

Tokyo, Japan
November 6-9, 2026

CONFERENCE PROGRAM

ACESD

2026 11th Asia Conference on Environment and Sustainable Development

With Workshop: ACEEP

2026 3rd Asia Conference on Environmental Economics and Policy

CONFERENCE PROGRAM

2026 11th Asia Conference on Environment and Sustainable Development (ACESD 2026)

Workshop: 2026 3rd Asia Conference on Environmental Economics and Policy (ACEEP 2026)

November 6-9, 2026 | Tokyo, Japan

Sponsor

iNehc

iJESD ISSN: 2010-0264

Technical Support

YNU 横浜国立大学 YOKOHAMA National University

National Institute for Environmental Studies, Japan

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Abstracts: QR code & link (Click Here)

GENERAL INFORMATION

✧ Conference Venue

TKP Ichigaya Conference Center
【TKP 市ケ谷カンファレンスセンター】

Links:
https://www.kashikaigishitsu.net/facilitys/cc-ichigaya/
Address: 8 Ichigaya-Hachimancho, Shinjuku-ku, Tokyo 【日本〒162-0844 Tokyo, Shinjuku City, Ichigayahachimanchō, 8 TKP 市ヶ谷ビル】



✧ Meeting room information

Level	Venue	Nov. 6	Nov. 7	Nov. 8
4F	4M	Registration Desk	--	--
3F	3D	--	Plenary Session	--
	3B	--	Onsite Session 1 Onsite Session 5	Onsite Session 8
	3C	--	Onsite Session 2 Poster Session 1	Onsite Session 9
	3E	--	Onsite Session 3 Onsite Session 6	Onsite Session 10
	3G	--	Onsite Session 4 Onsite Session 7	Onsite Session 11
	3A	--	Banquet Dinner	--

✧ Onsite Registration

Registration desk (Room 4M) → Inform the staff of your paper ID→ Sign-in→ Claim your conference kit

✧ Devices Provided by the Organizer

Oral Session: Laptops (with MS-Office & Adobe Reader) / Projectors & Screen / Laser Pointer

Poster Session: Poster display stand, clear tape, mark pen.

✧ Materials Provided by the Presenter

Oral Session: Slides (pptx or pdf version). Format 16:9 is preferred. Please prepare a USB drive by yourself.

Poster Session: A1 size Printed poster. Please print your poster before your arrival.

✧ Duration of Each Presentation

Plenary Speech: 35mins, including Q&A

Invited Speech: 25mins, including Q&A

Oral Session: 15mins, including Q&A (Onsite+Online)

Poster Session: 5~10mins, including Q&A

✧ Notice

※ Please wear your delegate badge (name tag) for all the conference activities. Lending your participant card to others is not allowed.

※ Please take good care of your valuables at any time during the conference. The conference organizer does not assume any responsibility for the loss of personal belongings of the participants during conference day.

※ **UTC+9. Tokyo Local Time. Please be aware of time difference between this and your region/country.**

✧ **Zoom Meeting ID**

Zoom Download	Meeting ID	Link
	Zoom: 858 0529 5587	https://us02web.zoom.us/j/85805295587

Note:

✧ We recommend installing Zoom on your computer before the conference begins. No registration is required—new users can join directly.

✧ Participants who are going to do an online presentation are required to join the rehearsal in Zoom on **Friday, November 6, 2026**. Duration: 3min apiece. Feel free to leave after you finish the test.

✧ We will test control panel including screen sharing, audio, video, etc. Please get your presentation slides and computer equipment prepared beforehand.

◆Name Setting

Plenary Speaker: Plenary Speaker-Name

Author: Paper ID-Name

Committee: Position-Name

Delegate: Delegate-Name

◆Useful Links

✧ **Conference Banner**

✧ **Zoom Background**

WELCOME MESSAGE

Dear All,

We are pleased to welcome you to 2026 11th Asia Conference on Environment and Sustainable Development (ACESD 2026) and 2026 3rd Asia Conference on Environmental Economics and Policy (ACEEP 2026), which will be held in Tokyo, Japan during November 6-9, 2026. It is sponsored by iNehc, IJESD and technically supported by Yokohama National University, National Institute for Environmental Studies, Japan International Cooperation Agency and IPB University.

The conferences aim to provide a forum for researchers, practitioners, and professinals from the industry, academia and government to discourse on research and development, professional practice in environment and sustainable development. It is one of the leading international conferences for presenting novel and fundamental advances in the field of environment and sustainable development. The conferences serve to foster communication among researchers and practitioners working in a wide variety of scientific areas with a common interest in improving environment and sustainable development related techniques.

The agenda of this event includes 4 plenary speakers, 6 invited talks, 11 onsite sessions, 1 online session and 1 poster session.

On behalf of the organizing committee, we would like to deeply express our heartfelt appreciation to all our delegates, plenary speakers, invited speakers, session chairs, as well as all the committee members involved in the technical evaluation of conference papers and in the organization of the conference for their time, effort, and great contributions.

We also wish that these conferences will be an unforgettable and wonderful experience for you.

With Warmest Regards,

Conference Organizing Committees

ACESD 2026 & ACEEP 2026

Tokyo, Japan

CONFERENCE COMMITTEE

(in no particular order)

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Hongyan Li, National University of Singapore, Singapore

Lester P. Acoba, National University, Philippines

Joselito Abierta Olalo, Camarines Norte State College, Philippines

Wanja Wellbrock, Heilbronn University, Germany

AGENDA OVERVIEW (UTC+9)

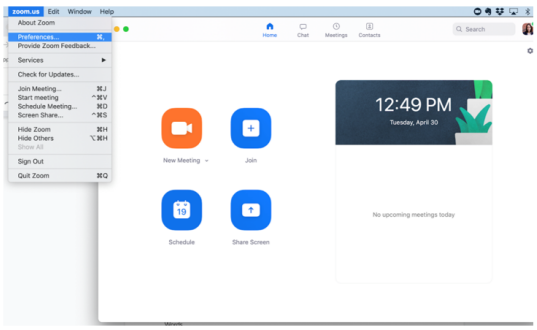
Friday, November 6, 2026		
Onsite Registration	**10:00-16:00**	**Venue: TKP Ichigaya Conference Center 【TKP 市ヶ谷カンファレンスセンター】 (Room 4M)**
Zoom Test for online presenters	**14:00-14:30**	**Zoom: 858 0529 5587**

Test Table	
14:00-14:15	K021, K217, K251, K734
14:15-14:30	Alternative time for participants who are unavailable at allocated time. Other online participants, includes but not limited to keynote speaker, session chair, committee member, delegate.

Zoom Guidance

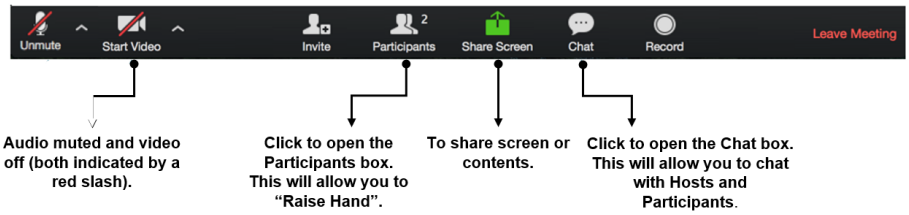
You can join the meeting without sign-in process.
Just put the meeting ID and join us.

URL: https://zoom.us/download



Each meeting has a unique **9, 10, or 11-digit** number called a **meeting ID** that will be required to join a Zoom meeting.

For any questions on the meeting day, you can text privately to “Assistant” for help.



Audio muted and video off (both indicated by a red slash).

Click to open the Participants box. This will allow you to “Raise Hand”.

To share screen or contents.

Click to open the Chat box. This will allow you to chat with Hosts and Participants.

Saturday, November 7, 2026 (UTC+9)		
Plenary Session <Onsite>		**Venue: 3D**
08:00-09:00	**Onsite Registration**	
Chairman: Prof. Mikio Ishiwatari, Meiji University, Japan		
09:00-09:10	**Opening Remarks**	**Prof. Keiji Ujikawa**, Yokohama National University, Japan
09:10-09:45	**Plenary Speaker 1**	**Dr. Mitsuo Yoshida** 1 Global Environment Department, Japan International Cooperation Agency (JICA), Tokyo, Japan 2 International Network for Environmental and Humanitarian Cooperation, Nonprofit Inc., Tokyo, Japan *Speech Title: Building End-of-Life Vehicle Management Systems: Lessons from International Comparison for Environmental Protection, Resource Circulation, and Institutional Implementation*
09:45-10:20	**Plenary Speaker 2**	**Prof. Junye Wang** Faculty of Science and Technology, Athabasca University, Canada *Speech Title: Process-based Modelling of Phytoremediation in Contaminated Soil: Concepts, Methods, Challenges and Future Applications*
10:20-10:50	**Group Photo & Coffee Break**	
10:50-11:25	**Plenary Speaker 3**	**Dr. Yasuhiko Hotta** Programme Director, Sustainable Consumption and Production, Institute for Global Environmental Strategies (IGES) *Speech Title: Needs for Evidence-based Policy Making and Multi-stakeholder Partnership to Realize Circular Economy*
11:25-12:00	**Plenary Speaker 4**	**Prof. Hsing-Cheng Hsi** National Taiwan University, Taiwan *Speech Title: Selective recovery of precious metals from diluted wastewater with chemically modified spherical activated carbon in a batch fluidized bed*
12:00-13:30	**Lunch**	

