



Tentative Program

Environmental and Energy Resources Management Summit

November 09-11, 2017

Venue

Sheraton Reston Hotel
11810 Sunrise Valley Dr, Reston
VA 20191, USA

Day 1 | November 09, 2017

07:00-08:45 **Onsite Registrations**

08:45-09:00 **Introduction EES 2017**

09:00 - 11:55 **Keynote Speakers**

09:00-09:40 **New U.S. Power Costs: by County, with Environmental Externalities**
Fred C. Beach, Energy Institute, University of Texas, TX, USA

09:40-10:20 **TBD**
Margaret A. Palmer, University of Maryland, MD, USA

10:20-10:35 Coffee Break

10:35-11:15 **TBD**
Michael Flickinger, North Carolina State University, NC, USA

11:15-11:55 **TBD**
Lidia Morawska, Queensland University of Technology, QLD, Australia

*** Energy Resource Management ***

*** Biofuels, Renewable Energies; Climate Change * Advanced Energy Techniques and Its Applications**

11:55-12:15 **Synthetic Biochemistry: Making Biofuels the Cell-free Way**
James Bowie, University of California, CA, USA

12:15-12:35 **Population and Climate Change: How Family Planning Can Halt an Imminent Environmental Crisis**
Malcolm Potts, OASIS Initiative, CA, USA

12:35-12:55 **Bioplastics and Drop-in Transportation Fuels from Carbon Dioxide and Solar Hydrogen**
Jian Yu, University of Hawaii at Manoa, HI, USA

12:55-13:30 Lunch break

13:30-13:50 **Plasma Assisted Combustion of Hydrogen and Small Hydrocarbons**
Andrey Starikovskiy, Princeton University, NJ, USA

13:50-14:10 **Improving Energy and Environmental Decisions with Spatiotemporal Analyses**
Sarah Mari Jordaán, Johns Hopkins University, MD, USA

14:10-14:30 **Evaluation of the Potential of Corn Corbs and Defective Coffee Beans in the Production of Biochars**
Adriana S. Franca, DEMEC/Universidade Federal de Minas Gerais, MG, Brazil

14:30-14:50 **High Efficiency Air-Stable Hybrid Solar Cells Fabricated with Graphene and Metal Oxide Based Nanocomposites**
Yoon-Bong Hahn, Chonbuk National University, Jeollabuk-do, South Korea

- 14:50-15:10 **Biodiesel Production Using Fatty Acids From Food Industry Waste Using Corona Discharge Plasma Technology**
Marina de Medeiros Machado, Universidade Federal de Santa Catarina - UFSC, SC, Brazil
- 15:10-15:30 **Sulfonated Activated Waste Carbon Material as Heterogeneous Catalyst for the Production of Biodiesel**
Leandro S. Oliveira, DEMEC/Universidade Federal de Minas Gerais, MG, Brazil
- 15:30-15:50 **Cost Per Person of Energy and Nutrition Sufficient to Sustain Healthy Adult Activity: Trends 1999-2015**
Ian MacFarlane, Biclub Associates, UK
- 15:50-16:10 **Characterizing and Accounting for Temporal Impacts of Carbon Emissions**
Evan Sproul, Colorado State University, CO, USA
- 16:10-16:30 Coffee Break**
- 16:30-16:50 **Effect of Litter Density and Foot Health Program on Ammonia Emissions in Broiler Chickens**
Joel Velasco, Universidad de Córdoba, Mexico
- 16:50-17:10 **Using the Tools of Genomics, Transcriptomics, and Genetic Engineering to Manipulate Plant Metabolism for Increased Nitrogen and Carbon Assimilation**
Subhash C. Minocha, University of New Hampshire, NH, USA
- 17:10-17:30 **Diamonds from the Sky to Mitigate Climate Change: Incentivized Greenhouse Gas Removal by its Transformation to Valuable Commodities**
Stuart Licht, George Washington University, Washington, DC, USA
- 17:30-17:50 **NexusHaus**
Michael Garrison, The University of Texas at Austin, TX, USA
- 17:50-18:10 **Biogas Production from Food Wastewater Using Intermittent Feeding**
Hojae Shim, University of Macau, Macau SAR, China

Day 2 | November 10, 2017

* Pollution *

* Persistent Organic Pollutants: fate, occurrence and effects * Air Pollutants; Hazardous Emissions; Risk Assessment * Ecotoxicology; Environmental Analytical Chemistry

- 10:00-10:20 **Ozone Interactions With Human Skin and Clothing in Indoor Environments**
Donghyun Rim, Penn State University, PA, USA
- 10:20-10:40 **Application of Highly Sectorial Resolved Emission Inventories of Air Pollutants**
Shu Tao, Peking University, Beijing Shi, China
- 10:40-11:00 Coffee Break**

