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778th Conference

Scientific Program

World Conference on

CLIMATE CHANGE

October 24-26, 2016 Valencia, Spain



Hosting Organizations: Conference Series LLC

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Day 1 October 24, 2016

08:00-08:30 Registrations

Valentia A

conferenceseries.com **08:30-08:55** Opening Ceremony

Keynote Forum

08:55-09:00 Introduction

09:00-09:25
Title: 4.5 to 7.8°C global surface warming from today's CO2 and CH4 levels
Gene Fry, Energy Efficiency & Global Warming Consultant, USA

09:25-09:50
Title: 'Sizing' heterogeneous chemistry in the conversion of gaseous dimethyl sulfide to atmospheric particles
Agustin J Colussi, California Institute of Technology, USA

09:50-10:15
Title: Wildland fire and climate change
Jaime Senabre, University of Alicante, Spain

Group Photo

Coffee Break @ Foyer Business Center 10:15-10:30

10:30-10:55
Title: Mindfulness-based health-enhancement and carbon footprint reduction
Bruce Barrett, University of Wisconsin, USA

10:55-11:20
Title: Coal combustion byproducts recycling and utilization for sustainable solutions to cliamte change
Ahn Ji Whan, Korea Institute of Geosceinces and Mineral Resources, Korea

11:20-11:45
Title: On the issue of increasing carbon dioxide concentrations and global climate change
Frederick House, Emeritus, Drexel University, USA

11:45-12:10
Title: Causes and effects of climate change
Nils-Axel Morner, Emeritus, Stockholm University, Sweden

Session:
Climate Change Challenges | Climate Change and Health | Climate Change Law and Policy

Session Chair: Nils-Axel Morner, Stockholm University, Sweden
Session Co-Chair: Gregg B Walker, Oregon State University, USA

Session Introduction

12:10-12:30
Title: Climate change events induced risk assessment and mapping and a potential insurance policy
Ionut Purica, AOSR and Universitatea Hyperion Bucharest, Romania

12:30-12:50
Title: Water into wine: Irrigation in viticulture
Linda Johnson-Bell, The Wine and Climate Change Institute, England

Lunch Break @ Bottom Restaurant 12:50-13:30

13:30-13:50
Title: Risk adaptation space of water resources to climate change in china's city agglomeration under construction
Minghao Bai, Hohai University, China

13:50-14:10
Title: The problem of the desert areas: Agroforestry recovery of the same and influence of this on climate
Gualtiero A.N. Valeri, University St. Rita of Rome, Italy

14:10-14:30
Title: A data mining approach to elucidate the relationships between air pollution and respiratory diseases in big cities
Fabio Teodoro de Souza, Pontifical Catholic University of Parana, Brazil

14:30-14:50
Title: Integrating the Technical and Human Dimensions of Climate Change: Communication, Culture, Conflict, and Collaboration
Gregg B Walker, Oregon State University, USA

14:50-15:10
Title: Physical, (sociological) and societal health and public perceptions in a likely climate change scenario: Wastewater and coastal agriculture
Graciela I Ramireztoro, Universidad Interamericana de Puerto Rico, Puerto Rico

15:10-15:30
Title: Economic valuation of the biodiversity-related changes in ecosystem services of the arctic caused by climate change
Hyo-Sun Kim, Korea Polar Research Institute, Korea

Coffee Break @ Foyer Business Center 15:30-15:50

15:50-16:10
Title: Pricing of carbon and funding of low carbon transition under a 20C regime
Bose Varghese, Infosys Limited, India

16:10-16:30
Title: Urbanization and its effects on water scarcity in the Islamic Republic of Iran: A retrospective cohort study
Mehrdad Farrokhi, University of Social Welfare and Rehabilitation Sciences, Iran

