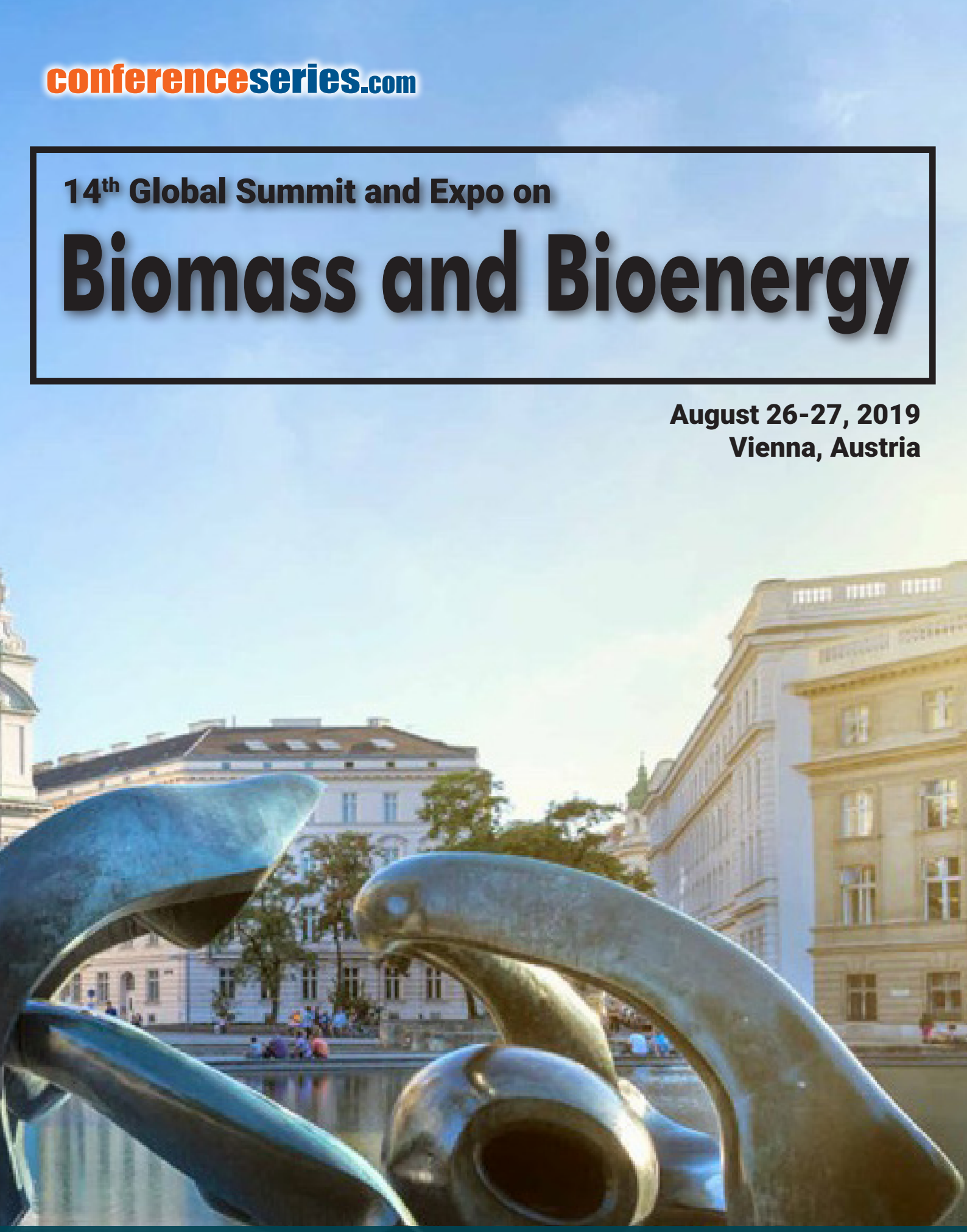
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14th Global Summit and Expo on

