

2024 9th Asia Conference on Environment and **Sustainable Development**

(ACESD 2024)

With workshops

2024 8th International Conference on New Energy and Applications (ICNEA 2024)

2024 Asia Conference on Environmental Economics and Policy (ACEEP 2024)

Osaka, Japan | November 9-11, 2024

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Venue: TKP Garden City Osaka Ribasaidohoteru

Add:大阪府大阪市都島区中野町 5-12-30 大阪リバーサイドホテル (会館棟) 2~6階 (事務所: 2階)

(日本〒534-0027 Osaka, Miyakojima Ward, Nakanocho, 5 Chome-12-30 会館棟 2F-6 (Staff Office:

2F)

Web: https://www.kashikaigishitsu.net/facilitys/gc-riverside-osaka/



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WELCOME MESSAGE

Dear all,

We are delighted to welcome you to these conferences 2024 9th Asia Conference on Environment and Sustainable Development (ACESD 2024), along with the workshop 2024 8th International Conference on New Energy and Applications (ICNEA 2024) and 2024 Asia Conference on Environmental Economics and Policy (ACEEP 2024) to be held in Osaka, Japan, during November 9-11, 2024, which are sponsored by iNehc, IJESD and technically supported by Yokohama National University, National Institute for Environmental Studies, Nagasaki University and Japan International Cooperation Agency.

The objective of the conference is to provide a premium platform to bring together researchers, scientists, engineers, academics and graduate students to share up-to-date research results. We are confident that during this time you will get the theoretical grounding, practical knowledge, and personal contacts that will help you build a long term, profitable and sustainable communication among researchers and practitioners in the related scientific areas.

This year's program is composed of 3 keynote speeches delivered respectively by Prof. Chikashi Sato, from Idaho State University, USA; Prof. Guangming Li, from Tongji University, China and Prof. Dimitrios Karamanis, from University of Patras, Greece; 2 invited speeches delivered respectively by Dr. Mitsuo Yoshida, from Global Environment Department, Japan International Cooperation Agency (JICA), Tokyo, Japan and Prof. Kei Nakagawa, from Institute of Integrated Science and Technology, Nagasaki University, Japan; 10 onsite sessions and 1 online oral session. We would like to express our gratitude to all the speakers in these conferences. Special thanks to all of our committee members, all the reviewers, the attendees for your active participation. We hope the conferences will be proved to be intellectually stimulating to us all. Finally, we wish you very successful conferences!

Conference Organizing Committee

ACESD 2024

ICNEA 2024

ACEEP 2024

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November 9-11, 2024 Osaka

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Dina Matthew, Instituto Politécnico de Tomar, Portugal

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ThailandJetsadaporn Priyadumkol, Mahidol university, Thailand

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Tomoki Fujii, Singapore Management University, Singapore

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Kevin Muhamad Lukman, Universitas Padjadjaran, Indonesia

Mateusz Zareba, AGH University of Krakow, Poland

Tze San Ong, Universiti Putra Malaysia, Malaysia



GENERAL INFORMATION

Conference Venue

Venue: TKP Garden City Osaka Ribasaidohoteru (TKP ガーデンシティ大阪リバーサイドホテル)

Add.: 日本〒534-0027 Osaka, Miyakojima Ward, Nakanocho, 5 Chome-12-30 会館棟 2F-6 (Staff Office:

2F)

Web: https://www.kashikaigishitsu.net/facilitys/qc-riverside-osaka/

On-site Registration

Registration desk \rightarrow Inform the staff of your paper ID \rightarrow Sign-in \rightarrow Claim your conference kits.

Devices Provided by the Organizer

Laptop (with MS-Office & Adobe Reader) / Projectors & Screen / Laser Sticks

Materials Provided by the Presenter

Oral Session: Slides (pptx or pdf version), Format 16:9 is preferred. Poster Session: A1 size Printed

poster.

Presentation Language: English only.

Duration of Each Presentation

Oral Session: 15min, including Q&A. Keynote Speech: 40min, including Q&A.

Poster Session: 10min, including Q&A. Invited Talk: 30min, including Q&A.

Notice

- * Please wear your delegate badge (name tag) for all the conference activities. Lending your badge to others is not allowed.
- * Please take good care of your valuables at any time during the conferences. The conference organizer does not assume any responsibility for the loss of personal belongings of the participants during conference day.

Zoom Meeting

Meeting ID	Link
Room ID: 850 5135 8685	https://us02web.zoom.us/j/85051358685

November 9-11, 2024

Note:

- We recommend to install the Zoom platform beforehand. New users can login the Zoom meeting without registration.
- Please set your display name before joining the online meeting. For instance,

Author/Presenter: Paper ID Name < A001 Ching Cao >

Delegate: Delegate_Name < Delegate_ Ching Cao >





AGENDA OVERVIEW

Session Time	Saturday, Nov. 9, 2024 Pre-Test/Registration (UTC+9)	Venue
10:00-12:00 13:00-17:00	On-site Registration	Room 5D, 5 th Floor
10:30-11:30	Room ID: 850 5135 8685	
10:30-11:00		
11:00-11:30	For other online participants, includes but not limited to keynote speacommittee members, delegates, etc.	akers, session chairs,

Presenters are required to join the rehearsal in Zoom on Saturday, November 9, 2024. Duration: 2~3min apiece. Feel free to leave after you finish the test.

