

4<sup>th</sup> International Conference on

# Green Energy & Expo

&

6<sup>th</sup> International Conference on

# Recycling: Reduce, Reuse, Recycle

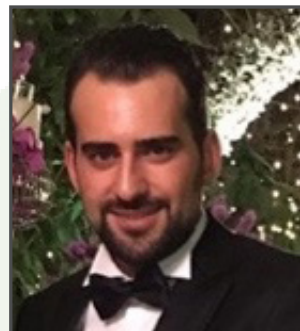
November 06-08, 2017 | Las Vegas, USA

## Moderator

**Thank You for supporting Green Energy 2017**



**Gupta M**  
Rensselaer  
Polytechnic Institute,  
USA



**Nima Moazami**  
University of  
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# Opening Ceremony

- 09:30-10:00** Title: **Conversion of landfill gas to drop-in renewable liquid**  
Babu Joseph, University of South Florida, USA
- 10:00-10:30** Title: **A systemic approach to cybersecurity**  
Erfan Ibrahim, NREL, USA
- 10:30-11:00** Title: **FastOx gasification: An integrated solution to zero waste**  
Mike G Hart, Sierra Energy, USA

**Group Photo & Networking & Refreshment Break 11:00-11:20 @ Foyer**

Sessions: Renewable Energy | Bioenergy | Biofuels | Green Technology | Energy and Environment | Biomass | Materials for Energy and Environmental Sustainability | Energy storage & conservation

Session Chair: Babu Joseph, University of South Florida, USA

Session Co-chair: Rajesh Karki, University of Saskatchewan, Canada

**Session Introduction**

11:20-11:40	Title: <b>Architecture and technology: Opportunities and challenges for zero emission buildings</b> Benjamin Welle, Perkins+Will, USA
11:40-12:00	Title: <b>Perceptions and preferences about energy and environmental Costs: The case of Montreal transport users</b> Omid M Rouhani, McGill University, Canada
12:00-12:20	Title: <b>Palm oil extraction revolutionary technology</b> José Marques, IncBio, Portugal
12:20-12:40	Title: <b>Energy storage for renewable energy implementation (trend and future expectation of energy storage)</b> Andrew Kwon, Destin Power Co, Korea
12:40-13:00	Title: <b>Human evolution vs extinction</b> Gianna J Link, Cornell University Medical College, USA

**Panel Discussion**

**Lunch Break 13:00-13:40 @ Renaissance III**

13:40-14:00	Title: <b>Japanese challenge of introducing renewable energies: Policy, economics, technology and reaction of existing electric power companies</b> Akihiro Kogure, LTR Partners, Japan
14:00-14:20	Title: <b>The present and future of renewable energy in New York and the United States</b> August Donat Wojtkiewicz, LeoVera, USA
14:20-14:40	Title: <b>Energy: You don't know what you've got 'till it's gone?</b> Derek Quinn, Why Energy LLC, USA
14:40-15:00	Title: <b>Economic impacts of producing renewable aviation fuel from cover crops: A case study using pennycress as the feedstock</b> Burton C English, University of Tennessee, USA
15:00-15:20	Title: <b>Renewable energy and energy efficiency: Lessons for US from Europe</b> Eshagh Yazdnhassenas, Global Engineering Solutions, USA
15:20-15:40	Title: <b>Reliability implications of diversifying wind power resources</b> Rajesh Karki, University of Saskatchewan, Canada
15:40-16:00	Title: <b>Contemporary development and sustainability indicators at the Royal Commission of Yanbu</b> Ayedh Ahmed Al-Shehai, Royal commission of Ynabu, Saudi Arabia

**Panel Discussion**

**Networking & Refreshment Break 16:00-16:20 @ Foyer**

16:20-16:40	Title: <b>Revolutionary battery regeneration technology</b> Young-Joon Yu, Repowertek Inc., Korea
16:40-17:00	Title: <b>Plantain-based integrated bio refinery</b> Ogunsuyi Helen, Federal University of Technology, Nigeria
17:00-17:20	Title: <b>Expression of enzymes in E. coli to produce biofuels</b> Gupta M, Rensselaer Polytechnic Institute, USA
17:20-17:40	Title: <b>Energy technology assessment and prioritization integrated AHP and TOPSIS approach: In case of low oil prices and present nuclear power plant</b> Seongokn Lee, Korea Institute of Energy Research, Korea
17:40-18:00	Title: <b>Modeling and advanced control of fully coupled wave energy converters subject to constraints: The wave-to-wire approach</b> Liguo Wang, Uppsala University, Sweden

**Panel Discussion**

## Keynote Forum

09:00-09:30	<b>Registrations</b>
09:30-10:00	<b>Title: Green economy? from smart-city business battle view in Asia</b> <b>Hisakazu Okamura</b> , Asia University, Japan
10:00-10:30	<b>Title: Bringing energy-efficient building solutions to the North American and Asian markets</b> <b>Merritt T Cooke</b> , China Partnership of Greater Philadelphia, USA
10:30-11:00	<b>Title: Plastics recycling opportunities and challenges in India: Waste to wealth and "5rs" in plastics recycling</b> <b>Ginu Joseph</b> , Modern Plastics India, India

