AIC 2026

The 18th Asia Impact Assessment Conference

PROGRAM BOOK



24–26 October 2026

Matsue City, Shimane Pref., Japan

JSIA

Ministry of the Environment Japan

IAIA JAPAN BRANCH

KOREAN SOCIETY OF ENVIRONMENTAL IMPACT ASSESSMENT

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	57	25	2
DAYS	ORAL PRESENTATIONS	POSTERS	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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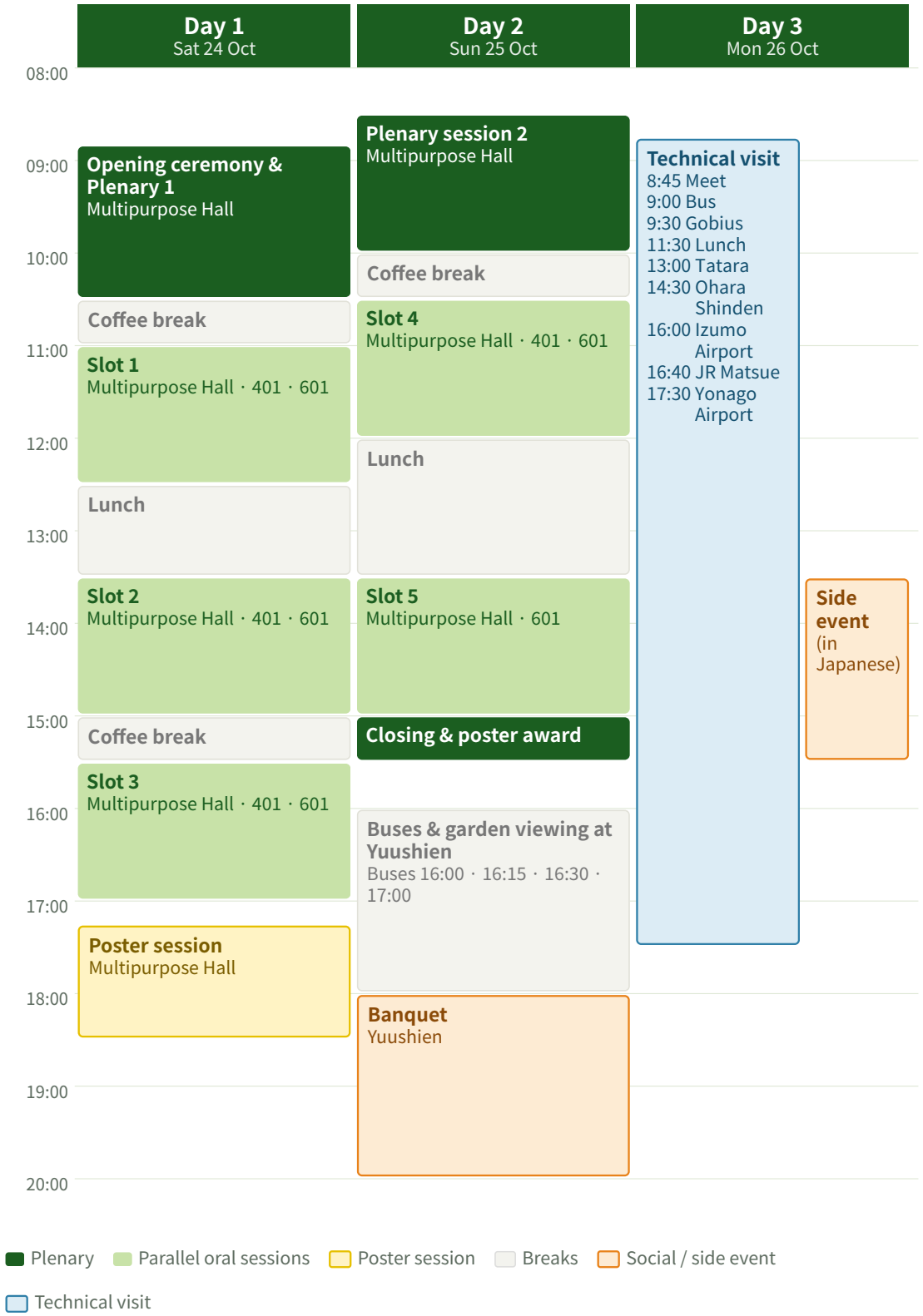
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Reading this book. Times are local (JST). The overview grid on page 5 shows the whole conference on one page; the technical program overview on page 15 maps every oral session to its room. The index of authors at the end lists every author, chair and 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)
	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 was formerly 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.

