

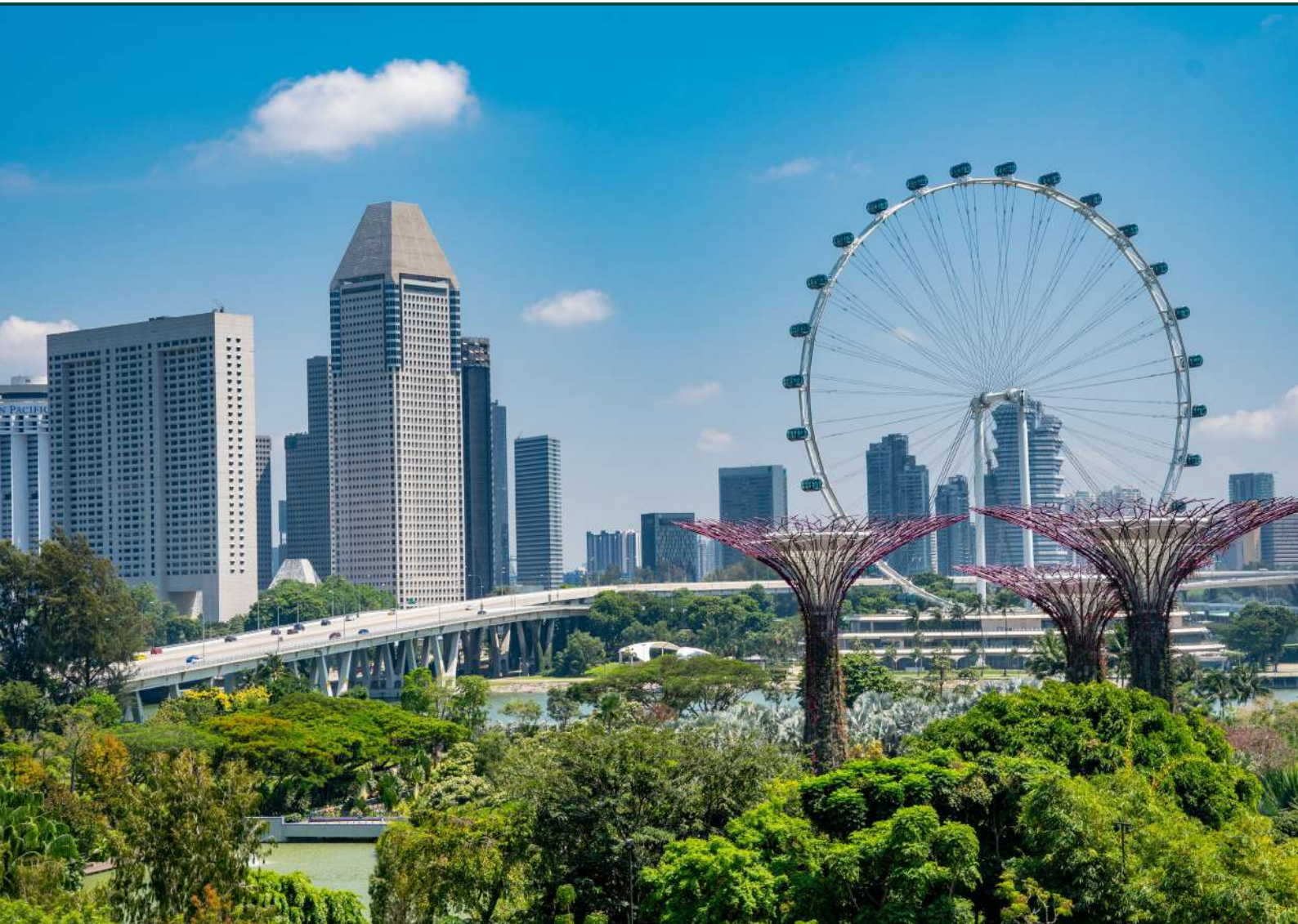


*Scientific Program*

*3rd World Congress on*

# RECYCLING & WASTE MANAGEMENT

April 13-15, 2026 | **Singapore**



Hosting Organization: Inovine Meetings LLC, 2C Pecan Hill Drive Clinton  
Mississippi, 39056 USA | Phone: +1-408-648-2233

