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14th World Bioenergy Congress and Expo

June 06-07, 2019
London, UK



SCIENTIFIC PROGRAM

DAY 1
Thursday, 6th June

08:30-09:00 **Registrations**

09:00-09:30 **Introduction**

09:30-09:50 COFFEE BREAK

09:50-11:50 Meeting Hall 01 **KEYNOTE LECTURES**

11:50-13:10	MEETING HALL 01	MEETING HALL 02
	Talks On: Biomass	**Talks On:** Renewable Energy
	Agriculture biomass	Energy-from-waste
	Waste Biomass to energy	Renewable chemicals
	Conversion technologies	Waste energy
	Sustainable feedstock development	Nuclear Energy

13:10-13:15 GROUP PHOTO

13:15-14:00 LUNCH BREAK

14:00-16:00	MEETING HALL 01	MEETING HALL 02
	Talks On: Biogas	**Talks On:** Biofuels
	Biogas from agriculture waste	Biofuels production and utilisation
	Advances in biogas technology Biogas from algae	Algae Biofuels
	Advances in biogas process	Aviation Biofuels
	designBiogas technologies Biogas from waste vegetables	Biofuels impact on food security
	Biogas plants	Nonfood crops for biofuels productionAdvances in biofuel production
	Mass spectrometry techniques	Advances in biofuel production

16:00-16:20 COFFEE BREAK

MEETING HALL 01 (16:20-17:00)	MEETING HALL 01 (17:00-18:00)
Young Researchers in Bioenergy	Workshop

DAY 2
Friday, 7th june

09:00-10:30 Meeting Hall 01 — **KEYNOTE LECTURES**

10:30-10:50 COFFEE BREAK

10:50-12:50	MEETING HALL 01	MEETING HALL 02
	Talks On: Green energy and economy	**Talks On:** Solar energy
	Macroeconomics	Wind Energy
	Sustainable Agriculture	Tidal Energy
	Emission Reduction	Compressed Natural Gas
	Recycling role in Green Economy	Electricity Production
	Prologue Green Banking	Fuel Production
	Green Energy Labeling	Energy Storage Method

12:50-13:35 LUNCH BREAK

13:35-15:55	MEETING HALL 01	MEETING HALL 02
	Talks On: Bioenergy Conversion Methods	**Talks On:** Sustainability and Climate Change
	Thermal Conversion of Biomass	Sustainable urbanization
	Combustion and Co-firing	UN framework on Climate change
	Chemical conversion from oil-bearing crops	Minimum ecological disruption
	Biochemical Conversion of Biomass	Challenge of de-carbonization
	Latest Conversion Technologies in Biomass	Sustainable management of natural resources
	Power Plants	Sustained technology

15:55-16:15 COFFEE BREAK

MEETING HALL 01 (16:15-17:00)	MEETING HALL 01 (17:00-18:00)
Poster Presentations	Workshop

Awards & Closing Ceremony

Organizing Committee Members



Lew P. Christopher

Biorefining Research Institute,
Lakehead University



Rintu Banerjee

Indian Institute of Technology
Kharagpur



Michael Köttner

German Biogas and Bioenergy
Society GERBIO



Armen B Avagyan

Research & Industry Centre of
Photosynthesizing Organism



Weilan Shao

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University of Queensland, Australia

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University of Mexico, Mexico

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University of Nottingham, UK

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KEA Climate Protection and Energy Agency of Baden, Czech Republic

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Rikke Lybæk
University of Roskilde, Denmark

Tatsuo Omata
Nagoya University, Japan

Taraneh Sowlati
University of British Columbia, Canada

Débora Tomasini
Universidade Federal do Rio Grande do Sul, Brazil

Khalid Fares
Cadi Ayyad University , Morocco

Elena Domínguez
University of Vigo, Spain

Shiho Ishikawa
Hokkaido University, Japan

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Bavarian Center of Excellence , Germany

Rintu Banerjee
Indian Institute of Technology, Kharagpur, India

Raphael Lechner
Bavarian Center of Excellence , Germany

Ralph-Uwe Dietrich
German Aerospace Center, Germany

Glimpses of Bioenergy Conferences

















London Attractions



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14th World Bioenergy congress and expo

06-07 JUNE 2019, LONDON, UNITED KINGDOM

AGENDA

Efficient Use of Cesspool and Biogas for Sustainable Energy Generation: Recent Development and Perspectives