Networking &amp; Refreshment Break 11:00-11:20 @ Foyer

## Sessions:

Sustainable Energy Policies | Recycling | Green Economy | Smart Grid | Waste Management | Recycling Solid Waste | Recycling Organic Waste Recycling | E- Waste Recycling | Waste Water Recycling | Plastic Recycling

Session Chair: **Burton C English**, University of Tennessee, USASession Co-chair: **Ginu Joseph**, Modern Plastics India, India

## Session Introduction

11:20-11:40	<b>Title: The cooling technologies for effective performance of brushless direct current motor</b> <b>Jae Hun Choi</b> , Changwon National University, Korea
11:40-12:00	<b>Title: Sustainability can be profitable and profitability can be sustainable: Converting trash into valuable recyclable commodities</b> <b>Stephen W Brooks</b> , Federal Law Enforcement Training Centers, USA
12:00-12:20	<b>Title: Selective separation of hazardous chlorinated plastic by combined treatment of hydrogen peroxide and ultrasonic irrigation</b> <b>Byeong-Kyu Lee</b> , University of Ulsan, Korea
12:20-12:40	<b>Title: Development of high strength geopolymer mortar using industrial and agro waste</b> <b>Manish Mudgal</b> , CSIR-Advanced Materials and Processes Research Institute, India
12:40-13:00	<b>Title: Integrated environmental impact assessment of industrial pollutants using TRACI</b> <b>Indira Parajuli</b> , Incheon National University, Korea

## Panel Discussion

Lunch Break 13:00-14:00 @ Renaissance III

## Young Researchers Forum

YRF Judge: **Burton C English**, University of Tennessee, USA

14:00-14:20	<b>Title: A crowd financing approach to street lighting upgrades</b> <b>Mayank Saraswat</b> , University of Delaware, USA
14:20-14:40	<b>Title: Alkaline surfactant enhanced oil recovery with special emphasis on chemical adsorption onto the porous media</b> <b>Joyshree Barman</b> , Dibrugarh University, India
14:40-15:00	<b>Title: Fischer-Tropsch synthesis of biomass-originated fuels: Reaching the ideal performance in production of high-quality bio-diesel</b> <b>Nima Moazami</b> , University of Birmingham, UK
15:00-15:20	<b>Title: Solar impacts on the sustainability of economic growth</b> <b>Faraz Farhidi</b> , Georgia State University, USA
15:20-15:40	<b>Title: Solar photovoltaic (PV) system with battery backup for a residential building in Saudi Arabia</b> <b>Belqasem Aljafari</b> , Northern Illinois University Scholl of Engineering, USA
15:40-16:00	<b>Title: Effect of soil types on nitrogen cycling and electricity production from microbial fuel cells with dried leaves</b> <b>Sri Shalini Sathyanarayanan</b> , McGill University, Canada

## Panel Discussion

Networking &amp; Refreshment Break 16:00-16:20 @ Foyer

16:20-16:40	<b>Title: Courtyard as a passive cooling strategy for sustainable low-energy housing in hot-arid climates: A case study on Phoenix, Arizona</b> <b>Farzaneh Soflaei</b> , Morgan State University, USA
16:40-17:00	<b>Title: Moving towards zero waste in South Asian cities</b> <b>Bedoshruti Sadhukhan</b> , ICLEI, South Asia, India
17:00-17:20	<b>Title: Recycling paddy husk for improving plant growth yield and disease resistance</b> <b>Ruwani Kalpana Jayawardana</b> , Rubber Research Institute, Sri Lanka

17:20-17:40	<b>Title: Climate change impacts on Bali myna (<i>Leucopsar rothschildi</i>) during the last decade (case study: West Bali National Park)</b> Jean Jacques Fanina, Sebelas Maret University, Indonesia
17:40-18:00	<b>Title: Processing of waste PET-G foil using extrusion method</b> Kamil Dydek, Warsaw University of Technology, Poland

Day 3 November 08, 2017

### Conference Hall - Copa Room A

## Keynote Forum

09:00-09:30	<b>Title: Onsite generation of electricity from discharged urine in high-rise residential buildings</b> Ann T W Yu, The Hong Kong Polytechnic University, China
09:30-10:00	<b>Title: Energy materials from City of Cape Town municipal solid wastes – An overview and assessment</b> Daniel Ikhu-Omoregbe, Cape Peninsula University of Technology, South Africa

#### Sessions:

Chemical Waste Recycling | Plastic Recycling | Nano Environmental Technologie | Bioremediation | Entrepreneurs Investment Meet

Session Chair: Hisakazu Okamura, Asia University, Japan

Session Co-chair: Daniel Ikhu-Omoregbe, Cape Peninsula University of Technology, South Africa

#### Session Introduction

10:00-10:20	<b>Title: PAdeCS<sup>®</sup>, a new type of material derived from concrete sludge and its applications to pollution prevention processes</b> Akihiro Yamasaki, Seikei University, Japan
10:20-10:40	<b>Title: Emissions of VOCs from polymers during their life cycle and risks for use and recycle</b> Miyuki Noguchi, Seikei University, Japan
10:40-11:00	<b>Title: Inertization, immobilization, and safe disposal of incineration residues</b> Anil Mehrotra, Old Dominion University, USA

