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**Scientific Program**

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| **6th May 2019** |
| 1500-1800h | Registration |

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| **7th May 2019** |
| 0800-1700h | Registration |
| 0900-0930h | Opening session |
| 0930-1000h | Plenary 1- Anaerobic Digestion: Dry or Wet? For methane or Volatile fatty acids? **Mohammad Taherzadeh**, University of Boras, Boras, SwedenChair: Duu Jong Lee, China |
| 1000-1030h | Plenary 2- Apply char-based additives to anaerobic bioprocesses: The known and the Unknown, **P.J. He**, Tongji University, Shanghai, ChinaChair: Duu Jong Lee, China |
| 1030-1100h | **Tea/Coffee** |
| 1100-1220h | **Session IA: Anaerobic digestion(R207)****Chairs:**Roger Ruan, USA&Sang Jun Sim, Korea | **Session IB: Bioconversion of agro-industrial residues to fuels and chemicals- I(R208)****Chairs:**Christian Larroche, France& R Sindhu, India | **1100-1220h** | **Session 1: Biowaste treatment process (R104)****Chairs:**Sunil Kumar, India&Guoxue Li,China |
| 1100-1120h | IL 1- Effects of nanoparticles on anaerobic digestion performances,**Duu Jong Lee**, National Taiwan University, Taipei, Taiwan, China | IL 2- Current Status of Bioenergy in the United Sates and the use of Agricultural Residues in Microbial Lipids production as a Potential Biofuel, **Raj Boopathy**, Nicholls University, USA | 1100-1115h | S\_1-Microbial community distribution and enzyme activities in leaching of valuable metals of e-waste from informal sector site, **Abhishek Kumar Awasthi,** Tsinghua University, Beijing, China |
| 1120-1140h | IL 3- Application of Anaerobic Digestion Technology in China, **Xiujin Li**, Beijing University of Chemical Technology, Beijing, China | IL 4- Assessing the sustainability of biotechnological conversion of agricultural residues– the case of developing technologies for producing bioethanol from corn stover, **TH Christensen**, Technical University of Denmark, KongensLyngby, Denmark | 1115-1130h | S\_2-A comparative study on hot air drying and high temperature-humidity drying of recycled solid manure, **Na Duan**, China Agricultural University, China |
| 1130-1145h | S\_3-A double chamber microbial fuel cell-based biosensor for online monitoring biochemical oxygen demand, **Do Hang**, University of Technology, Sydney, Australia |
| 1140-1200h | IL 5- Direct Interspecies Electron Transfer via conductive Materials for Methane Production, **Hee-Deung Park**,KoreanUniversity, South Korea | IL 6- Agro-industrial waste residues for the production of high value chemicals, **P Binod**, CSIR-National Institute for Interdisciplinary Science and Technology, Trivandrum, India | 1145-1200h | S\_4-Treating leachate from hazardous waste landfill through Hydrogen peroxide assisted electrocoagulation (HPAEC), **GautamPratibha**, Shroff S R Rotary Institution of chemical Technology, India |
| 1200-1220h | IL 7- Improving anaerobic digestion efficiency of organic wastes with pyrogenic carbon derived from organic waste, **Weixiang Wu**, Zhejiang University, Hangzhou, China | IL 8- Bioconversion of lignocellulosic waste into biofuels, **Anil K Patel**, Korea University, Seoul South Korea | 1200-1215h | S\_5-Study on High-Efficiency and Large-Scale Biomass Briquette Co-firing and Its Application in Shaanxi Province, **Xuebing Wang**, Xi’an Jiaotong University |
| 1220-1320h | **Lunch** |
| 1220-1430h | **Poster session** |
| 1430-1500h | Plenary 3- Sustainable developments for valorization of lignocellulosic biomass for biofuels and value added chemicals, **ThalladaBhaskar**, CSIR-Indian Institute of Petroleum, Dehradun, India, **(R207)****Chair**- S Venkata Mohan, India |
| 1500-1530h | Plenary 4- Microwave-assisted catalytic fast pyrolysis process and system for complete solid wastes utilization, **Roger Ruan,**Department of Bioproducts and Biosystems Engineering, University of Minnesota,USA, **(R207)****Chair**- S Venkata Mohan, India |
| 1530-1600h | Plenary 5- Community food waste composting: problems and solutions, **Jonathan Wong**, Hong Kong Baptist University, Hong Kong, China, **(R207)****Chair**- S Venkata Mohan, India |