Abdeen Omer, PhD, ERI UK

Abdeen Mustafa Omer (BSc, MSc, PhD) is an Associate Researcher at Energy Research Institute (ERI). He obtained both his PhD degree in the Built Environment and Master of Philosophy degree in Renewable Energy Technologies from the University of Nottingham. He is qualified Mechanical Engineer with a proven track record within the water industry and renewable energy technologies

Bioactive properties of extracts from Moroccan oil shale

Abdelkrim ABOURRICHE, National Schools of Applied Sciences of Safi

Mr. Abdelkrim ABOURRICHE is a Professor in the Industrial Engineering Department at National School of Applied Sciences in Safi, Morocco. Abourriche's specialist areas are the development of original natural resources such as Moroccan oil shale. He also worked as Project Manager entitled: Solvent Extraction of organic matter of oil shale. Study and Promotion of the oils produced.

Replacement of Natural Gas fired Thermic Fluid Heater with wood/biomass briquette-fired Thermic Fluid Heater – Savings all the way

Bhavesh Swami, Bureau of energy efficiency India

Bhavesh Swami is working as Manager – Media and Awareness on a GEF-World Bank project in India. The project has helped more than 1000 small scale units directly with technical assistance to implement energy/resource efficiency measures at their units. This includes national/international cooperation, wherein experts/technologies from UK and Germany have been Glocalized and used for the benefit of all the partners involved. His project has paved the path for more than INR 400 crore (4 billion) worth of investment with implementation of more than 3500 energy efficiency interventions in these units.

Electronic water can reduce oxidative stress in cancer and diabetes patients for 3

Masahiro Onuma President of Trisguide ltd Japan

Masahiro Onuma has expertise in oxidative disease prevention to use non-medical product based on GSK's experience of Allopurinol which is the strongest anti-oxidant efficacy in this world. He creates new indication of Allopurinol for stomatitis induced by cancer treatment which was approved by the Japanese Cancer treatment committee.

E. coli synthesized Platinum and Palladium nanoparticles as Polymer Electrolyte Membrane Fuel Cell (PEMFC) Catalysts

Alan J Stephen
University of Birmingham
UK

Alan Stephen is PhD student at the University of Birmingham with the CDT in "Fuel cells and their Fuels". His work focuses on utilising bacteria to synthesize precious metal nanoparticles to use as catalysts in a fuel cell.

Energy policies needed to transition to a green economy based on high-accuracy

Amos Oppong
School of Management and Economics
China.

Amos Oppong is a doctoral researcher at the School of Management and Economics (SME) of the University of Electronic Science and Technology of China (UESTC), and a member of the International Association of Energy Economists (IAEE). He specializes in environmental, energy and economic modelling and forecasting

The contribution of industrial biotechnology to economic development: The potential of second generation ethanol and the levers for its feasibility

Aparecido Carvalho

Bluenergie , Sao Paulo
Brazil

CEO with 16 years in International and Multicultural leadership experience. Renewables , New Energy & Tech advocate, New Mobility Enthusiast ,Sustainability Entrepreneur with solid track record in creating and developing business, managing and motivating people, P&Ls and sales growth strategies in both mature and fast growing markets.

Energy valuation of animal excrement in the production of biogas: study of the biomethanation of rabbit dungs in laboratory in Senegal

DJEUKOUA
University of Cheikh Anta Diop of Dakar
Senegal

DJEUKOUA has completed his Master degree from Cheikh Anta Diop University and he is Ph.D student at the Doctoral School of the Life Sciences, Health and Environment (EDSEV) of Cheikh Anta Diop University.

Bioenergy is the Powerful Tool on the Poverty reduction and hunger in the World particularly South Asia

Mr. Usman

Former Director General of Agricultural Research System

Mr. Usman established “Prominent Agro Based Industries SDN BHD” in Malaysia and “Foundation for Rural Development in Pakistan”, with primarily aims to work on integrated agricultural project for Rural Development through improvement in agriculture for rehabilitation of affected area

The achievement of sustainable energy in the prism of Bioeconomy

George Sakellaris.
Biocon Ltd.