#### Panel Discussion

Networking & Refreshment Break 11:00-11:20 @ Foyer

11:20-11:40	<b>Title: Water quality assessment of inorganic pollutants of some rivers and streams in Abeokuta metropolis</b> Oseni O A, Moshood Abiola Polytechnic, Nigeria
11:40-12:00	<b>Title: Effect of heavy metals on antioxidant activities on the growth and yield of potato irrigated with tannery effluent</b> Sheza Ayaz Khilji, University of Punjab, Pakistan
12:00-12:20	<b>Title: Recycling of machining waste by laser metal deposition</b> Khalid Mahmood, University of Sciences and Technology, Pakistan

#### Video Presentations 12:20-13:00

VD 01	<b>Title: Evaluation with realistic correlation models of solar radiation applied to capital of Turkey</b> Lutfu S Sua, Firat University, Turkey
VD 02	<b>Title: Efficiency comparison of wind turbines for wind energy station design</b> Lutfu S Sua, Firat University, Turkey
VD 03	<b>Title: Environmental assessment of insulation materials along life cycle</b> Lutfu S Sua, Firat University, Turkey
VD 04	<b>Title: Selection of water as porosity provider for green insulation material manufacturing</b> Lutfu S Sua, Firat University, Turkey
VD 05	<b>Title: Estimating CO<sub>2</sub> and CH<sub>4</sub> emissions from Washington DC using low cost sensors and small drone technology</b> Siona Prasad, Thomas Jefferson High School for Science and Technology, USA

#### Panel Discussion

Lunch Break 13:00-14:00 @ Renaissance III

#### Poster Presentations 14:00-14:45

Poster Judge: Hisakazu Okamura, Asia University, Japan

Poster Judge: Daniel Ikhu-Omoregbe, Cape Peninsula University of Technology, South Africa

P 01	<b>Title: Demonstration of an energy-efficient and socially fair neighborhood development based on electrical-thermal interconnection systems</b> Sebastian Junghans, University of Applied Sciences Zwickau, Germany
P 02	<b>Title: Developments of risk assessment and impact assessment for marine organisms on offshore wind farm project</b> Byeon-Mo Gim, NeoEnBiz.Co., Bucheon, Korea
P 03	<b>Title: Using cryogenic separation of anode off gases for high temperature fuel cell applications</b> Rafal Bernat, Warsaw University of Technology, Poland
P 04	<b>Title: Development of perovskite nanostructured thin films using water soluble lead precursors and its application on solar cells</b> G M Wu, Chang Gung University, Taiwan

P 05	<b>Title: Utilization of green plant resource- example of herbal medicine</b> Yang L, China Pharmaceutical University, China
P 06	<b>Title: Characterization of agricultural residues for energy purposes</b> Pedro Casanova Treto, University of Costa Rica, Costa Rica
P 07	<b>Title: The selection of specialized strategic energy projects of the regional energy plan on Gyeongbuk province in Korea</b> Youngjin Ha, Korea Institute of Energy Research, Korea
P 08	<b>Title: Relative competitive analysis of new and renewables integrating the present patent status: In case of PV, fuel cell, and wind power</b> Seongokn Lee, Korea Institute of Energy Research, Korea
P 09	<b>Title: Impact of foliar application of ascorbic acid on corn (<i>Zea mays L.</i>) under saline conditions</b> Zahoor Ahmad Sajid, University of Education Okara, Lahore
P 10	<b>Title: Reuse of basic oxygen furnace (BOF) slag: Mitigation of high alkaline leachate generation from BOF slag</b> Seulki Jeong, Korea Basic Science Institute, Korea
P 11	<b>Title: Agronomic valorization of the active sludge from the waste-water microalgae-bacterial treatment and of the digestate produced in the anaerobic digestion of this sludge for obtaining biogas</b> Teresa Hernandez, CEBAS-CSIC, Spain
P 12	<b>Title: Agricultural use of the digested sludge obtained from the synergic anaerobic digestion two phase temperature and O<sub>3</sub> process in waste water treatment plants</b> C. Garcia, CEBAS-CSIC, Spain
P 13	<b>Title: Waste classification of chemicals released from chemical accidents</b> Ha-Yeong Kim, University of Ulsan, Korea
P 14	<b>Title: Feasibility of the bio-char produced from food waste</b> Woori Cho, The University of Seoul, Korea
P 15	<b>Title: Geothermal energy potential estimates of the Niger Delta basin from recent studies</b> Olumide Jepson Adedapo, Federal Polytechnic, Nigeria
P 16	<b>Title: Development of supramolecular cyclodextrin gel for selective separation of sugars in water</b> Tewodros Getachew Bekele, Ethiopian Biotechnology Institute, Ethiopia
<b>Networking</b>	
<b>Awards &amp; Closing Ceremony</b>	



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# GREEN ENERGY & EXPO

December 05-07, 2017 Vancouver, Canada