Saturday, November 7, 2026 (UTC+9)		
Parallel Session <Onsite>		**Venue**
13:30-15:45 **Onsite Session 1**	***Waste Management, Resource Recovery, and Circular Economy*** K035-A, K083-A, K097-A, K300, K137-A, K190-A, K051, K216-A, K184	3B
13:30-15:40 **Onsite Session 2**	***Sustainable Urban Governance, Transport, and Environmental Quality*** **Invited Talk: Akhmad Fauzi** K075, K085-A, K114, K134-A, K243, K048, K112	3C
13:30-15:50 **Onsite Session 3**	***Hydrology and Water Resources Management*** **Invited Talk: Chin Hsien Liao, Kei Nakagawa** K043, K176-A, K269-A, K194, K183, K266	3E
13:30-15:40 **Onsite Session 4**	***Climate Adaptation, Disaster Resilience, and Community Governance*** **Invited Talk: Masato Kawanishi** K714, K719, K098-A, K056-A, K088-A, K115, K095	3G

15:50-16:00	**Coffee Break**	
16:00-18:25 **Onsite Session 5**	***Coastal and Aquatic Ecosystems: Pollution Monitoring and Biodiversity Conservation*** **Invited Talk: Cherdvong Saengsupavanich** K160, K118-A, K201, K156-A, K213-A, K106, K167, K170	3B
16:00-18:25 **Onsite Session 6**	***Carbon Accounting, Carbon Sinks, and Carbon Mitigation*** **Invited Talk: Chatchai Khiewngamdee** K096, K718, K008, K073-A, K082-A, K140-A, K164, K228	3E
16:00-18:30 **Onsite Session 7**	***Urban Climate Resilience, Blue-Green Infrastructure, and Thermal Environment Assessment*** K020-A, K028, K032, K053, K061, K163, K199-A, K157, K123-A, K234	3G
16:00-18:00 **Poster Session 1**	***Environmental Pollution Control and Sustainable Governance*** K066-A, K299-A, K071-A, K126-A, K127-A, K135-A, K138-A, K177-A, K182-A, K247-A, K078-A, K125-A	3C
19:00-21:00	**Banquet Dinner** **Awards 2026:** ✧ **Best Paper Awards** ✧ **Best Reviewer Awards** ✧ **Lucky Draw**	3A

Sunday, November 8, 2026 (UTC+9)

Parallel Session <Onsite>		**Venue**
08:30-09:00	**On-site registration & Coffee Time**	3C
09:00-12:15 **Onsite Session 8**	***Sustainability Governance and ESG Practices: Policy, Market, and Institutional Innovation*** K001, K045-A, K706-A, K720-A, K254, K701, K240-A, K250, K093-A, K255-A, K739, K725, K731	3B
09:00-11:30 **Onsite Session 9**	***Sustainable Materials and Building Energy Efficiency*** K062-A, K158, K124, K231-A, K171-A, K192-A, K063-A, K159-A, K162, K089	3C
09:00-11:45 **Onsite Session 10**	***Ecotourism and Rural Sustainable Development: Resource Management and Policy Implications*** K139-A, K107-A, K116-A, K233-A, K242-A, K100, K111-A, K086-A, K245-A, K104-A, K094-A	3E
09:00-11:30 **Onsite Session 11**	***Advanced Catalytic and Biological Treatment Technologies for Water Pollution Control*** K018-A, K040, K148-A, K273-A, K169-A, K022-A, K147-A, K166-A, K195, K206	3G

Sunday, November 8, 2026 (UTC+9)

Parallel Session <Online>	**Zoom: 858 0529 5587**
09:00-10:00 **Online Session 1**	**Resource Management, Circular Economy, and Environmental Monitoring** K021, K217, K251, K734

PLENARY SPEAKER 1

Saturday, November 7, 2026 09:10-09:45 (UTC+9)	Venue: 3D



Dr. Mitsuo Yoshida

1 Global Environment Department, Japan International Cooperation Agency (JICA), Tokyo, Japan

2 International Network for Environmental and Humanitarian Cooperation, Nonprofit Inc., Tokyo, Japan

Speech Title: Building End-of-Life Vehicle Management Systems: Lessons from International Comparison for Environmental Protection, Resource Circulation, and Institutional Implementation

Abstract: The management of end-of-life vehicles (ELVs) has become an increasingly important policy issue in both industrialized and developing countries. ELVs contain valuable resources, including ferrous and non-ferrous metals, reusable parts, plastics, glass, catalysts, and batteries. At the same time, they also contain environmentally sensitive and hazardous components such as used oils, fuels, coolants, refrigerants, lead-acid batteries, tires, airbags, automotive shredder residue (ASR), and lithium-ion batteries. ELV management therefore requires an institutional framework that links environmental protection, vehicle registration, resource recovery, market regulation, and circular economy policy. This paper examines ELV management systems in twelve countries and jurisdictions in the world. The purpose is not to identify a single best model, but to clarify which institutional elements should be selectively adapted by countries seeking to establish or improve ELV management systems. The comparison shows that existing systems can be understood through several governance models: circular economy and extended producer responsibility (EPR), fee-based and electronic tracking systems, market-based recycling systems, fund-based recycling systems, administrative authorization models, and imported-vehicle-oriented systems. The Mexican case further illustrates that the formulation of management plans and national standards does not automatically lead to implementation without state-level capacity, financial mechanisms, enforcement, and integration with vehicle deregistration. The paper argues that economically developing countries should avoid direct transplantation of advanced systems. Instead, they should establish a minimum institutional package consisting of ELV definitions, vehicle deregistration linked with dismantling certificates, authorized dismantlers, basic depollution standards, financing mechanisms, vehicle identity number (VIN)-based data systems, and gradual formalization of existing dismantling and scrap markets. In used-vehicle-importing countries, ELV management must begin at the point of import, not merely at the point of disposal. A phased and hybrid institutional approach is necessary to prevent illegal dumping and improper dismantling while gradually moving toward circular economy, EPR, electric vehicle (EV) battery management, and critical material recovery.

Bio: Dr. Mitsuo Yoshida was acquired his doctorate degree from the Graduate School of Science, Hokkaido University, Sapporo in 1982. He has worked for Japan International Cooperation Agency (JICA) since 1992, and current position is the Senior Advisor of JICA, mainly working for environmental management and waste management projects over the world. He was the visiting professor (Environmental Science and Technology) of the Graduate School of Science and Engineering, Tokyo Institute of Technology from 2008 to 2012, and visiting professor (International Environmental Studies) of the Graduate School of Frontier Science, The University of Tokyo from 2012 to 2017. He is also the Director and CEO of the International Network for Environmental and Humanitarian Cooperation (iNehc), Nonprofit Inc., Tokyo, since 2017.

PLENARY SPEAKER 2

Saturday, November 7, 2026 09:45-10:20 (UTC+9)	Venue: 3D



Prof. Junye Wang

Faculty of Science and Technology, Athabasca University, Canada

Speech Title: Process-based Modelling of Phytoremediation in Contaminated Soil: Concepts, Methods, Challenges and Future Applications

Abstract: Phytoremediation is a cost-effective and environmentally friendly approach to bioremediation that uses plants to immobilize or stabilize, uptake or extract, transform or degrade, and reduce the toxicity of contaminants in soil and water. Despite its potential, the effectiveness of phytoremediation under practical field conditions remains uncertain because of the complex interactions among plants, soil, water, contaminants, weather, nutrients, and microbial processes. These interactions operate across multiple spatial and temporal scales, making it difficult to predict remediation performance and identify the key factors controlling contaminant fate and plant uptake. Process-based modeling provides a valuable framework for integrating these complex processes, improving our understanding of the ecological and biogeochemical mechanisms governing phytoremediation, and evaluating remediation efficiency under different environmental conditions. In this presentation, we introduce the concepts and approaches for developing process-based phytoremediation models for contaminated soils, including model conceptualization, process representation, parameterization, calibration, and validation. We also discuss major challenges, including environmental heterogeneity, data and parameter uncertainty, model complexity, and the representation of plant–soil–water–contaminant interactions. Finally, we highlight future applications of phytoremediation modeling for site-specific remediation design, performance assessment, scenario analysis, climate-change evaluation, and decision support for sustainable contaminated-land management.

Bio: Dr. Junye Wang is a full professor in computational sustainability and environmental analytics at Athabasca University, Canada. He received his Ph.D. from East China University of Science and Technology. Then he joined Shanghai Jiaotong University as an associate professor in 1996. From 1999 till 2013, he worked at the Universities of Sheffield, Greenwich, and Loughborough, and Scottish Crop Research Institute, and Rothamsted Research, UK. He has over 35 years' experience and is an internationally recognized leader in energy, environment and sustainability. He has authored/coauthored 2 book, 8 chapters, and over 150 peer-reviewed journal papers. He has been ranked by Stanford University as the top 2% of world's leading researchers since 2019 and the top 0.35% of scientists worldwide in Environmental Sciences (466th out of 130223) in the latest version (2025). He serves associate editor and editorial board member of 9 international journals.

