

**Call for
Abstract**

Last Day for
Early Bird Rates
30th Sep 2024



International Conference on
**Advanced Bioprocessing
Technologies for
Biomass Conversion -
Sustainability & Bioresource
Management (IBA-IFIBiop XI)**

1st - 6th December 2024 | Hong Kong & Dongguan



Funded by



環境及自然保育基金
ENVIRONMENT AND CONSERVATION FUND

Organised & Hosted By



THE HONG KONG
POLYTECHNIC UNIVERSITY
香港理工大學



香港科技大學
THE HONG KONG
UNIVERSITY OF SCIENCE
AND TECHNOLOGY



APASUM
Asia-Pacific Association for
Sustainable Waste Management

ABOUT THE CONFERENCE

Growing urban population and industrialization pose serious environmental issues including solid waste disposal, decreased soil quality, inadequate nutrient recycling, climate change and high-dependency on fossil-fuels. All these issues are interlinked and to offset or reduce the impacts, collective efforts are required from different stakeholders to develop specific technologies for meeting sustainable development goals. Biomass resources are one of the greatest renewable energy sources and secondary biomaterial productions. Developing biomass resources conversion practices by advanced biotechnology will be a key to tackle the multi-dimensional issues. As for Hong Kong, municipal organic waste is the major type of biomass resources. Although landfilling remains the main treatment technology in Hong Kong, it is environmental unsustainable in view of the decline land space and materials resources.

It is considered a low priority in waste management hierarchy. Therefore, a multi-dimensional approach and efficient knowledge transfers are required to deal with the alarming problem. Recently, advanced bioprocessing for conversion of biomass resources to chemicals, materials, energy and food are in limelight from both developed and developing countries. Therefore, the proposed conference focused on a timely issue with the aim to bring successful case studies and research innovations from developed and developing countries about advanced bioprocessing for conversion of biomass resources, which will be beneficial to Hong Kong and other Asia-Pacific countries. Also, the conference will provide networking opportunities for young researchers to exchange ideas with eminent scientists during the conference, which will ultimately benefit the technological development in Hong Kong.

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 several specialized themes as follows,

BIOPROCESSES AND PRODUCTS DEVELOPMENT

- BPD1 Artificial intelligence/machine learning in bioprocess development
- BPD2 Bioprocess optimization and media engineering
- BPD3 Genetic and metabolic engineering for bioprocess developments
- BPD4 Bioelectrochemical technology development
- BPD5 Biofertilizers & Biopesticides
- BPD6 Biopolymers & Biosurfactants
- BPD7 Enzymes & proteins
- BPD8 Organic acids
- BPD9 Other metabolites and products
- BPD10 Bioinstrumentations and process controls
- BPD11 Industrial bio-engineering and process scale-up

BIOFUELS AND BIOREFINERIES

- BAB1 Algal biorefineries
- BAB2 Lignocellulosic biorefineries
- BAB3 Bioethanol, biodiesel & biobutanol production
- BAB4 Biohydrogen and biomethane production
- BAB5 Biofuels from algae
- BAB6 Life-cycle assessment in biorefinery scenarios

- BAB7 System analysis & techno-economics of biofuels
- BAB8 Circular bioeconomy and energy & environmental sustainability

BIOLOGICAL WASTE TREATMENT

- BWT1 Biotechnology and molecular-engineering in waste management (including aerobic digestion, anaerobic digestion)
- BWT2 Integrated biotechnologies for solid waste treatment
- BWT3 Biodegradation of toxic compounds
- BWT4 Bioremediation of industrial wastes
- BWT5 Environmental bioengineering
- BWT6 Phytoremediation of wastewaters

FOOD BIOPROCESS AND ENGINEERING

- FBE1 Innovative and emerging technologies for food bioprocesses
- FBE2 Fermented foods
- FBE3 Intelligent food processing systems
- FBE4 Probiotics and nutraceuticals

THERMOCHEMICAL TECHNOLOGY FOR BIOWASTE MANAGEMENT

- TTBM1 Biochar- production and applications for environmental applications
- TTBM2 Combustion, pyrolysis and gasification
- TTBM3 Hydrothermal processes

POST-CONFERENCE SYMPOSIUM

A two-day symposium on "Advanced Bioprocessing for Biomass Waste Conversion" will be held on December 5th - 6th, 2024. This symposium will be followed by a technological tour in Dongguan, China.

Transportation and accommodation from Hong Kong to Dongguan will be arranged for selected invited speakers.

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.

KEYNOTE SPEAKERS

Prof. Claude-Gilles Dussap, Universite Clermont Auvergne, France

Prof. Duu-Jong Lee, City University of Hong Kong, Hong Kong SRA

Prof. Venkata Mohan S, CSIR-Indian Institute of Chemical Technology, India

Prof. Huu Hao Ngo, University of Technology Sydney, Australia

Prof. Ashok Pandey, CSIR-Indian Institute of Toxicology Research, India

Prof. Roger Ruan, University of Minnesota, United States

Prof. Jonathan W.C. Wong, Dongguan University of Technology, China

PUBLICATION

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 in System MicroB & BioM, Springer Nature.

