

AIC 2026

The 18th Asia Impact Assessment Conference

PROGRAM BOOK



24–26 October 2026



Matsue City, Shimane Pref., Japan



IAIA
JAPAN BRANCH



IGES
Institute for Global
Environmental Strategies



The Hong Kong Institute of
Environmental Impact Assessment
香港環境影響評估學會

Welcome to AIC 2026

The Asia Impact Assessment Conference (AIC) is held under the auspices of academic societies in Japan, South Korea, and China, and it provides a forum for international information exchange on environmental assessment and conservation technologies and policies among Asian countries.

The **18th AIC** takes place in **Matsue City, Shimane Prefecture**. It is organized by the Japan Society for Impact Assessment (JSIA) and co-organized by the IAIA Japan Branch, with the support of the Ministry of the Environment, Japan, the Korean Society of Environmental Impact Assessment (KSEIA), the Hong Kong Institute of Environmental Impact Assessment (HKIEIA), and the Institute for Global Environmental Strategies (IGES).

On behalf of the organizing committee, I warmly welcome you to Matsue. I hope these three days bring you lively discussions, new friendships and fresh ideas to take back to your own work. Please also take a little time to enjoy this beautiful city by the water and the autumn scenery of Shimane. Thank you for joining us, and please enjoy AIC 2026.

Kiichiro Hayashi

Chair, AIC 2026

ORGANIZING & SUPPORTING ORGANIZATIONS



3

DAYS

57

ORAL
PRESENTATIONS

25

POSTERS

2

PLENARY SESSIONS

Dates	24–26 October 2026 (Sat–Mon)
Location	Matsue City, Shimane Prefecture, Japan
Venue	Kunibiki Messe (Shimane Prefectural Convention Center), Matsue — Multipurpose Hall, Room 401, Room 601
Language	English (the side event on 26 October is held in Japanese)
Day 1 – Sat 24	Opening ceremony & plenary session 1, oral Slots 1–3, poster session
Day 2 – Sun 25	Plenary session 2, oral Slots 4–5, closing plenary, banquet at Yuushien
Day 3 – Mon 26	Technical visit (Shinji Lake & Okuizumo) and side event seminar

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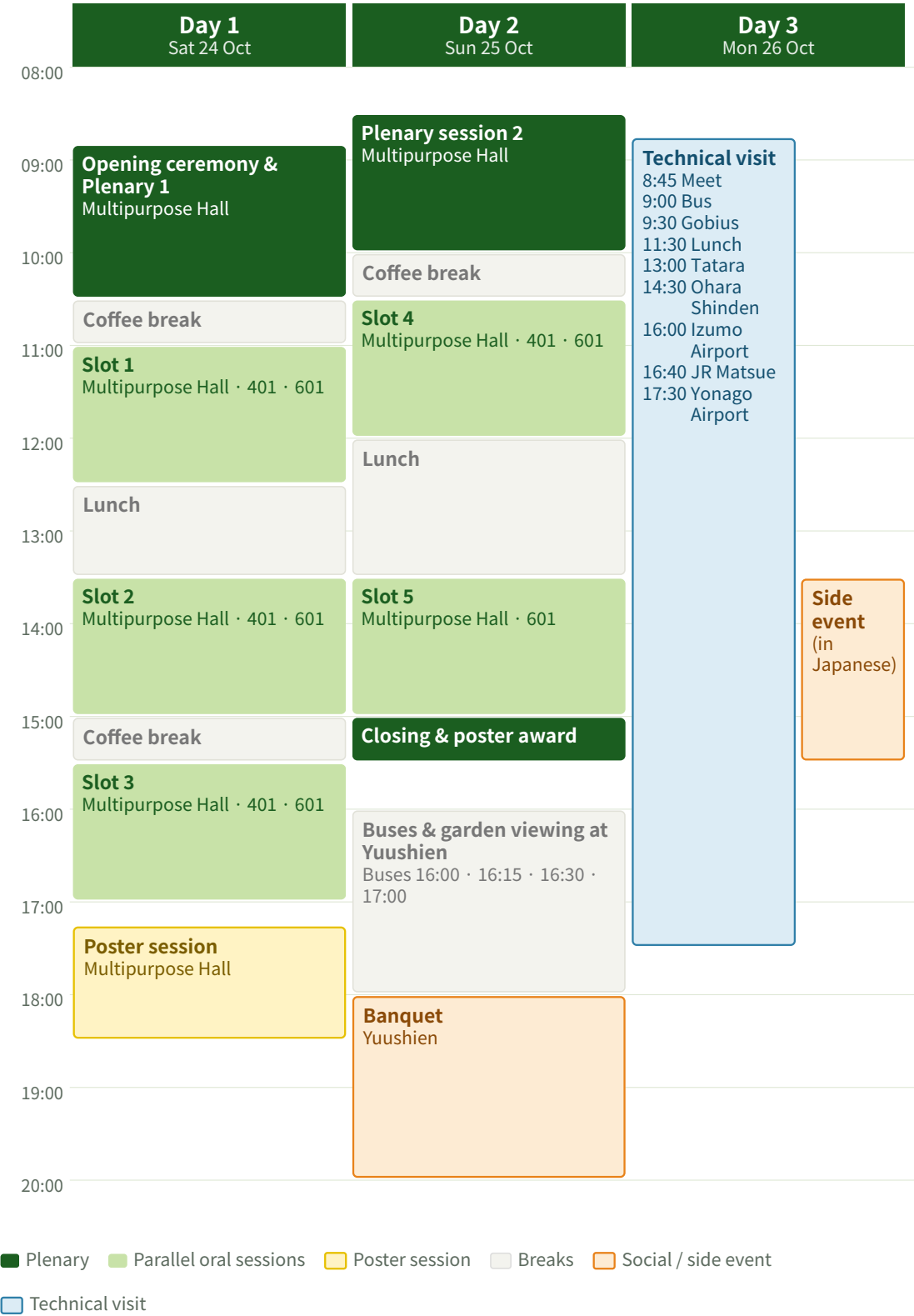
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Reading this book. Times are local (JST). The overview grid on page 5 shows the whole conference on one page; the technical program overview on page 15 maps every oral session to its room. The index of authors at the end lists every author, chair and plenary speaker with page numbers.