PLENARY SPEAKER 3

Saturday, November 7, 2026 10:50-11:25 (UTC+9)	Venue: 3D



Dr. Yasuhiko Hotta

Programme Director, Sustainable Consumption and Production, Institute for Global Environmental Strategies (IGES)

Speech Title: Needs for Evidence-based Policy Making and Multi-stakeholder Partnership to Realize Circular Economy

Abstract: Transitioning toward a circular economy and mitigating plastic pollution in Asia require a fundamental shift toward evidence-based policy making and multi-stakeholder partnerships. Despite expanding policy frameworks—such as National Action Plans (NAPs) across ASEAN nations—critical data gaps persist across the plastic value chain, particularly regarding consumption patterns and environmental leakage hotspots. Addressing these challenges requires integrating ground-truth evidence, material flow analysis, and hydrologic modeling to guide targeted interventions. Furthermore, scaling regional solutions—including Extended Producer Responsibility (EPR) schemes, eco-design incentives, and sustainable business models—demands structured governance and cross-sectoral collaboration. Effective implementation relies on active multi-stakeholder partnerships among national and municipal governments, private industries, academic institutions, and local communities. Localized initiatives demonstrate how data-driven strategies and shared governance accelerate structural transitions. Ultimately, aligning robust data systems with multi-stakeholder participation is essential to operationalizing circular economy strategies, reducing ocean plastic pollution, and advancing Sustainable Development Goal 12.

Bio: Dr. Yasuhiko Hotta is the Programme Director for Sustainable Consumption and Production at the Institute for Global Environmental Strategies (IGES). He has BA and MA degrees on Political Science from Waseda University and holds a DPhil in International Relations from the University of Sussex. An expert in the Circular Economy, 3R policies, and Extended Producer Responsibility (EPR), Dr. Hotta has contributed to major international initiatives, including the G8's 3R Initiative, ERIA working groups on the 3Rs and Marine Plastic Debris, OECD Working Group on Resource Productivity and Waste, and G20-related processes such as T20. Notably, he led the policy design component for Japan's 5-year PECoP-Asia environmental fund project (2016–2021). Currently, he serves as the President of the Asia Pacific Roundtable for Sustainable Consumption and Production (APRSCP) for 2024–2027 and lectures at the Institute of Science Tokyo. Recognizing his contributions, he received the Excellent International Collaboration Award from the Institute of Life Cycle Assessment, Japan in 2024.

PLENARY SPEAKER 4

Saturday, November 7, 2026 11:25-12:00 (UTC+9)	Venue: 3D



Prof. Hsing-Cheng Hsi
National Taiwan University, Taiwan

Speech Title: Selective recovery of precious metals from diluted wastewater with chemically modified spherical activated carbon in a batch fluidized bed

Abstract: Platinum group metals are widely utilized in industries such as automotive catalytic converters and electronic printing. However, their limited natural reserves and rapidly increasing global demand highlight the urgent need to develop efficient recovery technologies that can promote resource circularity and mitigate environmental pollution. This study presents work on utilizing raw and chemically modified bead-activated carbon (WBAC) with a fluidized-bed reactor (FBR) for the recovery of low-concentration palladium (Pd2+) ions from aqueous solutions. Optimal adsorption parameters were determined through batch experiments. Experimental variables included solution pH, contact time, adsorbent dosage, adsorption thermodynamics, kinetics, selectivity, desorption efficiency, and reusability. The optimized parameters were further validated in a laboratory-scale FBR system.

Batch experiments indicated that under optimal conditions (pH 4, initial Pd2+ concentration 10 mg/L, adsorbent dosage 0.1 g/L, and 40°C), adsorption equilibrium was reached within 8 h, achieving a Pd removal efficiency above 99% with a maximum adsorption capacity of ~90 mg/g. In the FBR system, operated at an upward flow rate of 300 mL/min, ~87% of Pd2+ was removed within 60 min and ~99% after 6 h, respectively, demonstrating a faster removal rate than the batch system. The modified carbon spheres also exhibited high selectivity in multi-component systems, and efficient regeneration was achieved using a desorption agent composed of 0.25 M thiourea and 2 M HCl, enabling multiple adsorption-desorption cycles. The Pd2+ recovery mechanism involves both chemical adsorption and precipitation. The adsorption pathway was successfully elucidated using DFT simulation combined with X-ray photoelectron spectroscopy (XPS) and scanning electron microscopy with energy-dispersive X-ray spectroscopy (SEM/EDS) analysis, and interpreted based on the HSAB theory, frontier molecular orbital distributions, and electrostatic potential mapping.

Bio: Dr. Hsing-Cheng Hsi received his Bachelor's degree (1992) and Master's degree (1994), both from the National Taiwan University, Taiwan. He got his PhD degree at the Department of Civil and Environmental Engineering, University of Illinois at Urbana-Champaign in 2001. Dr. Hsi is a professor and former director at the Graduate Institute of Environmental Engineering, National Taiwan University. Dr. Hsi's expertise is in the development of novel technology for air pollution control, water treatment and reuse, and soil/sediment remediation. His research interests include (1) synthesis of novel carbonaceous adsorbents and metal oxide/photocatalysts for adsorption and catalytic oxidation or reduction in control of toxic metals (especially mercury), SOx, NOx and VOC presenting in air/flue gases, water and wastewater, soil, and sediments; (2) development of novel active capping for remediating contaminated sediment by release inhibition; (3) fabrication of novel carbonaceous material for precious and rare metal recycling from urban wastes; (4) speciation and distribution investigation of heavy metals in soil and sediment, and understanding their environmental and health risk. Dr. Hsi also serves as a member of the editorial board of the Journal of Hazardous Materials, the associate editor of the Journal of the Air & Waste Management Association, USA, and the Journal of Environmental Engineering, American Society of Civil Engineering, USA.

INVITED SPEAKER 1

Saturday, November 7, 2026 13:55-14:20 (UTC+9)	Venue: 3E



Prof. Kei Nakagawa

Institute of Integrated Science and Technology, Nagasaki University, Japan

Speech Title: A Non-destructive Approach for Estimating Hydraulic Conductivity from Borehole Cores Using an Infiltrometer and Digital Image Analysis

Abstract: Hydraulic conductivity is one of the most important parameters for evaluating groundwater flow and contaminant transport. Although in situ permeability tests provide reliable estimates, they are often costly and timeconsuming. This study proposes two nondestructive methods for estimating hydraulic conductivity from borehole core samples. The first method measures radial infiltration into short-core sections using an infiltrometer. The second method estimates the hydraulic conductivity from image-derived porosity obtained from smartphone photographs processed using ImageJ software. Borehole cores collected during the installation of a monitoring well at Mie Elementary School in Shimabara City, Japan, were used to evaluate both methods. The estimated hydraulic conductivities obtained using the two approaches were compared, demonstrating the applicability of borehole cores for rapid and nondestructive hydraulic characterization.

Bio: Kei Nakagawa is a Professor of Environmental Groundwater Science with 30 years of research experience. He was first appointed as an Assistant Professor in Soil Science of the Department of Agricultural Chemistry in 1999 at Kyushu University and was promoted to Associate Professor in Water Use Engineering of the Department of Agricultural Engineering in 2002 at Kagoshima University. In April 2011, he was appointed Full Professor of Graduate School of Fisheries and Environmental Sciences of Nagasaki University. His main fields of research interest include reactive transport in groundwater, physical and chemical hydrogeology and heterogeneity, saltwater intrusion and performance evaluation of subsurface dams in coastal aquifers, groundwater modeling, and remediation of contaminated soils and groundwater (phytoremediation and electro-kinetic remediation of heavy metal-contaminated soils). Since being appointment at Nagasaki University in 2011, his main research topic has been the nitrate pollution resulting from agricultural activities.

INVITED SPEAKER 2

Saturday, November 7, 2026 16:00-16:25 (UTC+9)	Venue: 3B



Prof. Dr. Cherdvong Saengsupavanich

Vice Dean for Research Development Academic Services and Internationalization

Faculty of International Maritime Studies, Kasetsart University, Sri Racha Campus, Thailand

Speech Title: Coastal debris: A Recent Review on Types and Impacts

Abstract: Coastal zones are critical economic and ecological hubs facing severe degradation from anthropogenic pressures, particularly the pervasive accumulation of coastal debris. This review synthesizes global research on debris types, abundance, significant ecological impacts, and essential management strategies. Analysis of worldwide case studies confirms that debris, originating from both land and ocean sources, is a profound problem, dominated overwhelmingly by plastic and polystyrene. Common debris items, including derelict fishing gear and single-use packaging, show abundance directly linked to urbanization and inadequate waste management systems. The ecological consequences are critical. The debris inflicts direct physical harm through entanglement and causes physiological impairment via ingestion, inducing false satiation and transferring toxins across trophic levels. It also causes habitat destruction and acts as a biological vector for non-native species. Effectively addressing this crisis demands an urgent, multi-pronged strategy: improving monitoring through integrated tools and citizen science, setting clear reduction targets aligned with a circular economy model, and establishing multilateral working groups for coordinated global governance. Urgent and collaborative action is vital to secure the health of coastal and marine ecosystems.

