

# **International Conference on Sustainable Biowaste Management (SBM 2021)**

## **Conference Programme**

(Tentative)

### **Conference Theme**

Increasing urban population and industrialization are the key factors causing serious global environmental problems including increased solid waste generation, decreased soil quality, inadequate nutrient recycling, and increased emission of greenhouse gases. Similar situation is faced in densely populated Hong Kong which generates over 10,000 tonnes of municipal solid waste per day, of which 35% is food waste. Landfilling remains the main treatment technology which has additional environmental consequences. All these issues are interlinked and therefore there is a pressing need to develop integrated biotechnological approaches which allow efficient (bio)organic waste conversions for production of chemicals, materials, energy and food to provide greater profitability and environmental sustainability. However, current situation of such technologies overall in Asia including Hong Kong is not very appealing and technologies are not well integrated to achieve the goal of sustainability. Therefore, SBM 2021 creates a timely platform to bring successful case studies and research innovations from developed and developing countries and devise strategies for waste management industry which is expected to face a huge transition with more business opportunities.

In the past, our four international conferences, ICSWHK 2011, ICSWHK 2013, ICSWHK 2015 and BioWCHK 2016 have provided a vibrant interactive platform for exchanging expertise. Following the huge success of these conferences, SBM 2021 with its special focus on biological waste management through integrated approaches will further provide impetus to the available and future technologies through critical evaluation. The outcome will have immense benefit to Hong Kong, Asia-Pacific partners and Western countries through knowledge exchange, fostering of collaborations and development of appropriate waste management technologies.

### **Conference Venue**

The Conference is hosted by the Institute of Bioresource and Agriculture and Sino-Forest Applied Research Centre for Pearl River Delta Environment, the Hong Kong Baptist University, Hong Kong SAR, P.R. China. It will be held online from 12-15 April 2021.

## Instructions for Oral Presentations

### Instructions for Oral Presentations Preparation

#### Plan your presentation

Each presentation is scheduled for 30 minutes for Keynote Speeches, 20 minutes for Invited Speeches and 15 minutes for oral presentation (12 minutes for presentation and 3 minutes for questions and discussion). If the audience has additional questions, they will be asked to discuss their questions with the presenter after the session. No extension of the time set for presentation can be accepted. In fact, as there will be 3 parallel sessions, participants may have the possibilities to go between parallel sessions.

#### Upload your Presentation Information (Deadline to upload: 20 March 2021)

1. Login the website
2. click “personal profile” or “Submission ID” (on the top left corner of the page) to upload the presentation information
3. click  to submit the presentation information
  - a. Title of the abstract
  - b. Presenter’s Name, headshot, and biography to be displayed on the website

#### Pre-recording Your Presentation in Zoom

All presentations of SBM2021 will be virtual. To ensure the sessions do not overrun due to the unstable internet connection, we request you to prepare and upload a video of your presentation.

There are several video conferencing tools available to easily record a presentation. In this method, you can show your face via webcam and display your slides as you talk. You can use any meeting software as long as you get a good quality recording and your final file is in the MP4 format. Here are some links to instructions on recording a meeting on common platforms:

- WebEx: [Video Conferencing - Record a Cisco Webex Meeting](#)
- Skype: [Skype for Business: Recording a Meeting | Information Technology Services | Bemidji State University](#)
- Google Meet: [Record a video meeting - Meet Help](#)
- Zoom: [Local Recording – Zoom Help Center](#)
- GotomeeHow to [Record a GoToMeeting Session | Techwalla](#) and [How to Convert and Open the GoToMeeting Recording](#)sting:
- Microsoft Teams: [Record a meeting in Teams - Office Support](#)
- [Tencent Meeting](#) (For Chinese user only)

#### Guidelines for Preparing Your Video

Duration:

- Invited speech: 17 minutes
- Oral speech: 12 minutes

File size: 100MB max

Video file format: mp4

Dimensions: Minimum height 480 pixels, aspect ratio: 16:9

## **Uploading Your Presentation to the Presentation Module**

Follow the instructions below to upload your presentation. An individual presentation link will be sent to you by email by 1 April.

1. Be sure to record your presentation.
2. You will only need to upload the .mp4 file as that file incorporates Audio, Camera and Content Slides (PowerPoint) all in a single file.
3. You will receive an email by 1 April with instructions and link for uploading your presentation. Utilizing the same instructions, you will be able to upload the .mp4 Zoom recording file. Depending on the size of the resulting file, this may take some time, so be patient as the file uploads. If you have not received this email by 1 April, please contact [sbmconf@hkbu.edu.hk](mailto:sbmconf@hkbu.edu.hk).