Session Time	Sunday, Nov. 10, 2024 (UTC+9) Plenary Meeting	
	nce Program Chair shiwatari, Japan International Cooperation Agency (JICA), Japan	
09:00-09:10	Welcome Speech - General Chair Prof. Keiji Ujikawa, Yokohama National University, Japan	
09:10-09:50	Keynote Speech I Title: Integrating Microbial Fuel Cell with Hydroculture System for Nutrient Recovery from Wastewater Prof. Chikashi Sato, Idaho State University, USA	
09:50-10:30	Keynote Speech II Title: Resource Technology of Waste Power Lithium Battery Prof. Guangming Li, Tongji University, China	Room 5B+5C<5F>
10:30-11:00	Group Photo & Coffee Break (5F)	Link: <u>850 5135</u>
11:00-11:30	Invited Speech I Title: Technical Cooperation for Formulating Waste Reduction and Minimization Plan in Municipal Solid Waste Management, A Case Study in Palestine Dr. Mitsuo Yoshida, Global Environment Department, Japan International Cooperation Agency (JICA), Tokyo, Japan	<u>8685</u>
11:30-12:00	Invited Speech II Title: Time Series Analysis to Estimate Soil Water Content: A Case Study in Shimabara, Nagasaki, Japan Prof. Kei Nakagawa , Institute of Integrated Science and Technology, Nagasaki University, Japan	
12:00-13:30	Lunch Time: Room: 5B+5C <5F>	

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AGENDA OVERVIEW

Sunday, Nov. 10, 2024 (UTC+9) Parallel Session (Onsite)						
Room 5A<5F>	Room 4B<4F>	Room 4C<4F>	Room 4D<4F>	Room 4A<4F>		
	13:30-15:45					
Onsite Session 1 Environmental Engineering Materials and Wastewater Treatment	Onsite Session 2 Soil Pollution Control and Ecosystem Protection	Onsite Session 3 Urban Environmental Planning and the Impact of Climate Change	Onsite Session 4 Blue Economy and Carbon Emission Reduction	Onsite Session 5 Environmental Pollution Monitoring and Control ORAL: A020-A, A044, A068, A021-A, A1009-A,		
A039-A, A089-A, A014-A, A051, A059-A, A090-A, A092-A, A106-A, A034-A	A114, A107-A, A164, A117-A, A124-A, A036-A, A711-A, A042, A171-A	A023, A047-A, A049-A, A1007, A088-A, A189-A, A058-A, A1003-A, A146	A060-A, A095-A, A097-A, A001, A010-A, A716, A905, A717, A113			
		16:00-18:15				
Onsite Session 6 Green Economy and Sustainable Development	Onsite Session 7 Environmental Economics and Policy	Onsite Session 8 Air Quality and Environmental Health	Onsite Session 9 Waste Management and Waste Valorization	Onsite Session 10 Renewable Energy Technology and Energy Conservation		
A008-A, A061, A045-A, A7002-A, A708-A, A025, A083-A, A713, A172-A	A093-A, A702, A7005-A, A704-A, A707-A, A081-A, A718, A7006-A	A041, A062-A, A064-A, A066, A065-A, A102, A101, A070, A184	A035-A, A103-A, A096, A159, A022, A104-A, A098, A912, A128-A	A902, A073, A904, A906, A903-A, A907-A, A909-A, A911-A, A901-A		
	1	8:30-20:30 Banquet Dinn 6A<6F>	ier			
	Monday, Nov. 11, 2024 (UTC+9) (Onsite)					
One-day Tour. * One day tour registration fee is: 150 USD; Payment link: http://confsys.iconf.org/online-payment/890003173 * One Lunch and tickets of World Heritage Byodoin & Kiyomizudera Temple are already included in one day tou registration fee. Registration closes at 5pm Oct. 30, 2024 (UTC+9h). More details please check page no. 27.						

Monday, Nov. 11, 2024 (UTC+9) Plenary Meeting & Parallel Session (Online)				
Room ID: 850 5135 8685 Link: https://us02web.zoom.us/j/85051358685				
09:30-10:00	Keynote Speech III Title: Transitioning to climate-neutral cities: From zero-emission buildings to urban decarbonization Prof. Dimitrios Karamanis, University of Patras, Greece			
10:00-11:45	Online Session Environmental Management and Sustainable Development A012, A1002, A105, A714, A142-A, A179, A183, A067			



INTRODUCTION OF KEYNOTE SPEAKER



Prof. Chikashi Sato Idaho State University, USA

Integrating Microbial Fuel Cell with Hydroculture System for Nutrient Recovery from Wastewater

Abstract: This study investigates the integration of microbial fuel cells (MFCs) with hydroculture systems (MFC-Hyp) to develop a sustainable, carbon-neutral energy-water-food (EWF) supply. The system is designed to enhance nutrient (N, P, K) recovery, CO2 utilization, and wastewater treatment while generating electricity. Potato-process wastewater, containing organic carbon and nutrients, served as fuel, and garlic chives (Allium tuberosum) were used as the hydroponic plant. Results showed that nutrients diffused from the MFC to the hydroponic system, promoting plant growth, while the organic content (COD) in the wastewater was significantly reduced. This integrated system offers a promising approach for renewable energy production, nutrient recovery, and wastewater treatment, though further optimization is needed to address the low power output.