ORGANIZING COMMITTEE

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- Gnansounou, Edgard**, Swiss Federal Institute of Technology Lausanne, Lausanne, Switzerland
- Gupta, Vijai Kumar**, University of Stavanger, Stavanger, UK
- Héctor A. Ruiz**, Autonomous University of Coahuila Faculty of Chemistry Sciences, Mexico
- Janecek, Stephen**, Institute of Molecular Biology, Bratislava, Slovakia
- Karimi, Keikhosro**, Department of Chemical Engineering, Vrije Universiteit Brussel, Belgium
- Kaul, Sunil**, National Institute of Advanced Industrial Science & Technology, Japan
- Kim, Sang Hyoun**, Yonsei University, Seoul, South Korea
- Koch, Konrad**, Technical University of Munich, Garching, Germany
- Koutinas, AA**, University of Patras, Patras, Greece
- Kumar, Gopalakrishnan**, University of Stavanger, Norway
- Lam, Su Shiung**, Universiti Malaysia Terengganu, Malaysia
- Lei, Zhongfang**, University of Tsukuba, Tsukuba, Ibaraki, Japan
- Mannina, Giorgio**, University of Palermo, Palermo, Italy
- Maroušek, Josef**, Institute of Technology and Business, Czech Republic
- Meneses, Lisandra**, Estonian University of Life Sciences, Estonia
- Mohan, Venkata S**, CSIR-Indian Institute of Chemical Technology, Hyderabad, India
- Nigam, Poonam Singh**, Ulster University, UK
- Oeschner, Hans**, University of Hohenheim, Germany
- Pant, Deepak**, Flemish Institute for Technological Research, Mol, Belgium
- Papamichael, EM**, University of Ioannina, Ioannina, Greece
- Park, Sunghoon**, Ulsan National Institute of Technology, Ulsan, South Korea
- Park, Young-Kwon**, Seoul National University, Seoul, South Korea
- Patel, Anil Kumar**, National Kaohsiung University of Science and Technology, Taiwan
- Piechota, Grzegorz**, GPCHEM- Laboratory of Biogas Research and Analysis, Poland
- Rene, Eldon**, IHE Delft Institute for Water Education, Delft, the Netherlands
- Rozhkova, Aleksandra**, Russian Academy of Sciences, Moscow, Russia
- Ruan, Rongsheng Roger**, University of Minnesota, St. Paul, Minnesota, USA
- Ruiz, Hector A**, Autonomous University of Coahuila, Mexico
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- Tong, Yen Wah**, National University of Singapore, Singapore
- Tuan, Hoang A**, Ho Chi Minh City University of Technology (HUTECH), Vietnam
- Tyagi, Rajeshwar**, BOSK Bioproducts, Quebec, Canada
- Vandenberghe, Luciana**, Federal University of Paraná, Curitiba, Brazil
- Wadhwa, Renu**, National Institute of Advanced Industrial Science & Technology, Japan
- Wilkins, Mark**, University of Nebraska, Lincoln, USA
- Yu, Siming**, University of Glasgow, Glasgow, UK
- Zhang, Quanguo**, Henan Agricultural University, Zhengzhou, China

REGISTRATION

Main conference (1-4 December 2024, Hong Kong)

		Early Bird Rates (HK\$) (till 30 Sept 2024)	Normal Registration (HK\$) (after 1 Oct 2024)
IBA/BRSI Members	Full Delegates	\$ 3600	\$ 4500
	Students	\$ 1080	\$ 1350
	Accompanying person	\$ 900	\$ 1080
Non-IBA/BRSI Members	Full Delegates	\$ 4000	\$ 5000
	Students	\$ 1200	\$ 1500
	Accompanying person	\$ 1000	\$ 1500

Symposium (5-6 December 2024, Dongguan)

All	\$ 2000
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* Include transportation, 2 nights' accommodation and meals in China.

SPONSORSHIP

The conference would undoubtedly provide you with a unique opportunity to gain a prominent vision and explore business opportunities among various stakeholders in the area of Sustainability and Resource Management.

The interested parties are invited to fill in the Sponsorship/ Donation Form which can be provided upon request by contacting the Secretariat. Your support and contribution would make a significant difference in achieving the goal of this conference.

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Poster promotion space	1	×	×	×	×



IMPORTANT DATES

01st April 2024	Contributory abstract submission opens
31st August 2024	Contributory abstract submission closes
10th September 2024	Acceptance notification
30th September 2024	Registration closes at early bird rate
31st October 2024	Registration closes with normal fee
31st October 2024	Registration cancellation closes

ABOUT HONG KONG

Hong Kong, which is renowned as the Events Capital of Asia, has developed into one of the world's top financial centres. Notorious for its expansive skyline and deep natural harbour, its identity as a cosmopolitan centre where east meets west is reflected in its cuisine, cinema, music and traditions. November-December will be the best time to visit Hong Kong. Please visit Hong Kong Tourism Board's website to get to know more about this metropolitan city and weather reports.

[http:// www.discoverhongkong.com/login.html](http://www.discoverhongkong.com/login.html)

CONFERENCE SECRETARIAT

Please address all your queries/requests/submissions to the IBA-2024 secretariat :

 [852] 3411 6658

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 <https://jhanwarassociates.in/iba2024/index>