

Tentative Program



14th International Conference on

Renewable Energy & Non-Renewable Energy



***April 20-21, 2020
Singapore City, Singapore***

Theme: Research at the interface of energy and sustainability

<https://www.meetingsint.com/conferences/energy>

Email: energy@annualmeetings.net

Conference Agenda 2020

| | |
|---|---------------------------|
| Energy 2020 | |
| April 20-21, 2020 Singapore City, Singapore | |
| Agenda Day-1 | |
| 09:30-10:00 | Registration |
| 10:00-10:15 | Introduction by Moderator |
| Keynote Forum | |
| 10:15-10:45 | Keynote Speaker |
| Networking & Refreshment Break, 10:45-11:00 | |
| 11:10-11:40 | Keynote Speaker |
| 11:40-12:10 | Keynote Speaker |
| WorkShop | |
| 12:10-12:55 | Workshop Session |
| Group Photo 12:55-13:00 | |
| Lunch Break 13:00-13:45 | |
| Oral Session I | |
| 13:45-14:05 | Session Speaker |
| 14:05-14:25 | Session Speaker |
| 14:25-14:55 | Session Speaker |
| 14:55-15:15 | Session Speaker |
| 15:15-15:35 | Session Speaker |
| Networking & Refreshment Break, 15:35-15:55 | |
| 15:55-16:15 | Session Speaker |
| 16:15-16:35 | Session Speaker |
| 16:35-16:55 | Session Speaker |
| Session Adjournment | |
| Agenda Day-2 | |
| 10:00-10:15 | Introduction by Moderator |
| Keynote Forum | |
| 10:15-10:45 | Keynote Speaker |
| Networking & Refreshment Break, 10:45-11:00 | |
| 11:10-11:40 | Keynote Speaker |
| 11:40-12:10 | Keynote Speaker |
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| 16:35-16:55 | Session Speaker |
| Conference Adjournment | |

Conference Agenda 2019

Conference Hall: Royal Palms I

09:30-10:10

Registrations

10:10-10:20

Introduction by Moderator

10:20-10:55

Keynote Forum

Title: Technologies advancement and prospect of natural gas development in China

Ailin Jia, Petrochina Research Institute of Petroleum Exploration and Development, China

Networking & Refreshment Break 10:55-11:15 @ Foyer

11:15-11:45

Keynote Forum

Title: Reserves classification and well pattern infilling adjustment in tight sandstone gas field

Guo Zhi, PetroChina Research Institute of Petroleum Exploration & Development, China

11:45-12:20

Title: Principles of establishing waste to energy plants in developing countries

Abhishek Asthana, Sheffield Hallam University, UK

12:20-12:55

Title: Renewable energy based cogeneration on the example of micro scale installation with biomass-fired boiler and modified Rankine cycle

Krzysztof Sornek, AGH University of Science and Technology, Poland

Group Photo 12:55-13:00

Lunch Break 13:00-14:00 @ Restaurant

Oral Session I:

Trends in Renewable Energy | Green Energy and Economy | Advanced Materials for Energy Storage | Generation and Transmission | Hybrid Renewable Energy Approaches | Biofuels and Bio-energy

Session Chair: **Ailin Jia**, Petrochina Research Institute of Petroleum Exploration and Development, China

Session Co-chair: **Adango Miadonye**, Cape Breton University, Canada

14:00-14:25

Title: Investigation and evaluation of aerodynamic efficiency improvement measures for vertical axis small wind turbines

Daniel Lehser-Pfeffermann, University of applied Sciences Saarbrücken, Germany

14:25-14:50

Title: Experimental and numerical analysis of wind turbines operation- Polish case

Maciej Zoladek, AGH University of Science and Technology, Poland

14:50-15:15

Title: Selection of batteries and optimization of energy consumption during AGH solar plane flight

Aleksandra Szelag and **Sylvia Nabozna**, AGH University of Science and Technology, Poland

15:15-15:40

Title: Experimental analysis and dynamic simulations of the operation of the photovoltaic cells installed in unmanned aircraft "AGH solar plane"

Krzysztof Sornek and **Dawid Karpinski**, AGH University of Science and Technology, Poland

15:40-16:05

Title: Analysis of general Rotor-Flux oriented vector control systems

Abdullatif Hakami, University of South Florida, USA

16:25-16:50

Title: Flame propagation of pulverised biofuels of varying size distribution fractions

Muhammad Azam Saeed, University of Engineering and Technology, Pakistan

16:50-17:15

Title: Disruptive Innovation and Opportunities in the Use of Renewable Energy for Sustainable Development in Nigeria