Bio: Cherdvong Saengsupavanich is the chief editor of Maritime Technology and Research, a Q2 Scopus-indexed journal, owned by the Faculty of International Maritime Studies, Kasetsart University, Sriracha Campus. He has reviewed hundreds of submissions for numerous Scopus-indexed journals. His expertise is coastal protection, coastal management, and coastal structures. He has also designed various coastal protection structures, especially revetments and breakwaters.

INVITED SPEAKER 3

Saturday, November 7, 2026 16:00-16:25 (UTC+9)	Venue: 3E



Assoc. Prof. Chatchai Khiewngamdee

Faculty of Economics, Chiang Mai University, Thailand

Speech Title: Can Remote Work Readiness Drive National Carbon Reduction?

Abstract: This study examines whether national remote work readiness is associated with lower carbon intensity of GDP across 93 countries in 2023. We combine the Global Remote Work Index, which covers cyber safety, economic safety, digital and physical infrastructure and social safety, with ordinary least squares and quantile regression, controlling for the renewable share of electricity, income per capita at purchasing power parity, industry share, population density, trade openness and the urban population share. Readiness is negatively correlated with carbon intensity, but this association disappears once income per capita is held constant, as readiness and income are closely correlated across countries. The components of the index, by contrast, move in opposite directions. Conditional on income, digital and physical infrastructure is associated with higher carbon intensity, whereas social safety is associated with lower carbon intensity. The infrastructure association holds under an alternative income measure, a nonlinear income term and the exclusion of influential countries, and is most pronounced in the upper part of the carbon intensity distribution; the social safety association is less stable across income measures. These results suggest that aggregate readiness indices may conceal offsetting relationships, and that cross-country links between digital capacity and emissions are best read alongside income. Panel evidence with country fixed effects would be needed to establish whether these associations reflect causal effects.

Bio: Chatchai Khiewngamdee is an Associate Professor at the Faculty of Economics, Chiang Mai University, Thailand. He holds a Ph.D. in Economics from Chiang Mai University and previously worked as an Economist at the Bank of Thailand. His research covers international economics, financial economics, and energy and environmental economics, with recent work published in Sustainability, Energy Reports, and Agronomy, alongside several Springer conference volumes. He has been an active participant in the Asia Conference on Environment and Sustainable Development series.

INVITED SPEAKER 4

Saturday, November 7, 2026 13:30-13:55 (UTC+9)	Venue: 3C



Prof. Akhmad Fauzi
Department of Resource & Environmental Economics
Faculty of Economics and Management
IPB University Indonesia

Speech Title: The Persistent Trade-Off: Uncovering the Decoupling of Green and Conventional Economic Performance

Abstract: Despite the global emphasis on sustainability and the green economy, the measurement of environmental performance remains largely decoupled from conventional economic assessments. Currently, green economy metrics are typically evaluated in isolation from traditional socio-economic indicators—such as GDP, inequality, poverty, and unemployment—which obscures a comprehensive understanding of sustainable development. This study addresses this gap by synthesizing environmental and conventional economic indicators to evaluate development coherence at the regional level. Utilizing a ten-year panel dataset from 34 provinces, we apply the Pena DP2 Distance method to aggregate seven conventional and five green economy indicators. These indices are standardized annually to generate measures of development gap, coherence, level-adjusted coherence, and distance-to-ideal performance. Our findings reveal a persistent trade-off between economic and environmental outcomes, evidenced by a consistently negative cross-domain correlation throughout the study period. This demonstrates that regions continue to achieve traditional economic growth at the expense of environmental degradation, suggesting that the "green economy" concept has yet to structurally transform regional operations. Ultimately, this lack of coherence highlights a critical blind spot in regional governance. To achieve genuine sustainable development, policymakers must transition from siloed approaches to holistic strategies that position environmental health as a fundamental prerequisite for economic progress.

Bio: Akhmad Fauzi is Professor of Resource and Environmental Economics in the Faculty of Economics and Management at IPB University, Indonesia, where he has served since 1986. Over his career, he has held leadership roles including Chair of the Department of Resource and Environmental Economics and Chair of the Faculty Senate. He earned a bachelor's degree in fisheries economics from IPB University (1985), an M.Sc. in resource economics from the University of Guelph, Canada (1990), and a Ph.D. in Economics from Simon Fraser University, Canada (1998). Beyond teaching and research, he has contributed to international projects supported by the World Bank, ADB, USAID, AusAID, JICA, DANIDA, and the Packard Foundation. His expertise spans coastal and ocean management, bioeconomic analysis, fisheries accounting, the green economy, Regional sustainability, and Blue Economy initiatives in Indonesia. He has also advised numerous government institutions, including the Ministries of Fisheries and Marine Affairs, National Development Planning, Environment, and Agriculture, as well as subnational agencies. In 2003, he served as an international evaluator for the European Union's FP6 program on coastal management. He has written multiple Bahasa Indonesia textbooks—covering resource and environmental economics, fisheries economics, fisheries and marine resource modeling, environmental risk analysis, Economic Valuation and Environmental Damage Assessment, and sustainability analysis—and has published numerous articles in academic journals. His honors include an Academic Achievement Award from the Faculty of Economics and Management (2006) and recognition as IPB University's Academic Leader for Social Science (2024).

INVITED SPEAKER 5

Saturday, November 7, 2026 13:30-13:55 (UTC+9)	Venue: 3G



Dr. Masato Kawanishi
Japan International Cooperation Agency (JICA), Japan

Speech Title: Evolving Climate Framing of Planned Relocation: A Comparative Analysis in Fiji

Abstract: Planned relocation has become an increasingly prominent policy response to climate-related risks, particularly in small island developing states. Fiji is widely regarded as a global pioneer in institutionalizing planned relocation as part of its response to the impacts of climate change. However, relocation is not solely driven by climate-related factors but rather by a complex interplay of environmental and socio-economic conditions. Despite this complexity, relocation is frequently framed as a "climate issue." This paper explores how the Fijian Government frames planned relocation as a climate issue and how its framing has shifted over time. It also examines whether gaps exist between the government's framing and villagers' perceptions. To this end, desktop reviews of relevant documents were conducted. This study finds that the government has recently started to frame planned relocation as a means of addressing loss and damage associated with climate change. Even though this may enable better access to international funding, the speed at which this national, top-down framing has been forged may have created some gaps with experiences and perceptions at the village level. Too much emphasis on relocation may foreclose consideration of alternative adaptation options. It also points to the importance of forming a collective "sense" to sustain collective action in facing society's grand challenges. The findings suggest that climate framing can influence decision-making, potentially leading to both policy benefits and distortions. This study contributes to the literature by shedding light on the processes of framing in climate governance.

Bio: Masato Kawanishi has been Senior Advisor for Japan International Cooperation Agency (JICA) since 2005 and involved in official development assistance (ODA) projects addressing climate change. He has also served as Visiting Professor, Department of International Studies, Graduate School of Frontier Sciences, The University of Tokyo since 2025. He holds a Doctorate in Engineering from Ibaraki University and has published papers and books on adaptation, transparency and other climate change-related topics.

INVITED SPEAKER 6

Saturday, November 7, 2026 13:30-13:55 (UTC+9)	Venue: 3E



Asst. Prof. Chin-Hsien Liao
Department of Land Resources, Chinese Culture University, Taiwan

Speech Title: An Environmental Efficiency-Based Approach to The Planner's Triangle for Integrated Catchment Management

Abstract: Over recent decades, urbanization, industrialization, and flooding have profoundly impacted the Zengwun River catchment in Tainan, Taiwan. Planners face the difficult task of balancing at least three conflicting environmental priorities to foster the country's rapid economic development while protecting the catchment's water processes. Building on previous research in integrated catchment management (ICM) and employing the environmental conflicts model to create a distinctive framework, this article seeks to enhance environmental efficiency in the urban and developing areas of the Zengwun catchment. The framework uses three indicators—urbanization, water balance processes, and employment opportunities—paired with Geographic Information System (GIS) and Data Envelopment Analysis (DEA) to assess conflicts among social, environmental, and economic interests. Our study of the Zengwun catchment's urban region reveals uneven regional conservation efforts and insufficient ICM strategies, leading to spatial mismatches, increased environmental conflicts, and lower urban environmental quality. The environmental conflicts model affects the efficiency of various villages, water balance processes, and development prospects. Our goal is to guide planners in addressing economic and environmental injustices by integrating tools such as ICM, the environmental conflicts model, spatial analysis, and community conflict resolution.

Bio: Dr. Chin-Hsien Liao is an Assistant Professor in the Department of Land Resources at Chinese Culture University, Taiwan. He received his Ph.D. degree in Urban Planning from National Cheng Kung University. Prior to his current academic appointment, he served in prominent leadership positions as Deputy Director at the Taiwan Geographic Information Center and Head of Section at the National Land Planning and Real Estate Information Center, bringing extensive practical expertise in spatial data science, national land planning, and infrastructure management. Dr. Liao's research focuses primarily on climate resilience, land use planning, urban water management, low impact development (LID), and spatial statistics. He has published numerous papers in prestigious SCI- and EI-indexed journals, including the Journal of Water and Climate Change and Environmental Science and Engineering, and has successfully led and executed numerous national research projects and municipal planning initiatives funded by the National Science and Technology Council (NSTC) and government agencies. He is an active member of international academic societies, including the International Association for Urban Climate (IAUC) and the Association of European Schools of Planning (AESOP).