| 1600-1630h | **Tea/Coffee** |
| 1630-1750h | **Session IIA: Treatment and management of solid wastes– Anaerobic Digestion and Resource recovery(R207)****Chairs:**R Boopathy, USA&C Visvanathan, Thailand | **Session IIB: Bioconversion of agro-industrial residues to fuels and chemicals- II(R208)****Chairs:**Piet Lens, Netherlands& Anil K Patel, Korea | **Session 2: Anaerobic digestion (R104)****Chairs:**Xiujin Li, China&Jim J. Wang, USA |
| 1630-1650h | IL 9- Technological Challenges in Municipal Solid Waste Management in the Backdrop of Clean India Mission, **Sunil Kumar,** CSIR-National Environmental Engineering Research Institute, Nagpur, India | IL 10- Organic Wastes Bioconversion via Insect Farming: Opportunities and Challenges, **Samir Khanal,** University of Hawaii, Honolulu, USA | 1630-1645h | S\_6- Methane production and microbial spatial distribution in a novel continuous solid-state anaerobic digester treating lignocellulosic biomass at different stirred methods, **Xuguang Ma**, Leshan Normal University, China |
| 1650-1710h | IL 11- **Li Jinhui**，Tsinghua University, Beijing, China | IL 12- Bioconversion of Waste: PHA producing microbial community analysis in a mixed culture process, **Rajeshwar D.Tyagi**, INRS, University of Quebec, Canada | 1650-1705h | S\_7- Self-heating production characteristic of anaerobic digestion using rice straw, **Luo Tao**, Biogas Institute of Ministry of Agriculture, China |
| 1705-1720h | S\_8- Microbial community dynamics in anaerobic digestion of corn stalk exposed to different overload scenarios, **Na Duan**, China Agricultural University, China. |
| 1710-1730h | IL 13- Microbial clean tech driving resource recovery: Production and use of compost, biogas, mineral fertilizers and microbial protein from organic kitchen waste, wastewater and manure, **SE Vlaeminck**, Ghent University, Gent, Belgium | IL 14- Valorization of solid agri wastes: Production of iso-prenoids from rice straw by Bacillus subtilis ,**PreetiChaturvedi**, CSIR-Indian Institute of Toxicology Research, Lucknow, India | 1720-1735h | S\_9- Performance of a membrane bioreactor during recovery of volatile fatty acids from food wastes at high organic loading rate, **Wainaina Steven**, University of Boras, Sweden. |
| 1735-1750h | S\_10- Anaerobic digestion of organic wastes: Opportunities and challenges, **KC Surendra**, University of Hawaii at Manoa, USA. |
| 1730-1750h | IL 15- The role of biochar on enhancing anaerobic digestion, **Hongbin Liu**, Institute of Agricultural and Regional Planning, Chinese Academy of Agricultural Sciences, China | IL 16- Xylitol production from pentose rich, acid pre-treated liquor of sorghum stover using Engineered *Corynebacteriumglutamicum,* **K MadhavanNampoothiri**, CSIR-National Institute for Interdisciplinary Science and Technology, Trivandrum, India | 1750-1805h | S\_11- Effect of salinity on pollutant removal and EPS characteristics by aerobic fluidized bed biofilm reactor, **Tian Wan**, Xi’an University of Technology, China. |
| 1750-1810h | IL 17- Reflect on boosting resource utilization of livestock manure, **XindiLiao**, South China Agricultural University, Guangzhou, China  | IL 18- Micro droplet microfluidics provide promising solutions to algae-based CO2 treatment technologies: strain analysis and development, **Sang Jung Sim**, Korea University, Seoul, South Korea | 1805-1820h | S\_12- Optimization of biochar dosage for methane production and process stability during anaerobic digestion, **Junyi Ma**, Northwest A&F University, China |
| 1810-1830h | IL 19- Towards multifunctional agriculture and sustainable use of biomass resources, **Shaolin Chen**, Northwest A&F University, Yangling, China | IL 20- Rice husk-based solid acid for hydrolysis and saccharification of corncob, **Guangming Zhang**, Renmin University, China |  |  |
| 1830-1930h | **Cultural Program** |
| 1930-2100h | **Dinner** |

**Scientific Program**

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| **8th May 2019** |