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



- Twenty five minute drive from Matsue Railway Station
- Fifteen minute drive from Sakaiminato Railway Station
- Twenty minute drive from Yada IC
- Thirty five minute drive from Yonago Railway Station
- Fifteen minute drive from the Yanago Airport
- Forty minute drive from Yonago IC
- Three and half hour drive from Osaka via Yonago Expressway
- Two and a quarter hour drive from Okayama via Chugoku Transversal Expressway

A city bus service is available from Matsue Railway Station and also public bus service from Sakaiminato Railway Station
*The shuttle buses run periodically.

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

	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	**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	**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 Okazawa[1], Kiseki Kurashina[1], Shiho Umemura[1], Kiichiro Hayashi[2]

[1]Tokyo University of Agriculture · [2]Nagoya 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 Chen[1], Yuan Xu[2]

[1]Shenzhen Research Institute, The Chinese University of Hong Kong · [2]The Chinese University of Hong Kong

#20 Socio-behavioral impacts of Community-based Sanitation Programs (Study case: Jakarta, Indonesia)

Shandy Cecilia[1], Takehiko Murayama[2], Shigeo Nishikizawa[1], Kultip Suwanteep[1]

[1]Institute of Science Tokyo · [2]Saitama University

#97 Development of HNS-MAP: A Decision Support Tool for HNS Management at Marine Industrial Facilities

Taeyun Kim[1], Yongmyung Kim[2], Moongin Lee[2]

[1]Korea Environment Institute · [2]Korea 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 Cho[1], Hyosook Yim[2], Jongmun Park[3]

[1]Korea Environment Institute · [2]Dongguk University · [3]Incheon 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 Sugimoto[1], Kiichiro Hayashi[2]
[1]Osaka Metropolitan University · [2]Nagoya University

#28 Comparison of Environmental Assessment Process and Suitable Sites on kLAB System for Solar Power in Japan
Yasuhiro Nagasawa[1], Shigeo Nishikizawa[1], Kiichiro Hayashi[2]
[1]Institute of Science Tokyo · [2]Nagoya 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 assessment

Phub Dem[1], Kiichiro Hayashi[2], Minoru Fujii[3], Sangay Gyeltshen[2]
[1]Royal University of Bhutan · [2]Nagoya University · [3]National 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 Suwanteep
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 Nepal

Dipendra Dhakal[1], Kohei Ishii[1], Kamal Paudel[2], Hidefumi Kurasaka[1]
[1]Graduate School of Social Sciences, Chiba University · [2]Government 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 Fujiwara[1], Yuki Shibata[2], Yosuke Omizu[1]
[1]Toho University · [2]Rikkyo University

#48 Quantifying Accelerated Encroachment in Lake Malawi National Park: A Multi-Temporal Land Use and Land Cover (LULC) Analysis and Future Projection

Chisomo Haswell[1], Lameck Fiwa[2], Ayako Sekiyama[1], Hiromu Okazawa[1]
[1]Tokyo University of Agriculture · [2]Lilongwe 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 Wong[1], Clara U[2]

[1]ODEN Systems Limited · [2]Hong 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

Chair: Young-il Song and Yuan Xu

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

Young-il Song[1], Changsub Shim[1], Jinhan Park[1], Dongkun Lee[2]

