

190th OMICS Group Conference

Scientific Program



3rd International Conference on **Earth Science & Climate Change**

July 28-30, 2014 San Francisco, USA



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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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08:30-08:55

Opening Ceremony

Keynote Forum

- 08:55-09:00 Introduction**
- 09:00-09:25 Alexander Trofimov**
International Scientific Research Institute of Cosmic Anthropoecology, Russia
- 09:25-09:50 Elena Lioubimtseva**
Grand Valley State University, USA
- 09:50-10:15 Leiming Zhang**
Environment Canada, Canada

Coffee Break 10:15-10:30 @ Pre-Function Area

- Track 1: Geosciences and Geology
- Track 2: Geophysics and Atmospheric Sciences
- Track 3: Climate Change and Extreme Weather
- Track 6: Environmental and Marine Sciences

Session Chair: Alexander Trofimov, International Scientific-Research Institute of Cosmic Anthropoecology, Russia
Session Co-Chair: Suren Kulshreshtha, University of Saskatchewan, Canada

Session Introduction

- 10:30-10:50 Past and future extreme climatic events in Canadian prairies: Integrating economics and climate**
Suren Kulshreshtha, University of Saskatchewan, Canada
- 10:50-11:10 Accretionary complexes: Recorders on Earth and possibly Mars**
Shigenori Maruyama, University of Tokyo, Japan
- 11:10-11:30 Climate Change and climate variability in Tanzania: The Case of the Kilimanjaro region**
Julius D Keyyu, Tanzania Wildlife Research Institute, Tanzania
- 11:30-11:50 Uncertainties in Impact Assessment of Climate Change on Rainfall Extremes in the Lake Victoria Basin**
Onyutha Charles, University of Leuven, Belgium
- 11:50-12:10 Prediction of Climate Change of the 21st century**
Shigenori Maruyama, Tokyo Institute of Technology, Japan
- 12:10-12:30 Environment Transformation Conditioned with Climate Change in Georgia**
Lia Matchavariani, Tbilisi State University of Iv. Javakishvili, Georgia
- 12:30-12:50 Correct atmosphere optics modeling: Theory and Experiment**
Irina Melnikova, St.Petersburg State University, Russia

Lunch Break 12:50-13:30 @ Tiburon-Sausalito

- 13:30-13:50 Petrology and Geochemistry of granitoids of the northern part of Adamawa Massif, N.E Nigeria**
Ismaila Vela Haruna, Modibbo Adama University of Technology, Nigeria
- 13:50-14:10 Kozyrev's space model of helio-geophysical and Climatic changes in the XXI century**
Alexander Trofimov, International Scientific-Research Institute of Cosmic Anthropoecology, Russia
- 14:10-14:30 Recent vegetations biodiversity in Nile Delta wetlands in Egypt**
Mary G Ghobrial, National Institute of Oceanography & Fisheries, Egypt
- 14:30-14:50 Assessment of Water Resources in KhorGabeit and KhorAdalaweb Areas, GabeitMaaden, Red Sea State**
Omaima Al Fadeil, Al Neelain University, Sudan
- 14:50-15:10 Influence of agricultural landuse on organic carbon distribution in soil aggregatesize fractions in Ile-Ife, Southwestern Nigeria**
D J Oyedele, Obafemi Awolowo University, Nigeria
- 15:10-15:30 Effect of heavy metal ions on the antioxidant properties of Mentha Spicata**
Tara Pokhriyal, Lovely Professional University, India
- 15:30-15:50 Assessing Healthcare liquid waste management in Kathmandu, Nepal**
Bandana Pradhan, Tribhuvan University, Nepal

Panel Discussion

Coffee Break 15:50-16:05 @ Pre-Function Area

- Track 9: Current Approaches in Environmental Studies
- Track 7: Environmental Calamity and Hazards

Session Chair: Jan Cermak, Mendel University, Czech Republic
Session Co-Chair: Abel Navarro, City University of New York, USA

- 16:05-16:25 Adsorptive removal of basic blue 99 Dyebyindustrial wastes: Analysis of the equilibrium state**
Abel Navarro, City University of New York, USA
- 16:25-16:45 Evaluation and Assessment of Kosi River flood disaster using Remote sensing and GIS techniques**
Shankar Dayal, Bihar State Disaster Mangement Authority, India
- 16:45-17:05 Midwestern Cornbelt nutrient sequestration: Fine tuning treatment technology**
Lu Zhang, University of Minnesota, USA
- 17:05-17:25 Trends in atmospheric ozone from long-term ozone climatology**
Jane Liu, University of Toronto, Canada
- 17:25-17:45 Field-applicable tools for measurements of the whole tree absorptive root area and spatially distributed root water supply**
Jan Cermak, Mendel University, Czech Republic

Panel Discussion

18:00-19:00 Cocktails sponsored by Journal of Earth Science & Climatic Change @ Pre-Function Area