# Day 1

## *Scientific Program*

09:00–09:15: Registrations

09:15–09:30: Opening Ceremony

April 13, 2026 | Singapore

Meeting Hall: Quartz I

### Keynote Presentations



09:30 – 10:10

Title: Designing Field-Deployable, Smartphone-Based Diagnostics for Scalable Global Detection

Melinda B. Chu

Ecotera Home, Inc., USA



10:10 – 10:50

Title: To Prepare Ecological Facades to Enhance Carbon Capture and Net Primary Productivity with the Integration of Bioluminescent Genes

Bhupendra Kumar

Aeiforia Constructions Pvt Ltd, India

Group Photo | Networking & Refreshments 10:50-11:10 @Foyer

### Session Introduction

Session Chair: Melinda B. Chu, Ecotera Home, Inc., USA

Session Co-Chair: Sitpayeva Gulnara, Institute of Botany and Phytointroduction, Kazakhstan

### Tracks

Environmental Sustainability and Development | Climate Change and Health | Environmental Pollution and Ecotoxicology | AI for Environmental Monitoring and Prediction | Climate Change Challenges & Sustainability | Environmental Risk Assessment Sustainable community planning | Food Waste Recycling & Prevention

### Exhibitor Demo

11:10–11:40

Title: Simplify and Automate Discrete Gas Sample Analysis

Sohom Roy, Naresh Kumar

Picarro Inc., USA

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## Special Workshop Session

11:40–12:40

**Title: Transforming Business: Redefining Profit-Driven Business Models for Sustainable Impact**

**Adina-Iuliana Deacu**

Tianmei World Academy, China / Research Institute for Sustainability at GFZ (RIFS), Germany

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## Lunch Break 12:40-13:40 @Foyer

## Oral Presentations

13:40–14:10

**Title: Conservation of Endemic, Rare and Endangered Species of Kazakhstan Flora**

**Sitpayeva Gulnara, Vesselova Polina**

Institute of Botany and Phytointroduction, Kazakhstan

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14:10–14:40

**Title: The Australian Example of Biofuels and Dealing with Problematic Tyre Waste**

**Kim Glassborow**

G&B Lawyers, Australia

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14:40–15:10

**Title: The Social Return on Investment (SROI) of Container Deposit Schemes**

**Bronwen Dalton**

University of Technology Sydney, Australia

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## Refreshment | Coffee Break 15:10-15:30 @Foyer

## Poster Presentations

15:30–16:00

**Title: Genus Tamarix L. in the flora of Kazakhstan**

**Urazalina Alina**

Institute of Botany and Phytointroduction, Kazakhstan

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16:00–16:30

**Title: Application of Barley Shochu Lees to Mushroom Cultivation**

**Masahito Yamauchi, Fumio Yagi**

National Institute of Technology, Kagoshima College, Japan

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**Panel Discussion & Certificate Felicitation**

**Day –1 Ends**

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# Day 2

## *Scientific Program*

**09:00–09:15: Registrations**

**09:15–09:30: Opening Ceremony**

**April 14, 2026 | Singapore**

**Meeting Hall: Quartz I**

### Session Introduction

**Session Chair: Melinda B. Chu, Ecotera Home, Inc., USA**

**Session Co-Chair: Sitpayeva Gulnara, Institute of Botany and Phytointroduction, Kazakhstan**

### Tracks

**Environmental Pollution and Ecotoxicology | Plant Science and Biotechnology | Climate Change Challenges & Sustainability | Bioenergy, Biofuels and Biorefineries | Climate Change Challenges & Sustainability | Environmental Risk Assessment  
Sustainable community planning**

