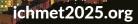
ICOBTE & ICHMET 2025

Catalyzing Change for Sustainability and ESG: Bridging Academia and Industry

22nd - 26th September 2025 BEXCO, Busan, Korea



| ICOBTE & ICHMET 2025 Conference

Event	ICOBTE & ICHMET 2025 Conference
Theme	Catalyzing Change for Sustainability and ESG: Bridging Academia and Industry
Date	September 22 nd - September 26 th , 2025
Country	South Korea
Venue	BEXCO, Busan
Organizer	International Society of Trace Element Biogeochemistry (ISTEB)
Co-organizers	International ESG Association (IESGA) / Korea University ESG Research Institute / Korea Biochar Research Center

This is the joint conference of the 17th International Conference of Biogeochemistry of Trace Elements (ICOBTE) and the 22nd International Conference of Heavy Metals (ICHMET). The two societies have merged and formed the new International Society of Trace Elements in the Environment (ISTEE).









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| Important dates

15 th September 2024	15 th September 2024	31 st January 2025	15 th February 2025
Early Bird Registration	Abstract Submission	Registration Deadline	Abstract Submission Deadline

| Chair of the Conference



Prof. **Yong Sik Ok**



Prof. **Jörg Rinklebe**



Prof. Filip Tack

| Plenary Speakers



Prof. **Jim Ippolito**



Prof. **Yong-Guan Zhu**



Prof. Jon Blundy



Prof. **Longbin Huang**



Prof. Daniel C. W. Tsang



Prof. Scott Fendorf



Prof. **Wonyong Choi**

| Regular Session

- Human Health and Trace Elements
- Food and Trace Elements
- Water and Trace Elements
- Plants and Trace Elements
- Other Topics related to Trace Elements

- Analytical and Experimental Methods
- Organisms and Trace Elements
- Soils / Sediments and Trace Elements
- Microorganisms and Trace Elements
- Trace Elements and Sustainability

| Special Session

Theme	Symposium Title	Chair
Trace Elements and Human Health	Pollution Control and Resource Utilization of Heavy Metals-Contaminated Biomass	Shicheng Zhang
	Human and Environmental Health Impacts of Heavy Metal Pollution	Janelle Thompson
	Micro(nano)plastics in the Environments	Carol S.K. Lin
	Novel Approaches for Improving Soil Health and Remediation	Michael Komárek
	Heavy Metal Pollution: Risk Assessment and Remediation	Meththika Vithanage
	Mercury in the Environment	Jörg Rinklebe
Trace Elements and Soil	Agricultural Amendments: Implications for Sustainable Management and Environmental Quality	Scott Chang
Management	Trace Elements in Anaerobic Digestion	Wei Qiao
	Functionalized Biochar for the Management of Heavy Metal Biogeochemistry Balancing Trace Elements in the Environmental-Food Chain Continuum	Filip Tack
	Phytoremediation of Trace Elements in Soils as a Sustainable Green Tool: Potential, Status, Problems, Solutions and Prospects	Irena Twardowska
	Functionalized Biochar for the Management of Heavy Metal Biogeochemistry	Hailong Wang
Biochar, Heavy	Biochar from Biomass and Waste	Yong Sik Ok
Metals and Trace Elements	Advances in Mercury Biogeochemistry and Trophic Transfer Research in Support of the Minamata Convention	Michael S. Bank
	Successes and Failures in Trace/Heavy Metal Contaminated Land Reclamation	Jim Ippolito
Energy and Minerals	Integrating Clean Energy and Waste Valorization: Pathways to Recover Critical Minerals and Metals for Sustainable Development	Daniel Alessi
	Mineral Weathering and Metal(loid) Biogeochemistry: from Agricultural Land to Mining Pollution Management	Binoy Sarkar,Longbin Huang
Machine Learning in Trace Elements	Machine Learning Applications in Tackling Trace Elements Challenges	Chongchong Qi
Environmental Chemistry and Trace Elements	Innovative approaches to environmental quality monitoring and management, with special focus on SDGs and priority pollutants	Xiangzhou Yuan
	Impact of Climate Change on Metal Contamination and Remediation in Aquatic Environments	Anna Sophia Knox
	Optimizing Critical Element Resources and Environmental Health: The Case of the Critical Elements Antimony, Gallium, Germanium, Indium, and Tellurium	Montserrat Filella
	Explore the potential of critical elements in PFAS remediation	Zongsu Wei, Aarhus University
	Advanced Nano- and Carbon-based Materials for Efficient Trace Metal Remediation in Environmental Systems (soil, waste and water)	Patryk Oleszczuk
New Technologies and Future Advances in Toxic Elements	Environmental Effects of Trace Elements: Integrating in Silico, in Vitro, High-Throughput, and High-Content Approaches	Claudia Cosio
	Advancing Towards a Sustainable Future: Principles and Technologies for Circular Economy and Real-World Applications	Chungheon Shin