Biomass and Bioenergy

August 26-27, 2019
Vienna, Austria



SCIENTIFIC PROGRAM

DAY 1
Monday, 26th August

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 Processing Technologies	**Talks On:** Biomass Applications
Anaerobic digestion (for methane-rich gas)	Trending Research from Biomass
Fermentation (of sugars for alcohols)	Jet fuel for Heavy Machines from Biomass
Oil exaction (for biodiesel)	Liquid Biofuels from Biomass
Pyrolysis (for biochar, gas and oils)	Cellulosic Ethanol from Biomass
Gasification (for carbon monoxide and hydrogen-rich syngas).	
Biological Conversion	
Pellet Quality and Standards	
Biomass Heat in Rural Areas	

13:10-13:15 GROUP PHOTO

13:15-14:00 LUNCH BREAK

14:00-16:00

MEETING HALL 01	MEETING HALL 02
Talks On: Biomass Conversion Technologies	**Talks On:** Pellets & Densified Biomass
Combustion and Co-firing	Feedstock Procurement Strategies
Chemical conversion from oil-bearing crops	Biomass Harvest and Transport
Latest Conversion Technologies in Biomass	Pellet Mill Design
Biomass for Electricity Generation	Mill Operation and Management
Heat and Power Generation	Market Analysis and Forecasts

16:00-16:20 COFFEE BREAK

MEETING HALL 01 (16:20-17:00)	MEETING HALL 01 (17:00-18:00)
Young Researchers in Biomass 2019	Workshop

DAY 2
Tuesday, 27th August

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: Pyrolysis	**Talks On:** Bioenergy Conversion Methods
	Pyrolysis of Biomass	Thermal Conversion of Biomass
	Wood pyrolysis	Heat and Power Generation
	Advances in pyrolysis gasification	Biomass for Electricity Generation
	Spintronics	Biomass for Electricity Generation
		Latest Conversion Technologies in Biomass
		Track 9-6Electrochemical Conversion of Biomass

12:50-13:35 LUNCH BREAK

13:35-15:55	MEETING HALL 01	MEETING HALL 02
	Talks On: Production of Biofuels	**Talks On:** Renewable Energy
	Production of Biofuels from Biomass	Applications of aviation biofuels
	Production of Biodiesel from Biomass	Jet biofuel
	Production of Bio chemicals from Biomass	Commercialization of aviation biofuels
	Production of Biogas from Biomass	Green replacement fuels in flights
		Synthesis of aviation biofuel via Fischer-Tropsch process
		Risk analysis of aviation fuels

15:55-16:15 COFFEE BREAK

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

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PAST AFFILIATES

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National Sugar Institute, Kanpur,India

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Vienna Attractions



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BIOMASS CONFERENCES

















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DAY-1

September 04, 2018

Meeting Hall: **Brussels**

08:30-09:00 Registrations

Opening Ceremony — 09:00-09:30

Keynote Forum

09:30-09:35 **Introduction**

09:35-10:15 **Title: Recent advances in catalytic production of biobased furan derivatives**
Christophe Len, Université de Compiègne, France

Group Photo

Networking & Refreshment 10:15-10:35 @ Europa Foyer

10:35-11:15 **Title: Biomass valorization by means of catalytical and biological processes**
Magda Constantí, University Rovira I Virgili, Spain

11:15-11:55 **Title: Development of efficient bioprocesses for improved bioethanol production from a mixture of food wastes**
Vinay Sharma, Banasthali University, India

Sessions: Biomass Conversion Methods | Biomass Applications | Biomass Energy Resources | Biomass Power & Thermal

Chair: Magda Constantí, University Rovira I Virgili, Spain
Co-Chair: Ferruccio Pittaluga, University of Genoa, DIME, Italy

11:55-12:15 **Title: Biomass Gasification Technologies for Biochar Production and Energy Generation**
Ferruccio Pittaluga, University of Genoa, DIME, Italy