Color guide

- Plenary
- Conference sessions
- Social & side events
- Technical visit
- Poster session

Conference Overview



Daily Schedule

SATURDAY 24 OCTOBER			
08:50–10:30	Opening ceremony & Plenary session 1 Multipurpose Hall		
10:30–11:00	Coffee break · Poster set-up Multipurpose Hall		
11:00–12:30	Oral Slot 1		
	MULTIPURPOSE HALL S10 · 5 talks	ROOM 401 S4 (A) · 4 talks	ROOM 601 S3 · 4 talks
12:30–13:30	Lunch Multipurpose Hall		
13:30–15:00	Oral Slot 2		
	MULTIPURPOSE HALL S5 · 5 talks	ROOM 401 S4 (B) · 3 talks	ROOM 601 S11 (A) · 4 talks
15:00–15:30	Coffee break Multipurpose Hall		
15:30–17:00	Oral Slot 3		
	MULTIPURPOSE HALL S6 & S7 (A) · 4 talks	ROOM 401 S9 & S13 (A) · 6 talks	ROOM 601 S11 (B) · 4 talks
17:15–18:30	Poster session Multipurpose Hall · 25 posters		

SUNDAY 25 OCTOBER

08:30–10:00
Plenary session 2

Multipurpose Hall

10:00–10:30

Coffee break

Multipurpose Hall

10:30–12:00
Oral Slot 4
MULTIPURPOSE HALL

S6 & S7 (B) · 3 talks

ROOM 401

S9 & S13 (B) · 5 talks

ROOM 601

M8 & M9 · 3 talks

12:00–13:30

Lunch

Multipurpose Hall

13:30–15:00
Oral Slot 5
MULTIPURPOSE HALL

S6 & S7 (C) · 3 talks

ROOM 601

M6 & M11 · 4 talks

15:00–15:30
Closing plenary & poster award

Multipurpose Hall

16:00–18:00

Buses depart for the banquet venue (16:00, 16:15, 16:30, 17:00)

· garden viewing at Yuushien

Arrival at Yuushien: 16:30, 16:45, 17:00, 17:30

18:00–20:00
Banquet

Yuushien

MONDAY 26 OCTOBER

08:45–17:30
Technical visit

 Assemble 08:45 at Matsue Excel Hotel Tokyu (bus departs 09:00) · Gobius
 · lunch · Nittoho Tatara · Ohara Shinden · airport / station drop-off until
 17:30 | see page 28

13:30–15:30
Side event seminar (in Japanese)

Kunibiki Messe, Room 601, with online participation | see page 28

Plenary & Social Programs

Opening Ceremony & Plenary Session 1

Saturday 24 October · Multipurpose Hall

MC: **Naoko Genjida** (Institute for Global Environmental Strategies)

Welcome: **Prof. Kiichiro Hayashi** (Conference chair; Vice President, JSIA)

Address: **Dr. Minako Kawai** (Ministry of the Environment, Japan)

Address: **Akihito Uesada** (Mayor of Matsue City)

Address: **Celesa Horvath** (IAIA President-elect)

Plenary Session

Saturday 24 October · Multipurpose Hall

09:15–09:30 **Plenary talk 1 — Prof. Takehiko Murayama** (President, JSIA)

09:30–10:30 **Plenary panel discussion**
Moderator: **Prof. Takehiko Murayama**

Dr. Minako Kawai (Ministry of the Environment, Japan)

Dr. Sangbum Lee (Korea Environment Institute)

Clara U (Environmental Protection Department, Hong Kong SAR)

Joana Pedro (UNEP FI; IAIA board member)

Discussion

Plenary Session 2

Sunday 25 October · 08:30–10:00 · Multipurpose Hall

MC: **Ayano Takeuchi** (Toho University)

08:35–09:00
Plenary talk 2 **Dr. Myungjin Kim** (Past Director, IAIA Board; Past President, Korean Society of EIA)

09:00–10:00
Panel discussion Moderator: **Prof. Hideharu Morishita** (Aichi Gakuin University)

Panelist: **Shota Ohtani** (Japan Association of Environmental Assessment (JEAS))

Panelist: **Prof. JuChul Jung** (Vice President, Korean Society of Environmental Impact Assessment (KSEIA))

Panelist: **Freeman Cheung** (AECOM, Hong Kong)

Panelist: **Andrés Amaya** (IAIA board member)

Closing Plenary

Sunday 25 October · 15:00–15:30 · Multipurpose Hall

MC **Dr. Yuri Yamazaki**

Poster award Announcement by **Dr. Ayano Takeuchi**

Closing **Prof. Kiichiro Hayashi** (Chair of AIC 2026)

Opening Ceremony — Speaker Biographies

Saturday 24 October

Prof. Kiichiro Hayashi — Chair, AIC 2026 · Nagoya University · Japan

Kiichiro Hayashi is the Chair of AIC 2026. He works at Nagoya University, Japan, and his research focuses on environmental impact assessment, ecosystem service evaluation and environmental policy. He is currently Vice President of the Japan Society for Impact Assessment (JSIA) and serves as Chair of the Advisory Committee for Environmental and Social Considerations of JICA.

Dr. Minako Kawai — Ministry of the Environment, Japan

Dr. Minako Kawai joined the Ministry of the Environment in 2017, where she engaged in international wastewater treatment projects in the Water and Atmospheric Environment Bureau. In 2020 she worked on transboundary air pollution issues in the same bureau. Since 2024 she has worked in the Environmental Impact Assessment Division, Environmental Policy Bureau, conducting reviews of environmental impact assessments.

Akihito Uesada — Mayor of Matsue City

Akihito Uesada graduated from the Faculty of Law of Kyushu University in March 1995 and began working for the Development Bank of Japan Inc. (DBJ) the following month. From 1999 he served as Chief of the Policy Division of the Secretariat of the Ministry of Land, Infrastructure, Transport and Tourism (formerly the Ministry of Construction), and from 2001 as Chief of the Policy Division of its General Policy Bureau. Returning to DBJ, he was Deputy Representative of the Singapore Branch (2005), Chief of the Corporate Investment Group (2012), Director of the Matsue Regional Office (2017), and CEO of DBJ Americas Inc. (2019). After retiring from DBJ in December 2020, he was appointed Mayor of Matsue City in April 2021 and reappointed for a second term in April 2025.

Celesa Horvath — IAIA President-elect · Canada

Celesa Horvath is an independent consulting practitioner with over 35 years' direct experience in impact assessment (IA) and regulatory processes across Canada and internationally. She has worked with both public and private sector clients on a wide range of utility and transportation infrastructure, mining, energy, manufacturing, and urban development projects. She has also provided IA training and capacity building and was a contributor to IAIA's Foundations of Impact Assessment training course. Celesa is the President-Elect of IAIA and previously chaired the Technical Program Committee for the annual conference IAIA22 in Vancouver, and served on the Committees for IAIA24 Dublin and IAIA25 Bologna. She also founded the IAIA affiliate in Atlantic Canada and the Canadian IA Practitioners Network.