George Sakellaris is currently consultant on the Bioeconomy Program, University of South Bohemia, Czech Republic. His educational background is Biochemistry. Research Director at the National Research Foundation in Athens (1986-2012), then IEM of the Czech Academy of Science Prague (2014-2016) Visiting professor in Charles University Prague (1994) and in Qatar Foundation (2011). Appointed as expert advisor at the European Parliament (2006-2009) and the EFSA (2003-2006),

Comparative evaluation of enzyme production efficiency of monocultures and paired interactions of fungi on different agricultural substrates

Grace N Ijoma

University of South Africa

Dr. Grace N Ijoma is a senior lecturer of Biotechnology at the Pearson Institute of Higher Education and a postdoctoral fellow at the University of South Africa. Her PhD focused on antagonistic interspecific interactions amongst fungi. Previous paper presentation of portions of this work was presented at 8th International Conference on Environmental Science and Technology. Houston Texas, USA in 2016 and was judged first place paper. She is eclectic in her research interests and has a keen interest in several areas including Bioprospecting of niche environments

PRESPL Pioneering the Indian BioEnergy Sector with Innovative Refinement-Oriented Biomass Supply Chain Management, for Enhancing Multi-Spectrum Benefits with Sustainable Development & Growth

Monish Ahuja

Director (PRESPL), India

Lt Col Monish Ahuja (Retired) a veteran from the Indian Army, the Managing Director of PRESPL, is acknowledged in the Biomass fraternity, in India and also across the world, as a dedicated, committed, innovative and knowledgeable leader. He has been advocating the cause of establishing the increased usage of biomass applications for generation of Bio-Energy by encouraging Biomass Project Developers to engage them in such initiatives with attractive economic and commercial considerations.

Determinants of energy production from biomass: Multivariate Panel Data Evidence for IEA-30 Countries

Bismark Ameyaw
University of Electronic Science and Technology of China

BISMARK AMEYAW is a doctoral researcher at University of Electronic Science and Technology of China and a referee to a number of prestigious peer-review journals. He specializes in modelling and forecasting the dynamic links in energy policies. He writes, teaches and consult on energy-related issues. He serves as an editorial board member and a reviewer for a number of prestigious international journals

Exploring optimal supplement strategy of polyphenolics-abundant herbal extracts for bioenergy stimulation in microbial fuel cells

Bor-yann Chen
National I-lan University
Taiwan

Bor-Yann Chen has expertise in biomass energy and bioremediation for biotechnology. His serial studies focused on applications in wastewater decolorization, bioremediation engineering, environmental toxicology and biofuel cells. He has completed PhD from University of California, Irvine in 1995 and used to be NRC awarded Research Associate to work in NRMRL/US EPA, Cincinnati Ohio. He is Distinguished Professor in Department of Chemical and Materials Engineering, National I-Lan University, Taiwan

The influence of temperature profiling on the cellular responses on the Saccharomyces strains to yield the bioenergy from lignocellulosic bioethanol biorefinery

Akansha Bhatia

My research interests include waste management especially composting and wastewater microbiology, use of Meta genomics for identifying the microbial diversity and biofuel production from biomass. I have received appreciation in the form of Young Scientist Award in the field of Environment Microbiology (2012) by the UCOST, India. Currently, my research relates to bioethanol production from lignocellulose substrates using beneficial microbial species

BIO-REFINARY FOR THE SEQUENTIAL PRODUCTION OF BIO-DIESEL, BIO-ETHANOL, BIO-HYDROGEN, AND BIO-METHANE FROM TANNERY SOLID WASTES AND SLUDGES FOR AUTOMOTIVE USE AS "WASTE INTO WHEEL

SHANMUGAM P
CENTRAL LEATHER RESEARCH INSTITUTE

Council of Scientific and Industrial Research, Ministry of Science and Technology Govt. of India) Adyar, Chennai

Efficiency Enhancement of Ultrathin Organic Solar Cell using Grating Structure

Mohammad Eskandari
Iran.