12:15-12:35 **Title: Nanocatalysts for oxygen removal from biomass derived biofuel**
Antonia Infantes-Molina, Universidad de Málaga, Spain

12:35-12:55 **Title: Bioethanol Production from Perennial Grasses**
Satyawati Sharma, CRDT, IIT New Delhi, India

Lunch Break 12:55-13:40 @ La Place AB

13:40-14:00 **Title: Antimicrobial activity of microalgal strains against pathogenic bacteria and fungal Strains**
Sitwat Aman, The University of Lahore, Pakistan

14:00-14:20 **Title: Biomass Gasification: Sustainable technology for waste to energy**
Sandeep Kumar, Indian Institute of Technology (IIT) Bombay, India

Sessions: Production of Biofuels | Advanced Biofuels & Biochemicals

Chair: **Jinying Yan,** KTH - Royal Institute of Technology, Sweden
Co-Chair: **Anushree Malik,** Centre for Rural Development and Technology, IIT Delhi, India

14:20-14:40
Title: Sustainable Water-Energy-Environment Nexus for Thermal Bioenergy Conversion
Jinying Yan, KTH - Royal Institute of Technology, Sweden

14:40-15:00
Title: Algal-fungal interactions for dewatering and pretreatment of microalgal biomass targeting improved biofuel production
Anushree Malik, Centre for Rural Development and Technology, IIT Delhi, India

15:00-15:20
Title: Microalgae cultivation in continuous reactor using mixotrophic anaerobic effluent: Effect of dilution rate on biomass productivity and tertiary treatment
SERVIO CASSINI, Dept. Environmental Engineering UFES, Brazil

15:20-15:40
Title: Modeling of slow pyrolysis of various biomasses in a rotary kiln using TGA data
Ramiar Sadegh-Vaziri, KTH Royal Institute of Technology, Sweden

15:40-16:00
Title: BIORAISE: a GIS tool for the evaluation of agricultural and forestry available biomass resources and costs in Mediterranean Countries
Eva Sevillano Marco, CEDER-CIEMAT, Spain

Networking & Refreshment 16:00-16:20 @ Europa Foyer

16:20-16:40
Title: Numerical study of the natural-draft flow and heat transfer in abiomass plancha-type cookstove
Alberto Beltrán, Universidad Nacional Autónoma de México, México

16:40-17:00
Title: Ultra thin membrane made by Atomic layer deposition for CO_2 separation
Ying-Bing Jiang,Univ. of New Mexico, USA

17:00-17:20
Title: Advanced liquid biofuels from residue biomass by thermo-catalytic reforming
Andreas Hornung,Fraunhofer Institute for Environmental, Safety, and Energy Technology (UMSICHT), Germany

17:20-17:40
Title: Fast en trained bio-oil production in an entrained flow pilot reaction
Peyrot Marine,CEA LITEN, Grenoble, France

DAY-2

September 05, 2018

Meeting Hall: **Brussels**

09:00-09:05 Introduction

Keynote Forum

09:05-09:50
Title: **World markets for conventional and advanced biofuels over the next five years**
Abhishek Asthana, Hallam Energy, Sheffield Hallam University, United Kingdom

Networking & Refreshment 09:50-10:10 @ Europa Foyer

10:10-10:50
Title: **Energy and Materials from Biomass Pyrolysis**
Gerrit Brem, University of Twente, The Netherlands

Sessions: Bioenergy |Renewable Energy

Chair: Layla Salih Al-Omran, University of Basrah, Iraq
Co-Chair: Harri Ali-Löytty, Tampere University of Technology, Finland

10:50-11:10
Title: **The most important factors influencing human exposure assessments of Brominated Flame Retardants(BFRs) viaindoordustingestion**
Layla Salih Al-Omran, University of Basrah, Iraq

11:10-11:30
Title: **Efficient Use of Sugarcane Bioenergy for Sustainability of Indian Sugar Industry**
Narendra Mohan, National Sugar Institute, Kanpur,India