Plenary Session 1 — Speaker & Panel Biographies

Plenary talk and panel discussion, Saturday 24 October. The biography of Dr. Minako Kawai appears under the Opening Ceremony speakers.

Prof. Takehiko Murayama — Plenary talk 1 · Moderator · President, JSIA

Takehiko Murayama is Visiting Professor at Saitama University and Professor Emeritus of the Institute of Science Tokyo. He received his PhD (Social Engineering) in 1989, and was Associate Professor at Fukushima University (1994–2000), Professor at Waseda University (2000–2012) and Professor at Tokyo Institute of Technology, now the Institute of Science Tokyo (2012–2026). He was a visiting professor at the University of British Columbia and a visiting scholar at Rutgers University in 2005–2006 with a Fulbright fellowship. His research fields include environmental policy and planning, risk management, and environmental impact assessment. He served as Director (Treasurer) of IAIA (2019–2021), and has been a member of the EIA sub-committee of the Japan Central Environment Council (2015–). He was President of the Society for Risk Analysis, Japan (2020–2022) and of the Japan Association for Planning and Public Management (2024–2026), and has been President of the Japan Society for Impact Assessment since 2024. He has also served as Chair of the Advisory Committee (2004–2018) and Examiner of Objection Procedures (2021–) for Environmental and Social Considerations at JICA.

Dr. Sangbum Lee — Korea Environment Institute · Republic of Korea

Dr. Sangbum Lee has served as a Chief Research Fellow at the Korea Environment Institute (KEI) for over 20 years and is a former Vice President of the Korean Society of Environmental Impact Assessment (KSEIA). KEI is the statutory Environmental Impact Assessment (EIA) review agency for the Korean government, tasked with providing expert review opinions on Strategic Environmental Assessment (SEA) and EIA reports. His role involves providing review opinions on the ecosystem (flora and fauna) sections of these SEA/EIA reports and conducting related research. His primary research areas encompass the EIA system, landscape ecology, and light pollution: he studies the ecological impacts of development projects from the perspectives of landscape ecology and light pollution, and has researched EIA guidelines and institutional improvements for renewable energy development projects. Through these studies he has contributed to improving the Korean government's EIA policies and systems, as well as to establishing a comprehensive national plan for light pollution management.

Clara U — Environmental Protection Department, Hong Kong SAR · China

Clara U is a Principal Environmental Protection Officer at Hong Kong's Environmental Protection Department, overseeing Environmental Impact Assessment (EIA) studies and strategic planning for Territory North areas in Hong Kong. She is currently the Chairperson of the Hong Kong Institute of Environmental Impact Assessment (HKIEIA) and is a Fellow Member and recognized EIA Expert with the Hong Kong Institute of Qualified Environmental Professionals (HKIQEP). With over 30 years of experience in environmental planning, impact assessment, monitoring, enforcement, and education, she has managed more than 100 EIA reports for landmark projects including the Hong Kong–Zhuhai–Macao Bridge, the Airport Three-Runway System, and the Northern Metropolis Development Areas. A pioneer in digital transformation, Clara leads the integration of AI and IoT technologies for automated ecological monitoring and intelligent tree counting systems. She has been instrumental in reviewing the EIA Ordinance and developing Hong Kong's centralized Environmental Database to modernize EIA practices. Committed to capacity building, she regularly trains government engineers and industry professionals on EIA processes, developing specialized manuals and an innovative e-learning platform for the sector.

Joana Pedro — UNEP Finance Initiative · IAIA board member · Portugal

Joana Pedro leads the social and human rights team at the United Nations Environment Programme Finance Initiative (UNEP FI). She mainly works on the interlinkages between human rights, social issues, the environment, and finance, with a focus on financing a Just Transition. With 20 years of experience, Joana started her career in Southern Africa, where for almost a decade she conducted Environmental and Social Impact Assessments. Prior to UNEP FI, she worked at the European Investment Bank (EIB), conducting social due diligence on infrastructure projects

worldwide and developing policy work, including EIB's Environmental and Social safeguards and internal E&S procedures.

Plenary Session 2 — Panel Biographies

Sunday 25 October

Dr. Myungjin Kim — Plenary talk 2 · Past Director, IAIA Board; Past President, KSEIA · Korea

Myungjin Kim received his BS, MCP and PhD from Seoul National University, specializing in environmental impact assessment. He worked at NIER (National Institute of Environmental Research) on EIA and ecosystems for over 30 years. He has served as President of the Korean Society of Environmental Impact Assessment (KSEIA), as a director of IAIA, and as a member of the editorial board of the journal Impact Assessment and Project Appraisal.

Prof. Hideharu Morishita — Moderator · Aichi Gakuin University

Hideharu Morishita is currently working for Aichi Gakuin University as a professor, having served there since 2000. His background includes working for the Survey Department of Sri Lanka as a Japan Overseas Cooperation Volunteer (1985–1987), research associate at Tokyo Institute of Technology (1994), national expert of UNCRD (1994–1996) and JICA expert at the Asian Institute of Technology, Thailand (1996–1999). Although he majored in Information Engineering as an undergraduate, he obtained his graduate degree with a focus on environmental issues. He currently teaches environmental courses at Aichi Gakuin University, and is particularly interested in regional development in mountainous rural environments.

Shota Ohtani — Japan Association of Environmental Assessment (JEAS) · Japan

Shota Ohtani, P.E.Jp, is the Head of the Environmental and Biodiversity Field in the Environment and Energy Division at Eight-Japan Engineering Consultants Inc. (EJEC). He also serves as a member of the International Exchange Group at the Japan Association of Environmental Assessment (JEAS), representing the association in this panel discussion. He is certified as a Professional Engineer, Japan (P.E.Jp) in Civil Engineering, Environmental Engineering, and Engineering Management. With extensive expertise in environmental impact assessment (EIA) and environmental and social considerations, Ohtani has led numerous domestic and international infrastructure projects. In Japan, his key contributions include the EIA for the Yakushima Airport Runway Extension Project and municipal waste incineration facility developments. Internationally, he has managed environmental and social considerations for major infrastructure developments, including the Kathmandu Urban Transport Master Plan, Nepal's first mountainous tunnel construction (Nagdhunga Tunnel Project), and the Dar es Salaam Intersection Improvement Project in Tanzania. Currently, his primary focus is on the quantitative assessment of biodiversity and business development aligned with the Taskforce on Nature-related Financial Disclosures (TNFD) framework.