## Guidelines for Online Presentation

### One day before the session

1. Make sure you have installed the Zoom software in your computer.
2. You will receive a Zoom meeting Invitation email with the information as follows:
  - Time (Hong Kong Time)
  - Date
  - Session information
  - Zoom link

### 20 mins before the session

1. Join the Zoom meeting.
2. The admin staff will invite you to join the waiting room for briefing and testing.
3. Once the briefing and testing has been completed, the waiting room will be closed.

### Online LIVE presentation

1. The Session Chair will introduce you by reading your name and organization and inform you to start the presentation.
2. Share your screen, click to full screen mode and start your presentation.
3. The Chair will remind you at the last 5/1 minute(s) of your presentation.
  - Invited speech: 17-min
  - Oral speech: 12-min
4. NO Q&A session immediately after your presentation, but there will be a common Q&A session for all presenters at the end of the session. Hence DO NOT leave the Zoom after your presentation.
5. The Chair will read the questions on the chat box for you to answer.
6. **If you fail to appear in the session 20 mins before the session, the admin staff will run the pre-recording at your presentation time slot.**

### Pre-recorded presentation

1. The Session Chair will introduce you by reading your name and organization and inform you to start the presentation.
2. The admin staff will run your pre-recording
3. NO Q&A session immediately after your presentation, but there will be a common Q&A session for all presenters at the end of the session. Hence DO NOT leave the Zoom after your presentation.
4. The Chair will read the questions on the chat box for you to answer.

## Instructions for Poster Presentations

### Posters Q&A Sessions

The Posters Q&A Sessions will be arranged during the main conference. Each poster presenter will have 3 minutes of live Q&A via Zoom meeting for the session.

### Upload your Poster (Deadline to upload: 31 March 2021)

1. Login the website
2. click “personal profile” or “Submission ID” (on the top left corner of the page) to upload the presentation information
3. click  to submit your poster and other requested information
  - a. Title of the abstract
  - b. A one-page **Vertical Poster** in PDF format
  - c. Presenter’s Name, headshot, and biography to be displayed on the website
  - d. Abstract in PDF format

Each poster presenter will be able to participate live in Q&A during the poster session.

### Poster PDF Requirements

Note: your Poster PDF should be one page only.

1. All poster presenters should provide a one-page Poster PDF.
2. The A0 poster size formatted vertically is the most popular based on the usual, physical dimensions for the SBM2021.
3. Please upload your poster file(s) to the website (<https://sbm2020.hkbu.edu.hk/poster-submission>) by 31 March 2021. If you have any trouble with the upload poster file(s), please contact [sbmconf@hkbu.edu.hk](mailto:sbmconf@hkbu.edu.hk) .

## Guidelines for Poster Presentation

### One day before the session

1. Make sure you have installed the Zoom software in your computer.
2. You will receive a Zoom meeting Invitation email with the information as follows:
  - Time (Hong Kong Time)
  - Date
  - Session information
  - Zoom link

### 20 mins before the session

1. Join the Zoom meeting.
2. The admin staff will invite you to join the waiting room for briefing and testing.
3. Once the briefing and testing has been completed, the waiting room will be closed.

### Online LIVE poster Q&A

1. The Session Chair will introduce you by reading your name and organization.
2. The admin staff will display your poster by sharing the screen to the audience.
3. Turn on the audio and video at your side to answer the questions.
4. There will be 5 minutes for your Q&A session.
5. The Chair will read the questions on the chat box for you to answer.
6. **If you fail to appear in the session 20 mins before the session, the admin staff will run the pre-recording at your presentation time slot.**