11:30-11:50
Title: **Operando Investigations of Electrochemical Interfaces for Solar Fuel Production by Ambient-Pressure Photoelectron Spectroscopy**
Harri Ali-Löytty, Tampere University of Technology, Finland

11:50-12:10
Title: **Moroccan energy transition: development of renewable energies and energy efficiency**
Touria Barradi, Ecole Centrale de Casablanca, Morocco

12:10-12:30
Title: **Producing energy through gases from biomass**
Aude Bertrandias, Air Liquide Centre de Recherche Paris-Saclay, France

12:30-12:50
Title: **Estimated production of electrical energy for the controlled landfill in Fez (Morocco) by the US EPA Land-GEM model**
Naimi Youssef, University of Hassan II Casablanca, Morocco

Lunch Break 12:50- 13:35 @ La Place AB

Poster Presentations 13:35-14:20

Poster Judge: Christophe Len, Université de Compiègne, France

BM 01
Title: **Capillary electrophoresis in the analysis of volatile fatty acids, ammonium and nutrients from mesofilic anaerobic digestion samples**
Jasmiina Haverinen, University of Oulu, Kajaani University, Finland

BM 02 **Title: Design Automation of the Manufacturing Process of a Mini – Biodiesel Plant**
Deivison Silveira Santos de Jesus, Automation and Control Engineer – FAMEC, Brazil

BM 03 **Title: Chitin and shrimp shells liquefaction and their use in blend membranes**
Wen-Rong Xu, Hainan University, China

BM 04 **Title: Sustainable Water-Energy-Environment Nexus for Thermal Bioenergy Conversion**
Zhi Zou, KTH - Royal Institute of Technology, Sweden

BM 05 **Title: Pyrolysis of aerobic sewage sludge in fluidized bedreactor between 700 & 830°C: Comparison with woody wastes.**
Sid Ahmed Kessas, Université de Toulouse, CNRS, INPT, UPS, Toulouse, France

BF 01 **Title: Renewable resource-based material synthesized from lignocellulosic biomass**
Chikakao Asada, Tokushima University, JAPAN

BF 02 **Title: Improved Production of Cellulosic Bioethanol using Miscanthus Hydrolysate by Engineered Saccharomyces cerevisiae**
Young-Lok Cha, National Institute of Crop Science, Republic of KOREA

BF 03 **Title: In field integration of winter cereals with corn stover to improve biomass yield and quality**
Kurt D Thelen, Michigan State University, USA

BF 04 **Title: Gasification characteristics of various biomass on thermal decomposition and steam reforming**
Yuya Sakurai, Kogakuin University, Japan

BF 05 **Title: Mechanochemistry for a smart and sustainable biodiesel production under heterogeneous catalysis**
Irene Malpartida Garcia, University of Malaga, Spain

BF 06 **Title: Chemical Characterization of Bio-oils from Cellulose, Hemicellulose and Lignin Pyrolysis**
Martin Stas, University of Chemistry and Technology Prague, Czech Republic

Sessions: Pyrolyis| Bioeconomy

Chair: Stephen Mitchual, University of Education, Ghana

14:20-14:40 **Title: Fuel characteristics of binder free briquettes made at room temperature from blends of Ceiba pentandra and oil palm mesocarp fibre**
Stephen J Mitchual, University of Education, Ghana

14:40-15:00 **Title: I'mgreenTM PE: paving the way for sustainable plastics.**
Martin Clemesha, BRASKEM, Netherlands

15:00-15:20 **Title: Waste-derived carbon: structure, properties and applications**
Swati Sharma, Karlsruhe Institute of Technology, Germany

15:20-15:40 **Title: How to meet the needs of bees? – Diversification of industrial crops cultivation for a more environmentally benign bioeconomy**
Moritz Von Cossel, Universität Hohenheim, Germany

15:40-16:00 **Title: Scalable concepts for microwave pyrolysis**
John Robinson, University of Nottingham, UK