Mohammad Eskandari is a researcher in the photonics and Nano research lab at University of Tabriz, Iran. His Research filed is in the area of Energy and Solar Cells. He is trying to enhance the absorption and efficiency of ultrathin Solar Cell using some optical methods such as light trapping. He interested in organic materials due to their beneficial such as high flexibility, lower weight, cost effective and large scale manufacturing. He and other MSc students have good team work in order to enhance the absorption of this type of materials used in solar cells and their work will be published soon in good journals

Analysis of the Gaseous Emissions and the Residues Generated by Combustion and Pyrolysis of Biomasses in a Drop Tube Furnace (DTF)

Glauber Cruz
Federal University of Maranhão

Glauber Cruz, Dr. currently works at Federal University of Maranhão Glauber studied at Universidade de São Paulo and Glauber is located at São Luís, Maranhão, Brazil

The solar irradiance dictates the climate

Habibullo Abdussamatov,
Dr. of Sci.,
Pulkovo observatory of the RAS, St. Petersburg,

Abdussamatov Habibullo Ismailovich: born October 27, 1940 in Samarkand, Uzbek SSR, Soviet Union (now Uzbekistan). Education: Samarkand State University (1962), faculty of physics and mathematics; graduate courses in Leningrad State University (1965-1967), faculty of mathematics and mechanics; postgraduate course in Pulkovo Observatory (1966-1969). Works in Pulkovo Observatory since 1964: researcher trainee (1964-1966), postgraduate (1966-1969), junior researcher (1969- 1982), senior researcher (1982-1999), leading researcher (1999-2004), head of the Space Research Sector (2004-2006), head of the Space Research laboratory (2006-2010).

Sustainable waste to energy model as a green energy

Hamed Fazlollahtabar
Department of Industrial Engineering
Damghan University

Hamed Fazlollahtabar earned a BSc and an MSc in industrial engineering from Mazandaran University of Science and Technology, Babol, Iran, in 2008 and 2010, respectively. He received his PhD in industrial and systems engineering from Iran University of Science and Technology, Tehran, Iran, in 2015. He has completed a postdoctoral research fellowship at Sharif University

Performances and emissions Characteristics Of Methanol blended with Vegetable Oils as alternative fuels in Compression Ignition Engine

HiregoudarYerrennagou
Professor and PG-Coordinator and Dean R&D
Mahabaleshwarappa Engineering College,
Karnataka-State, India

Dr. HiregoudarYerrennagoudaru has completed his BE (Mechanical Engineering) and M.Tech in
Thermal Power Engineering degree from Gulbarga University, Karnataka – State, India in year
1991. Obtaimned the PhD Degree from Jawaharlal Nehru Technological University, AP- State,
India.

Bioethanol production from Marine green Algae Ulva lactuca and Sargassum swartzii: Saccharification and Process Optimization

M. Jerold
1National Institute of Technology Warangal, India

Dr. Jerold Manuel is an Assistant Professor in Department of Biotechnology at National Institute of Technology Warangal, Telangana State, India. Dr. Jerold has immense knowledge in the field of Bioprocessing and Biochemical Engineering. He has Industrial, Teaching and research experience. He works on bunch of research areas like fermentation, Phytoremediation, Biological Wastewater treatment, Biosoprtion, Microbial Fuel Cells, Nanotechnology, Biosurfactant, Biocatayst, Biofuels, and Adsorption of Heavy Metals etc

Dimethyl ether and Dibutyl ether for Zero Emission Applications

Johann Gruber-Schmidt
Technical University Vienna

Johann Gruber-Schmidt has completed his PhD at the age of 27 years from Technical University Vienna
in 1992 in mechanical and chemical engineering. Then he started at Waagner Biro GmbH in Plant
division. In the year 2000 he changed to the projects in renewable bioenergy in Lower Austria, where
he worked in erection and commission till 2003.

Bio-catalytic upgrading of heavy and pyrolysis oils: optioneering of fossil, biorefined, and renewable resources

S.A. Archer
University of Birmingham

Sophie Archer is a PhD candidate, reading for a doctorate in Hydrogen, Fuel Cells and their Applications, whilst working with the Resource Recovery from Wastes programme (RRfW). Her knowledge and skills involve the application of life cycle thinking and environmental impact assessments to produce liquid and gaseous fuel products from biomass and waste residues, in addition to biorefined neo-catalysts from resources recovered from waste streams. Sophie's work aims to conduct an LCA on the catalytic upgrading of both heavy fossil oil and pyrolysis oils from dry biomass, comparing commercial and bio-catalysts. The environmental impact for each pathway will be identified within a 'well to gate' (cradle to gate) system boundary, alongside an additional fuel use analysis separate from the LCA

Engineering at the Nanoscale: A Strategy for Developing High Performance Bionanocomposites