## Main Conference Programme

**Conference Venue: Online, Time Zone: Hong Kong Time**

<b>12 April 2021 (Monday)</b>			
<b>Opening Ceremony: Chair: Dr. Sam Lau(1430-1500)</b>			
Welcoming Address: Prof. Jonathan Wong, Conference Chair, Hong Kong Baptist University, Hong Kong (1430-1435)			
Opening Address: Prof. Alexander Wai, President and Vice-Chancellor, Hong Kong Baptist University, Hong Kong (TBC) (1435-1440)			
Opening Keynote: Mr. Wong Kam-sing, Secretary of Environment Bureau, Hong Kong SAR Government (1440-1455)			
<b>Zoom Photo Taking (1455-1500)</b>			
<b>Keynote Session</b>			
<b>Chair: Prof. Jonathan Wong (1500-1550)</b>			
Resource recovery from bio-wastes: Bioeconomy perspectives for energy and environmental sustainability, Prof. Ashok Pandey, Editor-in-Chief of Bioresource Technology India (1500-1530)			
Sustainable Biowaste Management in Developing Countries, Prof. Agamuthu Pariatamby, Editor-in-Chief of Waste Management and Research Malaysia (1530-1600)			
	<b>Session: A</b>	<b>Session: B</b>	<b>Session: C</b>
<b>1600-1700</b>	<b>A1: Advance Anaerobic Digestion</b>	<b>B1: Bio-nano Technology for Biowaste Recycling</b>	<b>C1: Sustainable Bioconversion of Waste to Resource</b>
	<b>Chair: Dr. Suyun Xu</b>	<b>Chair: Prof. Gu Ji-Dong</b>	<b>Chair: Dr. S Venkata Mohan</b>
1600-1617 Invited Talk	A #124/Prof. Michael Nelles/ Increasing the Efficiency of Mechanical-Biological Residual Waste Treatment Through the Fermentation Stage of the Liquid Pressed Organic Fractions (Germany)	A #303/Dr. Deepak Pant/ Bioelectrochemical Systems for Wastewater Treatment and Resource Recovery: From Lab to Field Applications (Belgium)	A #304/Prof. Samir Kumar Khanal/ Bioconversion of Wastes-to- Resources: Opportunities and Challenges (USA)
1617-1629	B #174/Mr. Wachiranon Chuenchart/ Integration Approach of Anaerobic Co- digestion and Microaeration as an Alternative Solution for Municipal Organic Waste Management (USA)	B #43/Dr. Ka Yu Cheng/ Microbial-Electrochemical Reactors for the Treatment of Alkaline and Saline Waste Streams (Australia)	B #470/Prof. Mohammad Golabi/ Integrated Soil and Organic Waste Management as a Resource Recovery Strategy for Resilient Agriculture in Guam (USA)
1629-1641	C #64/Mr. Kin Kuen Cheung/	C #408/Dr. Shuai Gao/	C #70/Dr. Asad IQBAL /

		The Beginning of Food Waste and Sewage Sludge Co-Digestion in Hong Kong (Hong Kong)		Structured Carbon Monolith for Gas Absorption: Using Nano-biochar as Precursor (Australia)		Integrated Food Waste with Wastewater Management in Hong Kong: Transformation, Energy Balance, Economic Analysis (Hong Kong)
1641-1653	D	#106/Dr. Nantenaina Rabetokotany/ Rapid Estimation of Higher Heating Value (HHV) and Biochemical Methane Potential (BMP) by using Organic Wastes Characteristics: Application in Tropical Environment (Madagascar)	D	#127/Mr. Rahul Jaideep/ Enhancement of Fuel Properties of Yard Waste through Torrefaction (Malaysia)	D	#60/Mr. Johannes Biala/ The Circular Economy for Organics as a New Paradigm for Advancing Organics Recycling Activities (Australia)
1653-1700	E	Q&A	E	Q&A	E	Q&A
<b>1710-1740</b>		<b>PA1: Poster Q&amp;A Session Anaerobic Digestion</b>		<b>PB1: Poster Q&amp;A Session Bioconversion and Bioproducts</b>		<b>PC1: Poster Q&amp;A Session Advance Bioconversion</b>
	A	#108/Mr. Shamsundar Subbarao/ Decentralised Waste Management and Green Economy: A Case Study of Pre - Processed Waste Input to 25kg/Day Kitchen Waste Biogas Plant Established At Pramati Hill View Academy School, Mysuru, India (India)	A	# 535/Poonam Sharma Extraction of pectin from Citrus limetta peel: An approach towards waste management	A	#25/Ms. Zhen Li Exploration on the Best Preparation Scheme of Activated Carbon from Solid Waste in Sugar Refinery
	B	#98/ Dr. Davidraj Johnravindar Effect and Optimization of The Use of Biochar Addition of Food Waste/Sludge Anaerobic Co-Digestion	B	#173/ Ms Triya Mukherjee/ Influence on Iron Nanoparticles on Bacillus Subtilis Growth and Production of Value Added Products in Electrofermentation System	B	#178/Dr. Reeti Kumar Selective Photocatalytic Oxidation of 5-Hydroxymethyl-2-Furfural to 5-Formylfurancarboxylic Acid Using Vanadium Doped Carbon Nitride
	C	# 160/ Dr. Jialin Liang/ Effects of Different Conductive Materials on the Anaerobic Co-Digestion of Food Waste and Waste Activated Sludge and Their Digestate Dewatering (Hong Kong)	C	#555/ Bishwambhar Mishra Groundnut Oil Cake: Useful nutrient for pullulan production by Micrococcus luteus	C	#219/ Dr. Zhi Zhu Selective Oxidation of 5-Hydroxymethylfurfural over A Molybdenum Carbide Quantum Dot Catalyst
	D	# 115/ Miss Mengyao Wang /	D	# 523/Ms. Varsha Bohra	D	# 512/Dr. Cai Wenfei