16:30-16:50	**Title: Impacts of Climate change on meningitis epidemics in the western african sahel: Enhanced threats or part of the solution?** **Abdelkrim Ben Mohamed,** Universite Abdou Moumouni, Niger
	Young Reseach Forum
16:50-17:05	**Title: Climate change impact assessment on artificial wetlands** **Carla Idely Palencia-Aguilar,** Lund University, Sweden
17:05-17:20	**Title: Climate change as a challenge to indigenous food security** **Pooja Pant,** City University of Hong Kong, Hong Kong
17:20-17:35	**AR5-based climate change impact analysis on water resources in Asia monsoon region** **Jeong-Bae Kim,** Sejong University, Korea
	Panel Disscussion

	Breakout 1
	Melia Meeting 6
	Session: **Climate Change & Climatology | Pollution and its Effects on Climate**
	Session Chair: Roelof D Schuiling, Utrecht University, The Netherlands **Session Co-Chair: Bernhard G Pummer,** Max Planck Institute for Chemistry, Germany
	Session Introduction
12:10-12:30	**Title: Regional features and the late 1990s'change in the Northern Hemisphere sea ice trends** **Renguang Wu,** Institute of Atmospheric Physics, CAS, China
12:30-12:50	**Title: The role of climate model data and long-term data archives in climate change research** **Martina Stockhause,** German Climate Computing Centre, Germany
12:50-13:10	**Title: Let the Earth help us to save the Earth** **R D Schuiling,** Utrecht University, The Netherlands
	Lunch @ Bottom Restaurant13:10-13:50
13:50-14:10	**Title: The interdecadal change of wintertime climate over East Asia** **Xiaojing Jia,** ZheJiang University, China
14:10-14:30	**Title: Satellite Technologies for climate change mitigation in forest ecological monitoring** **Marika Tatishvili,** Georgian Technical University, Georgia
14:30-14:50	**Title: Quasi-biweekly oscillation of East Asian winter monsoon and its relationship with East Asian winter climate** **Yunting Qiao,** Sun Yat-sen University, China
14:50-15:10	**Title: Inter-decadal changes in the East Asian summer monsoon and associations with sea surface temperature anomaly in the South Indian Ocean** **Zhiping Wen,** Sun Yat-sen University, China
15:10-15:30	**Title: On the relationship between Intertropical Convergence Zone ITCZ variability over Indian Ocean and hurricane Chapala** **Yehia Hafez,** King Abdulaziz University, Saudi Arabia
15:30-15:50	**Title: Biological ice-nucleating macromolecules in the atmosphere** **Bernhard G Pummer,** Max Planck Institute for Chemistry, Germany
15:50-16:10	**Title: Development of uncertainty reduction method for climate change impact assessment on high dam inflow** **Moon-Hwan Lee,** Sejong University, South Korea
	Coffee Break @ Foyer Business Center 16:10-16:30
	Young Reseach Forum
16:30-16:45	**Title: Spatial-temporal analysis of climate change and influence of the Mediterranean sea on a viticulture site Valencia DO** **Igor Sirnik,** University of Rennes, France
16:45-17:00	**Title: Evapotranspiration over Mediterranean coastal grassland - Bridging the gap between satellite and experimental data** **Trepekli Aikaterini,** Democritus University of Thrace, Greece
	Workshop
17:00-17:45	**Title: Adaptation and resilience building for human activities to cope with climate change and variability** **Christopher R Bryant,** Universities of Montreal, Canada
	Panel Disscussion

Day 2: October 25 2016

Valentia A

Keynote Forum

09:00-09:25	**Title: Pathways to net-zero carbon emissions** **Douglas Ray,** Pacific Northwest National Laboratory, USA
09:25-09:50	**Title: Current and future satellite observations of aerosol types affecting human health** **Olga V Kalashnikova,** Jet Propulsion Laboratory, California Institute of Technology, USA
09:50-10:15	**Title: Photosynthetic acclimation and enhanced crop productivity in response to climate change: The grand design of photosynthesis** **Norman P A Huner,** University of Western Ontario, Canada
10:15-10:40	**Title: Monitoring trends in EU CO2 emissions: A carbonization index through divisia index** **Paula Fernandez Gonzalez,** University of Oviedo, Spain