ONSITE SESSION 1

Time	**13:30-15:45 | November 7, 2026 (Sat.)**
Venue	**3B**
Topic	**Waste Management, Resource Recovery, and Circular Economy**
Chair	**Dr. Mitsuo Yoshida, Global Environment Department, Japan International Cooperation Agency (JICA), Tokyo, Japan**

Time	Paper ID	Paper Detail
13:30-13:45	K035-A	Incorporating Extended Producer Responsibility (EPR) Frameworks in Higher Educational Institutions (HEIs) for Sustainable Development: An Empirical Case Study of Panasonic Harit Umang at University of Delhi ***Lakshmi Hooda,*** Zakir Husain Delhi College, University of Delhi, India
13:45-14:00	K083-A	Waste, Emissions, and the Land Crisis in Jakarta: A Dynamic Systems Approach to Circular Economy Transformation ***Dwi Aprillia Linda Astuti,*** IPB University, Indonesia
14:00-14:15	K097-A	From Waste Diversion to Local Energy Recovery: Pilot-Plant Assessment and Cost–Benefit Analysis of Residual MSW Gasification in Iligan City, Philippines ***Joevin Mar Busoy Tumongha,*** MSU-IIT, Philippines
14:15-14:30	K300	Surplus-Food Redistribution for Sustainable Consumption: A Conceptual Framework ***Mitsunori Hirogaki,*** Kyushu University, Japan
14:30-14:45	K137-A	Transforming Methane into Protein: A Circular Bioeconomy Approach for Climate-Resilient Food Systems ***Hafiz Muhammad Aamir Shahzad,*** Qatar Environment and Energy Research Institute, Hamad Bin Khalifa University, Qatar
14:45-15:00	K190-A	Development of Environment-Friendly Binders from Jackfruit Peel and Saba Banana Peel for Coco-coir Pot Production: A Circular Economy Perspective ***Joselito A. Olalo,*** University of Camarines Norte, Philippines
15:00-15:15	K051	Assessment of Resource Efficiency, Emission Reduction, and Explosive Performance of Low-Ammonium- Nitrate Waste-Oil Emulsion Explosives in Surface Mining Operations ***Amalia Nurmalitasari, Agung Prionegoro, Eddy Dharmawan, Sudirjo Heru Krisnawan,*** Dahana Corporation, Indonesia
15:15-15:30	K216-A	An Evidence-Informed Framework for Sustainable Food Consumption Education: Insights from Near-Expired Food and Surplus Food Platforms in Taiwan ***Kai-Yu Tang,*** National Chung Hsing University, Taiwan
15:30-15:45	K184	ESG-Oriented Supply Chain Management in Battery Manufacturing: An Evaluation Framework Based on Consistent Fuzzy Preference Relations ***Shih-Tong Lu,*** Kainan University, Taiwan

ONSITE SESSION 2

Time	**13:30-15:40 | November 7, 2026 (Sat.)**
Venue	**3C**
Topic	**Sustainable Urban Governance, Transport, and Environmental Quality**
Chair	**Prof. Fida Rachmadiarti, Unevesitas Negeri Surabaya, Indonesia**

Time	Paper ID	Paper Detail
13:30-13:55	**Invited Talk**	The Persistent Trade-Off: Uncovering the Decoupling of Green and Conventional Economic Performance ***Akhmad Fauzi,*** IPB University, Indonesia
13:55-14:10	K075	Governance as an environmental stressor in Vietnam's Red River Delta: a mixed-methods assessment framework ***Tram Nguyen Hoang Bao,*** VinUniversity, Vietnam
14:10-14:25	K085-A	Assessment of Coupling Coordination Between Multimodal Transit Integration and Transportation Emission Reduction for Sustainable Urban Development in the Jabodebek Metropolitan Area, Indonesia ***Aim Abdul Karim,*** IPB University, Indonesia
14:25-14:40	K114	A Study on the Impacts of the Importance of Pedestrian Environment Physical Factors on Perceived Safety ***Bo-Xuan Wu and Wen-bor Lu,*** Landscape and Urban Design, Chaoyang University of Technology, Taiwan
14:40-14:55	K134-A	A Multi-Agent LLM Framework for Data-Driven Urban Air-Quality Governance ***Chendong Ma,*** Hong Kong Baptist University, China
14:55-15:10	K243	School Calendars and Morning Air Quality in Monterrey, Mexico: A Within-Day Analysis of the School-Arrival Window ***Patricio Flores Uribe,*** Tecnologico de Monterrey, Mexico
15:10-15:25	K048	Sustainable and Resilient Urban Governance: The Taipei Urban Renewal Experience ***Ming-Tung Hsieh,*** Department of Land Economics, National Chengchi University, Taiwan
15:25-15:40	K112	The Association Between Perceived Importance of Physical Attributes and Social Cohesion in Spaces Beneath Elevated Infrastructure ***Yi-Han Lin,*** Landscape and Urban Design, Chaoyang University of Technology, Taiwan

ONSITE SESSION 3

Time	**13:30-15:50 | November 7, 2026 (Sat.)**
Venue	**3E**
Topic	**Hydrology and Water Resources Management**
Chair	**Asst. Prof. Chin-Hsien Liao, Chinese Culture University, Taiwan**

Time	Paper ID	Paper Detail
13:30-13:55	**Invited Talk**	An environmental efficiency DEA method based on the planner's triangle for integrated catchment management ***Chin Hsien Liao,*** Chinese Culture University, Taiwan
13:55-14:20	**Invited Talk**	A Non-destructive Approach for Estimating Hydraulic Conductivity from Borehole Cores Using an Infiltrometer and Digital Image Analysis ***Kei Nakagawa,*** Nagasaki University, Japan
14:20-14:35	K043	Predicting Reservoir Sedimentation during Sediment-Related Disasters Considering Forest Loss Drivers and Spatial Connectivity ***Jialiang Gong,*** Kumamoto University, Japan
14:35-14:50	K176-A	A Personalised AI-Driven Water Conservation System Using Dynamic Rule-Based Recommendations ***Sareh Sadat Naserizadeh Ghamsari,*** Griffith University, Australia
14:50-15:05	K269-A	Climate-constrained nonstationarity in hydrological partitioning of grassland ecosystems and its conditional modulation by grazing ***Ge Gao,*** Tianjin University, China
15:05-15:20	K194	The Usefulness of Normalized Indices in Machine Learning Classification of Riverine Land Covers from Satellite Imagery at Different Times ***Hitoshi Miyamoto,*** Shibaura Institute of Technology, Japan
15:20-15:35	K183	The PFAS Governance Gap in the Philippines: A Policy Readiness Assessment for Sustainable Freshwater and Drinking Water Management ***Ireneo G. Mateo,*** FEU Institute of Technology, Philippines
15:35-15:50	K266	Morphometric Condition and Edible Muscle Yield of Terapon jarbua Across Contrasting Estuarine Rivers in Davao Oriental, Philippines: An Exploratory Biomonitoring Study ***Melanie Martos Garcia,*** Mapúa Malayan Colleges Mindanao, Philippines

ONSITE SESSION 4

Time	**13:30-15:40 | November 7, 2026 (Sat.)**
Venue	**3G**
Topic	**Climate Adaptation, Disaster Resilience, and Community Governance**
Chair	**Dr. Masato Kawanishi, Japan International Cooperation Agency, Japan**

Time	Paper ID	Paper Detail
13:30-13:55	**Invited Talk**	Evolving Climate Framing of Planned Relocation: A Comparative Analysis in Fiji ***Masato Kawanishi,*** Japan International Cooperation Agency, Japan
13:55-14:10	K714	Indigenous Climate Intentions in the Context of Climate Change and Tourism Development: An SOBC Study in Taiwan ***Han-Shen Chen,*** Chung Shan Medical University, Taiwan
14:10-14:25	K719	Managing Climate-Induced Heat Stress in Humid Tropical Dairy Systems: A DPSIR-Based Framework for Environmental Policy, Adaptation Planning, and Risk Management ***Davids Makararpong,*** University of the Thai Chamber of Commerce, Thailand
14:25-14:40	K098-A	Women as Environmental Stewards: An Ecofeminist Analysis of Community-Driven Development in Mindanao, Philippines ***Jhona D. Landong,*** Mindanao State University -Iligan Institute of Technology, Philippines
14:40-14:55	K056-A	Land-Use Governance in Repeatedly Disaster-Exposed River Basins: A Japan-Taiwan Institutional Comparison and Dialogue ***Li-Tzu Chang,*** National Cheng Kung University, Taiwan
14:55-15:10	K088-A	Mapping International Best Practices in Climate–Mental Health Facilitation and Professional Certification: Preliminary findings ***Andrian Liem,*** Universitas Sebelas Maret, Indonesia
15:10-15:25	K115	Implementation of Biogas Technology for Waste Management: Methane Production and Mitigation, Pathogen Reduction, and Fertilizer Potential in Pacitan, Indonesia ***Ambar Pertiwiningrum,*** Universitas Gadjah Mada, Indonesia
15:25-15:40	K095	Multi-Actor Configurations and Community Resilience in Post-Disaster Recovery: A Cross-Impact Balance Analysis of West Sumatra, Indonesia ***Ria Oktorina,*** IPB University, Indonesia

