



ABOUT THE CONFERENCE

Growing urban population and industrialization in Asia-Pacific region posing serious environmental issues including solid waste disposal, demand for N-P fertilizers, soil erosions due to inadequate carbon return, greenhouse gas emissions and high-dependency for fossil-fuels/energy. All these issues are interlinked and required collective efforts from scientists, engineers, policy makers and non-profit organizations to develop region specific management plans to achieve sustainable waste management. Developing best waste recycling practices by integrated biotechnology will be a 'key' to tackle the multi-dimensional issues. But, the current situation in Asia-Pacific region is not very appealing, while the technologies are not well integrated to meet the requirements and to reach the goal of sustainability. Although the waste is considered as a resource, it is not much exploited for potential bio-products development or bio-energy recovery in Asia-Pacific region. Therefore, a multidimensional approach and efficient knowledge transfers are required to deal with the alarming situation. In recent years, the bio-refinery concepts in the field of waste management to produce bio-fuels, -polymers, -diesel, -nanomaterials and -fertilizers are in limelight from both developed and developing countries. Therefore, this conference focuses on sharing the developments and assessing the advancements in biotechnology related to waste conversion and applicability for Asia-Pacific countries.

CONFERENCE THEMES

Parallel sessions will be organized to accommodate large number of oral presentations. Keynote and plenary lectures will be given by experts and related authorities on 10 specialized themes as follows,

1. Organic waste sources and recycling trends in Asia-pacific Region
2. Biotechnology and molecular-engineering for waste conversion
3. Bio-fuels and bio-products from waste resources
4. Greenhouse gas emissions and mitigations in waste management sectors
5. Integrated biotechnologies for novel product developments
6. Decontamination of emerging/persistent organic pollutants and their fate
7. Bio-nano technology and applications in waste treatment
8. Bio-electro and bio-magnetic technology for energy or fuels

9. Bio-instrumentation in waste management
10. Industrial bio-engineering and process scale-up

POST- CONFERENCE WORKSHOP

A pre-conference workshop on one day training in "Anaerobic Digestion and Plant Operation" will be organized on 8th December 2016 to provide hands-on information to relevant stakeholders.

TECHNICAL TOUR

Half-day field trip will be organized on 8th December 2016 of conference so as to introduce the local waste treatment and management facilities to the local and overseas participants.

LOCAL ORGANIZING COMMITTEE

Chairman

Prof. Jonathan Wong Hong Kong Baptist University

Local Members

Mr. Elvis Au	Environmental Protection Department
Prof. Guang Hao Chen	Hong Kong University of Science and Technology
Dr. Ka Man Lai	Hong Kong Baptist University
Mr. Barry Lee	ATAL Engineering Ltd.
Dr. Carol. S.K. Lin	City University of Hong Kong
Dr. Daniel C.W. Tsang	Hong Kong Polytechnic University
Mr. Kenny Wong	Hong Kong Productivity Council
Dr. Tong Zhang	The University of Hong Kong

WHO SHOULD PARTICIPATE

Participants coming from local and overseas institutes, professionals in waste management business and climate change, particularly members of Hong Kong Waste Management Association and Hong Kong Institute of Engineers, researchers, consultants, NGOs, government officials and students. Interested parties and the general public will also be invited to the public lecture.

INTERNATIONAL SCIENTIFIC COMMITTEE

Dr. Sandhya Babel, Thammasat University, Thailand
 Dr. Rajasekhar Balasubramanian, National University of Singapore, Singapore
 Dr. Hoysala. N. Chanakya, Indian Institute of Science, India

Prof. William Clarke, University of Queensland, Australia
 Dr. Ka Yu Cheng, CSIRO, Australia
 Prof. Qian Chen, China Agricultural University, P.R. China
 Prof. William Clarke, University of Queensland, Australia
 Prof. Klaus Fricke, Technical University of Braunschweig, Germany
 Dr. Suchithra Thangalazhy, Gopakumar University of Nottingham (Malaysia), Malaysia
 Prof. Ping Jing He, Tongji University, P.R. China
 Dr. Kirsten Heimann, James Cook University, Australia
 Prof. Goen Ho, Murdoch University, Australia
 Dr. Pasad kaparaju, Griffith University, Australia
 Dr. Anthony Lau, University of British Columbia, Canada
 Dr. Katia Lasaridi, Harokopio University, Greece
 Prof. Duu-Jong Lee, National Taiwan University, Taiwan
 Prof. Piet Lens, UNESCO-IHE, The Netherlands
 Prof. Ji Li, China Agricultural University, P.R. China
 Prof. Rundong Li, Shenyang Aerospace University, P.R. China
 Dr. Jing Liu, Lund University, Sweden
 Prof. Romeela Mohee, University of Mauritius, Mauritius
 Prof. Kumarasamy Murugesan, Periyar University, India
 Prof. Michael Nelles, University of Rostock, Germany
 Prof. Yong Sik Ok, Korea Biochar Research Center, Korea
 Prof. Ashok Pandey, CSIR-Trivandrum, India
 Dr. Deepak Pant, VITO-Flemish Institute for Technology and Research, Belgium
 Prof. Agamuthu Pariatamby, University of Malaya, Malaysia
 Dr. Pratap C. Pullamanapallil, University of Florida, USA
 Prof. Hojae Shim, University of Macau, Macau
 Dr. Jean-Philippe Steyer, INRA-LBE, France
 Dr. Shiyong Sun, Southwest University of Science and Technology, P.R. China
 Prof. Rao Y. Surampalli, GIEES, USA
 Prof. Rajeshwar D. Tyagi, INRS, Quebec, Canada
 Prof. Chettiyappan Visvanathan, Asian Institute of Technology, Thailand
 Dr. S. Venkata Mohan, CSIR-IICT, Hyderabad, India
 Dr. Qitang Wu, South China Agricultural University, P.R. China
 Prof. Bing Xie, East China Normal University, P.R. China

Dr. Qiyong Xu, Peking University, P.R. China
 Dr. Suyun Xu, University of Shanghai for Science and Technology, P.R. China
 Prof. Lixiang Zhou, Nanjing Agricultural University, P.R. China
 Prof. Shungui Zhou, Fujian Agriculture and Forestry University, P.R. China

KEYNOTE SPEAKERS

Dr. SK Shin

Topic: Food Waste Management in Korea for Achieving Green Growth

Dr. PC Puallamanappallil

Topic: Integrating Thermochemical with Biological Process for Recovery of Lactic Acid (Biodegradable) Polymer

Prof. RD Tyagi

Topic: Problems and Challenges in Microbial Biodiesel Production

Prof. P Agamuthu

Topic: Organic Resource Recycling Trends from Asia-Pacific Countries

Prof. A Pandey

Topic: Sorghum Biomass-Based Biorefinery for the Production of Fuels and Chemicals

Prof. K Fricke

Topic: Biodigestion of Solid Residues-Experiences in Germany

Prof. W Clarke

Topic: The Uptake of Anaerobic Digestion-Push versus Pull Factors

Prof. RY Surampalli

Topic: Bioreactor Landfills for Sustainable Management of Municipal Solid Waste

Prof. DJ Lee

Topic: Environmental Applications using Microbial Fuel Cell

PUBLICATIONS

Interested parties are encouraged to submit abstract for oral and poster presentations. All accepted abstracts and papers will be published in the conference proceedings. Selected papers from the conference will be published in a special issue of "Biotechnology for Waste Conversion" in Bioresource Technology (IF-4.917), Elsevier.