		Effect of Biochar Added on Anaerobic Digestion of Methane from Municipal Sludge and Kitchen Waste (China)		Untangling the Genome of Rare Uncultured Bacterial Species from Plant Biomass Hydrolysing Microbiome		Catalytic fast pyrolysis of rice husk for the high quality liquid fuels production
	E	#175/ Miss Renisha Karki Anaerobic Co-Digestion of Coffee Pulp and Cattle Manure for Enhanced Biofuel and Organic Fertilizer Production	E	# 539/Mahek Patel Deoiled Cake As An Alternate Substrate For Green Energy Production	E	#147/ Mr. J Shanthy Sravan Kumar Regulatory Influence of Conductive Materials on Interspecies Electron Transfer and Carbon Flux During Electromethanogenesis
	F					
<b>1750-1900</b>		<b>A2: Advance Anaerobic Digestion</b>		<b>B2: Bio-nano Technology and Applications in Waste Recycling</b>		<b>C2: Sustainable Bioconversion of Waste to Resource</b>
		<b>Chair: Prof. Michael Nelles</b>		<b>Chair: Dr. Deepak Pant</b>		<b>Chair: Prof. Samir Kumar Khanal</b>
1750-1807 Invited Talk	A	#48/Dr. Suyun Xu/ Comparison of Goethite and Activated Carbon on Methanogenesis from Volatile Fatty Acids (China)	A	#118/Prof. Gu Ji-Dong/ CO <sub>2</sub> Capture and Microbial Catalytic Conversion to Bioenergy CH <sub>4</sub> in Oil Reservoir Systems (China)	A	#170/Mr. Johannes Biala/ Developing Sensor-Aided Collection of Source Separated Organic Food Waste (Australia)
1807-1819	B	#129/Dr. Kati Goersch/ Use of Biogenic Residues for the Production of Biomethane (Germany)	B	#120/Mr. Ranaprathap Katakajwala/ Resource Efficient Sustainable Production of Nanocrystalline Cellulose through Sugarcane Bagasse and Rice Straw Valorization (India)	B	#62/Dr. Vo Chau Ngan Nguyen/ Improving Waste Management Approaches for Small Livestock Farms in Vietnam (Vietnam)
1819-1831	C	#134/Ms. Shanta Dutta/ Efficient Catalytic Production of Levulinic Acid from Starch-rich Food Waste using a Biphasic System (Hong Kong)	C	#591/Dr. Xiaolei Zhang/ The impact of heavy metals in the wastewater sludge on lipid accumulation of oleaginous microorganism (China)	C	#121/Prof. Qi-Tang Wu/ Long-Term Safety Assessment of Indirect Agricultural Application of Municipal Sewage Sludge through Net Bags (China)
1831-1848 Invited Talk	D	#366/Prof. Ajay Kalamdhad/ Decentralized Treatment of Biodegradable Municipal Solid Wastes (India)	D	#79/Dr. Jun Zhao/ One-pot Approach Conversion of Fructose to 2,5-Diformylfuran by Carbon-based Metal-free Catalysts (Hong Kong)	D	#392/Dr. S Venkata Mohan/ Waste Fed Biorefineries for Sustainable Chemicals and Fuels (India)
1848-1900	E	Q&A	E	Q&A	E	Q&A
<b>1900-2010</b>		<b>A3: Advance Anaerobic Digestion</b>		<b>B3: Bio-nano Technology and Applications in Waste Recycling</b>		<b>C3: Sustainable Bioconversion of Waste to Resource</b>

		Chair: Prof. Jing Liu		Chair: Dr. Ka Yu Cheng		Chair: Dr. Guneet Kaur	
1900-1917 Invited Talk	A	#362/Prof. Yan Zhou / Drawbacks and Solution of Anaerobic Digestion Pretreatment (Singapore)	A	#59/Prof. Shiyong Sun/ Design and Construction of Nanobiocatalysts Consisting of Immobilized Lipase on Nanostructured Clay Surfaces for Conversion of Organic Waste to Biodiesel (China)	A	#472/Prof. Ji Li/ Recycling Use of Organic Waste: New Approach for a Developed City in China (China)	
1917-1929	B	#267/ Mr. Marcel Pohl/ Biogas Monitoring Programme III: Energy Efficiency Assessment of 61 Biogas Plants in Germany--Outcomes and Methodological Challenges (Germany)	B		B	#151/Dr. Alireza Bazargan / Opinion of Waste Management Experts on the Implementation of Smart Waste Management in Tehran (Iran)	
1929-1941	C	#73/Miss Liwen Luo/ Improvement of Food Waste Methane- Generating Platform by Enriching Acetate and Hydrogen in an Integrated Pressurized Solid-Liquid Anaerobic Reactor (Hong Kong)	C	#179/Mr. Kyle Rafael Marcelino/ Nanobubble Technology Application in Aquaponics (USA)	C	#344/ Dr. Sumeth Wongkiew Bioponics – a Biological Nutrient Recovery Technology in Bio- Circular-Green Economy	
1941-1958 Invited Talk	D	#220/Prof. Jing Liu/ Manure Management for Methane Mitigation – in-vitro Determination of Methane Emission from Manure for Improved Inventory Modelling (Sweden)	D	#58/Prof. Roger Ruan/ Innovative Fast Catalytic Microwave- assisted Thermochemical Conversion of Bio-Wastes for Energy and Fuels Production (USA)	D	#168/Dr. Guneet Kaur/ Urban Waste-based Biorefinery Processes for Transition to a Circular (Bio)economy (Canada)	
1958-2010	E	Q&A	E	Q&A	E	Q&A	