Prof. JuChul Jung — Pusan National University · Korea

Professor JuChul Jung is a full professor in the Department of Urban Engineering at Pusan National University (PNU). He earned his B.S. and M.S. in Urban Engineering from PNU, followed by an M.S. in Urban Planning at Texas A&M University and a Ph.D. in Urban and Regional Planning at the University of Texas at Austin. Appointed as an assistant professor at PNU in 2010, he was promoted to associate professor in 2014 and full professor in 2019, and inaugurated as Dean of the College of Engineering in 2024. His research spans land use planning, growth management, smart growth theory, environmental planning and policy, sustainable development, environmental impact assessment, urban politics, environmental conflict management, carbon-neutral city planning, and smart cities. For six years, he authored the "About City" column in the Busan Ilbo newspaper, diagnosing urban challenges and proposing solutions. He has served on advisory committees for the Presidential Committee on Balanced National Development and currently serves as a regional member of the Presidential Committee on Carbon Neutrality, actively advancing community-led carbon neutrality initiatives.

Freeman Cheung — AECOM · Hong Kong

Freeman Cheung is the regional executive responsible for AECOM's environmental management practice in Hong Kong and Japan, serving both public and private sector clients for more than 35 years. Freeman co-founded the Hong Kong Institute of Qualified Environmental Professionals in 2015 and was elected President in 2022. Freeman specializes in Environmental Impact Assessment (EIA) for large-scale infrastructure projects, enhancing environmental performance and implementing innovative climate resilience and nature-positive solutions to combat climate change. He has led many environmental management programmes for the Environmental Protection Department, including the first Greenhouse Gas Emission Control Study and regional air quality improvement studies. Currently, he is leading several development projects in the Northern Metropolis, including the San Tin Technopole, the Sam Po Shue Wetland Conservation Park and the Northern Metropolis Highways. Freeman also lectures on environmental science and impact assessment at leading local universities and serves on the Advisory Committee on Environmental Science for the Chinese University of Hong Kong and the School of Energy and Environment Advisory Committee of City University of Hong Kong. He has also been a member of the Environmental Impact Assessment Appeal Board Panel since April 2022.

Andrés Amaya — IAIA Board of Directors · Colombia

Andrés Amaya has over 30 years of global infrastructure consultancy experience spanning the public and private sectors, and serves on the IAIA Board of Directors (2025–2028). After earning a Civil Engineering degree in Colombia with a specialization in sanitary and environmental engineering, he completed advanced graduate studies in Water and Wastewater Treatment as well as Project and Construction Management in the United States. His international career encompasses engineering design, construction management, and strategic advisory leadership across the Americas, Asia, and Europe. Within a major global consultancy, he directs Impact Assessment efforts and leads a dedicated team of nearly 200 environmental and social specialists. As project and contract manager for complex, multidisciplinary initiatives, he is responsible for driving interaction, integration, and collaboration among social, environmental, and engineering specialists, as well as managing cross-functional interfaces with legal counsel, communications teams, regulatory authorities, and local communities. By harmonizing these technical, legal, and community perspectives, he ensures comprehensive impact assessments and fosters sustainable, consensus-driven solutions for major infrastructure developments worldwide.

Banquet at Yuushien

Banquet

Sunday 25 October · 18:00–20:00 · Yuushien, Daikonshima, Matsue · yuushien.com

16:00–17:00 Buses depart from the conference venue: **16:00, 16:15, 16:30, 17:00**
Arrival at Yuushien: **16:30, 16:45, 17:00, 17:30**

16:30–18:00 Viewing of the Yuushien gardens

18:00–20:00 **Banquet**

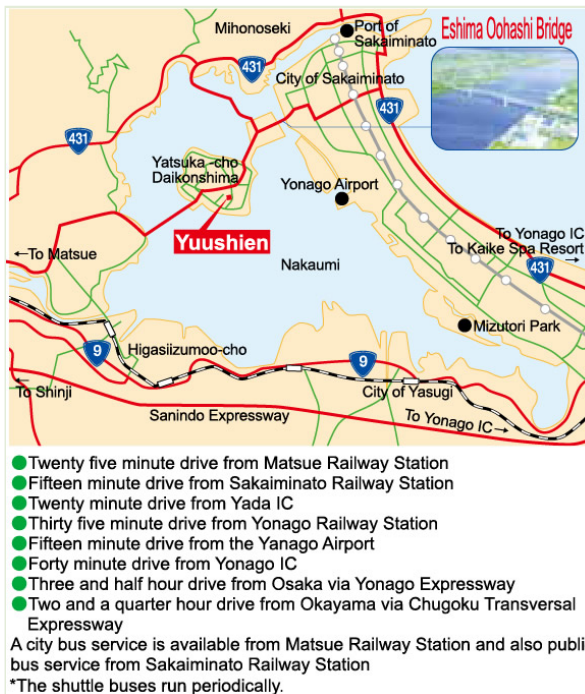
MC **Akiko Urago**

Greetings **Prof. Kiichiro Hayashi** (Chair of AIC 2026)
Prof. Takehiko Murayama (President, JSIA)
Prof. Sachihiko Harashina (President, IAIA Japan)
Prof. Alberto Fonseca (President, IAIA)

Closing **Prof. Hideharu Morishita**

The banquet venue is located a little away from the conference venue — it takes about a 30-minute drive. We recommend that all participants use the buses prepared by the AIC 2026 organizing committee.

ACCESS TO YUUSHIEN



Travel time to Yuushien

- 25 min by car from Matsue Railway Station
- 15 min from Sakaiminato Railway Station
- 20 min from Yada IC
- 35 min from Yonago Railway Station
- 15 min from Yonago Airport
- 40 min from Yonago IC
- 3.5 hours from Osaka via the Yonago Expressway
- 2.25 hours from Okayama via the Chugoku Transversal Expressway

A city bus runs from Matsue Railway Station, and a public bus from Sakaiminato Railway Station.