Biography: Professor Chikashi Sato is an environmental engineering and science educator, originally from Iwaki City, Japan, and now a U.S. citizen. For the past 29 years, he has been a faculty member at Idaho State University, where he serves as Director of the PhD program in Engineering and Applied Science and the MS program in Environmental Science and Management. Dr. Sato holds an MS in Environmental Health Engineering from the University of Kansas and a PhD in Environmental Engineering from the University of Iowa.

Dr. Sato has been recognized with several prestigious fellowships throughout his career. In 2002, he was awarded a Japan Society for the Promotion of Science (JSPS) fellowship, during which he conducted research at the Public Works Research Institute in Tsukuba, Japan. In 2012, he received a Fulbright fellowship and taught at Tribhuvan University-Prithvi Narayan Campus in Pokhara, Nepal. In 2014, he was an invited Visiting Professor at Kyoto University's Graduate School of Engineering, Research Center for Environmental Quality Management. Additionally, in 2017, Dr. Sato was honored with the Chinese Academy of Sciences President's International Fellowship Initiative (PIFI).

Dr. Sato has made significant contributions to the field of scientific writing, publishing Handbook for Scientific English Writing in 2009, a widely-used resource in Japan. He has served on the editorial boards of various academic journals and is currently a guest editor for the special issue "Microbial Fuel Cells, 3rd Edition" in the journal Energies.



INTRODUCTION OF KEYNOTE SPEAKER



Prof. Guangming Li Tongji University, China

Resource Technology of Waste Power Lithium Battery

Abstract: As the mainstream of power source for new energy vehicles, lithium-ion batteries are facing resource and environmental problems after spent and scrapping. The recycling and resourcing of waste power lithium batteries is the key for the sustainable development of the electric vehicle industry. In the presentation, it is introduced to the development of the electric vehicle and power lithium-ion battery industry; resource and environment problems of waste power lithium battery; and the technical route and development trend of resource of waste power lithium battery.

Biography: Prof. Guangming Li, professor and doctoral student supervisor at the College of Environmental Science and Engineering, Tongji University. Engaged in water pollution control and recycling, wastes management and recovery technologies such as urban solid waste, electronic waste, kitchen and organic waste, waste tires and plastics, and hazardous wastes, as well as urban ecological environment and lowcarbon sustainable development technology and innovation planning research. He presided over and participated in more than ten major science and technology research projects under the National "Tenth Five Year Plan" 863, the Ministry of Science and Technology Support Plan, the National Natural Science Foundation of China, and local governments. Since 2004, he has been involved in the formulation of medium and long-term scientific and technological development plans in Shanghai, serving as the leader of the Ecological Shanghai Special Group, participating in the formulation of Shanghai's "11th Five Year Plan", "12th Five Year Plan", "13th Five Year Plan", and "14th Five Year Plan" scientific and technological development plans, and serving as the leader of the Ecological Shanghai or People's Livelihood Special Group; Participate in the special planning, implementation management, promotion, and application of the World Expo Science and Technology Action Plan. He has conducted exchanges and cooperation with the German University of Technology Berlin, the University of East Anglia in the UK, Japan Construction Engineering Corporation, the Italian Federation for Waste Plastic Recycling, and Thailand Green Rubber. Served as the Deputy Director of the Department of Chemistry (1996-1999), Executive Deputy Director of the Training Center of Higher Technical College (2000-2001), and Deputy Dean of the School of Environmental Science and Engineering (2003-2010), responsible for teaching, research, training, and graduate management work. Currently serving as the Deputy Director of the Science and Technology Department of Tongji University (2010-2017), responsible for industry and university research cooperation and the service and management of scientific and technological achievements. Published over 200 research papers in mainstream academic journals both domestically and internationally in this field of expertise; Editor in chief/co-editor of 10 academic monographs and textbooks; Apply for more than 20 authorized patents.



INTRODUCTION OF KEYNOTE SPEAKER



Prof. Dimitrios Karamanis

University of Patras, Greece

Transitioning to climate-neutral cities: From zero-emission buildings to urban decarbonization

Abstract: To mitigate climate change and keep the mean temperature increase lower than 1.5°C compared to preindustrial levels, full decarbonization is urgently needed with the massive deployment of renewable energy sources. In this context, urban photovoltaics and their building integration (BIPV) are key component in the proposed actions of IPCC and a step forward to distributed energy systems with high contribution from buildings becoming prosumers. However, the effectiveness of BIPV implementation is influenced by diverse bioclimatic conditions. In this context, a critical climate-related BIPV characterization across the globe, consisting of a comprehensive assessment of BIPV performance has been performed, taking into account global horizontal irradiation (GHI) and local environmental parameters. Moreover, moving beyond the selfsufficient and self-consumption concepts in electricity generation, positive energy sharing within local communities could overcome the barriers in BIPV deployment and support energy equality and accessibility according to SDG7. In this direction, the SERAS concept (sufficiency, efficiency, renewables and sharing) in BIPV deployment will be presented and the emerging needs towards carbon neutral cities will be discussed.