Benjamin Anabaraonye, Benji Poetry and Music Global Concepts, Nigeria

Networking & Refreshments 16:05-16:25 @ Foyer

Session Adjournment

May 21, 2019

Conference Agenda

Day 2

Conference Hall: Royal Palms I

10:00-10:10

Introduction by Moderator

10:10-10:45

Keynote Forum

Title: Analysis and Forecasts of world renewable energy markets

Abhishek Asthana, Sheffield Hallam University, UK

Networking & Refreshment Break 10:45-11:05 @ Foyer

11:05-11:40

Keynote Forum

Title: Flow characteristics of heavy crude oil diluted with alcohols

Adango Miadonye, Cape Breton University, Canada

11:40-12:15

Title: Analysis of NISMODO a modeling tool for governance of sustainable infrastructure assets for developing and emerging economies

Renee Gotopo, The Branch Sustains, LLC, USA

Oral Session II:

Sustainable Nuclear Energy | Solar and Wind Energy | Hydro Power Generation | Geothermal Energy | Marine -Tidal and Wave Energy | Smart Grid Systems | Global Impacts of Using Nonrenewable Resources | Waste to Energy | Fossil and Radioactive Fuels

Session Chair: **Abhishek Asthana**, Sheffield Hallam University, UK

Session Co-chair: **Guo Zhi**, Petrochina Research Institute of Petroleum Exploration and Development, China

12:15-12:40

Title : Thermo-Catalytic Reforming (TCR) of Lignocellulosic Biomass using steel slags (SS) as catalyst

Joao Santos, University of Birmingham, UK

12:40-13:05

Title: Dangers of climate change on food security and economy of developing countries case study: Uganda

Kwesiga Evadio, Makerere University, Uganda

Lunch Break 13:05-14:05 @ Restaurant

14:05-14:30

Title: The use of international laws as a means of acting as universal environmental regulator in developing case study: Nigeria

Kamuganga Gilbert, Makerere University, Uganda

14:30-14:55

Title: Application of laser-induced breakdown spectroscopy (LIBS) on oilfield scales- A comparative study

Ghada Bassioni, Ain Shams University, Egypt

14:55-15:20

Title: How small solar powered autonomous container ships could affect maritime transport and environment

Izabela Swatek and Mieszko Mierunski, AGH University of Science and Technology, Poland

15:20-15:45

Title: AGH Solar Boat as sustainable solution to combat climate change

Karolina Stuchly and Aleksandra Skolarz, AGH University of Science and Technology, Poland

15:45-16:05

Title: The effect of encapsulation layer on thermo-electrical parameters of photovoltaic panels

Maciej Borowicz and Witold Gebarowski, AGH University of Science and Technology, Poland

Networking & Refreshment Break 16:05-16:25 @ Foyer

Conference Adjournment

Conference Agenda 2018

08:30-09:00

Registration

Conference Hall: Palm B

09:00-09:25

Opening Ceremony

09:25-09:40

Introduction

Keynote Presentation

09:40-10:20

Title: Recent developments in wind turbine sensing for structural health monitoring
Christopher Niezrecki, University of Massachusetts Lowell, USA

10:20-11:00

Title: The role of enhanced oil & gas recovery in the United States and International development & the effects on pricing International development, exports, and imports
Davis L Ford, The University of Texas at Austin, USA

Group Photo

Networking & Refreshment Break 11:00-11:15 @ Palm Hallway

Keynote Presentation

11:15-11:55

Title: Strong-acid compatible, earth-abundant-element, molecular water oxidation catalysts for solar fuel production
Craig L Hill, Emory University, USA

Oral Session I: Wind Energy | Sustainable Energy | Conversion Systems for Renewable Energies | Solar Energy Systems | Green Energy and Economy | Bioenergy, Biofuels and Biomass

Session Chair: **Craig L Hill**, Emory University, USA

Session Co-chair: **Enhua Wang**, Beijing Institute of Technology, China

11:55-12:20

Title: Transition toward renewables in developed countries
Hasan Kadri, Immortal Energy, Lebanon

12:20-12:45

Title: Aerodynamic analysis and experimental study on walker sail for sail-assisted ships
Yihuai Hu, Shanghai Maritime University, China

12:45-13:10

Title: Biofuels – Sunfuels – Synthetic Fuels: Who makes the run?
Martin Mittelbach, University of Graz, Austria

Lunch Break 13:10-14:10 @ Restaurant

14:10-14:35

Title: P2G as a tool for sector coupling and energy transition in Germany
Irina Stamo, IKEM (Institute for Climate Protection, Energy and Mobility), Germany

14:35-15:00

Title: Investigation on the thermal and power performance of vacuum BIPV glazing and its optimization potential in high-rise buildings