Coffee Break @ Foyer Business Center 10:40-11:00

11:00-11:25	**Title: Marine heat waves: Definitions, drivers, and global trends** **Neil Holbrook,** University of Tasmania, Australia
11:25-11:50	**Title: Adaptation technology of infrastructure under climate change** **Sangseom Jeong,** Yonsei University, Korea

Session:
Global Warming Effects and Causes | Climate Change: Biodiversity Scenarios | Climate Hazards | Effective Adaptation

Session Chair: Christopher Bryant, Universities of Montreal, Canada
Session Co chair: Getachew Agegnehu, James Cook University, Australia

Session Introduction

11:50-12:10	**Title: Climate change and global food security in the face of other stressors: The challenges for agricultural transformation, adaptation and conservation** **Christopher Bryant,** Universities of Montreal, Canada
12:10-12:30	**Title: Changes in geographical distribution of plant species as a response to climatic change on the West Cornwall Peninsula (South West England)** **Aleksandra (Sasha) Kosanic,** University of Konstanz, Germany
12:30-12:50	**Title: Impacts of climate change on animal farming in the Mediterranean region** **Nazan Koluman Darcan,** Cukurova University, Turkey

Lunch @ Bottom Restaurant 12:50-13:30

13:30-13:50	**Title: Green walls used as a low-input technology to cool buildings in the Mediterranean area** **Salvatore La Bella,** University of Palermo, Italy
13:50-14:10	**Title: Biochar, compost and biochar-compost: Influences on yield performance, soil qualityand greenhouse gas emissions in agricultural soils** **Getachew Agegnehu,** James Cook University, Australia
14:10-14:30	**Title: Potential changes in plant species place distribution induced by climatic pattern changes** **Marian Mierla,** Danube Delta National Institute for Research and Development, Romania
14:30-14:50	**Title: Possible changes of the brown trout habitat suitability in the upper Po basin due to global change** **Annalina Lombardi,** University of L'Aquila, Italy
14:50-15:10	**Title: Causes for variable greening responses to warming detected in alpine grasslands on the Tibetan Plateau** **Tianxiang Luo,** Chinese Academy of Sciences, China
15:10-15:30	**Title: Climate change adaptation (CCA) measures in industrial areas of Telangana state from India – A pilot study** **Rajani Ganta,** Integration Environment & Energy GmbH, India
15:30-15:50	**Title: The inevitability of a role for geoengineering in the post-Paris climate change landscape** **Clare James,** University College London, UK

Coffee Break @ Foyer Business Center **15:40-16:10**

16:10-16:30	**Title: Individual and societal-level consequences of global warming media use and energy saving and carbon reduction coverage** **Huiping Huang,** National Chiao Tung University, Taiwan
16:30-16:50	**Title: Developing optimal diffuse pollution management strategies in an agricultural watershed under future climate change** **Dong Jin Jeon,** Gwangju Institute of Science and Technology, Korea
16:50-17:10	**Title: Farmer climate change adaptation in the West African Sudan Savannah: Reality check and feasible approaches** **Daniel Callo-Concha,** University of Bonn, Germany

Young Reseach Forum	
17:10-17:25	**Title: Projection of drought characteristics according to future climate and hydrological changes in the Korean Peninsula** **Jae-Min So,** Sejong University, Korea
17:25-17:40	**Title: A case study on determining real-time landslide early warning level by sequentially applying ERI and infiltration-slope stability coupled model** **Deuk-Hwan Lee,** Korea Advanced Institute of Science and Technology, Korea
17:40-17:55	**Title: Beyond reinventing adobe as a building material: A new paradigm in anthropocene** **Olukoya Obafemi A P,** Brandenburg Technical University, Germany
17:55-18:10	**Title: Land use exposure analysis in the occurrence of a storm surge event** **Alyosha Ezra C Mallari,** University of the Philippines, Philippines
18:10-18:25	**Title: Susceptibility assessment of climate change-induced geo-disasters in South Korea** **Moonhyun Hong,** Yonsei University, Korea
18:25-18:40	**Title: Past and future changes in trees spring phenology in Lithuania under changing climate conditions** **Irma Sveikauskaite,** Vytautas Magnus University, Lithuania
18:40-18:55	**Title: Hurricanes occurrence in the Gulf of Mexico and Caribbean Sea and its relationship with sunspots** **Berenice Rojo-Garibaldi,** Universidad Nacional Autónoma de México, Mexico
Panel Disscussion	