### Oral Presentations

**09:30–10:00**

**Title: A Portable Smartphone-Based Microplastics Global Screening Platform for Saltwater and Coastal Environments**

**Melinda B. Chu**

Ecotera Home, Inc., USA

**10:00–10:30**

**Title: Transforming Business: Redefining Profit-Driven Business Models for Sustainable Impact**

**Adina-Iuliana Deacu**

Tianmei World Academy, China / Research Institute for Sustainability at GFZ (RIFS), Germany

### Group Photo | Networking & Refreshments 10:30-10:50 @Foyer

**10:50–11:20**

**Title: Climatic Traumas and Affects on Tribal People of Tripura: Challenges and Mitigation**

**Queen Sharma**

Indo German Creflat Project Tripura, India

**11:20–11:50**

**Title: Ammonia Monitoring: Meeting regional air quality directives with Picarro CRDS Ammonia Analyzers and LNI Permacal System**

**Sohom Roy**

Picarro Technologies Private Ltd., Bengaluru, India

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11:50–12:20

**Title: Analysis of Household Inorganic Waste Management Based on Circular Economy to Maintain a Healthy Environment as a Climate Change Mitigation Action**  
**R. Azizah**  
Universitas Airlangga, Indonesia

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## Lunch Break 12:20-13:30 @Foyer

## Poster Presentations

13:30–14:00

**Title: Tropical and Subtropical Plants in the Introduction Program of the Main Botanical Garden of Kazakhstan**  
**Massalimova Sholpan**  
Institute of Botany and Phytointroduction, Kazakhstan

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14:00–14:30

**Title: Assessment of Spatial Variability of Polycyclic Aromatic Hydrocarbons (PAHs) in Urban Soils and Fungal Disease Status of Trees Grown in Hong Kong Areas**  
**Sung Ka Chun, Jacky**  
Hong Kong Baptist University, HKSAR, Hong Kong

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## Networking & Refreshments

**Panel Discussion & Certificate Felicitation**  
**Day -2 Ends**

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# Day 3

*Scientific Program*

**Virtual Mode Zoom Meeting  
(GMT+8) Time in Singapore**

**April 15, 2026 | Virtual**

## Virtual Presentations

09:00–09:20	<b>Title: Consumer Food Waste Recycling in Multi-Unit Dwellings: Enablers and Barriers</b> <b>Jayanath Ananda</b> CQ University, Australia
09:20–09:40	<b>Title: Sustainable Recovery of High-Purity V2O5 from Sulfuric Acid Manufacturing Spent Catalysts via Mild Hydrometallurgical Processing</b> <b>Nityanand Singha</b> Korea Institute of Geo-Science and Mineral Resources, South Korea
09:40–10:00	<b>Title: Bio-Receptive Concrete. Design and Development of Bio-Receptive Concrete Incorporating Recycled and Lightweight Materials for Sustainable Structural Applications</b> <b>Kusuma Putri Wahyu Abadi</b> Universitas Brawijaya, Indonesia
10:00–10:20	<b>Title: Use of Piper Betle L. Extract for the Treatment of Catfish (<i>Clarias gariepinus</i>) Infected with <i>Aeromonas Hydrophila</i></b> <b>Annisa Bheta Berliana Ferdinandus</b> Sriwijaya University, Indonesia
10:20–10:40	<b>Title: Quantifying Carbon Sequestration Losses from Mangrove Decline in the Philippines: Modeling Climate Costs and Recovery Pathways</b> <b>Michaela Agtarap</b> Philippine Center for Advanced Maritime Simulation and Training, Inc., Philippines
10:40–11:00	<b>Title: Effect of Imposed Drought on Carbon Storage and Soil Respiration of Moso Bamboo Stand in Southeast China</b> <b>Benzhi Zhou</b> Research Institute of Subtropical Forestry, Chinese Academy of Forestry, China
11:00–11:20	<b>Title: The Evaluation of Catalytic Performance, Electron Transfer Property Among Active Metals, and Investigation of Preferred Intermediates of Fe-Based Catalysts under the Function of Cu and K Metals During Low-Temperature Reverse Water-Gas Shift Reaction</b> <b>Mohammad Mehrizi</b> Renewable Resources and Energies, China
11:20–11:40	<b>Title: From Obligation to Collaboration: Integrating Voluntary Environmental Agreements (VEAs) to Enhance Bangladesh's EPR Framework for Plastic Waste Management</b> <b>Jayawardhana</b> UNIDO, Sri Lanka