SABU THOMAS
International and Inter University Centre for Nanoscience and Nanotechnology
Kerala

Professor Sabu Thomas is currently Vice Chancellor of Mahatma Gandhi University and the Founder Director and Professor of the International and Interuniversity Centre for Nanoscience and Nanotechnology. He is also a full professor of Polymer Science and Engineering at the School of Chemical Sciences of Mahatma Gandhi University, Kottayam, Kerala, India.. Professor Thomas has received a number of national and international awards .Professor Thomas has published over 800 peer reviewed research papers, reviews and book chapters. He has co-edited 117 books published by Royal Society, Wiley, Wood head, Elsevier, CRC Press, Springer, and Nova etc. He is the inventor of 5 patents. The H index of Prof. Thomas is 91 and has more than 38,821 citations. Prof. Thomas has delivered over 300 Plenary/Inaugural and Invited lectures in national/international meetings

Biorefinery approach of microalgae feedstock for the production of ε-polylysine and biodiesel

Ramachandran Sivaramakrishnan
Faculty of Science, Chulalongkorn University,

Ramachandran Sivaramakrishnan is currently a senior post-doctoral research in the Cyanobacterial biotechnology (Biochem dept.) group lead by Dr. Aran Incharoensakdi at Chulalongkorn University, Bangkok, Thailand. His research interests include the production of biofuels, value-added products, understanding the mechanism of biofuel productions and exploring value-added products. Before joining Dr. Aran Incharoensakdi lab, he worked as a Junior research fellow in the Department of Chemical Engineering at Anna University, India.

Exploring the Opportunity for Organic Household Waste (OHW) Management Technology Options: An Empirical Investigation for Muharraq Governorate

Sumaya Yusuf Abbas,
University of Warwick-WMG, UK

Sumaya Yusuf is a researcher and a lecturer in the College of Graduate Studies at the Arabian Gulf University, Bahrain. Recently awarded her PhD in Engineering from WMG, University of Warwick, UK. She was selected as a winner of the Venus International Women Award (VIWA) under the category of Outstanding Academic Women, India in 2016

Institute of Technology under the school of Chemical Engineering since Aug 2014. He has been working on giving lectures

Experimental studies on acid value reduction of *Azadirachta indica* seeds oil and biodiesel production, a sustainable source for bioenergy industry

Kifayat Ullah
Department of Biosciences

Department of Biosciences, COMSATS University Islamabad, Islamabad Campus, Park Road, Tarlai Kalan, Islamabad 45550, Pakistan

Novel biogenic catalysts with catalytic applications in bioenergy processes

L.E. Macaskie
University of Birmingham

Prof Lynne Macaskie did her BSc and PhD in microbial biochemistry (University of London) in the 1970s, moving to the University of Oxford (postdoctoral, then faculty staff in Department of Biochemistry) until 1991 when she took up a lectureship, then personal Chair, at the University of Birmingham in Applied Microbiology. Her dual interests center on bacterially-manufactured nanoparticles and bio-nanominerals for nuclear decontamination processes

Genomics approaching value-added varieties with high efficiency bioethanol making in cassava (*Manihot esculenta* Crantz)

Wenquan Wang
Institute of Tropical Biosciences
P R China

Dr. Wenquan Wang, senior scientist of genomics and molecular breeding for tropical crops as cassava, professor of biology and agronomy in Hainan University, Huazhong Agricultural University, executive director of Key Laboratory of Tropical Crop Biology & Utilization of Genetic Resources. Coordinator of National Key Basic Research Program (973) “The principal research on genetic improvement in cassava important tropical crop”. He got Ph. D in nutrition genetics in Chinese Agricultural University in 2000, and once being senior research fellow in BTI, Cornell University

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Biography

Sequential Production of Methyl ester, Bioethanol and Briquette from Spent Coffee Ground

Muluken Eshetu

Muluken Eshetu Tefera has been working as a lecturer at Jimma University,Jimma Institute of Technology under the school of Chemical Engineering since Aug 2014. He has been working on giving lectures on Fluid Mechanics for Chemical Engineers, Mass Transfer Unit Operation and Entrepreneurship for Engineers courses, assisting undergraduate students in Thermal and Mass Transfer Unit Operations Laboratory, Advising graduating students, mentoring industrial intern students and many more activities