Biography: Professor of Alternative Energy Sources at the University of Patras leading the group of Renewable Energy Sources and Cool Environment. He studied Physics at the University of Ioannina (1986-1990) where he submitted his doctoral thesis (1990-1997). With Postdoctoral Fellowships at CEN Bordeaux (Marie Curie 1999-2001) and University of Ioannina (Marie Curie 2001-2002 and until 2008), Prof. Karamanis has thirty-four years of research experience in the fields of alternative energy sources with special emphasis on wind and solar energy utilization technologies in the last fifteen years. Participating in competitive National and International research programs as scientific coordinator and researcher, he has published over 110 scientific papers in scientific journals, patents and chapters in books with >3600 citations and h-index 37 (Scopus). He serves as Associate Editor of Green Technologies and Sustainability (Elsevier/KeAi). Prof. Karamanis teaches courses on renewable energy sources, energy efficiency and RES applications in Departments of the Universities of Ioannina and Patras since 2006.



INTRODUCTION OF INVITED SPEAKER



Dr. Mitsuo Yoshida

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

Technical Cooperation for Formulating Waste Reduction and Minimization Plan in Municipal Solid Waste Management, A Case **Study in Palestine**

Abstract: Palestine is divided into the West Bank and Gaza Strip, with a total population of 5 million, with about 3 million in the West Bank and 2 million in the Gaza Strip. These Palestinian residents generate more than 4,000 tons of municipal waste per day, and to ensure public health and prevent environmental pollution, the waste generated must be properly treated and disposed. Since no waste incineration facilities have been introduced, the only method of final disposal of waste is landfilling, but securing land for waste landfill sites is extremely difficult due to the problems under the occupation. In addition, the remaining capacity of the existing sanitary landfill and controlled dump sites is limited. Therefore, drastic reduction of waste generation and waste minimization, are urgent issues for the Palestinian Authority. Waste management in Palestine is handled by joint service councils (JSCs), which are jointly managed by local government units (LGUs) on a governorate basis. 13 JSCs in West Bank and 2 JSCs in Gaza Strip are providing waste collection services to residents. As a result, the coverage of waste collection services is more than 94% of residents by 2023. Under these circumstances, it is necessary to formulate a Waste Reduction and Minimization Plan (WRMP) for all JSCs and LGUs to cooperate in reducing the waste generation and minimizing the disposal amount of waste. The MoLG-JICA Project was implemented against this situation from 2020 to 2024. Unfortunately, activities have been significantly restricted due to the war in the Gaza Strip and the escalation of conflicts in the West Bank from October 2023 onwards, which have made it difficult to carry out normal waste management services. This paper describes the preparation process of the WRMP formulated by the Project, provides an overview of the WRMP, and discusses lessons and future challenges.

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



INTRODUCTION OF INIVTED SPEAKER



Prof. Kei Nakagawa

Institute of Integrated Science and Technology, Nagasaki University, Japan

Time Series Analysis to Estimate Soil Water Content: A Case Study in Shimabara, Nagasaki, Japan

Abstract: Soil water content (SWC) plays a pivotal role in agriculture. The use of atmospheric data to predict soil water content in real-time will greatly facilitate agricultural management and effectively improve agricultural production. In this study, we applied an SWC model that includes three components (i.e., seasonality variations, environmental factors, and long-term trends) and used meteorological data as inputs to predict SWC at different depths (20, 40, 60, 80, and 100 cm) in a soil water content monitoring location in Shimabara, Japan. The prediction model uses singular spectrum analysis (SSA) and nonlinear least squares fitting (NLSF). This model achieved good prediction at soil depths of 20, 40, and 60 cm, and it was concluded that the soil water content in the study area had strong seasonal variations, and the impact of precipitation was stronger than that of other variables. The impact of global warming in this area is not dramatic in a short period of time. The results of this study show a promising application of the model for predicting the soil water content required in agriculture management and agricultural production.