TECHNICAL PROGRAM OVERVIEW

Technical Program Overview

	Multipurpose Hall	Room 401	Room 601
Saturday 24 October			
08:50 –10:30	Opening ceremony & Plenary session 1 · Multipurpose Hall		
10:30–11:00	Coffee break · poster set-up		
Slot 1 11:00–12:30	S10 5 oral presentations Chair: Hiromu Okazawa	S4 (A) 4 oral presentations Chair: Sachihiko Harashina	S3 4 oral presentations Chair: Shigeo Nishikizawa
12:30–13:30	Lunch		
Slot 2 13:30–15:00	S5 5 oral presentations Chair: Aye Aye Saw	S4 (B) 3 oral presentations Chair: Sachihiko Harashina	S11 (A) 4 oral presentations Chair: Akira Tanaka and Akiko Urago
15:00–15:30	Coffee break		
Slot 3 15:30–17:00	S6 & S7 (A) 4 oral presentations Chair: Young-il Song and Yuan Xu	S9 & S13 (A) 6 oral presentations Chair: Ayano Takeuchi and Carlos Perez-Brito	S11 (B) 4 oral presentations Chair: Akira Tanaka and Akiko Urago
17:15 –18:30	Poster session · Multipurpose Hall		

Sunday 25 October		
08:30 –10:00	Plenary session 2 · Multipurpose Hall	
10:00–10:30	Coffee break	
Slot 4 10:30–12:00	S6 & S7 (B) 3 oral presentations Chair: Young-il Song and Yuan Xu	S9 & S13 (B) 5 oral presentations Chair: Ayano Takeuchi and Carlos Perez-Brito
	M8 & M9 3 oral presentations Chair: Yuki Shibata	
12:00–13:30	Lunch	
Slot 5 13:30–15:00	S6 & S7 (C) 3 oral presentations Chair: Young-il Song and Yuan Xu	M6 & M11 4 oral presentations Chair: Myungjin Kim
15:00 –15:30	Closing plenary & poster award · Multipurpose Hall	

Session codes follow the working program (version of 29 Sep 2026). “A / B / C” denote consecutive parts of the same session. Rooms: Multipurpose Hall, Room 401 and Room 601. The Multipurpose Hall also hosts plenaries, coffee breaks, lunches and the poster session.

Oral Sessions

The number before each title (#) is the presentation ID. Superscript numbers refer to the affiliations listed beneath each title. Presentations are listed in program order.

SLOT 1 | SATURDAY, 24 OCTOBER | 11:00–12:30

Session S10

Multipurpose Hall | Saturday, 24 October | 11:00–12:30

Chair: Hiromu Okazawa

- #33 Development of an Irrigation Service Area Estimation Method and Its Application to Small Hydropower Potential Assessment**
 Hiromu Okazawa¹, Kiseki Kurashina¹, Shiho Umemura¹, Kiichiro Hayashi²
¹Tokyo University of Agriculture · ²Nagoya University
- #77 Mitigation of the algal-bloom problem in the source water**
 Bo-seung Kang, Seungjae Lee, Jae-won Kim, Ji-hoon Kim
 Korea Water Resources Corporation
- #21 A satellite data-driven Impact Assessment of Offshore Wind Farms on Coastal Blue Carbon across China**
 Yuan Chen¹, Yuan Xu²
¹Shenzhen Research Institute, The Chinese University of Hong Kong · ²The Chinese University of Hong Kong
- #20 Socio-behavioral impacts of Community-based Sanitation Programs (Study case: Jakarta, Indonesia)**
 Shandy Cecilia¹, Takehiko Murayama², Shigeo Nishikizawa¹, Kultip Suwanteep¹
¹Institute of Science Tokyo · ²Saitama University
- #97 Development of HNS-MAP: A Decision Support Tool for HNS Management at Marine Industrial Facilities**
 Taeyun Kim¹, Yongmyung Kim², Moongin Lee²
¹Korea Environment Institute · ²Korea Research Institute of Ships & Ocean Engineering

Session S4 (A)

Room 401 | Saturday, 24 October | 11:00–12:30

SEA in Asia: Experiences, current situation and the future

Chair: Sachihiko Harashina

- #27 SEA in Japan: The History and the Future**
 Sachihiko Harashina
 Yokohama College of Commerce
- #56 From Regulatory SEA to Planning SEA: Lessons from Offshore Wind Siting in South Korea**
 Kongjang Cho¹, Hyosook Yim², Jongmun Park³
¹Korea Environment Institute · ²Dongguk University · ³Incheon Technopark

#29 An ASEAN Framework on Impact Assessment

Matthew Baird, Roger Joseph (Rocky) Guzman
Asian Research Institute for Environmental Law

#23 Parallel paths: A comparative analysis of Impact assessment evolution in Asia and Sub-Saharan Africa

Inemesit Ruskin
Transmission Company of Nigeria (TCN)

Session S3

Room 601 | Saturday, 24 October | 11:00–12:30

Zoning approaches for the appropriate introduction of renewable energy

Chair: Shigeo Nishikizawa

#25 Institutional and Planning Limitations of District-Scale Zero Energy Projects in Korea and Directions for Improvement: A Comparative Analysis of International Cases

MinJung Kim, JuChul Jung
Pusan National University

#16 Spatial and disaster risk assessment of wind power facilities in Japan

Kenji Sugimoto¹, Kiichiro Hayashi²
¹Osaka Metropolitan University · ²Nagoya University

#28 Comparison of Environmental Assessment Process and Suitable Sites on kLAB System for Solar Power in Japan

Yasuhiro Nagasawa¹, Shigeo Nishikizawa¹, Kiichiro Hayashi²
¹Institute of Science Tokyo · ²Nagoya University

#14 Exploring Zoning Approaches to Accelerate Renewable Energy Deployment in Japan

Shigeo Nishikizawa, Ryonosuke Kitamura
Institute of Science Tokyo

SLOT 2 | SATURDAY, 24 OCTOBER | 13:30–15:00**Session S5**

Multipurpose Hall | Saturday, 24 October | 13:30–15:00

Improving Integrated Environmental Assessment Approaches in Asian Contexts

Chair: Aye Aye Saw

#38 A Comparative Study on the Incorporation of Green Infrastructure Elements into Environmental Assessment for Garden City Planning: Focusing on Environmental Assessment Systems in the Korea, UK and Japan

Hyein Kim, JuChul Jung
Pusan National University

#47 The Role of Stakeholder Engagement in Environmental and Social Assessment: Experience from the Kyaukphyu Deep Sea Port Project

Aye Aye Saw, Ko Ko Soe Lwin Thaw, Kyan Dyne Aung
Myanmar Survey Research Company Limited

#34 A global-scale resources sustainability assessmentPhub Dem¹, Kiichiro Hayashi², Minoru Fujii³, Sangay Gyeltshen²¹Royal University of Bhutan · ²Nagoya University · ³National Institute for Environmental Studies (NIES)**#70 Enhancing Social License to Operate in Infrastructure Development: Identifying Critical Factors from Environmental and Social Consideration Practitioner Perspectives**

Kultip Suwanteeep

Institute of Science Tokyo

#54 Developing a Sustainable Integrated Environmental Assessment Framework in Korea

Yeonju Kim, JuChul Jung

Pusan National University

Session S4 (B)