11:40–12:00	<p><b>Title: Implementing Plastic Neutrality in Dialysis Care: A 'Waste to Wellness' Model using Plastroconcrete Exchange to Fund Patient Anemia Treatment</b></p> <p><b>Palani Ravichandran</b> Sri Venkateswaraa Medical College, India</p>
12:00–12:20	<p><b>Title: Design of a low cost arsenic removal filter</b></p> <p><b>Pranab Jyoti Barman</b> Golaghat Engineering College, India</p>
12:20–12:40	<p><b>Title: Sustainable Biofuel Production using CaO-Sulphated Alumina Catalyst</b></p> <p><b>Amal Salim Al Rahbi</b> University of Technology and Applied Sciences, Oman</p>
12:40–13:00	<p><b>Title: Spent Claus Catalyst In Manufacturing High Alumina Refractory Materials</b></p> <p><b>Fatimah Edhaim</b> Saudi Aramco, Saudi Arabia</p>
13:00–13:20	<p><b>Title: Biochar derived from agricultural wastes for remediation of salt-affected soils in Sultanate of Oman</b></p> <p><b>Amira Al Zadjali</b> University of Technology and Applied sciences, Oman</p>
13:20–13:40	<p><b>Title: Crossroad of All Environmental Crises: Behavioral Change</b></p> <p><b>Merik Sinan Merias</b> Association for Community Awareness, Turkey</p>
13:40–14:00	<p><b>Title: Individual and Combined Effects of Atrazine and Glyphosate on Mussel Physiology: An Ecotoxicological Assessment</b></p> <p><b>Davide Di Paola</b> University of Messina, Italy</p>
14:00–14:20	<p><b>Title: Enhancing Phosphorus Bioavailability in Black Soldier Fly Larval Frass through the Bioconversion of Bone Char</b></p> <p><b>Maher E. Saleh</b> Alexandria University, Egypt</p>
14:20–14:40	<p><b>Title: Creating Circular Industrial Symbiosis for End-of-Life Wind Turbine Blades from Wind Power and Construction Value Chains</b></p> <p><b>Ana T Lima</b> Technical University of Denmark, Denmark</p>
14:40–15:00	<p><b>Title: Textile waste recycling: A Study on Finishing, Evaluation and Removal</b></p> <p><b>Alessia patrucco</b> Italian National Research Council, Italy</p>
15:00–15:20	<p><b>Title: Illegal Dumping of Solid Waste: A Challenge Towards Sustainable Practices</b></p> <p><b>Mpinane Flory Senekane</b> University of Johannesburg, South Africa</p>
15:20–15:40	<p><b>Title: Households' Willingness to Pay for an Improved Solid Waste Management Plan, Case of Asmara City, Eritrea</b></p> <p><b>Natnael Aregawi</b> College of Business and Social Sciences, Eritrea</p>

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15:40–16:00

**Title: From Bottles to Bales: Operational Leadership and Innovation in Beverage and Paper Recycling**  
**Andrew Kirkland**  
International Paper, United States

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16:00–16:20

**Title: Digitizing the Waste Frontier: How Fintech and AI Are Transforming Waste Management**  
**Michael Marmo**  
CurbWaste, United States

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16:20–16:40

**Title: SCWO-Destroying Biosolids from the Inside Out using Supercritical Water Oxidation**  
**Naomi Lynn Senehi**  
374Water, United States

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16:40–17:00

**Title: Destruction of fluorine-based Aqueous Film Forming Foams (AFFF) with Supercritical Water Oxidation**  
**David Garb**  
374Water, United States

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17:00–17:20

**Title: E-Waste Recycling Technologies and the Opportunity in Meeting Critical Materials Supply of Copper Through Recycling**  
**Abhishekh Parmar**  
Clareo Partners, United States

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## Panel Discussion

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