Breakout 1	
Melia Meeting 6	
Session: Evidence of Climate changes | Sustainability & Climate Change | Risks of Climate Change	
Session Chair: Denyse Lemaire, Thomas Edison University, USA **Session Co chair: Grahame Oliver,** Nanyang Technological University, Singapore	
	Session Introduction
09:00-09:20	**Title: Relationship of polycyclic aromatic hydrocarbons with algae-derived organic matter in sediment cores from a subtropical region** **Yong Ran,** Chinese Academy of Sciences, China
09:20-09:40	**Title: Faster increases in apparent than air temperature under climate warming** **Yongqin David Chen,** The Chinese University of Hong Kong, Hong Kong
09:40-10:00	**Title: Towards climate-resilient cities in Israel: Local planning and building measures** **Tamar Trop,** University of Haifa, Israel
10:00-10:20	**Title: Historical and RCM future trends in Northern Tuscany (Italy)** **Maria Giovanna Tanda,** University of Parma, Italy
10:20-10:40	**Title: The confluence of scholarly prediction and popular experience related to global climate change in the wine producing region of Burgundy, France** **Denyse Lemaire,** Salish Kootenai College, USA
	Coffee Break @ Foyer Business Center 10:40-11:00
11:00-11:20	**Title: Spatiotemporal variability of climate change in the Free State province of South Africa** **Geoffrey Mukwada,** University of the Free State, South Africa
11:20-11:40	**Title: Effect of climate warming on neutral carbohydrates in sediment cores of subtropical reservoirs, South China** **Yong Ran,** Chinese Academy of Sciences, China
11:40-12:00	**Title: Uncertainty on the Global-Warming trend under long-range correlation** **Yee Leung,** The Chinese University of Hong Kong, Hong Kong
12:00-12:20	**Title: Prognosis of climate change effects in Bangladesh** **Golam Newaz,** Wayne State Univeristy, USA
12:20-12:40	**Title: The impact of climate change in meeting water demands in the Chira-Piura basins, Peru** **Chavez-Jimenez Adriadna,** University of Piura, Peru
12:40-13:00	**Title: Storm stranded coral boulders and sea level changes around Thailand since the mid-Holocene** **Grahame Oliver,** Nanyang Technological University, Singapore
	Lunch @ Bottom Restaurant 13:00-13:40
13:40-14:00	**Title: The long-term adaptation scenarios flagship research program (LTAS) for South Africa** **Faith Nkohla,** Department of Environmental Affairs, South Africa
14:00-14:20	**Title: Coupled soil and water conservation and rainfed agriculture system to cope with climate change in semiarid Africa and China** **You-Cai Xiong,** Lanzhou University, China
14:20-14:40	**Title: Mapping potential sources of water using geophysical methods** **Edgar Monroy,** Agrarian University Foundation of Colombia, Colombia