ONSITE SESSION 5

Time	**16:00-18:25 | November 7, 2026 (Sat.)**
Venue	**3B**
Topic	**Coastal and Aquatic Ecosystems: Pollution Monitoring and Biodiversity Conservation**
Chair	**Asst. Prof. Ireneo G. Mateo, FEU Institute of Technology, Philippines**

Time	Paper ID	Paper Detail
16:00-16:25	**Invited Talk**	Coastal debris: A Recent Review on Types and Impacts ***Cherdvong Saengsupavanich,*** Kasetsart University, Thailand
16:25-16:40	K160	Assessment of Macroplastic Pollution and Stakeholder Knowledge, Attitudes, and Perceptions toward Waste Management in Pampam Falls, Iligan City, Philippines ***Sherley Ann T. Inocente,*** Mindanao State University at Naawan, Philippines
16:40-16:55	K118-A	Developing an Ecological Stress Index (ESI) for Assessing Lead (Pb) Pollution Through Chlorophyll Dynamics and Leaf Area Responses in Three Urban Forest Tree Species Across Campus Microenvironmental Gradients ***Fida Rachmadiarti,*** Unevesitas Negeri Surabaya, Indonesia
16:55-17:10	K201	Characterization and Risk Assessment of Microplastic in the Largest Shallow Lake in Southeast Asia: Tonle Sap Lake, Cambodia ***Sovannara Uk,*** American University of Phnom Penh, Cambodia
17:10-17:25	K156-A	Offsetting the Transition: Biodiversity Offsetting, Critical Mineral Mining, and the Governance-Development Nexus of No-Net-Loss in Southeast Asia ***Andrea K. Chareunsy,*** Macquarie University, Australia
17:25-17:40	K213-A	Species diversity of ponyfish (Leiognathidae) in seaweed farming area ***Musbir Musbir,*** Hasanuddin University, Indonesia
17:40-17:55	K106	Current Practices Regarding the Feeding of Seabirds on Sightseeing Boats and University Students' Attitudes ***Shunsuke Tsuruta,*** Graduate School of Horticulture, Chiba University, Japan
17:55-18:10	K167	Microplastic Contamination in Mangrove Sediments, Intertidal Canal Water, and Coastal Waters of a Tropical Mangrove Ecosystem in the Upper Gulf of Thailand ***Talisa Niemmanee,*** Suan Sunandha Rajabhat University, Thailand
18:10-18:25	K170	Developing a Low-Carbon Tourism Route in Ban Bo Sea Salt Community, Thailand ***Pantip Kayee,*** Suan Sunandha Rajabhat University, Thailand

ONSITE SESSION 6

Time	**16:00-18:25 | November 7, 2026 (Sat.)**
Venue	**3E**
Topic	**Carbon Accounting, Carbon Sinks, and Carbon Mitigation**
Chair	**Assoc. Prof. Chatchai Khiewngamdee, Chiang Mai University, Thailand**

Time	Paper ID	Paper Detail
16:00-16:25	**Invited Talk**	Can Remote Work Readiness Drive National Carbon Reduction? ***Chatchai Khiewngamdee,*** Chiang Mai University, Thailand
16:25-16:40	K096	Narrative and Visualization of Target-Realization of GHG Emission Reduction and the Role of Public Transportation in DKI Jakarta ***Septia Wahyu Elda,*** IPB University, Indonesia
16:40-16:55	K718	Valuing Urban Waterfront Greening under Divergent Carbon Prices: Ecosystem Services of the Liuchuan River Project in Taichung, Taiwan ***Jen Chih Chao,*** Chaoyang University of Technology, Taiwan
16:55-17:10	K008	Carbon Sequestration Assessment in Napier Grass Plantations Using Aerial Imagery: Integration with Blockchain Carbon Trading Platform ***Varot Soonthornnont,*** University of the Thai Chamber of Commerce, Thailand
17:10-17:25	K073-A	Analysis of Greenhouse Gas Emission Characteristics and Mitigation Benefits in Taiwan's Medical Centers and Regional Hospitals ***Ting Yu Liu,*** National Yang Ming Chiao Tung University, Taiwan
17:25-17:40	K082-A	Development of a Greenhouse Gas Emissions Calculation Tool for a Japanese University ***Naoto Daniel Hayashi and Minoru Kobayashi,*** Fukuoka Institute of Technology, Japan
17:40-17:55	K140-A	Floristic Diversity, Aboveground Carbon Stocks and Soil Organic Carbon of the Beach Forests in Kolambugan, Northern Mindanao, Philippines: Evidence to Support Conservation ***Wella T. Tatil,*** Mindanao State University- Iligan Institute of Technology, Philippines
17:55-18:10	K164	Leveraging Basic Spatial Units for Mangrove Carbon Accounting and Sustainable Ecosystem Management in the Andaman Coast: A Case Study of Phang Nga Bay, Thailand ***Walaiporn Phonphan,*** Suan Sunandha Rajabhat University, Thailand
18:10-18:25	K228	Modelling greenhouse gas emission of Fiji dairy farms under different production systems: From cradle to farmgate ***Atish Chand,*** Fiji National University, Fiji

ONSITE SESSION 7

Time	**16:00-18:30 | November 7, 2026 (Sat.)**
Venue	**3G**
Topic	**Urban Climate Resilience, Blue-Green Infrastructure, and Thermal Environment Assessment**
Chair	**Prof. Mikio Ishiwatari, Meiji University, Japan**

Time	Paper ID	Paper Detail
16:00-16:15	K020-A	Climate Resilience from Below: Nature-Based Solutions in Northern Ghana ***Yaw Agyeman Boafo and Emmanuel Kodwo Sackey,*** University of Ghana, Ghana
16:15-16:30	K028	Urban Blue-Green Infrastructure for Climate-Adaptive Outdoor Thermal Comfort: A Case Study of Taichung's Liuchuan Waterfront ***Kuo-Wei Hsu,*** Chaoyang University of Technology, Taiwan
16:30-16:45	K032	Remote Sensing Approaches in Blue Carbon Research for Environmental Sustainability: Scientific Knowledge, Global Trends, and Asian Contributions ***Chia-Hsiang Chen,*** Marine Fisheries Division, Fisheries Research Institute, Ministry of Agriculture, Taiwan
16:45-17:00	K053	GeoAI-Driven Urban Climate Resilience: A Layered Decision Intelligence Architecture for Compound Hazard Mitigation in Regenerating Urban Districts ***Neetu Arora,*** Sungkyunkwan University, South Korea
17:00-17:15	K061	Maladaptation Risks Across Adaptation Pathways: A Spatial Planning Perspective on Cross-Sectoral Governance in Tainan City ***Li-Tzu Chang,*** National Cheng Kung University, Taiwan
17:15-17:30	K163	A Study on Psychological Thermal Comfort and Thermal Adaptation Behaviors Under Heat Stress Among Summer Park Users ***Yi-Hsin Lai and Yu-Chen Chien,*** Chaoyang University of Technology, Taiwan
17:30-17:45	K199-A	Multi-Source Satelite Monitoring for Small-Scale Green Infrastructure: Selected Case Studies of Managed Turfgrass Sites ***Jaebeom Suh,*** Kansas State University, USA
17:45-18:00	K157	Integrated Assessment of Carbon Emissions, Health Impacts, and Economic Burden Using a DPSIR-Based System Dynamics Model: A Taiwan Case Study ***Berihun Mulu Yayeh,*** Ming Chi University of Technology, Taiwan; Woldia University, Taiwan
18:00-18:15	K123-A	Agricultural Policy Approaches and Legislative Frameworks in Central Europe in Response to Climate Change and Biodiversity Support ***Moric Jurecka,*** Faculty of Law, Masaryk University Brno, Czech Republic
18:15-18:30	K234	Corn Farmers' Adaptation Patterns to the Impact of Climate Change in Tadangpalie Village, Sabbangparu District, Wajo Regency ***Nurbaya Busthanul,*** Hasanuddin University, Indonesia

POSTER SESSION 1

Time	**16:00-18:00 | November 7, 2026 (Sat.)**
Venue	**3C**
Topic	**Environmental Pollution Control and Sustainable Governance**
Chair	**Prof. Keiji Ujikawa, Yokohama National University, Japan**