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



Onsite Ses Wastewater Chairperson:		Environmental Engineering Materials and Sunday, Nov. 10 Room 5A<5F> 13:30-15:45 Sunday, Nov. 10
13:30-13:45	A039-A	Unraveling Microbial Community Shift and the Fate of Antibiotic Resistance Genes in Anaerobic Digester Treating Hospital Wastewater
		Bharat Manna, University of Auckland, New Zealand
13:45-14:00	A089-A	Efficient Photoelectrochemical Degradation of Ibuprofen Using a Novel NH2-MIL-53(Al)/MCOF/Titanium nanotube arrays composite
		Amila Kasun Abeysinghe, National Sun Yat-Sen University, Taiwan
14:00-14:15	A014-A	Study of the microrheology of concentrated zero-valent iron (ZVI) slurry using diffusing wave spectroscopy
		Shuyan Zhang, Tongji university, China
14:15-14:30	A051	Designing the Circular Economy for Bioconversion of Solid Decanter Palm Oil Waste to Biodiesel
		Alan Dwi Wibowo, Lambung Mangkurat University, Indonesia
14:30-14:45	A059-A	Hollow sphere CuCo2O4 as highly efficient catalyst of microwave-assisted Fenton-like reaction for water treatment
		Yejin Nam, Gwangju Institute Science and Technology, South Korea
14:45-15:00	A090-A	Z-Scheme Photocatalyst of Carbon Nitride-Modified Titania Nanotube Arrays for Photoelectrochemical Degradation of Tetramethylammonium Hydroxide
		Wu-Xing Chen, National Sun Yat-Sen University, Taiwan
15:00-15:15	A092-A	Anaerobic Degradation Pathways of Methylbenzylamine and Dimethylbenzylamine and Subsequent Nitrosamine Formation during Chloramination
		Iresha Premarathne, Institute of Environmental Engineering, National Sun Yat-Sen University, Taiwan
15:15-15:30	A106-A	Mechanism of K/Na removal from sewage sludge during hydrothermal treatment with process water recirculation: Based on machine learning and path analysis
		Minghao Jin, Huazhong University of Science and Technology, China
15:30-15:45	A034-A	Developing carbon-metal nanohybrids for the simultaneous removal of heavy metals and radionuclides from contaminated water
		Ibrahim Maamoun, Kyushu University, Japan



Onsite Session 2: Soil Pollution Control and Ecosystem Protection Chairperson: Assoc. Prof. Melanie M. Garcia, University of the Philippines Los Sunday, Nov. 10				
Banos, Philipp	oines		Room 4B<4F>	
13:30-13:45	A114	Evaluation of Surface Sediments of Mining Silted River-Marine Ecosystems in Banaybanay, Davao Oriental: Initial Step Towards Regenerative Mining		
		Melanie M. Garcia, Mapua Malayan Colleges Mir Philippines Los Banos, Philippines	ndanao/University of the	
13:45-14:00	A107-A	Zinc accumulation in Cyanotis arachnoidea C synchrotron-based techniques of XAFS, XRF and F		
		Nichanun Kutrasaeng, Mahasarakham University, T	Thailand	
14:00-14:15	A164	Innovative Soil Remediation Using Recycled Glas Natural Antifungals and Zinc Oxide	s Beads Combined with	
		Pattaranan Adulprasatporn, Wattanothaipayap sch	ool, Thailand	
14:15-14:30	A117-A	Analysis of the Current Status of Global Soil He Bibliometrics	alth Research Based on	
		Peng Hao, National Science Library, Chinese Acade	emy of Sciences, China	
14:30-14:45	A124-A	Bioprospecting Native Australian Flora for Potentia to Enhance Plant Growth	lly Beneficial Endophytes	
		Declan Watts, Department of Biotechnology and University of Technology, Australia	d Chemistry, Swinburne	
14:45-15:00	A036-A	Non-Target Analysis for Understanding the Micropollutants in River Musi, India	Spatial Distribution of	
		Madhu Kumar Kumara, Indian Institute of Technol	logy Hyderabad, India	
15:00-15:15	A711-A	Development of a VR 360 ecological system cultures and environmental conservation	for learning indigenous	
		Yi-Run Chen, National Tsing Hua University, Taiwa	n	
15:15-15:30	A042	Robinson Bayou Basin Improvement Study: Wetla Attenuation Design	and Mitigation and Flood	
		Ryan Yelton, Ecological Resource Consultants Inc.,	United States	
15:30-15:45	A171-A	Determination of Optimum NaCl Concentration for of Quinoa Using Soil Electrical Conductivity Monitor		
		Meseret Gutema, United Graduate School of Agri University, Japan	cultural Sciences, Tottori	



Onsite Session 3: Urban Environmental Planning and the Impact of Climate Change 13:30-15:45 Sunday, Nov.10				
	_	lateusz Zareba, AGH University of Krakow, Poland Room 4C<4F>		
13:30-13:45	A023	Evaluation of the Cooling Effect of Urban Green Spaces by Using Remote Sensing and Geographic Information System		
		Nebiye Musaoglu, Istanbul Technical University, Turkey		
13:45-14:00	A047-A	Study on Tokyo residents greening activities under the influence of urban heat island effect.		
		Beijia SANG, Shibaura Institute of Technology, Japan		
14:00-14:15	A049-A	Urban extreme heat zones (UEHZs) considering urban spatial characteristics		
		Hyunsu Kim, Hanyang University, Republic of Korea		
14:15-14:30	A1007	Urban Growth and Land Cover Change: Landscape Analysis of Pasig City (2014-2024)		
		Alexandra Regina Morales, De La Salle – College of St. Benilde, Philippines		
14:30-14:45	A088-A	Exploring the Preservation Model of Renfengli Historic and Cultural District from a Historic Urban Landscape Perspective		
		Zhang Qi, School of Architecture, Southeast University, China		
14:45-15:00	A189-A	Research on Street Environmental Quality Evaluation and Optimization Based on Street View Images and Machine Learning: A Case Study of the Jinan Old City		
		Yabing Xu, Shandong Jianzhu University, China		
15:00-15:15	A058-A	Sustainable Management of Natural Gas Pipeline Project in Thailand		
		Chayut Bureethan, PTT Public Company Limited, Thailand		
15:15-15:30	A1003-A	The Impact of Climate Change on Food Supply Chains: Preliminary Results from a Systematic Literature Review		
		Maria del Rosario Michel-Villarreal, University of Leeds, UK		
15:30-15:45	A146	Climate-related hazards as a factor affecting the siting of solar power plants: A case study of flooding in ASEAN		
		Brian Alan Johnson, Institute for Global Environmental Strategies, Japan		