[1]Korea Environment Institute · [2]Seoul National University

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

Ejin Kim[1], Insung Song[1], Ara Kim[2], Ho Kim[1]

[1]Seoul National University · [2]Korea 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 Hong[1], Minseok Park[1], Gahyeon Lee[2], Kijong Cho[1]

[1]Korea University · [2]Seoul 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

Chair: Ayano Takeuchi

#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 Baba[1], Motoko Kosugi[2]
[1]Waseda University · [2]Shizuoka University

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

Tomoyo Toyota[1], Kenshi Baba[2]
[1]The University of Shimane · [2]Waseda University

#17 Strategies for Enhancing Community Acceptance of Offshore Wind Power

Jong-Gwan Jung, Byung Hak Choi
KICM (Korean Institute for Conflict Management)

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

Hyosook Yim[1], Kongjang Cho[2]
[1]Dongguk University · [2]Korea Environment Institute

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

Kazuei Ishii[1], Soki Tatsuda[1], Kenshi Baba[2], Sayaka Tahara[3]
[1]Hokkaido University · [2]Waseda University · [3]Renewable Energy Organization of Hokkaido

Session S11 (B)

Room 601 | Saturday, 24 October | 15:30–17:00

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 OECM "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

Chair: 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

Session S9 & S13 (B)

Room 401 | Sunday, 25 October | 10:30–12:00

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

Chair: Ayano Takeuchi

#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 Philippines

Kristelle Canas Beniga[1], Hiroto Shiraki[1], Diego Silva Herran[2]

[1]Nagoya University · [2]National 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 Adams[1], David Rudolph[2], Megan Davies[3]

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

Session M8 & M9

Room 601 | Sunday, 25 October | 10:30–12:00

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 Kasagi[1], Kaori Takeda[2]

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

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

Felicitas Egunyu

University of Waterloo, Canada

SLOT 5 | SUNDAY, 25 OCTOBER | 13:30–15:00

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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 Wu[1], Lei Zhu[2], Yuan Xu[1]

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

Session M6 & M11

Room 601 | Sunday, 25 October | 13:30–15:00

Chair: Myungjin Kim

#72 Case Analysis and Improvement Measures for EIA Follow-up in Urban Development Projects in Korea: Focusing on Noise

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 Urago[1], Nobuko Shimomura[2]
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#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 — P01

Sonam Gyeltshen, Kiichiro Hayashi, Sangay Gyeltshen

Nagoya University

#18 The Impacts of Dam Construction on Land Cover and Ecosystem Services Provision A Case Study from Merowe Dam, Sudan — P02

Ebaa Emadeldeen Elsmmani Mohmmed, Kiichiro Hayashi

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 — P04

Sangay Gyeltshen[1], Kiichiro Hayashi[2]

[1]Nagoya University · [2]Institute 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 — P05

Kohei Ishii[1], Akihiro Kameda[2], Hidefumi Kurasaka[1], Kiichiro Hayashi[3]

[1]Chiba University · [2]National Institutes for the Humanities · [3]Nagoya University

#32 Accuracy assessment of ground-based LiDAR-derived forest parameters for aboveground biomass estimation in urban broadleaf forests — P06

Wei Niu[1], Kiichiro Hayashi[2]

[1]Graduate School of Engineering, Nagoya University · [2]Institute of Materials and Systems for Sustainability, Nagoya University

#42 Integrating Carbon Credits into Environmental Impact Assessment: A Framework for Fostering Regional Climate Action — P07

Kotoe Kuroda[1], Masataka Ohara[2], Yoshiyuki Akatsuka[3], Minoru Hirao[4], Ryoto Hashikawa[5], Kazuaki Kazato[5], Nagisa Tanabe[6]

[1]Japan Association of Environmental Assessment (JEAS) / Eight-Japan Engineering Consultants Inc. · [2]Chiyoda Engineering Consultants Co., Ltd. · [3]Oriental Consultants Co., Ltd. · [4]Osumi Co., Ltd. · [5]Nippon Koei Co., Ltd. · [6]Eight-Japan Engineering Consultants Inc.