13 April 2021 (Tuesday)

13 April 2021 (Tuesday)										
		Session: A			Session: B			Session: C		
1500-1605		A4: Composting			B4: Biochar and its Application		C4: Bioconversion for Bioproducts			
		Chair: Dr. Mukesh Awasthi			Chair: Dr. Nirakar Pradhan		Chair: Prof. Shan He			
1500-1517 Invited Talk	A	#223/Prof. Jonathan Wong/ Resource Recovery from Solid Anaerobic Digestate: a Critical Review on Circular Bio-Economy Perspective (Hong Kong)			A	#298/Dr. Daniel C. W. Tsang/ Food Waste Hydrochar for Catalytic Degradation of Organic Contaminant (Hong Kong)		A	#47/Prof. Binghua Yan/ Bio-Electrofermentation Coupled Ion Substitution Electrodialysis for Improved Carbon Conversion to Carboxylic Acids (China)	
1517-1529	B	#158/Mr. Yubo Cao/ Nitrifier Denitrification Dominates Nitrous Oxide Production in Composting and Can be Inhibited by an Innovative Nitrification Inhibitor: Electric Field (China)			B	#29/Miss Mengyao Wang/ Production of Biochar using Biogas Residue and Adsorption of Ammonia- Nitrogen and COD in Biogas Slurry (China)		B	#145/Dr. Chong Li/ Characterization and Application of a Natural Derived Bacterial Consortium for Efficient Lignocellulosic Biomass Valorization (China)	
1529-1541	C	#308/ Mr. Shiyi Qin Biochar as smart candidature to improve the microbial communities and mitigate the greenhouse gases emission during poultry manure composting (China)			C	#30/Miss Gaihong Wang/ Synthesis of Ternary Micro- Electrolytic Fillers using Biochar from <i>Lycium Barbarum</i> L. Branches and Its Application in Wastewater Treatment (China)		C	#146/Dr. Avanthi Althuri/ Integrated Bioethanol and Bio-crude Production through Two-stage Yeast Co-fermentation and Hydrothermal Liquefaction (India)	
1541-1553	D	#34/Mr. Narsi Ladumor/ Composting of Food Waste Anaerobic Digestate at ORRC1, Hong Kong (Hong Kong)			D	#72/Dr. Ravindran Balasubramani/ Influence of Modified Ricehusk Biochar on Gaseous Emission (South Korea)		D	#155/Mr. Harishankar Kopperi/ Concomitant production of Extracellular polymeric substances (EPS) and Polyhydroxyalkanoate (PHA) from isolated <i>Providencia</i> sp: Characterization and composite preparation (India)	
1553-1605	E	Q&A			E	Q&A		E	Q&A	

1610-1720		A5: Composting	B5: Biochar and its Application	C5: Bioconversion for Bioproducts		
		Chair: Dr. Vasanthy Muthunarayanan	Chair: Dr. Daniel Tsang	Chair: Prof. Guanyu Zheng		
1610-1627 Invited Talk	A	#166/Dr. Xuan Wang/ The Progress of Composting Technologies from Static Heap to Intelligent Reactor: Benefits and Limitations (China)	A	#50/Dr. Suchithra T. Gopakumar/ Biomass to Aviation Fuels: Conversion Routes and Challenges (Malaysia)	A	#141/Prof. Shan He/ Effect of a Supersized Vortex Fluidic Device on the Mechanical Properties and Microstructure of a Biodegradable Film (China)
1627-1644 Invited Talk	B	#135/Dr. Mukesh Awasthi/ Biochar as Smart Candidate to Regulate the Fate of Heavy Metals (Cu and Zn) Resistant Bacteria Community during the Poultry Manure Composting (China)	B	#105/Dr. Ammayappan Selvam/ Biochar Influences the Impact of Antibiotic in Soil (India)	B	#95/Prof. Sandhya Babel/ Cultivation of Microalgae in a Microbia Fuel Cell for Enhanced Bioelectricity Generation Treating Wastewater: A Comparative Study of <i>Chlorella vulgaris</i> and <i>Scenedesmus quadricauda</i> (Thailand)
1644-1656	C	#171/Miss/ Dongyi Li/ Effect of Biochar Addition on Food Waste Digestate Composting at Low and High C/N Ratios (Hong Kong)	C	#348/ Dr. Bing Song/ Nano-biochar Production as a Supplementary Sector of Conventional Thermochemical Biorefineries (New Zealand)	C	#81/Dr. Debkumar Chakraborty/ Development and Process Optimization of Reactive Extraction for Carboxylic Acid Removal from High Solid Leach Bed Reactor (India)
1656-1708	D	#55/Mr. Selvakumar Muniraj / Characterization of the Distillery Sludge Based Compost and Vermicompost (India)	D	#157/Mr. Chuangxian Bian / Upgrade and Transformation for Biogas Plants Based on Efficient Utilization of Heat Energy (China)	D	#67/Mr. Edward Antwi/ Hydrothermal Carbonization of Mango Kernels (Germany)
1708-1720	E	Q&A	E	Q&A	E	Q&A
1730-1810		PA2: Poster Q&A Session Composting	PB2: Poster Q&A Session Bioconversion for Biofuel	PC2: Poster Q&A Session Other Bioconversion for Technology		