Networking & Refreshment 16:00-16:20 @ Europa Foyer

16:20-16:40 **YRF: L-Lactic acid production from cellulose and hemicellulose extract of Walnut Shell through microwave-assisted autohydrolysis followed by microbial fermentation**
Richard Ahorsu, University Rovira I Virgili, Spain

16:40-17:00	YRF: Tuning biomass pyrolysis for polymer precursors **John Ryan,** University of Nottingham, UK
17:00-17:20	YRF: Title:Understanding the potential of energy crops in heavy metals contaminated soils **Berta Cumbane,** DCTB/METRICS/FCTNOVA, Portugal

17:20-17:40 **YRF: Title: Development of a Novel Liquid-Inerted Microwave Pyrolysis System**
Benjamin Shepherd, University of Nottingham, UK

DAY-3

September 06, 2018

Meeting Hall: **Brussels**

10:00-10:05 **Introduction**

Sessions: Bioalchol and Bioethanol | Biorefineries | Biodiesel

Chair: Julio Sacramento-Rivero, Universidad Autonoma de Yucatan, Mexico

10:05-10:25 **Title: Mechanochemistry for a smart and sustainable biodiesel production under heterogeneous catalysis**
Irene Malpartida Garcia, University of Malaga, Spain

10:25-10:45 **Title: Ex-ante and ex-post sustainability evaluation of a biorefinery: lessons learned from jatropha biodiesel in Yucatan, Mexico**
Julio Sacramento-Rivero, Universidad Autonoma de Yucatan, Mexico

10:45-11:05 **Title: Fundamental Investigations of Electrocatalyzed Transformations of Organic Compounds**
Sneha A. Akhade, Pacific Northwest National Laboratory,Washington, USA

Networking & Refreshment 11:05-11:25 @ Europa Foyer

11:25-11:45 **Title: The strategic use of sugarcane for second generation ethanol production: Cold alkaline extraction pre-treatment**
Danila Morais de Carvalho, Royal Institute of Technology, Sweden

11:45-12:05 **Title: Production of ethanol and longer chain alcohols by fermentation**
Johann Orlygsson, University of Akureyri, Iceland

12:05-12:25 **Title: U.S Biodiesel markets and trends, with a special focus on sustainability.**
Ryan Lamberg, University of California,USA

12:25-12:45 **YRF: Development of Biodiesel Production from Brown Grease**
Mirit Kolet, Ariel University, Israel

Lunch Break 12:45-13:30 @ La Place AB

Panel Discussion & Networking 13:30-14:00 @ Europa Foyer

Awards & Closing Ceremony: 14:00-14:30

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14th Global Summit and Expo on Biomass and Bioenergy

August 26-27, 2019, Vienna, Austria

AGENDA

Title: How the bio economy can contribute to the local economic development in Colombia

A Hector heraldo rojas jimenez
Universidad Externado de Colombia, Colombia

Biography

Hector Rojas has completed his PhD at the age of 39 years from Sorbonne Nouvelle University and he did a postdoctoral research stancy in the Manchester Institute of Innovation Research from University of Manchester. He is proffesor and researcher of the Faculty of Finances Government and International Relations of the Externado Universtity of Colombia. He has published about development, international relationsl and political science among other. At the moment his researchs are about bioeconomy and social innovation.

Title: Fueling of diesel engine by using updraft gasifier

G.Venkatesh
G.PULLA REDDY ENGINEERING COLLEGE, KURNOOL, India

Biography

Venkatesh has completed his masters from JNTUA and also he is having a experience of 5 years in teaching. And also he published 9 papers and attended 3 International conferences and present he is woring as Assistant Professor in Department of mechanical engineering in G pulla reddy engineering college, kurnool, A.p, INDIA.