Room 401 | Saturday, 24 October | 13:30–15:00

SEA in Asia: Experiences, current situation and the future

Chair: Sachihiko Harashina**#22 Strengthening SIA in Korea towards a Just Transition**

Yunae Yi

Impact Assessment & Social Safeguards Specialist

#95 From Assessment to Implementation: Strengthening Singapore's EIA Framework for Sustainable Development and Biodiversity Conservation

Li Tianjiao

National Parks Board, Singapore

#82 National Social Forecasting Framework for Sustainable Policymaking in NepalDipendra Dhakal¹, Kohei Ishii¹, Kamal Paudel², Hidefumi Kurasaka¹¹Graduate School of Social Sciences, Chiba University · ²Government of Nepal**Session S11 (A)**

Room 601 | Saturday, 24 October | 13:30–15:00

Policies and Technologies of Biodiversity Assessment/Mitigation in EIA/SEA: “No Net Loss” and “Nature Positive”

Chairs: Akira Tanaka and Akiko Urago**#78 Evaluation of the Contribution of Green Space Conservation Systems to Ecological Networks in Urban Areas and Identification of Priority Conservation Areas**Yuki Fujiwara¹, Yuki Shibata², Yosuke Omizu¹¹Toho University · ²Rikkyo University**#48 Quantifying Accelerated Encroachment in Lake Malawi National Park: A Multi-Temporal Land Use and Land Cover (LULC) Analysis and Future Projection**Chisomo Haswell¹, Lameck Fiwa², Ayako Sekiyama¹, Hiromu Okazawa¹¹Tokyo University of Agriculture · ²Lilongwe University of Agriculture and Natural Resources (LUANAR)

#30 Case study in the use of AI-based approach in baseline species capture, detection, monitoring and analysis to generate new insight for EIA/SEA studies

Raymond Wong¹, Clara U²

¹ODEN Systems Limited · ²Hong Kong Institute of Environmental Impact Assessment

#63 Twenty Years of Vegetation Recovery and Adaptive Management on Disaster-Restored Road Slopes: Implications for Nature Positive EIA Follow-up in Japan

Hiroshi Nakamura, Kanako Shikoda, Tamaki Yamaguchi, Makoto Nakayama

Docon Co., Ltd.

SLOT 3 | SATURDAY, 24 OCTOBER | 15:30–17:00

Session S6 & S7 (A)

Multipurpose Hall | Saturday, 24 October | 15:30–17:00

Integrated Impact Assessment and Participatory Decision Support Platform for Climate Change

Chairs: Young-il Song and Yuan Xu

#65 Integrated Climate Impact Assessment Platform for Adaptation Planning and Decision Support

Young-il Song¹, Changsub Shim¹, Jinhan Park¹, Dongkun Lee²

¹Korea Environment Institute · ²Seoul National University

#69 Projected Temperature-Related Cardiovascular Disease Burden Under Future Climate Scenarios According to Urban Green Space Levels

Ejin Kim¹, Insung Song¹, Ara Kim², Ho Kim¹

¹Seoul National University · ²Korea Environment Institute

#66 RELIEF: An Open Library for Reproducible Climate Change Impact and Adaptation Assessment

Ara Kim, Young-il Song, Jinhan Park, Changsub Shim

Korea Environment Institute

#87 Development of an Integrated Agriculture Model for Climate Change Risk Adaptation: A Case Study of Korean Agriculture

Jinsol Hong¹, Minseok Park¹, Gahyeon Lee², Kijong Cho¹

¹Korea University · ²Seoul National University

Session S9 & S13 (A)

Room 401 | Saturday, 24 October | 15:30–17:00

From Conflict to Co-existence: Environmental Dispute Resolution in Renewable Energy Development in Japan

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#43 Understanding Regional Differences in Social Acceptance of Offshore Wind Development: A Comparative Study of Local Communities in Akita, Japan

Ayano Takeuchi

Toho University

#80 **Who is the Silent Majority? Structural Analysis of Residents' Attitudes and Intentions to Involvement with the Renewable Energy Power Generation Facility Siting Process**

Kenshi Baba¹, Motoko Kosugi²

¹Waseda University · ²Shizuoka University

#90 **Social Friction in Renewable Energy Deployment: Examining Consensus-Building through Joint Fact-Finding**

Tomoyo Toyota¹, Kenshi Baba²

¹The University of Shimane · ²Waseda University

#17 **Strategies for Enhancing Community Acceptance of Offshore Wind Power**

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KICM (Korean Institute for Conflict Management)

#44 **Beyond Impact Mitigation: An Outcome-Oriented Planning Process for Offshore Wind Development in Incheon, South Korea**

Hyosook Yim¹, Kongjang Cho²

¹Dongguk University · ²Korea Environment Institute

#60 **Comparative Analysis of Consensus-Building Processes in Multiple Municipalities with Different Statuses of Renewable Energy Introduction**

Kazuei Ishii¹, Soki Tatsuda¹, Kenshi Baba², Sayaka Tahara³

¹Hokkaido University · ²Waseda University · ³Renewable Energy Organization of Hokkaido

Session S11 (B)

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Policies and Technologies of Biodiversity Assessment/Mitigation in EIA/SEA: “No Net Loss” and “Nature Positive”

Chairs: Akira Tanaka and Akiko Urago

#39 **Community-Based Participation in Mangrove Resource Management: A Case Study of Tung Prong Thong, Rayong Province, Thailand**

Wilailuk Niyommaneerat

Sustainable Environment Research Institute, Chulalongkorn University

#7 **OECD "MISHIMA no Mori" Forest: Community-Based Reforestation toward Nature-Positive Outcomes**

Manabu Ebihara, Daiki Uchida, Toshiki Takano, Taiki Ushimaru

Dia Nippon Engineering Consultants Co., Ltd.

#58 **Linking EIA and Corporate Nature Disclosure through Quantitative Biodiversity Accounting**

Nayoung Kim

The University of Tokyo

#50 **Policies and Technologies Required to Enable Environmental Impact Assessment Systems to Deliver Nature Positive Outcomes in Sustainable Development Projects**

Akira Tanaka

The University of Tokyo

SLOT 4 | SUNDAY, 25 OCTOBER | 10:30–12:00**Session S6 & S7 (B)**

Multipurpose Hall | Sunday, 25 October | 10:30–12:00

Integrated Impact Assessment and Participatory Decision Support Platform for Climate Change

Chairs: Young-il Song and Yuan Xu**#99 Embedding GHG mitigation in Impact Assessment Legislation: A Comparative Review of International Jurisdictions**

Alberto Fonseca

Federal University of Ouro Preto (UFOP)

#40 Japan's role in climate governance in UNFCCC since COP1: leader, follower or a laggard?