Poster No.	Paper ID	Paper Detail
1	K066-A	Iodine-Mediated Redox Cycling Enhances the Antimicrobial Efficacy and Storage Stability of Plasma-Activated Water for Sustainable Pathogen Control ***Jae-Wan Ryu,*** Seoul National University, Republic of Korea
2	K299-A	Tracking Fertilizer Nitrogen in Marginal-Land Soils: Toward Sustainable Nutrient Management ***Julia Lu,*** Toronto Metropolitan University, Canada
3	K071-A	Genomics-Driven Molecular Detection of Campylobacter jejuni and Campylobacter coli for Food-Chain Safety and Public Health ***So-Seum Yong,*** Seoul National University, Republic of Korea
4	K126-A	Stable Isotope and Microbial Approaches for Evaluating Hydrocarbon Degradation of Unresolved Complex Mixtures (UCMs) in Catastrophic Marine Oil Spill Ecosystems ***PIN-Yun LIN,*** National Chung Cheng University, Taiwan
5	K127-A	Application of Stable Isotope Fingerprinting to Evaluate Diesel Oil Removal Using Hydrophobic–Oleophilic Calcite Synthesized from Industrial $CaCO_3$ ***Chin-Wen Wang,*** National Chung Cheng University, Taiwan
6	K135-A	Biotransformation of 5-hydroxymethylfurfural into 5-hydroxymethyl-2-furan carboxylic acid by biofilm of strain Burkholderia sp. H-21 ***Chu-Fang Yang,*** National Yunlin University of Science and Technology (YunTech), Taiwan
7	K138-A	Comparative Evaluation of 222- and 275-nm UV for the Control of Escherichia coli and Staphylococcus aureus in Air and Water and Their Synergistic Effects with Electrolyzed Water ***Su-Yeon Kang,*** Seoul National University, Republic of Korea
8	K177-A	Non-cancerous Health Risk Assessment of Ambient PM2.5-bound Elements in Windsor, Canada during 2021−2023 ***Xiaohong Xu,*** University of Windsor, Canada
9	K182-A	Inner filter effect enabled dual-readout immunoassay for diisobutyl phthalate detection ***Lin Zhu,*** Chiang Mai University, Thailand
10	K247-A	Enhancement of Gas Holdup and Thermal Performance in a Baffled Liquid Tin Solar Receiver ***Sung Won Kim,*** Korea National University of Transportation, Republic of Korea
11	K078-A	Quinone-driven singlet oxygen generation underlies the bactericidal mechanism of plasma-activated tannic acid ***Sunna Jyung,*** Seoul National University, Republic of Korea

12	K125-A	Preliminary Application of Stable Isotope Fingerprinting for Source Identification of Marine Oil Pollution in Taiwan Coastal Waters ***Chien-Yen Chen,*** National Chung Cheng University, Taiwan

ONSITE SESSION 8

Time	**09:00-12:15 | November 8, 2026 (Sun.)**
Venue	**3B**
Topic	**Sustainability Governance and ESG Practices: Policy, Market, and Institutional Innovation**
Chair	**Prof. Akhmad Fauzi, IPB University, Indonesia**

Time	Paper ID	Paper Detail
09:00-09:15	K001	Sustainability Maturity Grids in Procurement: A Literature Review of Existing Frameworks ***Wanja Wellbrock,*** Faculty of Economics, Heilbronn University, Germany
09:15-09:30	K045-A	Translating Sustainability across Scales: Corporate Brokerage between Global ESG Agendas and Local Realities in Indonesia ***Alessandro Gullo,*** Bonn University, Germany
09:30-09:45	K706-A	Spatial Heterogeneity in Environmental Policy Implementation and Firm-Level Energy Efficiency: Evidence from China's Air Pollution Prevention and Control Action Plan ***Zongyu Li,*** University of Tokyo, Japan
09:45-10:00	K720-A	Assessing the Effectiveness of Electricity Market Reforms in APEC: Evidence from Australia, Japan, and Singapore ***HONGYAN LI,*** National University of Singapore, Singapore
10:00-10:15	K254	Environmental Hotspots in Tuna-Based Pouched Wet Pet Food: a case study in Thailand ***Phonsinee Loetcharoenwong,*** Chulalongkorn University, Thailand
10:15-10:30	K701	The Institutional Nexus of Non-Revenue Water: Decoupling Human Capital Constraints and Tariff Structures in Developing Urban Utilities ***Ireneo Garcia Mateo,*** FEU Institute of Technology, Philippines
10:30-10:45	K240-A	Digital Governance Strategies for Sustainable MICE in Pontianak City ***Dio Bimo Saputro,*** Universitas Terbuka, Indonesia
10:45-11:00	K250	Carbon Footprint for Organization of the manufacturing of canned tuna: A case study in Thailand ***Natnalin Somsuk,*** Chulalongkorn University, Thailand
11:00-11:15	K093-A	Evaluating Feedstock Pathways for Sustainable Aviation Fuel Production in the Philippines: A Comparative Analysis of the Catalytic Hydrotreatment of Coconut Oil and Used Cooking Oil ***Rona Joyce Landoy,*** University of the Philippines Los Baños, Philippines
11:15-11:30	K255-A	Environmentally Persistent Free Radicals on Micro and Nano-Plastics: A Double-Edged Sword to Environmental and Biological Safety ***Fangyu Hu,*** Beijing Institute of Petrochemical Technology, China
11:30-11:45	K739	How Does the Structure of Global Trade Affect Environmental Development? ***Shirley J. Ho,*** National Chengchi University, Taiwan

11:45-12:00	K725	INDONESIA'S ENERGY TRANSITION PATHWAYS UNDER THE ELIMINATION OF THE COAL DMO POLICY: A LCOE-BASED ASSESSMENT ***Mirah Midadan Fahmid,*** Faculty of Engineering, University of Indonesia, Indonesia
12:00-12:15	K731	Financing the Green Transition of SMEs: Drivers, Barriers and Green Finance Mechanisms ***Hajer Zarrouk,*** Higher College of Technology, United Arab Emirates

ONSITE SESSION 9

Time	**09:00-11:30 | November 8, 2026 (Sun.)**
Venue	**3C**
Topic	**Sustainable Materials and Building Energy Efficiency**
Chair	**Prof. James R. Doyle, Macalester College, USA**

Time	Paper ID	Paper Detail
09:00-09:15	K062-A	Magnetic membranes as innovative materials for bioethanol dehydration ***Łukasz Jakubski,*** Silesian University of Technology, Poland
09:15-09:30	K158	Reactive Maturation of Sugarcane Bagasse Oil in Asphalt Binder During Construction-Phase Thermal Aging ***Preeda Chaturabong and Multazam Hutabarat,*** King Mongkut's Institute of Technology Ladkrabang, Thailand
09:30-09:45	K124	Earth-Air Heat Exchangers for Passive Cooling ***James R. Doyle,*** Macalester College, USA
09:45-10:00	K231-A	Ecological optimization of thermal insulation investments in buildings ***Robert Dylewski,*** University of Zielona Góra, Poland
10:00-10:15	K171-A	Adsorption-Based Remediation of Microplastics from Water Resources Using Zeolite Y and Modified Composites Prepared from Aluminosilicate Industrial Wastes ***Sreeshma Gopal,*** National Institute of Technology, India
10:15-10:30	K192-A	A Hybrid Archetype Framework for City-Scale Building Thermal Assessment ***Sepideh Motamedpooya,*** Griffith University, Australia
10:30-10:45	K063-A	Eco-friendly materials for food packaging applications ***Justyna Jakubska,*** Silesian University of Technology, Poland
10:45-11:00	K159-A	Heterogeneous catalyst derived from a waste floral source (Tagetes erecta) for biodiesel synthesis from Waste Cooking oil ***Surya Pattnaik,*** National Institute of Technology Rourkela, India
11:00-11:15	K162	Optimizing Municipal Solid Waste Collection Routing Using Sweep Sectorization and Simulated Annealing: A GIS-Based Approach for Iligan City, Philippines ***Rovick Pelos Tarife,*** MSU-Iligan Institute of Technology, Philippines
11:15-11:30	K089	Pelletization and Pyrolysis of Banana Pseudostem Hydrochar Infused with Low-Density Polyethylene (LDPE) ***Mariane Fe A. Abesamis,*** MSU-Iligan Institute of Technology, Philippines

ONSITE SESSION 10

Time	**09:00-11:45 | November 8, 2026 (Sun.)**
Venue	**3E**
Topic	**Ecotourism and Rural Sustainable Development: Resource Management and Policy Implications**
Chair	**Dr. Yasuhiko Hotta, Programme Director, Sustainable Consumption and Production, Institute for Global Environmental Strategies (IGES)**

Time	Paper ID	Paper Detail
09:00-09:15	K139-A	Projecting Rice Self-Sufficiency in the Philippines Through 2050: A Scenario Based Analysis of Production, Land Use, and Regional Supply ***Meribeth A. Ministerio,*** MSU-IIT, Philippines
09:15-09:30	K107-A	Assessing the Impact of Regional Development on Environmental Sustainability: A Subdistrict-Level Analysis in Depok and Bogor, Indonesia ***Halimah Siti Alia,*** IPB University, Indonesia
09:30-09:45	K116-A	Recreational Value and Policy Implications of Tinago Falls, Philippines: An Application of the Individual Travel Cost Method ***JONIFFER G. TOMPONG,*** Mindanao State University - Iligan Institute of Technology, Philippines
09:45-10:00	K233-A	Clarifying Priorities of Communities Adjacent to Bako National Park: A Best-Worst Scaling Approach ***Kriskkumar Karunanithi,*** Keio University, Japan
10:00-10:15	K242-A	Rural Depopulation and Farmland Abandonment: Changing Mountain Social-ecological Systems in Ladakh, India ***Tusharkanti Kumar,*** Kyoto University, Japan
10:15-10:30	K100	The Resilience Scenarios for Sustainable Tourism Villages in The Mountain Merapi Tourism Area, Indonesia ***Aulia Hapsari Juwita,*** IPB University, Indonesia
10:30-10:45	K111-A	Assessment of Invasive Alien Plants in the Ecotourism Site of Mount Timolan Protected Landscape, Zamboanga del Sur, Philippines ***Jennifer Theresse Paradero,*** Mindanao State University - Iligan Institute of Technology, Philippines
10:45-11:00	K086-A	Natural Resource Management for Environmental Sustainability and Sustainable Regional Development in the Alahan Panjang Ecotourism Area, West Sumatra ***Septia Wahyu Elda,*** IPB University, Indonesia
11:00-11:15	K245-A	A Temporally Robust Multi-Objective Framework for Flood Hotspot Prioritization Based on Extreme Rainfall in Indonesian River Basins ***Rosa Andriani,*** Universitas Terbuka, Indonesia
11:15-11:30	K104-A	Production-to-Field Life Cycle Assessment of Commercial-Scale FertiGroe® N, P, and K Nanofertilizers ***Clint Charles Perez Brutas,*** University of the Philippines Los Baños, Philippines