	A	#104/ Mr. Franz Gassner Potentials for Mitigating Greenhouse Gas Emissions through Dietary Changes and Food Waste Prevention: Case Study Macau	A	#176/ Mr. Santhosh Jatangi Integrated Biohythane Production from Food Waste-Influence of Increasing Organic Loads	A	# 138/ Mr. Dileep Kumar Yeruva/ Functional and Dynamics of Genomic in Eco-Electrogenic Engineered System During Azo Dye Wastewater Treatment
	B	#130/ Miss Xiaoxiao Guo Estimation of Greenhouse Gas- N <sub>2</sub> O Emission Variation by Denitrification Bacteria During Oxygen Depletion in Bohai Sea of China	B	# 515/Mr. Arun Sathyan Comparative Study on the Biomethane Potential of Terrestrial and Aquatic Weeds	B	#66/ Prof. Deepak Pant An Integrated Biotechnology for Gold Recycling from E Waste Using Thiourea with <i>Bacillus</i> and <i>Lysinibacillus</i> Sp. (Hybrid) Combination
	C	# 537/Shaili Vyas Biocoverion Of Municipal Solid Waste to Compost	C	# 534/Ankita Adesra Valorizing Secondary Sludge of Dairy Industry for Biohythane Production	C	#63/ Mr. Pradeepkumar Sugumar Studies on Biorecovery and Recovery of Metals from Printed Circuit Boards Using Acidophile and Alkaliphile Bacteria
	D	#391/ Miss. Tao Liu Conversion food waste and sawdust into biofertilizer employing Black Soldier Fly Larvae (Diptera: Stratiomyidae) under the optimized condition	D	#132/Mr. Teoman Alan Comparison of Different Adsorbents for Iodate Removal in Water Environment	D	#122/ Miss Kowsalya Paramasivam Biosynthesis, Isolation and Quantification of Phycobiliproteins by <i>Desertifilum</i> Sp. SVMIICT2: Effect of Differential Light Intensities
	E	# 371/Miss Xiuna Ren Elucidating the optimum added dosage of Diatomite during co-composting of pig manure and sawdust: carbon dynamics and microbial community	E	#75/Dr. Baskar Gurunathan Development of Sustainable Biodiesel Production From <i>Madhuca Indica</i> Using Green Chemistry Principles And Techno-Economic Analysis (India)	E	#169/ Mrs Hemalatha Manupati Duckweed Biorefinery with Dairy Wastewater Treatment
1815-1915	<b>A6: Composting</b>		<b>B6: Bioconversion for Biofuel</b>		<b>C6: Bioconversion for Bioproducts</b>	
	<b>Chair: Dr. Xuan Wang</b>		<b>Chair: Prof. Sandhya Babel</b>		<b>Chair: Prof. Binghua Yan</b>	
1815-1832 Invited Talk	A	#309/Prof. Zengqiang Zhang/ Performance of Black Soldier Fly Larvae for Manure Composting (China)	A	#165/Dr. Nirakar Pradhan/ Biotransformation of Organic Substrates to Biofuel and Bioproducts by <i>Therotoga Neapolitana</i> (Hong Kong)	A	#76/Prof. Guanyu Zheng/ Importance of Sludge Conditioning in Attenuating Antibiotic Resistance: Removal of Antibiotic Resistance