Audrius Sabūnas

International Christian University, Japan

#68 Integrating Residents' Perceptions and Preferences into Centralized GSHP Heating Planning in Rural China

Qiao Yu, Shigeo Nishikizawa

Institute of Science Tokyo

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From Conflict to Co-existence: Environmental Dispute Resolution in Renewable Energy Development in Japan

Chairs: Ayano Takeuchi and Carlos Perez-Brito**#36 Offshore wind farm project site selection in the exclusive economic zone: Legal and policy comparison analysis in China and Japan**

Gao Xiangyu, Xue Mianqiang

Zhejiang Ren Xin Environmental Research Institute Co., Ltd.

#76 Land use and policy implications of ground-mounted solar photovoltaic deployment in the PhilippinesKristelle Canas Beniga¹, Hiroto Shiraki¹, Diego Silva Herran²¹Nagoya University · ²National Institute for Environmental Studies (NIES)**#61 Recent progress of area-wide considerations on environmental and social impacts for renewable energy facilities**

Takehiko Murayama, Katsuyuki Mochiki

Saitama University

#9 Smart Energy or Environmental Risk? Lessons from Environmental and Social Impact Assessments of Floating Solar PV Projects in Southeast Asia

Andrew Sembel

AFRY South-East Asia Ltd

#98 An analysis of renewable energy project appeals in South Africa

Abulele Adams¹, David Rudolph², Megan Davies³

¹Council for Scientific and Industrial Research and Stellenbosch University Centre for Sustainability Transitions, South Africa · ²Technical University of Denmark, Denmark · ³Stellenbosch University Centre for Sustainability Transitions, South Africa

Session M8 & M9

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Chair: Yuki Shibata

#73 Limitations and Improvement Strategies for the Transfer of EIA Consultation Authority to Local Governments

Jin-Oh Kim

Kyung Hee University

#5 From Resident-led Impact Assessment to Citizen-led Sustainability Assessment: The Case of Expo 2025 Osaka

Hiroo Kasagi¹, Kaori Takeda²

¹Workshop for Sustainable Community · ²Advocacy and Monitoring Network on Sustainable Development

#96 Improve social impact assessment efficiency under Canada's Impact Assessment Act

Felicitas Egungu

University of Waterloo, Canada

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Session S6 & S7 (C)

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Integrated Impact Assessment and Participatory Decision Support Platform for Climate Change

Chairs: Young-il Song and Yuan Xu

#62 Attitude formation toward local wind farms under cumulative impacts: A questionnaire survey in three regions in Japan

Kentaro Takagi, Shigeo Nishikizawa

Institute of Science Tokyo

#101 Effects of forest management and wood utilization on carbon stocks under climate change

Minju Ku, Jeong-Min Lee, Yowhan Son

Korea University

#67 Impact Assessment of Integrating Intermittent Renewables on the Reliability of Electric System Across Timescales

Jiahao Wu¹, Lei Zhu², Yuan Xu¹

¹The Chinese University of Hong Kong · ²Beijing Normal University

Session M6 & M11

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Chair: Myungjin Kim

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Dae-Sik Oh

Korea Environment Corporation (K-ECO)

#85 Disclosure Status of Monitoring Results under the JICA Guidelines for Environmental and Social Considerations

Noriaki Murase

Setsunan University

#86 ESIA Failures and Their Causes

Akiko Urago¹, Nobuko Shimomura²

¹Raven Ltd. · ²Almec

#64 Korea environmental impact mitigation best and poor cases

Dong-sin Han

Korea Environment Corporation (K-ECO)

Poster Session

MEET THE AUTHORS | SATURDAY 24 OCTOBER | 17:15–18:30 | MULTIPURPOSE HALL

Poster set-up takes place during the coffee break (10:30–11:00) on 24 October. The poster award will be announced by Dr. Ayano Takeuchi at the closing plenary on 25 October.

#10 Identification of potential locations of small hydropower using Resources time Footprint: Case of Mangdechhu River basin in Bhutan

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Nagoya University

#18 The Impacts of Dam Construction on Land Cover and Ecosystem Services Provision A Case Study from Merowe Dam, Sudan

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Nagoya University

#19 Introducing User-Tailored AI to South Korea's Health Impact Assessment

P03

Jongsik Ha, Youngsoo Lee
Korea Environment Institute

#24 Assessing ecosystem service tradeoffs of MCDM-based solar and wind siting areas using land-use valuation and energy-normalized efficiency

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Sangay Gyeltshen¹, Kiichiro Hayashi²
¹Nagoya University · ²Institute of Materials and Systems for Sustainability, Nagoya University

#26 Do Public Comments Matter? Assessing Policy Reflection in the Formulation Process of Japan's Seventh Strategic Energy Plan

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Kohei Ishii¹, Akihiro Kameda², Hidefumi Kurasaka¹, Kiichiro Hayashi³
¹Chiba University · ²National Institutes for the Humanities · ³Nagoya University

#32 Accuracy assessment of ground-based LiDAR-derived forest parameters for aboveground biomass estimation in urban broadleaf forests

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Wei Niu¹, Kiichiro Hayashi²
¹Graduate School of Engineering, Nagoya University · ²Institute of Materials and Systems for Sustainability, Nagoya University

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Kotoe Kuroda¹, Masataka Ohara², Yoshiyuki Akatsuka³, Minoru Hirao⁴, Ryoto Hashikawa⁵, Kazuaki Kazato⁵, Nagisa Tanabe⁶
¹Japan Association of Environmental Assessment (JEAS) / Eight-Japan Engineering Consultants Inc. · ²Chiyoda Engineering Consultants Co., Ltd. · ³Oriental Consultants Co., Ltd. · ⁴Osumi Co., Ltd. · ⁵Nippon Koei Co., Ltd. · ⁶Eight-Japan Engineering Consultants Inc.

#45 Estimation of trends in ecosystem services over the past 50 years using models: A Case Study in Sendai City

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Nippon Koei Co., Ltd.