| Special Session Chairs



Heavy Metal Pollution: Risk Assessment and Remediation

Prof. Meththika Vithanage



Balancing Trace Elements in the Environmental-Food Chain Continuum

Prof. Filip Tack



Novel Approaches for Improving Soil Health and Remediation





Functionalized Biochar for the Management of Heavy Metal Biogeochemistry

Prof. Hailong Wang



Pollution Control and Resource Utilization of Heavy Metals-Contaminated Biomass

Prof. Shicheng Zhang



Biochar from Biomass and Waste

Prof. Yong Sik Ok

Prof. Jim Ippolito



Mercury in the Environment

Prof. Jörg Rinklebe



Reclamation

Machine Learning Applications in Tackling Trace Elements Challenges

Successes and Failures in Trace/ Heavy Metal Contaminated Land



Micro(nano)plastics in the environments

Prof. Carol S.K. Lin



Trace Elements in Anaerobic Digestion

Prof. Wei Qiao



Integrating Clean Energy and Waste Valorization: Pathways to Recover Critical Minerals and Metals for Sustainable Development

Prof. Daniel Alessi

Prof. Chongchong Qi

| Special Session Chairs



Innovative approaches to environmental quality monitoring and management, with special focus on SDGs and priority pollutants

Prof. Xiangzhou Yuan



Human and Environmental Health Impacts of Heavy Metal Pollution

Prof. Janelle Thompson



Support of the Minamata Convention

Impact of Climate Change on Metal

Remediation in Aquatic Environments



for Sustainable Management and **Environmental Quality**

Agricultural Amendments: Implications



Prof. Michael S. Bank

Contamination and

Prof. Anna Sophia Knox

Prof. Scott Chang



Phytoremediation of Trace Elements in Soils as a Sustainable Green Tool: Potential, Status, Problems, Solutions and Prospects

Prof. Irena Twardowska

Explore the potential of critical

elements in PFAS remediation



Optimizing Critical Element Resources and Environmental Health: The Case of the Critical Elements Antimony, Gallium, Germanium, Indium, and Tellurium

Prof. Montserrat Filella



Prof. Zongsu Wei



Advancing Towards a Sustainable **Future: Principles and Technologies** for Circular Economy and Real-World Applications

Dr. Chungheon Shin



Advanced Nano- and Carbon-based Materials for Efficient Trace Metal **Remediation in Environmental Systems** (soil, waste and water)

Prof. Patryk Oleszczuk



Environmental Effects of Trace Elements: Integrating In Silico, In Vitro, High-Throughput, and High-Content Approaches

Prof. Claudia Cosio





Prof. Longbin Huang

Prof. Binoy Sarkar

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Participation Opportunity in the Contest								
Exhibition Booth Place Selection Priority	0							
Exhibition Booth Website Offer	TBD							
Contest Registration Ticket (Unit: number of tickets)	10	7	5	3	2			





ICOBTE & ICHMET 2025 Secretariat

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