					Genes by Bioleaching Conditioning and Subsequent Composting (China)	
1832-1844	B	#69/Mr. Zhicheng Xu / Cost-Efficient Composting of Food Waste and Garden Waste with Urban Homology: Role of Mixing Proportions and Process Parameters (China)	B	#102/Dr. Wei Zhang / Improvement of Sludge Dewaterability by Anaerobic Digestion and Mechanism Analysis Based on Moisture Distribution (China)	B	#78/ Mr. Rajat Kumar Bioprocess Robustness of Non-Pathogenic <i>Burkholderia Thailandensis</i> as a Sustainable and Persistent Industrial Rhamnolipid Producer (Hong Kong)
1844-1856	C	#56/Dr. Vasanthi Muthunayanan/ Toxicity and Histopathological Effect of Distillery Industrial Sludge on the Earthworm <i>Eudrilus Eugeniae</i> (India)	C	#61/ Dr. Balwinder Singh/ Production of Xylitol by Immobilized <i>Candida Tropicalis</i> Ebl-X39 Cells From Rice Straw Hydrolysate (India)	C	#96/Ms. Wenjing Cui / Environmental and Health Risk Assessment of Techniques for Anaerobically Digested Manure Centrate: Comparative Investigation Between Denmark and China (China)
1856-1905	D	Q&A	D	Q&A	D	Q&A
<b>Keynote Session: (1910-2010)</b> Chair: Prof. Guanyu Zheng						
1910-1940	Limits of Biowaste Collection Efficiency- Status Quo Analysis of Germany, Prof Klaus Fricke (Germany)					
1940-2010	Bioconversion of Organic Waste to Useful Products, Prof. RD Tyagi (Canada)					

14 April 2021 (Wednesday)								
		Session: A			Session: B			Session: C
<b>1500-1605</b>		<b>A7: Emerging pollutants and fate during resource management</b>			<b>B7: Bioconversion for Biofuel</b>		<b>C7: Bioconversion for Bioproducts</b>	
		<b>Chair: Dr. Ammaiappan Selvam</b>			<b>Chair: Prof. Mohammad Taherzadeh</b>		<b>Chair: Prof. Ajay Kalamdhad</b>	
1500-1512	A	#53/Mr. Abhishek Khapre/ Confirmation of Landfill Gases Oxidation in Phytocapping Systems in India using Computational Biological Tools (India)	A	#116/Emmanuel Dugan/ Effects of Biochar and Maize Stover Mulch on the Physical Properties of a Sandy Loam Soil and Maize Yield (Ghana)	A	#156/Dr. Venkateswer Reddy Motakatla/ Polyhydroxyalkanoates (PHA) Production using Bacterial Strains (Germany)		
1512-1524	B	#159/ Miss Zhang Xinyuan Strengthening Electron Transfer through Supplementary Electric Field Could Reduce the Potential Environmental Risk of Heavy Metal and Antibiotic Resistance Genes in Aerobic Composting	B	#164/Miss Feifei Liu/ Study on the Migration Behaviour of Heavy Metals and Characteristics of Phosphorus-enriched Biochar Prepared by Microwave Pyrolysis of Municipal Sewage Sludge (China)	B	#57/Mr. Kaarmukhnilavan R S/ Biofloculant Production by Newly Isolated Bacteria from Activated Sludge using Fish Market Waste as a Nutrient Source (India)		
1524-1541 Invited Talk	C	#301/Dr. Obulisamy Parthiba Karthikeyan / Bio-Waste Recycling and Greenhouse Gas Emission Reduction (USA)	C	#153/Dr. Gina Pangga/ Assessing Biochars as Bio-products from Slow Pyrolysis of Different Organic Resources and Evaluate Properties as Soil Conditioners (Philippines)	C	#302/Dr. Michael Sauer/ Cell Factories for Bulk Chemical Production from Industrial Side Streams (Austria)		
1541-1553	D	Q&A	D	Q&A	D	Q&A		
<b>1610-1730</b>		<b>A8: Microplastics in the Environment</b>			<b>B8: Bioconversion for Biofuel</b>		<b>C8: Alternative Biowaste Utilization</b>	
		<b>Chair: Dr. Obulisamy Parthiba Karthikeyan</b>			<b>Chair: Prof. Gina Villegas Pangga</b>		<b>Chair: Dr. Michael Sauer</b>	
1610-1622	A	#49/Dr. Quan Wang/ Effect of Microplastics on the Greenhouse Gaseous and Ammonia Emissions During Organic Waste Composting (China)	A	#128/Miss Jia Wen Chong/ Multi-Stage Computer Aided-Molecular Design (CAMD) Approach in Bio-Oil Solvent Design to Upgrade Bio-Oil Quality (Malaysia)	A	#45/ Dr. Wajira Manamperi / Improvement of Mechanical Thermal and Barrier Properties of Cassava Starch-Based Cast Films Using Natural Fibres (Sri Lanka)		