| **0830-1030h** | **Session IIIA: Thermo-chemical conversion of agro-industrial residues- Biochars(R207)****Chairs:**T Bhaskar, India & PJ He, China | **Session IIIB: Bioconversion of agro-industrial residues to fuels and chemicals- III (R208)****Chairs**Mohammad Taherzadeh, Sweden& K MadhavanNampoothir, India | **0830-1030h** | **Session\_3a: Waste to energy(R104)****Chairs**:Samir Khanal, USA&Li Jinhui,China |
| 0830-0850h | IL 21- SMART Biochar System - Sustainable Solid Waste Treatments and Management, **Yong Sik Ok**, Korea University, Seoul, South Korea | IL 22- Biohydrogen production by dark fermentation: impact of spatial heterogeneities and modeling of an anaerobic bioreactor, **Christian Larroche**, Universite Clermont Auvergne, Clermont Ferrand, France | 0830-0845h | S\_13-Microbial fuel cell for nutrient recovery and electricity generation from municipal wastewater under different ammonium concentrations, **Yuanyao Ye**, University of Technology Sydney, Australia |
| 0850-0910h | IL 23- Biochar-supported Catalysts for Biorefinery and Pollution Control, **Daniel CW Tsang**, Polytech University, Hong Kong, China  | IL 24- Dark fermentative biohydrogen production and active microbial community in mesophilic (37 °C) and thermophilic (55-70 °C) fluidized bed reactors, **Piet Lens**, IHE, Delft, Netherlands | 0845-0900h | S\_14-Research Progress on Medium Chain Fatty Acids (MCFA) production from Biomass Waste by Chain Elongation, **Hongzhi Ma**, University of Science and Technology Beijing, China |
| 0900-0915h | S\_15-Optimization of biodiesel synthesis using immobilized bio-support catalysts in packed bed reactor from nonedible (highly acidic) oil by response surface methodology, **Kumar Dilip**, IIT (BHU), Varanasi, India |
| 0910-0930h | IL 25- Converting agricultural wastes to value-added biochar and metal-biochar composites for agricultural and environmental applications, **Jim J. Wang**, Louisiana State University AgCenter, [Baton Rouge,](http://maps.google.com/?q=313%20M.%20B.%20SturgisBaton%20RougeLA70803)  USA | IL 26- Profitable surfactant assisted homogenization of aquatic macrophytes for biofuel production: investigation on lignin inhibition and its possible solutions, **Rajesh Banu**, Chennai, India | 0915-0930h | S\_16-Fuel Characteristics of Biomass Sources: Waste to Wealth, **Wahid Fazli**, The University of Swabi, Pakistani |
| 0930-0945h | S\_17-Emission Characteristics of Polycyclic Aromatic Hydrocarbons During Co-processing of Coal Liquefaction Residue in Texaco Coal-water Slurry Gasifier, **Xuebing Li**, Beijing Normal University, China |
| 0930-0950h | IL 27- Recent Development of Engineered Biochar and Its Environmental Applications, **Bin Gao**, Agricultural & Biological Engineering, University of Florida, Gainesville, USA | IL 28- Bioconversion of food and kitchen waste to biofuels, chemicals, enzymes and biopolymer, **R Sindhu**, CSIR-National Institute for Interdisciplinary Science and Technology, Trivandrum, India | 0945-1000h | S\_18-The Description Model of Fiber Dispersion for Wheat Straw Filled Polyethylene Composites, **Xiangan Lu**,Guangling College of Yangzhou University, China |
| 0950-1010h | IL 29- Conversion of urban green waste to biochar and its efficacy in environmental remediation, **Hailong Wang**, Foshan University, Foshan, China | IL 30- **Vinod Kumar**, Center of Innovation and Industrial Bioprocessing, Mohali, India | 1000-1015h | ~~S\_19-Bioconversion of food and kitchen waste to biofuels, chemicals, enzymes and biopolymer,~~ **~~Raveendran Sindhu~~**~~,Indian Institute of Technology, (BHU), Varanasi, India~~ |
| 1010-1030h | **Tea/Coffee** |
| 1030-1250h | **Session IVA: Bio- and Non-bio solid waste management(R207)****Chair:**Yong Sik Ok, Korea&PreetiChaturvedi, India | **Session IVB- Bioconversion, Bioremediation andbiotreatment- I(R208)****Chair:**P Binod, India&SE Vlaeminck, Belgium | 1030-1250h | **Session\_3b: Waste to Energy (R104)****Chair:**Daniel Tsang, Hong Kong&TH Christensen, Denmark |
