

Scientific Program

4th International Conference on **Earth Science & Climate Change**

Alicante, Spain June 16-18, 2015

Day 1 June 16, 2015

08:30-09:00 Registrations

Terra Mitica

09:00-09:25 **Opening Ceremony**

Keynote Forum

- 09:25-09:30 **Introduction**
- 09:30-09:55 **Alexander Trofimov**
ISRICA, Russia
- 09:55-10:20 **Cedo Maksimovic**
Imperial College of London, UK
- 10:20-10:45 **Jaime Senabre**
SINIF, Spain
- 10:45-11:10 **Ioannis Michaloudis**
Kingdom University, Bahrain

Coffee Break: 11:10-11:30 @ Postiguet

Track 1: Geosciences and Geology

Track 3: Geophysics and Atmospheric Sciences

Session Chair: Francois Robert, Muséum MNHN/CNRS, France

Session Co-chair: Sergey Samoylenko, Institute of Volcanology and Seimology FEB RAS, Russia

Session Introduction

- 11:30-11:50 **On formal classification of volcanic eruption types and regimes based on the similarity theory**
Sergey Samoylenko, Institute of Volcanology and Seimology FEB RAS, Russia
- 11:50-12:10 **Oxygen isotopes in 3.0 Gyr.cherts: A record of the oceanic temperature?**
Francois Robert, Muséum MNHN/CNRS, France
- 12:10-12:30 **Advances in computational models of subsurface media: Past, present and future**
Gour-Tsyh Yeh, National Central University, Taiwan
- 12:30-12:50 **Guney formation oil reservoir rock characterization, Eregli-Ulukisla Basin, Turkey**
Ayfer Ozdemir, Middle East Technical University, Turkey
- 12:50-13:10 **Ecological aspects of pedogenesis and evaluation of ecosystems in Georgia on the basis of edaphic factors**
Lia Matchavariani, Iv. Javakhishvili Tbilisi State University (TSU), Georgia

Lunch Break: 13:10-13:50 @ Postiguet

- 13:50-14:10 **Valuable contribution of the advance monitoring in the fishery management of Peruvian anchovy**
Marilu Bouchon Corrales, Instituto del Mar del Peru, Peru

14:10-14:30 **Integrated electrical resistivity tomography and magnetic surveys in a mineralization zone in Erkowit, Red Sea State - Sudan**
Nuha E Mohamed, Al Neelain University, Sudan

14:30 -14:40 **Panel Discussion**

Workshop on "Wildland Fires and Climate Change"

Session Chair: Jaime Senabre, SINIF, Spain

14:40-15:40: **Oral Presentations & discussion**

Drones and nighttime aerial firefighting. The nitrofirex project

Alexander Burwitz Schwezoff, Spanish Air Force, Spain

Coffee Break: 15:40-16:00 @ Postiguet

Track 4: Climate Change and Extreme Weather

Track 6: Global Warming and Environmental Change

Track 10: Effect of Climate Change on Ecosystem

Session Chair: Piret Plink-Bjorklund, Colorado School of Mines, USA

Session Co-chair: Xuegong Xu, Peking University, China

Session Introduction

16:00-16:20 **Climate change vulnerability projection in Georgia**

Binita KC, Northeastern University, USA

16:20-16:40 **Intensification of extreme precipitation-Ancient archives predict the future?**

Piret Plink-Bjorklund, Colorado School of Mines, USA

16:40-17:00 **Risk assessment of sea level rise in the coastal zone of Tianjin, China**

Xuegong Xu, Peking University, China

17:00-17:20 **First bloom record of toxic dinoflagellate *Prorocentrum lima* (Ehrenberg) F.Stein, 1878 and climate change interactions in the Dardanelles (Turkish Straits System)**

Muhammet Turkoglu, Canakkale Onsekiz Mart University, Turkey

17:20-17:40 **Earth contraction and global Earth temperature**

Ibrahim M. Metwally, Zagazig University, Egypt

17:40-17:50

Panel Discussion

Day 2

June 17, 2015

08:30-09:00 Registrations

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Track 2: Meteorology and Planetary Sciences

Track 5: Technologies and Applications of Earth Science

Session Chair: Fedora Quattrocchi, Istituto Nazionale di Geofisica e Vulcanologia, Italy

Session Co-chair: Yung-Cheng Chang, Minghsin University of Science and Technology, Taiwan

Session Introduction

09:00-09:20 **The Commissione ICHESE case history as a poor geo-ethics and communication episode in the frame of the Nimby Syndrome and geopolitics weakness**

Fedora Quattrocchi, Istituto Nazionale di Geofisica e Vulcanologia, Italy

09:20-09:40 **Muons detection and the climate change**

J. Sanchez del Rio Saez, Rey Juan Carlos University, Spain

09:40-10:00 **Objective analysis of typhoon Longwang (2005) intensity using satellite multi-channel observations**