Onsite Sessi	ion 4: Blue	Economy and Carbon Emission Reduction	13:30-15:45
Chairperson:	.o 		Sunday, Nov. 10 Room 4D<4F>
13:30-13:45	A060-A	Property Tax Policy on Mangrove Ecosystem: Sequestration in Indonesia	Promoting Blue Carbon
		Titi Muswati Putranti, Faculty of Administrativ Indonesia, Depok, Indonesia	ve Sciences, Universitas
13:45-14:00	A095-A	Understanding the perception on seagrass-associon of Bintan Island, Indonesia	ated tourism: study case
		Kevin Muhamad Lukman, Universitas Padjadjaran,	Indonesia
14:00-14:15	A097-A	Analysis on Scientific Paper and Patent Intellig Dioxide Removal (CDR) research in the Aspect of G	
		Yang Li, National Science Library, Chinese Academ	ny of Sciences, China
14:15-14:30	A001	Sustainable Economy of Freshwater Ecosystem	
		Fani Sakellariadou, University of Piraeus, Greece	
14:30-14:45	A010-A	Sustaining Ecotourism at Chilika Lagoon: Insights Preferences and Willingness to Pay	into Tourist Satisfaction,
		Rajashree Samal, Indian Institute of Technology B	Shubaneswar, India
14:45-15:00	A716	A Techno-Economic Feasibility Study on 9.9 MV Plant for Installing CO2 Capture, Compression an (A Thailand case study)	
		Piyapong Hunpinyo, King Mongkut's Universit Bangkok (KMUTNB) Bangkok, Thailand	y of Technology North
15:00-15:15	A905	Optimizing Key Parameters for Microalgae (Integrated Systems for Chlorella sp. and Scenedes	
		Rawit Siripanjachote, Mahidol University, Thailand	,
15:15-15:30	A717	Powering Southeast Asia's Renewable Energy: A P Determinants	anel VECM Exploration of
		Nurul Anwar, Department of Management, Semarang, Indonesia	Universitas Dipenogoro,
15:30-15:45	A113	Life Cycle Assessment of Injection Mold Inserts I Manufacturing	Fabricated using Additive
		Leif Oliver B. Coronado, Advanced Manufacturing Research Development Center, Philippines	g Center, Metal Industry



Onsite Session 5: Environmental Pollution Monitoring and Control Chairperson: Prof. Mikio Ishiwatari, Japan International Cooperation Agency 13:30-16:00 Sunday, Nov. 10			
(JICA), Japan	Prof. MIKIO 19	Shiwatari, Japan International Cooperation Agency Sunday, Nov. 10 Room 4A<4F>	
13:30-13:45	A020-A	Enhancing MSW Stabilization and Landfill Air Space Reclamation through Oxygenated Leachate Recirculation: Insights from Lab-Scale Bioreactor Studies	
		Arnab Ghosh, Dong-A University, Republic of Korea	
13:45-14:00	A044	Multi-Soil-Layering System Application: Eutrophication Improvement Strategy of Longtan Large Tourist Pond	
		I-Cheng Lo, Section Chief, Department of Environmental Protection, Taoyuan City Government, Taiwan	
14:00-14:15	A068	Intelligent Construction Dust Management System (ICDMS)	
		Yuan-Cheng Tsai, Section Chief, Department of Environmental Protection, Taoyuan City Government, Taiwan	
14:15-14:30	A021-A	Biochar-assisted aerobic granulation in enhanced biological treatment of landfill leachate with municipal wastewater for sustainable resource recovery: A biorefinery approach	
		Tanushree Paul, Dong-A University, Republic of Korea	
14:30-14:45	A1009-A	Study on the Effectiveness of Dispersants with the Gulf of Thailand Crude Oils: Effect of the Dispersant to Crude Oil Ratio	
		Krittiya Pornmai, Chulalongkorn University, Thailand	
14:45-15:00	A038-A	Nanoplastics from disposable paper cups and microwavable food containers	
		Ji-Won Son, Gwangju Institute Science and Technology, South Korea	
15:00-15:10	A1004-A Poster	Melatonin application as a mitigating strategy for arsenic stress amelioration and enhanced yield in rice (Oryza sativa L.)	
		Ankita Gupta, Institute of Environment & Sustainable Development, Banaras Hindu University, Varanasi, Uttar Pradesh, India	
15:10-15:20	A019-A Poster	Advances in Biochar Applications for Phosphate Removal from Wastewater: Mechanisms, Efficacy, and Environmental Implications.	
		Javokhir Eraliev, Dong-A University, Republic of Korea	
15:20-15:30	A147-A Poster	Detecting nano-particulate silver using single-particle inductively coupled plasma mass spectrometry	
		Ailing Tang, Shanghai Environmental Monitoring Center, China	