#45 Estimation of trends in ecosystem services over the past 50 years using models: A Case Study in Sendai City P08

Chiaki Murakami, Yosuke Horie, Akio Nohara
Nippon Koei Co., Ltd.

#49 AIC and KSEIA P09

Sookjin Jeon, Yoonyoung Chang, Myungjin Kim
Korean Society of Environmental Impact Assessment (KSEIA)

#51 Development of the Offshore Wind Environment Assessment Support & Information System (OWEASIS) P10

Taeyun Kim, Haemi Lee, Jaehyuck Lee
Korea Environment Institute

#53 Measures to Enhance the Effectiveness of Impact Assessment in Environmental Impact Assessments for Urban Development Projects P11

Sangbum Lee
Korea Environment Institute

#55 Why Does Scoping Fail? Institutional Barriers to Effective Scoping EIA P12

Kongjang Cho
Korea Environment Institute

#57 Influence on the local acceptance by stakeholder agreements in renewable energy ordinances P13

Ryuki Watanabe[1], Shigeo Nishikizawa[1], Yasuhiro Nagasawa[1], Takehiko Murayama[2]
[1]Institute of Science Tokyo · [2]Saitama University

#59 Consumption-Based Accounting as a Scoping Corrective for Plan-Level Climate Impact Assessment P14

Jiwoo Han
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 P16

Yuri Yamazaki[1], Almujtaba Abdallh[2], Katsuyuki Shimizu[1], Kiichiro Hayashi[3]
[1]Tottori University · [2]The United graduate school of agricultural sciences, Tottori University · [3]Nagoya University

#75 Analysis of the Effectiveness of Applying Best Management Practices (BMPs) for Reducing Agricultural Non-Point Source Pollution in Upstream Dam Watersheds Abstract P17

Bo-seung Kang, Jae-won Kim, Ji-hoon Kim
Korea Water Resources Corporation

#81 Climate Suitability Assessment for Maize Cultivation in North Korea under Future Climate Conditions P18

Hyorin Kwon, Gahyeon Lee, Jinyeong Oh, Kwang Soo Kim
Seoul National University

#83 Does a Remote Island Airport Deliver? A Counterfactual Multi-Criteria Socio-Ecological Assessment of Heuksando Airport P19

Seohyun Jeon, Kiichiro Hayashi
Nagoya University

#84 Estimating the Resource Time Footprint (RTF) of suitable areas for wind turbine by using k.LAB in Ena City, Gifu prefecture P20

Ru Jinguji[1], Kiichiro Hayashi[2], Sangay Gyeltshen[1], Ferdinando Villa[3] and Stefano Balbi[3]
[1]Nagoya University, Japan · [2]Institute of Materials and Systems for Sustainability, Nagoya University, Japan · [3]Basque Centre for Climate Change, Spain

#88 Determinants of Individual Investor Decision-Making in Community Fund-Based Renewable Energy Projects P21

Yubi Shirota, Ayano Takeuchi
Toho University

#89 Visualizing and Explaining Spatial Gaps in Long-Term Seabird Monitoring in Japan P22

Chihiro Iibe, Ayano Takeuchi
Toho University

#91 A Review Study of the Cumulative Impact of EIA/SEA studies in Iran since its inception in mid 90s P23

Naghmeh Mobarghaee Dinan[1], Farahnaz Sabzevari[2], Lisa Pourlak[3]
[1]Environmental Science Research Institute · [2]LAR Consulting Company · [3]Iranian Association of Environmental Assessment

#94 Evaluating the Contribution of Local Forest Management Plans to Carbon Sequestration Reflecting Forest Functions and Topographical Factors P24

Jiwon Son[1], Moonil Kim[2], Jisang Lee[1]
[1]Korea University · [2]Pyeongtaek University