1622-1634	B	#133/Ms. Piyathida Pupuang/ Occurrence of Microplastics in Commercially Harvested Blood Cockles in Thailand (Thailand)	B	# 533/Anil V. Shah Refuse Derived Fuel as A Source of Energy Production: A Way Towards Sustainability (India)	B	#448/Mr. Yuyang Hou/ Application of coffee Hull Fiber in Thermoplastic composites (China)
1634-1651 Invited Talk	C	#39/Prof. Gert Morscheck/ Biodegradable Plastics - Pros and Cons Bioplastics (Germany)	C	#300/Prof. Mohammad Taherzadeh/ Anaerobic Digestion, Volatile Fatty Acids and Membrane Bioreactors (Sweden)	C	#136/ Prof. Konstadinos Abeliotis / Environmental Assessment of the Transformation of Food Waste to Animal Feed via a Solar Drying Unit in Greece (Greece)
1651-1708 Invited Talk	D	#532/ Dr. Sunita Varjani/ Composting as a Sustainable Technology for Coverision of Municipal Solid Waste to Biofertilizers: Road Blocks and Perspectives (India)	D	#91/Miss Yan Yu / Improving the Ash Removal Efficiency of Agricultural Residues by Traditional Water Leaching and Microwave-Assist Leaching (Canada)	D	#299/Prof. Jishuang Chen/ Material Utilization of Biomass and the Development of Straw/Plastic Rattan Composites (SPRC) (China)
1708-1720	E	Q&A	E	Q&A	E	Q&A
<b>1730-1800</b>		<b>PA3: Poster Q&amp;A Session Composting</b>		<b>PB3: Poster Q&amp;A Session Biochar and Its Application</b>		<b>PC3: Poster Q&amp;A Session Emerging pollutants and fate during resource management</b>
	A	# 536/Nidhi Kundariya Characterization of Food Waste for Value Creation	A	#143/ Mr. Salvo Salvacion The Use of Coconut Husk and Cattle Manure Biochars In Remediating Mine-Contaminated Soil Grown with Upland Rice		#22/ Dr. Ashoka Gamage Development of Nutrient Management Technologies for Sustainable Rice Farming for Mitigating Water and Atmospheric Pollution
	B	# 476/Mr. Pottipati Suryateja Thermophilic degradation of vegetable waste using Rotary drum composter and efficacy of rotary drum followed by vermicomposting	B	#180/Ms. Divya D. R. Nutrient Recovery using Biochar Derived from Agricultural Waste and its Environmentally-Safe Reuse		#33/ Mr. Arjun Kumar Gupta Intellectual Property Rights in E- Waste Management: Why and How?
	C	# 514/Mr. Krishna Chaitanya Mature Transformation of intrusive weed <i>Ageratum conyzoides</i> into a value added product through Rotary drum composting	C	# 253/Mr. Li Yinchao Biochar as an oxygen activator and bimetal disperser for the degradation of multiple organic pollutants under oxic conditions using a micro- electrolysis filler		#167/ Mrs. Sri Divya Kuravi Nutrient Remediation by <i>Monoraphidium Neglectum</i> And <i>Messatrum Gracile</i> - A Comprehensive Study

	D	# 538/Priya Prajapati Quality Assessment of Compost Obtained from Municipal Solid Waste	D	#307 Miss. Huimin Liu / Influence of Biochar Amendment on Antibiotic Resistance Gene Abundance and the Bacterial Community during Aerobic Composting of Pig Manure	#107/ Dr. Md Moshir Rahman An Assessment on Opportunities of Sewage Fed Aquaculture Practices in Bangladesh: Challenges and Way Forward
	E		E	#131 Miss Yuting Duan/ Biochar accelerated the initiation of high-solid anaerobic co-digestion system with pig manure and dehydrated sewage sludge	#161/ Mr. Scott Yipeng Liu Effects of Lead on Petroleum Degrading Bacteria Isolated from Contaminated Soil in Zhuhai, Guangdong, China
<b>Keynote Session III: (1805-2000)</b> <b>Chair: Prof. Jonathan Wong</b>					
1805-1835	Applied Machine Learning to Predict CO <sub>2</sub> Adsorption on Biomass Waste-derived Porous Carbons, Prof. Yong Sik Ok (South Korea)				
1835-1905	Integrated Biotechnologies for Novel Products, Prof. Solange I. Mussatto (Denmark)				
1905-1935	Macro- meso- and Microplastics in Waste and Others, Prof. Pingjin He (China)				
1935-2000	Closing and Award Presentation				

#### Half-day Virtual Field Trip: Hong Kong O-PARK1 (1430-1605)

Time	Event (Host: Mr. Narsi Ladumor, OSCAR Bioenergy)
1430-1500	Pre-treatment system and Q&A
1500-1530-	Anaerobic Digestion process and Q&A
1530-1600	Composting process and Q&A
1600-1605	End of the trip