Xi Chen, The Hong Kong Polytechnic University, Hong Kong

15:00-15:25

Title: A case study on nest's "Smart Home Energy" business model: Based on strategic choices for connected product

Minzheong Song, Hansei University, South Korea

15:25-15:50

Title: Design of a modified egyptian solar house using PV energy

Faten H Fahmy, Electronics Research Institute, Egypt

Networking & Refreshment Break 15:50-16:10 @ Palm Hallway

16:10-16:35

Title: The global carbon cycle: A case study investigation of the use of charcoal & variables delaying fermentation in wet beans slurry

Adewole Mayowa, Sapienza University of Rome, Italy

16:35-17:00

Title: Modelling and incorporating environmental externalities in future electricity mix of Pakistan

Gordhan Das Walasai, Quaid -e- Awam University of Engineering, Pakistan

Sessions Adjournment

July 17, 2018

Day 2

Conference Hall: Palm B

09:55-10:00

Session Introduction

09:40-10:20

Keynote Presentation

Title: Fracture and structural integrity issues in wind turbines: Recalling miguel de cervantes and antonio vivaldi

Jesus Toribio, University of Salamanca, Spain

10:20-11:00

Title: Potential yield of dedicated energy crops: Results and outcomes of the Sun Grant regional feedstock partnership

Vance N Owens, South Dakota State University, USA

Networking & Refreshment Break 11:00-11:15 @ Palm Hallway

11:15-11:55

Keynote Presentation

Title: Aerodynamic optimization of wind turbine blades and wind energy

Ramesh K Agarwal, Washington University in St. Louis, USA

Oral Session II: Advanced Materials for Energy Storage, Generation and Transmission | Recycling of Waste Energy | Bioenergy, Biofuels and Biomass | Green Energy and Economy | Bioenergy, Biofuels and Biomass

Session Chair: **Jesus Toribio**, University of Salamanca, Spain

Session Co-chair: **Thirumany Sritharan**, Nanyang Technological University, Singapore

11:55-12:20

Title: Nanoscale engineering of hematite and bismuth vanadate photoanodes for water splitting in PEC

Thirumany Sritharan, Nanyang Technological University, Singapore

12:20-12:45

Title: Study on combustion of sewage sludge solid fuel alternative to coal for Sustainable energy future

Hyung Taek Kim, Ajou University, South Korea

12:45-13:10

Title: An innovative closed cycle osmotic - heat Machine (OHM) for green power generation

Hameed B Mahood
Anees A Khadom, College of Applied Science- Sohar, Oman

Lunch Break 13:10-14:10 @ Restaurant

Young Researcher Forum

14:10-14:35

Title: The role of residues from the Palm oil production process in a sustainable energy system

Bobbo Nfor Tansi, Brandenburg University of Technology, Germany

14:35-15:00

Title: Oil exploration activities and their prospectivity on biodiversity and ecosystem in Albertine Graben-Western Uganda

Aijuka Nicholas, Makerere University Kampala, Uganda

15:00-15:25

Title: The oil boom in Uganda as a major factor for economy takeoff

Levis Ngabirano, Makerere University Kampala, Uganda

Poster Presentations (15.25-16.00)

E-01

Title: A supercritical power cycle using carbon dioxide for low temperature geothermal sources

Enhua Wang, Beijing Institute of Technology, China

E-02

Title: Morphological behavior and power generation capacity in prickly pear

Wilgince Apollon, Autonomous University of Santo Domingo, Mexico

E-03

Title: The effects of increase in global fuel prices on the global economy and GDP

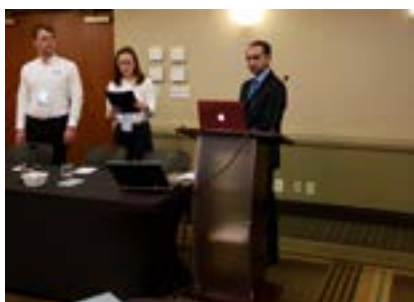
Kahima Ivan, Makerere University, Uganda

Networking & Refreshment Break, 16:00-16:30 @ Palm Hallway

Conference Adjournment



Glimpses of Energy events



About Singapore

Singapore, officially the Republic of Singapore is an island city-state in Southeast Asia. Singapore's territory consists of one main island along with 62 other islets. Since independence, extensive land reclamation has increased its total size by 23%. The city ranks highly in numerous international rankings, and has been recognised as the most "technology-ready" nation (WEF), top International-meetings city (UIA), city with "best investment potential" (BERI), world's smartest city, world's safest country, world's most competitive economy, third least-corrupt country, third-largest foreign exchange market.



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Drop us your query with details and we will call you right away

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