Track 5: Global Warming and Environmental Change

Session Chair: Elena Lioubimtseva, Grand Valley State University, USA

Session Co-Chair: Douglas Leaffer, Framingham State University, USA

09:00-10:00 Workshop on "Climate Change Curriculum Development"
by Elena Lioubimtseva, Grand Valley State University, USA10:00-10:20 Climate Change and current measures taken in turkey as a Mediterranean Country
Guleda Onkal Engin, Yildiz Technical University, Turkey10:20-10:40 Anthropogenic factors of atmosphere pollution
Lamzira Lagidze, Tbilisi State University of Iv. Javakhsivili, Georgia

Coffee Break 10:40-10:55 @ Pre-Fuction Area

10:55-11:15 Temperature and precipitation climatology assessment over South Asia using the Regional Climate Model (RegCM4.3): An evaluation of the model performance
Mujtaba Hassan, Tsinghua University Beijing, China11:15-11:35 Correlating qualitative with quantitative measurement of sea level rise in Florida Bay
Douglas J Leaffer, Framingham State University, USA11:35-11:55 Sustainable campus as a living learning lab for environmental studies and Climate Change education
Elena Lioubimtseva, Grand Valley State University, USA11:55-12:15 Application of the JULES-ECOSSE model to simulate the change in soil organic carbon in Great Britain
Hon Man Wong, University of Aberdeen, UK12:15-12:35 Species composition of oceanic Halobates at 12°N, 135°E from 2008-2013 and change in life history traits of a water strider, Aquarius paludum from 1987-2013 in accordance with global warming
Tetsuo Harada, Kochi University, Japan12:35-13:20 Workshop on "Measurement of the whole tree absorptive root area by the impedance method and spatial distribution of root water supply via multi-point sap flow patterns"
by Jan Cermak, Mendel University, Czech Republic

Panel Discussion

Lunch Break 13:20-14:00 @ Tiburon-Sausalito

Track 4: Technologies and Applications of Earth Science**Track 10: Effect of Climate Change on Ecosystem**

Session Chair: Carlos A Gonzalez-Benecke, University of Florida, USA

Session Co-Chair: John P Abraham, University of St. Thomas, USA

14:00-14:20 Improving innovative mathematical model for earthquake prediction
Suganth Kannan, MathforUS LLC, USA14:20-14:40 Derived Relationship between Geoelectric and Hydraulic Parameters in Bara Basin, Sudan
Nuha E. Mohamed, Al Neelain University, Sudan14:40-15:00 Mass processing of remote sensing data for environmental evaluation in Europe
Adrian Gonzalez, Blackbridge AG, Germany15:00-15:20 Climate impact on water resources management in Indian Himalayas-case study
AL Ramanathan, Jawharlal Nehru University, India

Coffee Break 15:20-15:35 @ Pre-Fuction Area

15:35-15:55 Predicting Climate Change impacts on southern pines productivity in SE United States using physiological process based model 3-PG
Carlos A Gonzalez-Benecke, University of Florida, USA15:55-16:15 Closing the Earth's energy imbalance
John P Abraham, University of St. Thomas, USA**Mendocino**Workshops on "Data Collection, Analysis and Application of Speciated Atmospheric Mercury"
by Leiming Zhang, Environment Canada, Canada

Workshop Session I Session Chair: Eric E Prestbo, Tekran Research and Development, USA

08:50-09:10 Overview of the NADP's Atmospheric Mercury Network
David Gay, University of Illinois, USA09:10-09:30 Overview of mercury measurements in China
Xinbin Feng, Chinese Academy of Sciences, China09:30-09:50 An overview of mercury speciation measurements and analysis at high latitudes
Chris Moore, Desert Research Institute, USA09:50-10:10 Overview of Speciated Mercury at Anthropogenic Emission Sources
Shuxiao Wang, Tsinghua University, China10:10-10:30 Overview of Mercury Measurements in East Asia and over the North Pacific Ocean in 2009-2012
Guey-Rong Sheu, National Central University, Taiwan

Coffee Break 10:30-10:45 @ Pre-Fuction Area

Workshop Session II Session Chair: David Gay, University of Illinois, USA

10:45-11:05 Overview of atmospheric mercury measurement uncertainties
Mae Sexauer Gustin, University of Nevada, USA11:05-11:25 Atmospheric Mercury: Are we measuring it correctly?
Robert Talbot, University of Houston, USA11:25-11:45 Air Mercury Speciation Accuracy and Calibration
Eric E Prestbo, Tekran Research and Development, USA11:45-12:05 Overview of quantifying the air-surface exchange of elemental mercury vapor using enclosure and micrometeorological methods
Jerry Che-Jen Lin, Lamar University, USA

Workshop Session III Session Chair: Jerry Che-Jen Lin, Lamar University, USA

12:05-12:25 Overview of studies making use of Speciated Mercury
Leiming Zhang, Environment Canada, Canada12:25-12:45 Overview of Spatial and Temporal Distributions of Speciated Mercury
Huting Mao, State University of New York, USA12:45-13:05 Overview of measurement and modeling approaches for the estimation of temporal and spatial variations in mercury dry-deposition
Frank J Marsik, University of Michigan, USA