- 11:00-11:20 **Risk of Shallow Tubewells related to Microbial Contamination of Drinking Water in rural Bangladesh: A challenge to SDGs**
Nepal C. Dey, BRAC, Bangladesh, India
- 11:20-11:40 **An Innovative and Sustainable Approach – Integrated Emission Management System to Achieve Emission Reduction Targets**
Hon Yeung Chan, The Hongkong Electric Co., Ltd, Hong Kong
- 11:40-12:00 **Relationship Between Climatic Factors and Air Quality With Tuberculosis in the Federal District, Brazil, 2003-2012**
Fernanda Monteiro de Castro Fernandes, Universidade de Brasília, SC, Brazil
- 12:00-12:20 **TBD**
Maria do Socorro Nantua Evangelista, Universidade de Brasília, SC, Brazil
- 12:20-12:40 **Legionella Air Contamination Inhealthcare Facilities by Different Sampling Methods: An Italian Multicenter Study**
Claudia Pacifico, University of Bari Aldo Moro, Bari BA, Italy
- 12:40-13:30 Lunch break**
- 13:30-13:50 **The Dilema – Chosing Between Energetically Efficient and Healthy Illumination**
Abraham Haim, University of Haifa, Haifa, Israel
- 13:50-14:00 **Biomarkers as a Measure of the State of Marine Environment**
MirzaUmair Beg, Kuwait institute for Scientific Research, Kuwait
- 14:00-14:20 **Toxicant Exposure Marker Discovery Using Different Mass Spectrometry-Based Metabolomics Data Processing Methods**
Pao-Chi Liao, National Cheng Kung University, Taiwan
- 14:20-14:40 **A Review of Measurements and Health Assessment of Natural Radioactivity in Granites, Cement and Sand Used as Building Materials in Lebanon**
Mohammed A. Kobeissi, The Lebanese National Council for Scientific Research, Lebanon
- 14:40-15:00 **Assessment of Population Dosimetry in area of highest age adjusted incidence rate of cancer in India**
Zoliana Bawitlung, Government Zirtiri Residential Science College, Mizoram, India
- 15:00-15:20 **Heat storage and release process of building envelope integrated with phase change material during intermittent heating process**
Enshen Long, Sichuan University, Sichuan Sheng, China
- 15:20-15:40 **The Influence of Air Pollution On Health Impacts: The Futurar Project Assessment**
Ana Mendes, EPIUnit - University of Porto Institute of Public Health (ISPUP), Porto, Portugal
- 15:40-16:00 Coffee Break**

16:00-16:20 **Enhanced Photocatalytic Decomposition Effect of Lanthanum Oxide Doped Cerium Oxide Nanostructures Driven by Visible Light Irradiation**
Jeyaraj Boniface, St. Xavier's College, Tirunelveli, India

Day 3 | November 11, 2017

*** Environment Management & Treatment ***

***Environmental Management; Modeling of ecosystems * Biological Treatment; Water Resources Management**

10:00-10:20 **Life-Cycle Assessment of High-Strength Concrete Mixtures with Copper Slag as Sand Replacement**

Aysegul Petek Gursel, University of California, CA, USA

10:20-10:40 **Water and Electricity In India: A Multi-Model Study of Future Challenges and Linkages to Climate Mitigation**

Nazar Kholod, Joint Global Change Research Institute, MD, USA

10:40-11:00 *Coffee Break*

11:00-11:20 **An Integrated Solid Waste Stream Interface Management Framework**

Ruhiiga Tabukeli M, North West University, South Africa

11:20-11:40 **Waste as a Resource: A Territorial Approach for a Multilevel Management**

Audrey Tanguy, The Experimental Station for Environmental Pilot Processes (STEPPE-ÉTS), Montréal, Canada

11:40-12:00 **Role of Plant Species in Bioremediation of Heavy Metals from Polluted Areas, Spotlight on Wetlands-Challenges and Perspectives**

Mayerly Alexandra Oyuela Leguizamo, Universidad Distrital Francisco José de Caldas, Bogotá, Colombia

12:00-12:20 **Reconfiguration of Economic Structure to Reduce Carbon Emissions and Air Pollutants Using a Quasi-Dynamic Input-Output Model**

Xue Fu, Nanchang University, Jiangxi, China

12:20-12:40 **Water Balance Estimation of Ephemeral Ponds for Irrigation Potential in Semi-Arid Environments, North West Province, South Africa**

Lobina G. Palamuleni, North-West University, South Africa

12:40-13:30 *Lunch*

Note: The above program may have some changes in the final program