| 1030-1050h | IL 31- Co-Fueling of Plastic Waste in Cement Industry, **C. Visvanathan**, Asian Institute of Technology, Bangkok, Thailand | IL 32- Comprehensive Utilization of cereal straws for biomaterials and bioethanol based on a biorefinery scenario, **Run-Cang Sun**, Beijing Forestry University, Beijing, China  | 1030-1045h | S\_20-Evaluating the bioenergy potential of sugar cane residue using TG-FTIR-MS combined with model-free integral methods, **Song Fanhao**, Chinese Research Academy of Environmental Sciences, China |
| 1050-1110h | IL 33- Utilisation of Construction and Demolition Waste: Sequestration of CO2 and its future applications, **Balendu S.Giri**, Indian Institute of Technology (BHU), Varanasi, India | IL 34- Performance of a membrane bioreactor during recovery of volatile fatty acids from food wastes at high organic loading rate, **Steven Wainaina**, University of Borås, Borås, Sweden | 1045-1100h | S\_21-Temporal-spatial dynamics of livestock waste and evaluation of reintegrating of livestock with land resources and environment in China,**Shuxia Wu**,IARRP, China |
| 1100-1115h | S\_22-Bio-electrofermentation coupled Ion Substitution Electrodialysis for Improved Carbon Conversion to Carboxylic Acids,**Binghua Yan**, Qingdao Institute of Bioenergy & Bioprocess Technology Chinese Academy of Sciences, China |
| 1110-1130h | IL 35- Challenges and Efforts of Regional Manure Management in China, **Hongbin Liu**, Institute of Agricultural Resources and Regional Planning, CAAS, Beijing, China | IL 36- The source of estrogens and their environmental behaviors in the agricultural soil systems, **Yanxia Li**, Beijing Normal University, Beijing, China | 1115-1130h | S\_23-Transformation of Lignocellulosic Biomass into Furfural and 5–Hydroxymethylfurfural over modified zeolites: Solvent Effect on the product distribution, **Luxin Zhang**,Xi’an University of Architecture and Technology, China |
| 11300-1150h | IL 37- Towards improving manure management chain in China, **Lin Ma**, Institute of Genetic and Developmental Biology, CAS, Shijiazhuang, China | IL 38- Studies of fungal diversity on plant biomass and its role in the enhancement of industrial important dendrobine,**SurendraSarsaiya**, India | 1130-1145h | S\_24-The Description Model of Fiber Dispersion for Wheat Straw Filled Polyethylene Composites, **Xiangan Lu**, Guangling College of Yangzhou University, China |
| 1150-1210h | IL 39- Comparative study on traditional composting and windrow composting of dairy manure, **Ji Li**, China Agricultural University, Beijing, China | IL 40- Sediment [in-situ](http://dict.youdao.com/w/in-situ/) bio[remediation](http://dict.youdao.com/w/remediation/) by immobilized microbial activated beads, **Rajendra P Singh**, PR China | 1145-1200h | S\_25- Research on co-production of ethanol and volatile fatty acid from food waste, **Hongzhi Ma**, University of Science and Technology Beijing, China |
| 1210-1345h | **Lunch** |
| 1345-1415h | **Plenary 6-** Renewable chemicals and fuels valorization from waste in the closed loop biorefinery format,**S.Venkata Mohan**, CSIR-Indian Institute of Chemical Technology, Hyderabad, India, **(R207)****Chair-**Rajeshwar D Tyagi, Canada |
| 1415-1445h | **Plenary 7-** Controlling wastes leaching by a green technology toward a safer environment,**HaoHuu Ngo**, University of Technology, Sydey, Australia, **(R207)****Chair-**Rajeshwar D Tyagi, Canada |
| 1450-1610h | **Session VA: Solid waste Management- Landfills, composting, others(R207)****Chairs:**Jonathan Wong, Hong Kong , China &Vinod Kumar, India | **Session VB: Bioremediation and biotreatment- II(R208)****Chairs:**HuuHao Ngo, Australia&Rajendra P Sigh, China | **1450-1610h** | **Session 4: Composting (R104)****Chairs:**Run-Cang Sun, China&Balendu S Giri, India |
| 1450-1510h | IL 41- Landfill groundwater pollution prevention and remediation, **Beidou Xi**, Chinese Research Academy of Environmental Sciences, Beijing, China | IL 42-Advanced benefit of biochar as a supercapacitor after its use as a sorbent of heavy metals from wastewater,**Xinde Cao**, Shanghai Jiao Tong University, Shanghai, China | 1450-1505h | S\_26-The progress of composting technologies from static heap to intelligent reactor the benefit and limitation, **Zelong Liu**, Center for Agricultural Resources Research，IGDB，CAS |