#102 Temperature modification of ozone-related mortality and projections under climate change scenarios in South Korea P25

Jieun Oh[1], Sieun Lee[1], Cinoo Kang[1], Whanhee Lee[2], Ho Kim[1]
[1]Seoul National University · [2]Pusan 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**
09:00	Bus departs
09:30–10:30	Shinjiko Nature Museum **Gobius**
11:30–12:30	Lunch at **Kamedake Onsen Gyokuhō Sansō**
13:00–14:00	**Nittoho Tatara** Ironmaking Facility
14:30–15:00	**Ohara Shinden** terraced rice fields
16:00	Izumo Enmusubi Airport (dep. 16:10)
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

日刀保たたら鳥上木炭銑工場・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

〇開催日時：令和８年１０月２６日（月）１３:３０～１５:３０

〇場所：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）

〇セミナータイトル：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

〇主催等：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）

〇概要：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

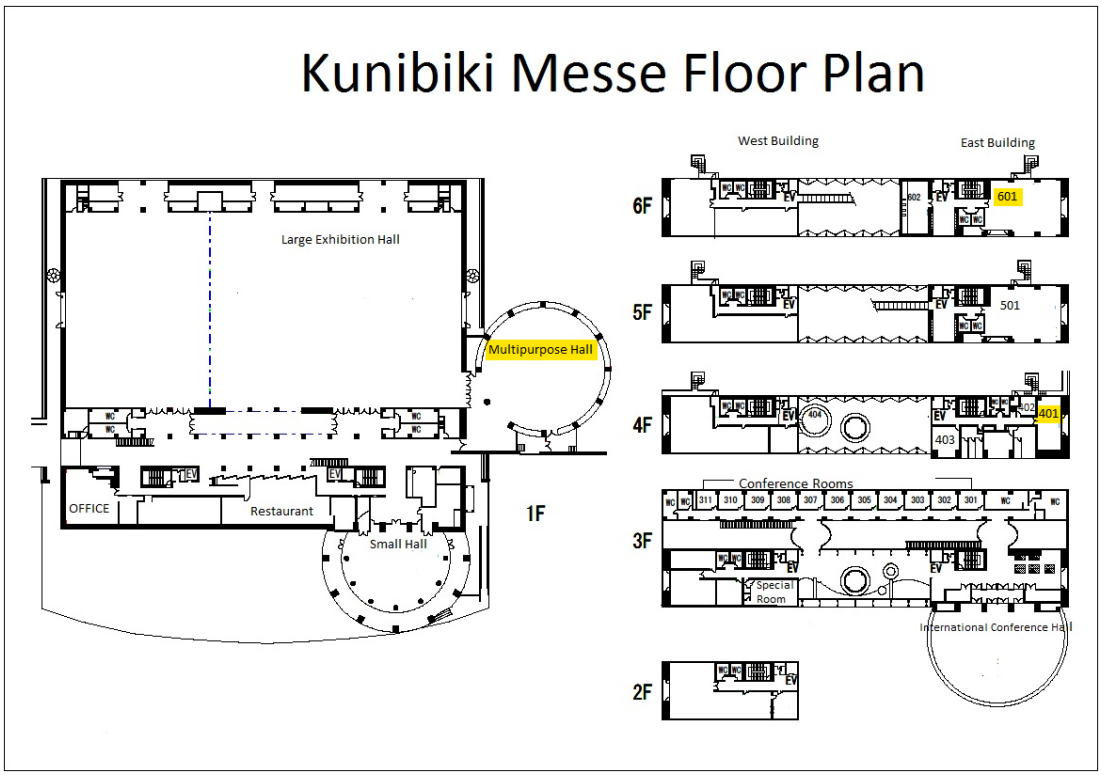
ORGANIZERS

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

CONFERENCE COMMITTEE

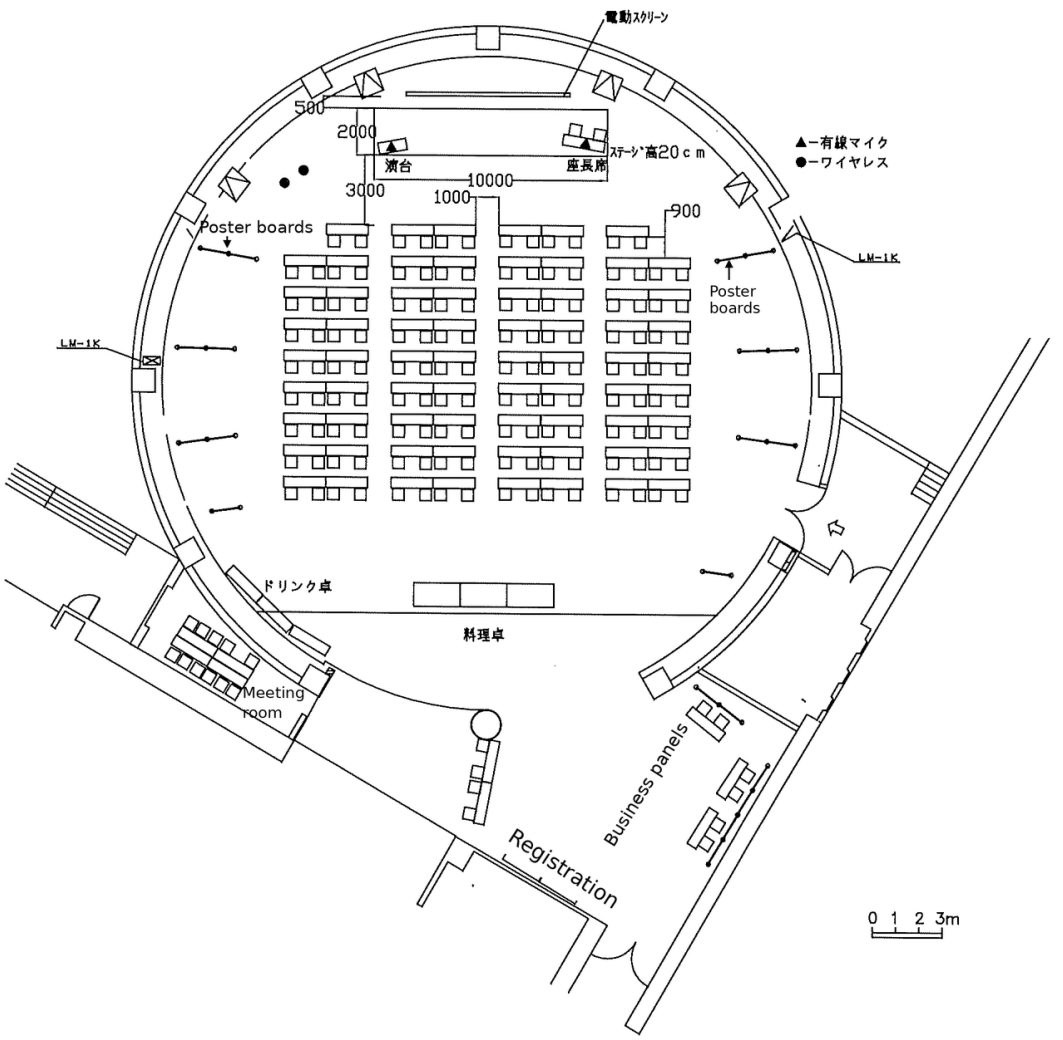
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Venue Floor Plan



Notice. There is no cloakroom at Kunibiki Messe. If you wish to leave your belongings, please store them at your hotel front desk or in a coin locker at Kunibiki Messe.

Multipurpose Hall Layout



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AIC 2026

The 18th Asia Impact Assessment Conference

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

ORGANIZING & SUPPORTING ORGANIZATIONS

JSIA

Ministry of the Environment 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

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