#49 AIC and KSEIA

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Korean Society of Environmental Impact Assessment (KSEIA)

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Korea Environment Institute

#53 Measures to Enhance the Effectiveness of Impact Assessment in Environmental Impact Assessments for Urban Development Projects

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#55 Why Does Scoping Fail? Institutional Barriers to Effective Scoping EIA

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Kongjang Cho
Korea Environment Institute

#57 Influence on the local acceptance by stakeholder agreements in renewable energy ordinances

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Ryuki Watanabe¹, Shigeo Nishikizawa¹, Yasuhiro Nagasawa¹, Takehiko Murayama²
¹Institute of Science Tokyo · ²Saitama University

#59 Consumption-Based Accounting as a Scoping Corrective for Plan-Level Climate Impact Assessment

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Pusan National University

#71 The results of low-frequency noise generated from inverters and converters in solar power facilities

P15

Sang-wook Cheon, Dae-Sik Oh
Korea Environment Corporation (K-ECO)

#74 National-Scale Assessment of Paddy Rice Residue Production Potential across Japan Using Public Data and AquaCrop-OSPy

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Yuri Yamazaki¹, Almujtaba Abdallah², Katsuyuki Shimizu¹, Kiichiro Hayashi³
¹Tottori University · ²The United graduate school of agricultural sciences, Tottori University · ³Nagoya University

#75 Analysis of the Effectiveness of Applying Best Management Practices (BMPs) for Reducing Agricultural Non-Point Source Pollution in Upstream Dam Watersheds Abstract

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Korea Water Resources Corporation

#81 Climate Suitability Assessment for Maize Cultivation in North Korea under Future Climate Conditions

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#83 Does a Remote Island Airport Deliver? A Counterfactual Multi-Criteria Socio-Ecological Assessment of Heuksando Airport

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Ru Jinguji¹, Kiichiro Hayashi², Sangay Gyeltshen¹, Ferdinando Villa³ and Stefano Balbi³
¹Nagoya University, Japan · ²Institute of Materials and Systems for Sustainability, Nagoya University, Japan · ³Basque Centre for Climate Change, Spain

#88 Determinants of Individual Investor Decision-Making in Community Fund-Based Renewable Energy Projects

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#89 Visualizing and Explaining Spatial Gaps in Long-Term Seabird Monitoring in Japan

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#91 A Review Study of the Cumulative Impact of EIA/SEA studies in Iran since its inception in mid 90s

P23

Naghmeh Mobarghaee Dinan¹, Farahnaz Sabzevari², Lisa Pourlak³
¹Environmental Science Research Institute · ²LAR Consulting Company · ³Iranian Association of Environmental Assessment

#94 Evaluating the Contribution of Local Forest Management Plans to Carbon Sequestration Reflecting Forest Functions and Topographical Factors

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Jiwon Son¹, Moonil Kim², Jisang Lee¹
¹Korea University · ²Pyeongtaek University

#102 Temperature modification of ozone-related mortality and projections under climate change scenarios in South Korea

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Jieun Oh¹, Sieun Lee¹, Whanhee Lee², Ho Kim¹
¹Seoul National University · ²Pusan National University

Technical Visit & Side Event

TECHNICAL VISIT | MONDAY 26 OCTOBER | 08:45–17:30

08:45	Assemble in the lobby of Matsue Excel Hotel Tokyu	13:00–14:00	Nittoho Tatara Ironmaking Facility
09:00	Bus departs	14:30–15:00	Ohara Shinden terraced rice fields
09:30–10:30	Shinjiko Nature Museum Gobius	16:00	Izumo Enmusubi Airport (dep. 16:10)
11:30–12:30	Lunch at Kamedake Onsen Gyokuhō Sansō	16:40	JR Matsue Station (dep. 16:50)
		17:30	Yonago Kitaro Airport

Arrival times at the airports and JR Matsue Station are estimates and may change depending on local traffic conditions on the day.



Shinjiko Nature Museum Gobius

島根県立宍道湖自然館ゴビウス・about 1 hour

An experiential aquarium built by Shimane Prefecture in 2001. Lake Shinji and Nakaumi were registered as a Ramsar Site in 2005.



Kamedake Onsen Gyokuhō Sansō

亀嵩温泉 玉峰山荘・lunch, about 1 hour

A seasonal meal made with local specialties, Nita rice and Shimane wagyu, to enjoy the natural bounty of Okuizumo.



Nittoho Tatara Ironmaking Facility

日刀保たたら島上木炭銑工場・about 1 hour

The only tatara facility producing tamahagane, the raw material of Japanese swords. Run by the Society for the Preservation of Japanese Art Swords.



Ohara Shinden

大原新田・about 30 minutes

One of “Japan’s 100 Best Terraced Rice Fields” (1999), part of a nationally designated Important Cultural Landscape (2014).

サイドイベントセミナー | 10月26日（月） | 13:30–15:30

サイドイベントセミナー

○開催日時：令和8年10月26日（月）13:30～15:30

○場所：島根県立産業交流会館 くにびきメッセ 601大会議室（オンライン併用）
（〒690-0826 島根県松江市学園南1丁目2-1）

○セミナータイトル：環境アセスメントと考える地域と自然～島根県から考える、これからの未来

○主催等：主催 環境省中国四国環境局 / 共催 環境アセスメント学会
開催協力 中国環境パートナーシップオフィス（EPOちゅうごく）

○概要：本セミナーでは、地域脱炭素やネイチャーポジティブの視点等も踏まえながら、環境アセスメント制度を活用して地域の自然等と向き合い、よりよい未来につなげていくためのヒントを考えていきます。

General Information

VENUE

Kunibiki Messe (Shimane Prefectural Convention Center) — Multipurpose Hall, Room 401, Room 601
1-2-1 Gakuen-minami, Matsue City, Shimane 690-0826 | www.kunibikimesse.jp/en

ACCESS

By air	Izumo Enmusubi Airport — 35 min by bus to JR Matsue Station Yonago Kitaro Airport — 45 min by bus to JR Matsue Station
By bus from JR Matsue Stn.	About 3 minutes. Platform #11 at the North Exit; take a bus bound for “Messe/Taiikukan” and get off at Kunibiki Messe-mae .
On foot	About 7–10 minutes (650 m). From the North Exit, walk toward the large intersection on your right and cross the bridge; the large glass-walled building ahead is Kunibiki Messe.

RECOMMENDED HOTELS

Matsue Excel Hotel Tokyu · Green Rich Hotel Matsue Station Across · Matsue Urban Hotel · Oyado Nono Matsue · Hotel Ichibata
Visitor information: www.kankou-shimane.com/en · www.visit-matsue.com

ORGANIZERS

Organizer	Japan Society for Impact Assessment (JSIA)
Co-organizer	IAIA Japan Branch
Support	Ministry of the Environment, Japan Korean Society of Environmental Impact Assessment (KSEIA) Hong Kong Institute of Environmental Impact Assessment (HKIEIA) Institute for Global Environmental Strategies (IGES)
Contact	aic2026matsue@gmail.com

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AIC 2026

The 18th Asia Impact Assessment Conference

24–26 October 2026 · Matsue City, Shimane, Japan

ORGANIZING & SUPPORTING ORGANIZATIONS