Lunch Break 13:05-13:45 @ Tiburon-Sausalito

13:45-14:05 An overview on the use of trajectory models to investigate potential sources of atmospheric mercury
Iris Xiaohong Xu, University of Windsor, Canada

14:05-14:25 **Overview of challenges using speciated Hg measurements to support model evaluation and development**
Helen M Amos, Harvard University, USA

Workshop Session IV

Session Chair: Leiming Zhang, Environment Canada, Canada

Session Co-Chair: Huting Mao, State University of New York, USA

14:25-15:25 **Identify potential overview papers and lead and contributing authors**
All

Coffee Break 15:25-15:40 @ Pre-Function Area

15:40-17:00 **Poster Presentations @ Sonoma**

18:00-19:00 **Cocktails sponsored by Journal of Ecosystem & Ecography @ Pre-Function Area**

Day 3 **July 30, 2014**
Sierra Ballroom

Track 8: Environmental Management

Session Chair: Thomas G Sonnleitner, University of Wisconsin Oshkosh, USA

Session Co-Chair: John J Sansalone, University of Florida, USA

09:00-09:20 **Restoration and Sequestration of Carbon and Nitrogen in degraded Northern Coastal Area in Nile Delta, Egypt for Climate Change mitigation**
Heba Yehia Elbasiony, Al Azher University, Egypt

09:20-09:40 **Adaptation technologies to minimize the impact of Climate Change on crop yield, income and water use in major river basins in India**
K Palanisami, International Water Management Institute, India

09:40-10:00 **Waste to Energy Using Anaerobic Digestion**
Thomas G Sonnleitner, University of Wisconsin Oshkosh, USA

10:00-10:20 **Environmental and water hazards of the constructed environment with the respect for technical and societal management of the human habitat**
John J Sansalone, University of Florida, USA

10:20-10:40 **Rooftop Rainwater Harvesting for Recharging Shallow Groundwater**
Giridhar MVSS, Jawaharlal Nehru Technological University, India

Coffee Break 10:40-10:55 @ Pre-Function Area

10:55-11:15 **Assessment of sea water intrusion into the Coastal Aquifers**
G.K.Viswanadh, Jawaharlal Nehru Technological University, India

11:15-11:35 **Assessment of groundwater quality and its suitability for irrigation and drinking purposes**
V N RamanaRao, Jawaharlal Nehru Technological University, India

11:35-11:55 **Improvements to the quality and quantity of ocean heat content measurements**
John P Abraham, University of St. Thomas, USA

Workshops on "Data Collection, Analysis and Application of Speciated Atmospheric Mercury"
by Leiming Zhang, Environment Canada, Canada

Workshop Session V

Session Chair: Mae Sexauer Gustin, University of Nevada, USA

11:55-12:15 **Use of global model results to understand airborne oxidized mercury observations at five sites**
Peter Weiss-Penzias, University of California, USA

12:15-12:35 **Identification of Oxidized Mercury Compounds with GC/MS**
Seth Lyman, Utah State University, USA

12:35-12:55 **The Influences of a Local Coal-Fired Power Plant on Downwind Ambient Mercury Concentrations**
Jiaoyan Huang, University of Nevada, USA

Lunch Break 12:55-13:35 @ Tiburon-Sausalito

13:35-13:55 **Use of passive sampling methods to understand sources of mercury and other pollutants to high elevation sites in the Western United States**
Jiaoyan Huang, University of Nevada, USA

13:55-14:15 **Atmospheric Mercury in the Oil Sands Region**
Daniel McLennan, Environment Canada, Canada

Workshop Session VI

Session Chair: Robert Talbot, University of Houston, USA

14:15-14:35 **Potential Controls on Trends in Background Concentrations of Hg⁰ in the Northeastern**
Huting Mao, State University of New York, USA

14:35-14:55 **A reliable data collection and control system provided as a service within the Global Mercury Observation Network**
Francesco D'Amore, CNR-Institute of Atmospheric Pollution Research, Italy

14:55-15:15 **A Study of Temporal Variability of Atmospheric Total Gaseous Mercury in Windsor, Ontario, Canada**
Iris Xiaohong Xu, University of Windsor, Canada

15:15-15:35 **A proposed approach estimating mercury dry deposition at AMNet sites**
Leiming Zhnag, Environment Canada, Canada

Panel Discussion

Coffee Break 15:40-15:55 @ Pre-Function Area

Workshop Session VII

Session Chair: Leiming Zhang, Environment Canada, Canada

Session Co-Chair: Huting Mao, State University of New York, USA

15:55-16:55 **Discussion on the details of identified overview papers**
All

Closing Ceremony

Bookmark your dates



4th International Conference on Earth Science & Climate Change

July 27-29, 2015 Rome, Italy

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