14:40-15:00	**Title: Efficacy of managed aquifer recharge to reduce the impact of climate change on coastal aquifers** **Michele Vurro**, Consiglio Nazionale delle Ricerche, Italy
15:00-15:20	**Title: Mitigation technologies of Non-CO2 greenhouse gas emission in Korea** **Byung Chul Shin**, GreenConTech Co., Korea
15:20-15:40	**Title: Climate scenarios in China, with improved accuracy** **Tian Xiang Yue**, Institute of Geographical Sciences and Natural Resources Research, China
	Coffee Break @ Foyer Business Center 15:40-16:00
	Young Reseach Forum
16:00-16:15	**Title: Governance of land security and climate-induced relocation in the Pacific region** **Dalila Gharbaoui**, University of Liege, Belgium
16:15-16:30	**Title: Will extremes become the norm under future climate change?** **Renalda El-Samra**, American University of Beirut, Lebanon
16:30-16:45	**Title: Environmental change-migration nexus in the Philippines: Overcoming limitations and filling in the gaps** **Elena Giacomelli**, University of Trento, Italy
	Poster Presentations 13:00-15:00 @ Foyer Business Center
	Session Judge 1: Bruce Barrett, University of Wisconsin, USA **Session Judge 2: Christopher Bryant**, Universities of Montreal, Canada
CC1	**Title: Variations of geoid undulations from satellite data of GRACE for Israel and surrounding countries** **Jaroslav Klokocnik**, Czech Academy of Sciences, Czech Republic
CC2	**Title: Improving techniques for watershed water cycle to adapt to climate change and variation** **Cheolhee Jang**, Korea Institute of Civil Engineering and Building Technology, Korea
CC3	**Title: Precipitation over Zhejiang, Fujian and Jiangxi of China in June: Climatology** **Guoqing Zhai**, Zhejiang University, China
CC4	**Title: Trend and seasonality of land precipitation in observations and CMIP5 model simulations** **Xiaofan Li**, Zhejiang University, China
CC5	**Title: Evolutions of the circulation anomalies and the quasi-biweekly oscillations associated with extreme heat events in South China** **Ruidan Chen**, Sun Yat-sen University, China
CC6	**Title: Impact of global warming on aquifer-river interactions under groundwater intensive use: Mancha Oriental Aquifer, Spain** **Iordanka Dountcheva**, University of Castilla – La Mancha, Spain
CC7	**Title: Inter-annual variability of wintertime monthly surface air temperature in China** **Maoqiu Jian**, Sun Yat-sen University, China
CC8	**Title: Run-up of solitary waves on variable slopes** **Yong-Sik Cho**, Hanyang University, Korea
CC9	**Title: Sustainable energy used in wastewater treatment. Removal of dyes** **P Negrea**, Politehnica University Timisoara, Romania
CC10	**Title: Effects of various ecological factors on process-based ecological model behavior uncertainty** **Yin Ren**, Chinese Academy of Sciences, China
CC11	**Title: Impacts of climate change on the grape production in Tokaj Wine Region** **Zoltan Bihari**, Research Institute for Viticulture and Oenology, Hungary
CC12	**Title: Close correlations of the air temperature with the earth length of day in the interdecadal time scale** **Wenjing Shi**, Chinese Academy of Sciences, China
CC13	**Title: Destruction of removal efficiency measuring methodology of POU scrubber for semiconductor and electronics industries** **Woo Chan Lee**, Korea Testing Laboratory, Korea
CC14	**Title: Temperature effects on larval growth and survival in five species of *Caribbean Echinoids*** **Valentina Perricone**, Smithsonian Tropical Research Institute, Italy
CC15	**Title: Effects of acute temperature increase on performance and survival of *Caribbean Echinoids*** **Francesco Rendina**, Smithsonian Tropical Research Institute, Italy
CC16	**Title: Less heating, but more cooling - How will European countries be affected by climate induced changes in the energy demand of buildings?** **Mady Olonscheck**, University of Potsdam, Germany
CC17	**Title: Capture of carbon dioxide by TiO2 modified amines** **Ewa Pirog**, West Pomeranian University of Technology, Poland
CC18	**Title: CO2 adsorption over ammonia treated zeolite 13X** **A Gesikiewicz-Puchalska**, West Pomeranian University of Technology, Poland

CC19	**Title: Comparison of the temporal variability of summer temperatures and rainfall in southern Quebec during the 1950-2010 period** **Anthony Pothier-Champagne**, University of Quebec in Trois-Rivieres, Canada
CC20	**Title: Diurnal sap flow measurements and climatic responses of a species growing in a Mediterranean shrub land** **Judith Lize Arnolds**, South African National Biodiversity Institute, South Africa
CC21	**Title: Forecasting about variations of hydro-meteorogical variables in the future using SVAT model and RCP scenarios** **Daeun Kim**, Hanyang University, Korea
	Panel Disscussion