11:30-11:45	K094-A	The Kerapatan Adat Nagari as a Socio-Ecological Anchor Institution: Linking Disaster Resilience and Environmental Sustainability through Customary Commons Governance in West Sumatra, Indonesia ***Ria Oktorina,*** IPB University, Indonesia

ONSITE SESSION 11

Time	**09:00-11:30 | November 8, 2026 (Sun.)**
Venue	**3G**
Topic	**Advanced Catalytic and Biological Treatment Technologies for Water Pollution Control**
Chair	**Asst. Prof. Aileen Austria Castaneda, FEU Institute of Technology, Philippines**

Time	Paper ID	Paper Detail
09:00-09:15	K018-A	Immobilized Azoreductase-producing Brevundimonas naejangsanensis AJZ05 in a Packed-Bed Bioreactor for Biodegradation of Recalcitrant Azo-dyes: Process Optimization and Biokinetic Evaluation ***Ajithkumar Veluchamy,*** Indian Institute of Technology Guwahati, India
09:15-09:30	K040	Performance evaluation and Methane recovery of a two-stage upflow anaerobic sludge blanket reactor for peanut processing wastewater treatment ***Aileen Castañeda,*** FEU Institute of Technology, Philippines
09:30-09:45	K148-A	Efficient removal of doxycycline and arsenic with Schwertmannite as a heterogeneous Fenton-like catalyst over a wide pH range ***Yu Tian,*** Shanxi Agricultural University, China
09:45-10:00	K273-A	Sulfamethoxazole Degradation in a Tri-Electrode Microbial Electrochemical System Operating in Organically Polluted Waters: Metabolomic and Metagenomic Approaches ***Xiangfeng Xie,*** Southeast University, China
10:00-10:15	K169-A	DES-Mediated Synthesis of a Highly Crystalline COF for the Visible-Light-Driven Elimination of Sulfamethazine ***Rupak Kumar Patnaik,*** National Institute of Technology, Rourkela, India
10:15-10:30	K022-A	Development of Cost-effective Recombinant Laccase Production Strategy for the Sustainable Biocatalysis of Synthetic Dyes: Techno Economical Analysis and Process modeling ***Jothika Jeyabalan,*** Indian Institute of Technology Guwahati, India
10:30-10:45	K147-A	Enhanced oxytetracycline degradation and arsenic removal via Schwertmannite-catalyzed persulfate oxidation ***Yanyan Wang,*** Shanxi Agricultural University, China
10:45-11:00	K166-A	Hydrothermally Synthesized CeFeO3 Perovskite based Hydrogel as an Efficient Visible-Light Photocatalyst for Sulfamethoxazole Degradation in Wastewater ***Durgaprasad Tripathy,*** National Institute of Technology Rourkela, India
11:00-11:15	K195	Applying Machine Learning for Spatiotemporal Mapping of Rainwater pH: A Case Study in Cebu Province, Philippines ***Jhon Carlo Candilada Aporbo,*** Mindanao State University at Naawan, Philippines
11:15-11:30	K206	Health Risk Assessment of Heavy Metal Concentrations in Fish Species from Mining-Impacted Rivers in Davao Oriental ***Melanie Martos Garcia,*** Mapúa Malayan Colleges Mindanao, Philippines

ONLINE SESSION 1

Time	**09:00-10:00 | November 8, 2026 (Sun.)**
Venue	**Zoom: 858 0529 5587**
Topic	**Resource Management, Circular Economy, and Environmental Monitoring**

Time	Paper ID	Paper Detail
09:00-09:15	K021	Designing Sustainable Water Conservation Systems: A Comparative Study of Consumer Attitudes in Japan and China ***Edilson Shindi Ueda,*** Chiba University, Japan
09:15-09:30	K217	Linking circularity, industrial symbiosis and sustainability in the steel industry – a bibliometric network approach ***Erland Nylund,*** Swerim AB, Sweden
09:30-09:45	K251	Temporal Dynamics of Radon in Almaty: Autocorrelation Analysis of 2.5 Years of Continuous Monitoring ***Yuliya Zaripova,*** Farabi University, Kazakhstan
09:45-10:00	K734	Activating Academic Staff Green Behavior: How Environmental Policy Conditions the GHRM to Environmental Performance Pathway in Private Higher Education ***Xuemin MOU,*** Sichuan Geely University of China, China

DELEGATES LIST

Name	Affiliation
Dong-Hyun Kang	Seoul National University, Republic of Korea
Ngan Thao Do	FPT Polytechnic, Vietnam
Chiyu Tien	TSMC Arizona Corporation, Taiwan
Yuan-Tao Chang	Climate Change Administration, Ministry of Environment, Taiwan
Kevin Fong-Rey Liu	Ming Chi University of Technology, Taiwan
Alexander Obrero Mosqueda	MSU-Iligan Institute of Technology, Philippines
Ivan Angga Maulana	PT Dahana (Persero), Indonesia
TIEN-TZE YEH	Tamkang University, Taiwan
BAEK HEAJIN	The National Economic Advisory Council, Republic of Korea
HAN SEONHUI	The National Economic Advisory Council, Republic of Korea
LAI YING HUNG	Personal, Taiwan

ONE-DAY TOUR

(November 9, 2026, UTC+9)

Item	Details
Departure	Ichigaya JR Station
Meeting Point	**07:30** Ichigaya JR Station
Departure Time	**08:00**
Return Time	Approx. 17:30 back to Ichigaya Station
Included Service	Professional English-speaking tour guide, round-trip air-conditioned coach bus, entrance to all scenic areas, Hakone Pirate Ship cruise, Hakone Ropeway ticket, mineral Bottle Water
Self-Paid Expenses (Not Included)	lunch, snacks, personal shopping
Reminder	Some scenic spots may be skipped temporarily due to bad weather, volcanic gas alerts or site capacity limits. Volcanic Weather: Owakudani may close temporarily due to high sulfur gas concentration; guide will adjust the itinerary accordingly. **Please arrive at the meeting point at least 10 mins before the departure time.** Latecomers or no-shows can't be refunded.











ITINERARY

From 08:00 Departure

10:30 Hakone Shrine & Heiwa no Torii (Floating Torii Gate) ⛩️ ⛩️

Highlights: Historic Shinto shrine founded in 757, lined with 800-year-old cedar trees; worshipped for traffic safety and good fortune. Iconic vermilion floating torii gate half-submerged in Lake Ashi – top photography spot with Mount Fuji backdrop on clear days.

12:10 Optional Hakone Pirate Ship Cruise 🚢

Highlights: Moto-Hakone Port → Togendai Port, 30-minute one-way cruise. Features: Pirate-themed retro vessels with open decks; panoramic views of floating torii, Lake Ashi and Mount Fuji.

12:40 Hakone Ropeway 🚡

Highlights: Ride the aerial cable car across volcanic ridges. Panoramic overlook of Lake Ashi, Mount Fuji and the Hakone volcanic crater landscape.

13:10 Owakudani Volcanic Valley 🌋

Famous local specialty: black eggs boiled in volcanic hot spring water; local legend says eating one black egg adds 7 years to your lifespan.

14:00 Lunch Break (Self-Arranged)

As there are many guests who require lunch, the tour guide will recommend restaurants; you can make your own choice. Dining times may vary and are subject to actual arrangements.The above are recommended items, absolutely not mandatory. If you do not go to a restaurant for a meal, you can bring your own lunch.

15:00 Lake Yamanakako Swan Beach 🦢

Highlights: Peaceful lakeside shore with wild swans, unobstructed Mount Fuji views, quiet natural scenery away from crowds.

15:40 Oshino Hakkai 🌊

Oshino Hakkai is famous for its beautiful natural environment and is a nationally designated natural monument. The pond water sparkles, blending with the beautiful Mount Fuji, creating a breathtaking scene that attracts countless photographers from far and wide.

16:30 Back to Ichigaya Station

** The schedule might change depending on traffic and weather conditions*

Registration deadline: October 25, 2026, 5:00 PM UTC+9 (JST)

Please send the filled registration form to your conference secretary.

Tour Registration

One day Tour **150 USD / Person** Online Payment Link: https://confsys.iconf.org/awxpay	
E-mail:	Order ID:
Name:	Tel. or WhatsApp:

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