Title: Integrated Power Generation System from Biogas and Solar

M. Suleman Tahir,
University of Gujrat

Biography

Professor Dr. Suleman Tahir , born on 1971 in Pakistan. Graduated (B.Sc. Chamical engg.) from department of chemical engineering, University of the Punjab, Pakistan in 1996.He worked with Polymer industry (PET, Manufacturing) and.He worked with Polymer industry (PET, Manufacturing) and chloro alkai industry 1996-199 as chemical engineer (shift engineer).Completed MS chemical; engineering 2000 and join academia at NFC, Institute of engineering and research.

SPEAKER SLOTS AVAILABLE

Title: High-energy fuel pellets

Michael J. Ioelovich
Celdesigner, Isreal

Biography

Michael Ioelovich has completed his PhD at the age of 27 years in Latvian Academy of Sciences. Michael Ioelovich was then graduated DSc., Habil. DSc in Latvian Academy of Sciences, and was elected as Leading Scientist and Professor. From 2005 to 2014 Dr. M. Ioelovich worked as chief chemist in chemical department of Designer Energy Co., Rehovot, Israel. From 2014 he works as consult and manager of projects in Celdesigner Co., Rehovot, Israel. Dr. M. Ioelovich published 14 monographs and book chapters, and more than 400 scientific publications in field of structure, chemistry, physics, technology and nanotechnology of biomass, cellulose and synthetic polymers, as well as biochemicals and bioenergy. He is also authors of 14 patents.

Title: Investigation of combustion characteristics of maize stalk, rice husk, bamboo pellets and bamboo-biochars

Martin Amoah,
University of Education, Ghana

Biography

Martin Amoah is working at College of Technology Education, University of Education, Winneba-Ghana

Title: 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

Biography

He is an eminent speaker at various seminars and forums conducted by agencies like MNRE (Ministry of New and Renewable Energy, Govt. of India), CII (Confederation of Indian Industries), PHD Chamber of Commerce, Biomass Associations, World Biomass forums. He has an innate ability to effectively and efficiently manage the complete Biomass Supply Chain and has a deeper insight and vision for the Biomass Industry in the future.

SPEAKER SLOTS AVAILABLE

Title: Thermo-Catalytic Reforming (TCR) of Lignocellulosic Biomass using Steel Slags (SS) as Catalyst

Joao Santos,
University of Birmingham, UK

Biography

Joao is a PhD student at the University of Birmingham developing his project with Fraunhofer UMSICHT institute. He concluded his masters at University of Science and Technology of Lisbon being the best student of his course. After his masters he has worked in two research institutes connected to the biomass and biofuels production. He has given his contribute in 7 papers (1 as main author) and he had the privilege to participate in 2 conferences as a speaker

Title: Design of an Auto thermal Reformer for syngas production

Aysha Sufi
Aston University, United Kingdom

Biography

Aysha Sufi has completed her Bachelor of Engineering in Chemical Engineering from Aston University, United Kingdom. Has completed an Industrial Summer Placement at GlaxoSmithKline, working under the investigative title "Reducing and Quantifying Aeration in specially formulated toothpaste".She is Analytical, resourceful and detail-driven with capabilities in completing multiple projects with competing deadlines. Proficient in identifying and resolving issues. She is a strong team member, with the ability to motivate others to achieve a desired goal whilst maintaining a healthy work atmosphere. Reliable follow-through skills, fulfilling all administrative requirements. Clear communicator, both oral and written with strong interpersonal skills

Title: Biomass and bioenergy is the Powerful Tool for the Poverty reduction and hunger in the World particularly South Asia.

