions model for carbon dioxide(CO₂) storage and sequestration using hydrates-forming method in marine sediments**
Shu-Qing Hao, China University of Mining and Technology, China

Panel Discussion

Day 2 July 19, 2016

Quay 2

Keynote Forum

- 09:30-10:00 **Determination of Atmospheric Aerosol Particle Size Distribution with multi wavelength lidar**
Tadeusz Stacewicz, Institute of Experimental Physics, University of Warsaw, Poland
- 10:00-10:30 **Geological understanding of plate tectonics: Basic concepts, illustrations, examples and new perspectives**
Yaoling Niu, Institute of Oceanology, Chinese Academy of Sciences, China

Networking and Refreshments 10:30-11:00 @ Quay Restaurant

Track 2: Geophysics and Geodynamics

Track 8: Marine Geology

Track 9: Economic geology

Track 11: Environmental Geology

Track 14: Engineering Geology

Session Chair: **Yury Stepanyants**, University of Southern Queensland, Australia

Session Co-Chair: **Svetla miladinova**, Institute for Environment and Sustainability, Italy

Session Introduction

- 11:00-11:25 **Barr Al Hikman as an Important Nursery Ground for Blue Swimming Crabs *Portunus segnis***
Andy Kwarteng, Sultan Qaboos University, Oman
- 11:25-11:50 **Features of sedimentation in the equatorial part of the Mid-Atlantic Ridge**
Evgeniya Popova, I.S. Gramberg All-Russia Research Institute for Geology and Mineral Resources of the World Ocean, St. Petersburg, Russia
- 11:50-12:15 **Continental Drift and Plate Tectonics Vis-a-Vis Earth's Expansion: Probing the Missing Links for Understanding the Total Earth System**
Subhasis Sen, CSIRO, India
- 12:15-12:40 **Study on Deep Water Warming Trend and Ocean Contaminated State Restoration in the Bay of Bengal : The Implementation of Site Remediating Environmental Modelling**
Hadi Nomana Intekhab, University of California at Berkeley, USA

Poster Presentation 12:40-13:30

- P1 **The Harrat Al-Birk basalts in southwest Saudi Arabia: a characteristic alkali mafic magmatism related to the Red Sea rifting**
Rami A Bakhsh, Department of Mineral Resources and Rocks, King Abdulaziz University, Saudi Arabia
- P2 **The photophysiological performance of benthic microalgae towards different environmental variables in the southern temperate wetlands**
ShiHong Lee, Institute for Marine and Antarctic Studies, Australia
- P3 **Design and implementation of an energy harvesting system using MFC with marine sediments for underwater applications**
Sakthivel Murugan, SSN College of Engineering, India

Lunch 13:30-14:15 @ Quay Restaurant

Panel Discussion

Award Ceremony