Day 3: October 26 2016

Valentia A

Session:
CO_2 Capture and Sequestration | Carbon cycle | Climate Change & Coastal Stressors | Renewable Energy to Mitigate Climate Change | Solutions for Climate Change

Session Chair: Dou Hongen, Research Institute of Petroleum Exploration and Development, China
Session Co chair: Carlos A. Gracia, University of Barcelona, Spain

	Session Introduction
09:00-09:20	**Title: Status and prospect on CO2 capture and sequestration in China** **Dou Hongen**, Research Institute of Petroleum Exploration and Development, China
09:20-09:40	**Title: Laboratory scale monitoring of CO2 sequetartion using complex electrical conductivity and seismic property changes derived by seismic interferometry** **Ranajit Ghose**, Delft University of Technology, The Netherlands
09:40-10:00	**Title: Challenges in global CCS projects and coping strategy** **Hu Yongle**, Research Institute of Petroleum Exploration and Development, China
10:00-10:20	**Title: Sequestration of atmospheric carbon dioxide as inorganic carbon in the unsaturated zone of semi-arid forests** **Murray Moinester**, Tel Aviv University, Israel
10:20-10:40	**Title: Differentiated CO2 efflux in the mycorrhizosphere of rice cultivated in paddy soil** **Lili Wei**, Chinese Academy of Science, China
	Coffee Break @ Foyer Business Center 10:40-11:00
11:00-11:20	**Title: Carbon stocks and fluxes in the Andean treeline of Polylepis reticulata in Ecuador: Present balance and projected values for the XXI century** **Carlos A Gracia**, University of Barcelona, Spain
11:20-11:40	**Title: Photocatalytic reduction of carbon dioxide by means of different titania-based catalysts synthesized with high pressure fluids** **Rafael Camarillo Blas**, University of Castilla-La Mancha, Spain
11:40-12:00	**Title: Advanced electronics for space and studies on climate change** **Jose Sanchez Del Rio**, Alter Technology, Spain
12:00-12:20	**Title: Framework agreement on climate change and humans responsibilities** **Zeynep Zaimoglu**, Cukurova University, Turkey
12:20-12:40	**Title: Use of Satellite Imagery, Remote Sensing and GIS Related Technologies to improve sustainability of marine ecosystems. Special reference to Copernicus /MyOcean program** **Jordi Sandalinas**, Toulouse 1 Capitole University, France
	Lunch @ Bottom Restaurant 12:40-13:20
	Young Reseach Forum
13:20-13:35	**Title: Study of ash removal from activated carbon and its result on CO2 sorption capacity** **Michal Zgrzebnicki**, West Pomeranian University of Technology, Poland
13:35-13:50	**Title: Reed biomass carbon sequestration potential within the Danube Delta Biosphere Reseve** **Marian Mierla**, Danube Delta National Institute for Research and Development, Romania
13:50-14:05	**Title: CO2 EOR and sequestration technologies in Petro China** **Mingqiang Hao**, PetroChina Research Institute of Petroleum Exploration & Development, China
14:05-14:20	**Title: Cost-Risk trade-off of solar radiation management and mitigation-considering regional disparities under Long-Tailed climate sensitivity probability density distributions** **Elnaz Roshan**, University of Hamburg, Germany
14:20-14:35	**Title: Decarbonizing the global economy – An integrated assessment of low carbon emission scenarios** **Mohammad Mohammadi Khabbazan**, University of Hamburg, Germany
14:35-14:50	**Title: China's participation in climate change negotiation** **Chime Youdon**, Jawaharlal Nehru University, India
	Panel Disscussion
	Coffee Break @ Foyer Business Center 14:50-15:20
	Awards & Closing Ceremony