Muhammad Usman,
Agricultural Research System

Biography

Mr. Muhammad Usman, Former Director General of Agricultural Research System, Government of Pakistan who retired from service after a spotless career of about 35 years with senior level experience on research and development of integrated agricultural industries with regard to livestock and dairy development, poultry, aquaculture and apiculture, sustainable agricultural production system, fruits and vegetable, seed production, bioenergy and other cash crops

SPEAKER SLOTS AVAILABLE

Title: Hydrothermal carbonization of lignocellulosic biomass for energy production

Clara Lisseth Mendoza Martinez
Federal University of Minas, Colombia

Biography

Clara L. M. Martinez has experience in chemical engineering, with emphasis on industrial processes, related to thermal conversion treatments involving biomass, such torrefaction, pyrolysis, gasification, combustion and hydrothermal carbonization. Martinez has been currently working at the department of chemical engineering, Federal University of Minas Gerais – Brazil and department of energy systems, Lappeenranta-Lahti University of Technology, Finland. Main areas of academic interest: sustainable systems of energy generation through biomass, modeling, simulation and optimization of industrial processes.

Title: Biomass based rural energy systems in the third world: An Engineering Challenge

Sangeeta Kohli,
Indian Institute of Technology Delhi, India

Biography

Sangeeta Kohli is trained as a mechanical engineer with specialisation in thermal science and engineering and is currently a faculty member at IIT Delhi. She focusses on using her technical training for design, development and analysis of biomass based rural energy systems. She, along with her colleagues and students has developed the smallest downdraft gasifier cookstove using solid biomass at the lab scale, which is being developed as a product. Her team has also been working on systematic design of cookstove testing protocols and for design and field installation of improved pottery kilns, furnaces for bell metal craft and bangle-making. She is particularly interested in working with rural communities for developing technical solutions for the rural energy needs and also encouraging students to take up such projects as part of their engineering education.

Title: A CFD Study of Biomass Fast Pyrolysis in a Pilot-scale Auger Reactor

Salman Jalalifar
University of Tasmania, Australia

Biography

Salman Jalalifar has completed his Master degree from the Faculty of Mechanical Engineering, Tabriz University, Iran. In the year 2016, he started his PhD at University of Tasmania, Australia. He spent three months at Memorial University, St. John's, Canada as a visiting researcher, and currently he is a visiting research student at Macquarie University, Sydney, Australia. He has published seven papers in recognized journals and conference proceedings in the area of heat transfer and combustion.

SPEAKER SLOTS AVAILABLE

Title: The role of desalination in Water-energy-food nexus: An opportunity for Algeria

Nadjib DROUICHE,
Centre de Recherche en Semi-Conducteurs pourl'Energetique ,Algeria

Biography

Nadjib DROUICHE is a senior researcher at the Centre de Recherche en Semi-Conducteurs pourl'Energetique (ALgeria). He is also the head of the environmental team. His research interests include adsorption, membrane processes, electrochemical processes using sacrificial anodes, Advanced Oxidation Processes, and recovery of by-products from industrial waste. He has published more than 90 papers in ISI-ranked journals with more than 1900 citations and his h-index is 28. Dr. Drouiche was awarded TWAS-ARO YAS Prize 2012:Sustainable Management of Water Resources in the Arab Region

Title: Opportunity for converting Agro residues / waste into Gaseous Fuel for Energy - Promoting Sustainable Business Model

D.K Khare
Former Director, Ministry of New and Renewable Energy,India

Biography

Dr Khare worked with Ministry of New and Renewable Energy, Government of India for more than 30 years and actively associated with development of policies and programmes for promoting biomass and bioenergy based energy solutions including production of gaseous fuel from organic waste. He is forest ecologist by education and did doctorate and post doctorate from University of Delhi. He has published around 14 scientific research papers besides author of many reports and other publications.

Title: Highly Clean Biochar for Novel Applications in the fields of Agronomy,Energy, Residential Housing

Ferruccio Pittaluga
Technoforest Ltd, Italy

Biography

Ferruccio Pittaluga, recently retired, has been full professor of Thermal Machines at the University of Genoa. His fields of interests have been Thermo-Fluid Dynamics, Combustion & Gasification, Atmospheric Emissions. In 1998 he established DIME/SCL, the Combustion Laboratory of the University of Genoa, of which has been in charge up to his retirement in 2015.

SPEAKER SLOTS AVAILABLE