with workshops ICNEA&ACEEP

15:30-15:40	A157-A Poster	Fluorescence Fingerprint Characteristics and source analysis of Water Quality in a typical river drinking water source
		Peixuan Cheng, Shanghai Environmental Monitoring Center, China
15:40-15:50	A174 Poster	Best Practices in Promoting Operational Excellence Based on Social and Environmental Life Cycle Sustainability Principles: a Brief Case Study on Indominco Mandiri, East Kalimantan - Indonesia
		TBA, Environmental Professional, Indonesia
15:50-16:00	A175 Poster	The Journey of Implementing a Sustainable Community Empowerment-Based Environmental Management Program in the Coal Mining Industry Ahead of the Mine Closure Phase: A Case Study from Jorong Barutama Greston, South Kalimantan - Indonesia
		TBA, Environmental Professional, Indonesia



Onsite Sessi	on 6: Greer	n Economy and Sustainable Development	16:00-18:15
		i Sakellariadou, University of Piraeus, Greece	Sunday, Nov. 10 Room 5A<5F>
16:00-16:15	A008-A	The endogenous prioritisation of economic growth of decoupling as a contributing factor to the Sustainable Development Goals (SDGs)	
		Stavros Gennitsaris, University of Piraeus, Greece	
16:15-16:30	A061	Technologism, Technological Determinism, a Unsustainable Societies	nd the Cultures of
		Paul A. Barresi, Southern New Hampshire Universit	ty, USA
16:30-16:45	A045-A	Green Economy for Sustainable Growth in t Kalimantan, Indonesia	he Province of South
		Muhammad Handry Imansyah, Faculty of Econd SDGs Center, Lambung Mangkurat University, Indo	
16:45-17:00	A7002-A	Can digital finance promote low-carbon transition?	Evidence from China
		Tomoki Fujii, Singapore Management University, Si	ingapore
17:00-17:15	A708-A	Calculation of Greenhouse Gas Emission Reduction for Regional Decarbonization -Based on the LCA City's policy on introducing electric vehicles	
		HUIWEN WANG, Keiji Ujikawa, Yokohama National	University, Japan
17:15-17:30	A025	Pedaling towards Sustainability: Insights from the Implementation of Cycling Pathways for a Healthier Environment	
		Sheikh Ahmad Faiz Sheikh Ahmad Tajuddin, Unive Malaysia	rsiti Sultan Zainal Abidin,
17:30-17:45	A083-A	Ecological Resilience and Economic Shifts: Tour SolidWaste in Ladakh's Mountainous Landscape	rism, Urbanization, and
		Skalzang Dolma, Central University of Punjab, Bath	ninda, India
17:45-18:00	A713	Can green production drive competitive advantage manufacturing? A threshold panel analysis approach	
		Chatchai Khiewngamdee, Chiang Mai University, Ti	hailand
18:00-18:15	A172-A	Corporate Carbon Strategies and Government Carbon Green Recovery and Climate Action: Evi Manufacturing Firms	
		Tze San Ong, Universiti Putra Malaysia, Malaysia	



		ronmental Economics and Policy I Rosario Michel-Villarreal, University of Leeds, UK Room 4B<4F> 16:00-18:00 Sunday, Nov. 10 Room 4B<4F>
16:00-16:15	A093-A	Solving information asymmetries for biodiversity conservation – creating equitable environmental markets for `30x30'
		Andrea Chareunsy, Macquarie University, Australia
16:15-16:30	A702	Recent Reform of Corporate Environmental Information Reporting Regulation in China – A Preliminary Assessment
		Huihui Wu, Universiti Kebangsaan Malaysia, Malaysia
16:30-16:45	A7005-A	The nonlinear effect of urbanization and Industrial on water pollutant emissions
		Paravee Maneejuk, Chiang Mai University, Thailand
16:45-17:00	A704-A	Analysis of Climate and Productivity
		Kazuma Edamura, Kanagawa University, Japan
17:00-17:15	A707-A	The SEEA based EAMFP—Environmentally Adjusted Multifactor Productivity Growth for Chinese Provinces and Industries
		Siyan Yang, Yujia Zhu, Keiji Ujikawa, Yokohama National University, Japan
17:15-17:30	A081-A	From Deli to Doorstep: Exploring the Potential of Surplus Food Apps in Taiwan
		Chun-Hua Hsiao, Kainan University, Taiwan
17:30-17:45	A718	A718 What Boosts R&D Expenditure? Crucial Elements for Investment on Environmental Science and Technology in Japan
		Shinano Hayashi, Tokoha University, Japan
17:45-18:00	A7006-A	Domestic Material Consumption and Its Impact on Economic Growth and CO2 Emissions in ASEAN-5 Countries
		Woraphon Yamaka, Chiang Mai University, Thailand