Yung-Cheng Chang, Minghsin University of Science and Technology, Taiwan

10:00-10:20 **Molding the next generation of climate leaders: The intersection of education, values, and climate action**

Xia Zhu, University of Toronto, Canada

10:20-10:40 **Impact of CO₂ saturated water solution on Grevena sandstone, a potential deep aquifer for carbon dioxide sequestration**

Georgios Dimadis, Aristotle University, Greece

Coffee Break: 10:40-11:00 @ Postiguet

11:00-11:20 **Bearing capacity evaluation of footing on a layered-Soil using ABAQUS**

Ahdyeh Mosadegh, Curtin University, Australia

11:20-11:40 **Rhizobacterium *Bacillus* sp. SC2b and its role in phytoextraction**

Ying Ma, University of Coimbra, Portugal

11:40-12:00 **Qatar's New green house design**

Wadha Al-marri, Nottingham Trent University, UK

12:00-12:10

Panel Discussion

Workshop on "Blue Green Dream's integrated interactions for integrated planning for urban sustainability and resilience"

Chair: Cedo Maksimovic, Imperial College of London, UK

12:10-13:20: **Oral Presentations and discussion**

Lunch Break: 13:20-14:00 @ Postiguet

Workshop on "Heliogerontology at the epoch of cosmoplanetary and climate changes"

Session Chair: Alexander Trofimov, ISRICA, Russia

Session Introduction

- 14:00-14:20 **Heliogerontology at the epoch of cosmoplanetary and climate changes**
Alexander Trofimov, ISRICA, Russia
- 14:20-14:40 **Holografically processed water as a cardiovascular and psychophysiological helioprotector**
Taisiya Kuznetsova, Institute of Cosmic Anthropeology, Russia
- 14:40-15:00 **Project "Biomet_Forecast": Human's adaptation to weather changes**
Marina Trubina, St.Petersburg State University, Russia
- 15:00-15:20 **Air ions: Influences on microclimate modifications and the interactions with human physiology**
Vincenzo Valenzi, CIFA, Italy
- 15:20-15:40 **Recovery of Agriculture and Biodiversity for the protection of the Climate**
Gualtiero A.N. Valeri, CIFA, Switzerland

15:40-15:50 Panel Discussion

Coffee Break: 15:50-16:10 @ Postiguet

Workshop on "Creating a Cubic Cloud: Microclimatic phenomena into nanoporous materials"

Chair: Ioannis Michaloudis, Kingdom University, Bahrain

16:10-17:30: Oral Presentaitons and discussion

11:00 -13:00 Poster Presentations @ Almirante

Day 3 June 18, 2015

08:30-09:00 Registrations

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Track 7: Environmental and Marine Sciences

Track 9: Environmental Management Ethics

Session Chair: Paul Comet, Comet Environmental Consulting, USA

Session Co-chair: Cedo Maksimovic, Imperial College London, UK

Session Introduction

- 09:00-09:20 **Sand lizard phenology in a warming world-positive fitness effects of climate change through phenotypic plasticity and genetic evolution**
Gabriella Ljungstrom, University of Gothenburg, Sweden
- 09:20-09:40 **Salvation by waste**
Paul Comet, Comet Environmental Consulting, USA
- 09:40-10:00 **Sustainable environment-challenges with future vision**
Sudhir Kumar Tewatia, Inderprastha Engineering College, India
- 10:00-10:20 **The relevance of background systems on the carbon footprint of municipal solid waste management**
Adele Clausen, RWTH Aachen University, Germany
- 10:20-10:40 **Integrated planning for urban sustainability and resilienceto climate change and weather extremes: Blue Green Dream's integrated interactions**
Cedo Maksimovic, Imperial College of London, UK

Coffee Break: 10:40-11:00 @ Postiguet

- 11:00-11:20 **The role of landscape in diamate formation (Samskhe Javakheti region, Georgia)**
Lamzira Lagidze, Iv. Javakhishvili Tbilisi State University, Georgia
- 11:20-11:40 **Sorghum as lignocellulosic biomass for biofuel production**
Tanmay V Kotasthane, Jawaharlal Nehru Technological University, India
- 11:40-12:00 **Tsunami Hazard Assessment along the Coast of Lingayen Gulf, Pangasinan, Philippines**
Julius Galdiano, University of the Philippines, Philippines
- 12:00-12:20 **Characterisation of dust fallout around the city of Tshwane in South Africa**
Shadung J Moja, University of South Africa, South Africa

12:20-12:30 Panel Discussion

Lunch Break: 12:30-13:30 @ Postiguet

13:30-15:00 Closing Ceremony