



*Scientific Program*

*2nd World Congress on*

# ENVIRONMENTAL SCIENCE & CLIMATE CHANGE

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 Sarma**

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 Inc., USA

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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

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| 12:00–12:20 | <p><b>Title: Biodiversity of Macroinvertebrate Assemblages as Indicators of Water Quality in Pagbanganan River, Baybay City, Leyte, Philippines</b><br/><b>Francia Marie D. Jose</b><br/>City College of Ormoc, Philippines</p>  |
| 12:20–12:40 | <p><b>Title: Use of Piper Betle L. Extract for the Treatment of Catfish (<i>Clarias gariepinus</i>) Infected with <i>Aeromonas Hydrophila</i></b><br/><b>Annisa Bheta Berliana Ferdinandus</b><br/>Sriwijaya University, Indonesia</p>   |
| 12:40–13:00 | <p><b>Title: Circular Economy and Fintech in Asia: Do Responsible Production, Finance Merged with Technology Matters to lowers Climate Change?</b><br/><b>Zia Ur Rahman</b><br/>School of Economics and Management, Chang'an University, Xian, Shaanxi, China</p>  |
| 13:00–13:20 | <p><b>Title: Design and Development of an Automated and Isolated Chemotherapy Drug Injection and Disposal System to Enhance Safety and Reduce Environmental Contamination</b><br/><b>Zeinab Arvaneh</b><br/>International Inventor &amp; Research Scientist, Biomedical Engineering and Environmental Health Innovations, Iran</p> |
| 13:20–13:40 | <p><b>Title: Smart Multifunctional LED System Integrating Artificial Photosynthesis, Environmental Gas Monitoring, and Cellular Proliferation Control</b><br/><b>Mostafa Tahmasbi</b><br/>Independent Scientist and Inventor, Artificial Photosynthesis &amp; Industrial Pollution Mitigation, Iran</p>                            |
| 13:40–14:00 | <p><b>Title: Sustainable Biofuel Production using CaO-Sulphated Alumina Catalyst</b><br/><b>Amal Salim Al Rahbi</b><br/>University of Technology and Applied Sciences, Oman</p>  |
| 14:00–14:20 | <p><b>Title: Biochar derived from agricultural wastes for remediation of salt-affected soils in Sultanate of Oman</b><br/><b>Amira Al Zadjali</b><br/>University of Technology and Applied sciences, Oman</p>  |
| 14:20–14:40 | <p><b>Title: Integrating Chemical and Microbial Exposure Assessment of Informal Waste Burning in a Peri-Urban South African Township</b><br/><b>Boitemogelo Okopilwe Mapue Kwakwa</b><br/>University of Johannesburg, South Africa</p>   |

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14:40–15:00

**Title: Individual and Combined Effects of Atrazine and Glyphosate on Mussel Physiology: An Ecotoxicological Assessment**

**Daive Di Paola**

University of Messina, Italy

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15:00–15:20

**Title: Destruction of fluorine-based Aqueous Film Forming Foams (AFFF) with Supercritical Water Oxidation**

**David Garb**

374Water, United States

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## Panel Discussion

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