| 1510-1530h | IL 43- Evaluation of biomass hydrochar as a novel asphalt modifier, **Shicheng Zhang**, Fudan University, China | IL 44-Synthesis of porous carbons from lignin-rich biomass and PVC plastic via one-step pyrolysis for VOCs adsorption, **Yafei Shen**, Nanjing University of Information Science and Technology, Nanjing, China | 1505-1520h | S\_27-Ammonia abatement through acidification and its impact on emission of nitrous oxide during composting: pollution swapping, **Yubo Cao**, Chinese Academy of Science, China |
| 1520-1535h | S\_28-Effects of vinasse as additive on the organic matter biodegradation and microbial communities during agricultural waste composting, **Jiachao Zhang**, Hunan Agricultural University, China |
|  | IL 45- Stabilization process and recycling of aged refuse at refuse landfill, **Youcai Zhao**, Tongji University, Shanghai, China | IL 46- Enhanced Hg(II) and tetracycline removal by ball-milled magnetic nanobiochar and its impact on polluted water reclamation, **Ronghua Li**, Northwest A&F University, Yangling, China | 1535-1550h | S\_29- Antibiotic Resistance Genes and Associated Microbial Community during Chicken Manure Composting, **Mukesh Kumar Awasth**i, Northwest A&F University, China |
| 1550-1610h | IL 47- Waste Conversion and Resource Recovery from Wastewater by Ion Exchange Membranes, **Yang Zhang**, Chinese Academy of Sciences, Qingdao, China | IL 48- Novel wet pyrolysis providing simultaneous conversion and activation to produce surface-functionalized biochars for cadmium remediation, **Nan Zhou**, Hunan Agriculture University, China | 1550-1605h | S\_30-Appropriate amount of phosphogypsum as compost additive can promote the humification process of composting, **Xu Zhi**, College of Resources and Environmental Science, Yunnan Agricultural University, China |
| 1610-1630h | **Tea/Coffee** |
| 1630-1730h | **Session VIA: Composting(R207)****Chairs:**Youcai Zhao, China&Steven Wainaina, Sweden | **Session VIB: Bioremediation and biotreatment- III(R208)****Chairs:**Hee-Deung Park,Korea&Hailong Wang, China | **1630-1730h** | **Session 5: Pollution Remediation (R104)****Chairs:** Lin Ma, China&Guangming Zhang, China |
| 1630-1650h | IL 49- Regulation and control technology of stench during high temperature composting, **Guoxue Li**, China Agricultural University, Beijing, China | IL& 50- Iodide removal from hydraulic fracturing wastewater by Cu2O-modified activated carbon, **Jianzhong Zheng**,College of Resources and Environment, University of Chinese Academy of Sciences, China | 1630-1645h | S\_31-Preparation of Biochar-Supported Zerovalent Iron (ZVI/BC)by Co-Pyrolysis Of Natural Hematite and Pinewood:Enhanced Electron Transfer by Graphitic Carbon Toward Chromate, Mingyue Zhao, Yangzhou University, China |
| 1645-1700h | S\_32-Progress of waste soil and residue resource utilization in large-scale projects in the Yangtze River Basin, **Jiangming Li**, Yangtze River Scientific Research Institute, China |
| 1650-1710h | IL 51- Effect of dicyandiamide and nitrate addition on N2O emissions during pig manure composting and corresponding microbial responses, **Jiang Tao**,Leshan Normal University, China | IL 52- Sawdust Fe/S/Biochar in together with *Thiobacillus*for enhancing heavy metal phytoavailability in soil remediation,**Panyue Zhang**, Beijing Forestry University, Beijing, China | 1700-1715h | S\_33-Effect of Deashing on Physicochemical Properties of Sludge-based Biochar and its Pb Adsorption Capacities, **Jingai Shao**, Huazhong University of Science and Technology, China |
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| 1710-1730h | IL 53-Effect of Black Soldier Fly on organic waste composting under optimized condition, **Zengqiang Zhan**g, Northwest A&F University, Yangling, China | IL 54- A study on release mechanism of benzene in biomass leachate, **Lei Deng**,Xi'an Jiaotong University, China |  |  |
| 1735-1800h | **Poster awards and closing session(R207)** |

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| **9th May 2019** | **Technical Visits** |