
Scientific Program



09:00-09:30 Registrations

Chattahoochee Hall

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09:30-09:50 **Opening Ceremony**

Group Photo 09:50-10:00

Keynote Forum

10:00-10:30 **Title: Low temperature and high efficiency biomass fuel cell and bio-hydrogen production**
Yulin Deng, Georgia Institute of Technology, Georgia, USA

10:30-11:00 **Title: Towards integrated biorefinery based on dried distillers grains co-product strategy to enable production of biofuels and biochemicals**
Jagannadh Satyavolu, University of Louisville, USA

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

Sessions: Renewable Energy | Bioenergy | Energy and Environment

Session Chair: Yulin Deng, Georgia Institute of Technology, Georgia, USA

Session Co-chair: Jagannadh Satyavolu, University of Louisville, USA

Session Introduction

11:20-11:40 **Title: The concept of lava flow controlled use as a source of energy and materials**
Anuar Kulmagambetov, Laitingen Financial Inc., Russian Federation

11:40-12:00 **Title: Aerodynamic design and analysis of a small scale wind turbine rotor blade**
Tesfaye Meseret Abebe, Otto-Von-Guericke University Magdeburg, Germany

12:00-12:20 **Title: Development of a floating ocean-current turbine for the Kuroshio current**
Katsutoshi Shirasawa, Okinawa Institute of Science and Technology Graduate University, Japan

12:20-12:40 **Title: Impedance characteristics of the all-vanadium redox flow batteries**
Hong Sun, Shenyang Jianzhu University, China

12:40-13:00 **Title: Physical model investigation of one way gear ocean wave energy converter as a floating wave breaker and renewable energy sources**
Masjono Muchtar, Politeknik ATI Makassar, Ministry of Industry, Indonesia

Lunch Break 13:00-14:00 @ Prom

14:00-14:20 **Title: Efficient techniques for woody biomass fractionation to enhance enzyme accessibility**
Aye Aye Myint, Seoul National University, Republic of Korea

14:20-14:40 **Title: Effect of technology development in the industrial high efficiency boiler using TIMES model**
Nyun-Bae Park, Korea Institute of Energy Research, Korea

14:40-15:00 **Title: Design and construction of a crushing machine for organic waste management in Mexico**
Camacho-Villan Erik Oswaldo, National Autonomous University of Mexico, Mexico

15:00-15:20 **Title: Sustainable energy performance: bioinspiration from thermoregulation of the termite mounds**
Silvia Titotto, Universidade Federal do ABC, Brazil

15:20-15:40 **Title: Thermal performance of a concrete-metamaterial added with micro-sized carbon particles for thermal insulation purposes**
Juan Carlos Arteaga-Arcos, Universidad Autonoma del Estado de Mexico, Mexico

15:40-16:00 **Title: High-gravity carbonation process for CO₂ fixation and alkaline waste stabilization**
Shu Yuan Pan, National Taiwan University, Taiwan (ROC)

Networking & Refreshment Break 16:00-16:20 @ Prom

16:20-16:40 **Title: Recycling CO₂ as a sustainable source of energy for power plants**
Mohammad Ali Takassi, Petroleum University of Technology, Iran

- 16:40-17:00 **Title: Evaluation of *Chlorella sorokiniana* mixotrophic growth using xylose as a carbon source**
Marcoaurelio Almenara Rodrigues, Federal University of Rio de Janeiro, Brazil
- 17:00-17:20 **Title: Effect of non-compostable contaminants on composting of organic municipal solid waste at different turning frequencies**
Tadesse Getahun, Jimma University, Ethiopia

Panel Discussion

Day 2 November 29, 2016

Chattahoochee Hall

Keynote Forum

- 09:00-09:30 **Registrations**
- 09:30-10:30 **Title: The role of liquid flow window in active and passive solar building design**
T.T. Chow, City University of Hong Kong, China
- 10:30-11:00 **Title: Transition to a global energy abundance and sustainability plan 2050**
Michael Garvin, University of Iowa, USA

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

Session: Biofuels | Green Technology | Sustainable Energy Policies | Waste Management | Recycling solid waste | E-Waste Recycling

Session Chair: **Michael Boot**, Eindhoven University of Technology, Netherlands

Session Co-chair: **Asupatri Usha Rani**, Sri Venkateswara University, India

Session Introduction

- 11:20-11:40 **Title: New business models for biofuels**
Michael Boot, Eindhoven University of Technology, Netherlands
- 11:40-12:00 **Title: Zinc and selenium supplementation combats cadmium induced bioaccumulation and oxidative stress in teleostean fish *Oreochromis mossambicus*: The possible detoxification mechanisms**
Asupatri Usha Rani, Sri Venkateswara University, India
- 12:00-12:20 **Title: St1 Cellunolix™ bioethanol demonstration plant process is based on softwood as a raw material**
Tom Granstroem, St1 Biofuels Oy, Finland

Young Research Forum

- 12:20-12:40 **Title: Comprehensive evaluation of biochar application in rice production in Ghana**
Ernest Ohene Nkansah, University of Tsukuba, Japan
- 12:40-13:00 **Title: Graphene: a promising electrode for microbial fuel cells**
Jayesh M. Sonawane, Indian Institute of Technology Bombay, Mumbai, India

Lunch Break 13:00-14:00 @ Prom

- 14:00-14:20 **Title: Investigation on development of wind and PV power with hydro pumped storage to increase renewable energy penetration: a parallel analysis of Taiwan and Greece**
Robel Habtemariam, Huazhong University of Science and Technology, China
- 14:20-14:40 **Title: An investigation into the dynamics of dye-sensitized solar cell for future renewable energy**
Christopher Anokam, Utah State University Eastern, USA
- 14:40-15:00 **Title: Multidimensional analysis of water governance poverty in the South African corporate sector**
Juniours Marire, Rhodes University, South Africa
- 15:00-15:20 **Title: Determination of the viability of landfill gas to energy in Africa: The case of Ghana**
Solomon Ofori, University of Stuttgart, Germany
- 15:20-15:40 **Title: Comparative study of the bio sorption potential of *Pseudomonas aeruginosa* and *Micrococcus lutes* on Lead and Chromium**
Ikhumetse A A, Federal University of Technology, Nigeria
- 15:40-16:00 **Title: The importance of smart meter for transition of smart grid in Turkey**
Onur Elma, Yildiz Technical University, Turkey

Networking & Refreshment Break 16:00-16:20 @ Prom

- 16:20-16:40** **Title: Plastic recycling in Douala, Cameroon**
Maria Atongajua, International Institute of Tropical Agriculture, Cameroon
- 16:40-17:00** **Title: An overview of biogas production from poultry manure**
Emine Cagla Cilingir, Hacettepe University, Turkey
- 17:00-17:20** **Title: Household recyclables estimation for improving waste management in Ulaanbaatar city**
Gombojav Delgermaa, The University of Kitakyushu, Fukuoka, Japan
- 17:20-17:40** **Title: Experimental investigation of waste PET in natural sand bricks**
Anil Antony Sequeira, Manipal University, Dubai, UAE
- 17:40-18:00** **Title: Novel trends in recycling and WEEE management**
Joanna Kulczycka, Polish Academy of Sciences, Poland

Panel Discussion

Day 3 November 30, 2016

Chattahoochee Hall

Keynote Forum

- 09:30-10:00** **Title: NuEnergy's power house generator & clean water system: a game changing disruptive technology which will revolutionize the sustainable energy industry**
Hector M Guevara, NuEnergy Technologies Corp., USA

Sessions: Energy conservation | Microbial communities and Metagenomics | Water Microbiology | Green Economy | Clinical Microbiology | Soil Microbiology | Nano Environmental Technologies | Microbial Biodegradation

Session Chair: Michael Boot, Eindhoven University of Technology, Netherlands

Session Co-chair: Asupatri Usha Rani, Sri Venkateswara University, India

Session Introduction

- 10:00-10:20** **Title: Scrap tires: Diversified technology portfolio for the application of recycled rubber materials**
Ashoke Karmokar, Bridgestone Corporation, Tokyo, Japan
- 10:20-10:40** **Title: Automatic solar fire extinguisher**
Asit Kumar Dey, University of Johannesburg, South Africa
- 10:40-11:00** **Title: Climate neutrality: Looking for a missing link?**
George Malindretos, Harokopio University, Greece

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

- 11:20-11:40** **Title: Do disinfectants promote bacterial antibiotic resistance?**
Kostas Konstantinidis, Georgia Institute of Technology, USA
- 11:40-12:00** **Title: Human disease and the environment**
Reetika Dawar, Indraprastha Apollo Hospitals, India
- 12:00-12:20** **Title: Microbiology of pesticide and inoculation of biofilter in the field of agriculture**
Asmaa Agoussar, University of Montreal, Canada
- 12:20-12:40** **Title: Development of novel whole-cell biosensors for co-detection of metals and coliforms in drinking water and urine**
Christopher Ndubuisi Nwankwo, University of Edinburgh, UK
- 12:40-13:00** **Title: Pattern of distribution of bacterial host and its phages in soil environment**
Swagata Karmakar, University of Delhi, India

Lunch Break 13:00-14:00 @ Prom

Poster Presentations 14:00-15:30

- P-01** **Title: Predicting residential energy savings using known energy characteristics and historical energy consumption**
Badr Altrahuni, University of Dayton, USA
- P-02** **Title: Cost-optimal combined heat power for multifamily buildings using historical demand**
Saeed Alqaed, University of Dayton, USA

- P-03 **Title: Cost impactful borehole thermal energy storage for multifamily buildings**
Rodwan Elhashmi, University of Dayton, USA
- P-04 **Title: Isolation and screening of chromium reducing bacteria *Pseudomonas fluorescens* from textile dye industrial effluent contaminated ground water samples: A possible bioremediation approach**
Asupatri Usha Rani, Sri Venkateswara University, India
- P-06 **Title: Aggregate associated C and their stability under different agricultural land use systems of sub-montaneous districts of Punjab, north-west India**
Rajwinder Kaur, Punjab Agricultural University, India
- P-07 **Title: Light olefin production by cracking *Nannochloropsis oculata* microalgae using aluminosilicate catalysts**
Gaurav Goyal, University of South Florida, USA
- P-08 **Title: Synthesis of various iodyl compounds of iodoarenes and tetrazolene using Oxone® as an oxidant**
Ram Dhakal, Middle Tennessee State University, USA
- P-09 **Title: Xylanase and laccase enzyme activities from new thermophilic strains of *Anoxybacillus* and *Streptomyces* species**
Thamir H Alkahem Albalawi, University of Arkansas, USA

Networking & Refreshment Break 15:30-15:50 @ Prom

Panel Discussion

Awards and Closing Ceremony



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