Onsite Sessi	on 8: Air Q	uality and Environmental Health	16:00-18:15
Chairperson: [Or. Ibrahim I	Maamoun, Kyushu University, Japan	Sunday, Nov. 10 Room 4C<4F>
16:00-16:15	A041	Big Data Analysis of Long-term Anthropogenic and Short-term Natural Factors Influencing Air Pollution in Moderate Climate Zones: Implications for Sustainable Development	
		Mateusz Zareba, AGH University of Krakow, Poland	1
16:15-16:30	A062-A	Indoor air quality comparison in different places in low-carbon hospital – A study of a single medical center in northern Taiwan	
		Ke-Ting Pan, National Defense Medical Center, Tai	wan
16:30-16:45	30-16:45 A064-A Microplastics induce reactive oxygen species product macrophages without changes in cell viability.		production in THP-1
		Pornwipa Phuangbubpha, Silpakorn University, The	ailand
16:45-17:00	A066	Combined Hazards: Chemical and Noise Exposure and Their In Hearing Loss in the High-Risk Industry	
		Nur Faiza Abdul Razak, Universiti Kuala Lump Teknologi MARA, Malaysia	our, Malaysia; Universiti
17:00-17:15	A065-A	Detection of mercury absorption and transfer from cells in vitro	n microplastics to human
		Puretat Saetan, Silpakorn University, Thailand	
17:15-17:30	A102	Temporal Variations Health Risk Assessment Expo Northern Thailand over 5 years period (2019-2023	
		Wan Wiriya, Chiang Mai University, Thailand	
17:30-17:45	A101	Assessing the Effects of Oxidative Potential and M Human Health During Smoke Haze Episode in Nort	
		Sharjeel Shakeel, Chiang Mai University, Thailand	
17:45-18:00	A070	Risk Assessment of Carcinogenic Metals-bound development centers in Industrial City, Thailand	Dust form the Children
		Susira Bootdee, King Mongkut's University of Tele (Rayong campus), Thailand	chnology North Bangkok
18:00-18:15	A184	Assessing the Accuracy of Low-Cost Air Quality Mo Statistical Analysis and Machine Learning Method CUPI-G Device	_
		Anuva Bhowmick, Swinburne University of Technol	logy, Australia



Onsite Session 9: Waste Management and Waste Valorization Chairperson: Dr. Bharat Manna, University of Auckland, New Zealand			16:00-18:15 Sunday, Nov. 10 Room 4D<4F>
16:00-16:15	A035-A	Understanding Determination of Recycling Apps' Continuance	
		Suryati Veronika, The University of Auckland Business School, New Zealand	
16:15-16:30	A103-A	A novel method of reclaiming high-value carbon fiber from waste epoxy composite via molten salt thermal treatment	
		Yang Ren, Huazhong University of Science and Ted	chnology, China
16:30-16:45	A096	Comparative Analysis of Biochar Properties from Lemon and Kumqua Peels at Different Pyrolysis Temperatures	
		Warunee Limmun, King Mongkut's Institute of Prince of Chumphon Campus, Thailand	Technology Ladkrabang,
16:45-17:00	A159	Exploring the Potential Effects of Reduced Ammonia Nitrogen Inhibition of Dry Anaerobic Digestion through Biochar Addition	
		Chin-Pang Chu, Natioal Pingtung University of S Taiwan	Science and Technology,
17:00-17:15	A022	A Study of the Potential of Modified Lemon Myr Produce High Calorific Value Lemon Myrtle Biochar	
		Mohd Rashdan Isa, Universiti Tenaga Nasional, Ma	laysia
17:15-17:30	A104-A	Molten salt-assisted thermal treatment process for municipal solid was incineration fly ash detoxification and resource recovery	
		Sihua Xu, Huazhong University of Science and Tech	hnology, China
17:30-17:45	A098	Method development fort he quantification of urb district level	pan mining potentials at
		Luca Ettl, Technical University of Munich, Germany	,
17:45-18:00	A912	Techno-Economic Analysis of Refuse-Derived For Study on Mixed Agricultural Waste	uel Production: A Case
		Noor Intan Shafinas Muhammad, Universiti Ma Abdullah, Malaysia	laysia Pahang Al-Sultan
18:00-18:15	A128-A	Enhancing Marine Anammox Performance: The Elements and Phosphate	Essential Role of Trace
		Tharangani Nawarathna, Hiroshima University, Jap	pan



Conservatio	n	Renewable Energy Technology and Energy 16:00-18:15 Sunday, Nov. 10 Room 4A<4F>
16:00-16:15	A902	Application of Centrifuge Combined with Biodiesel Washing Machine with Biochar in Biodiesel Production
		Thatchapol Chungcharoen, King Mongkut's Institute of Technology Ladkrabang, Prince of Chumphon Campus, Thailand.
16:15-16:30	A073	Feasibility Analysis of the Adoption of Smart Bio Dryer Dome Technology in the Agricultural Community of Pacitan, Indonesia
		Ambar Pertiwiningrum, Faculty of Animal Science, Gadjah Mada University, Indonesia
16:30-16:45	A904	CFD SIMULATION FOR WIND TURBINE INSTALLATION IN AN URBAN AREA
		Jetsadaporn Priyadumkol, Mahidol University, Thailand
16:45-17:00	A906	Performance analysis of Vertical Axis Wind Turbines (VAWTs) using dynamic mesh approach: A CFD validation study
		Machimontorn Promtong, Department of Mechanical Engineering, Faculty of Engineeering, Mahidol Univerity, Thailand
17:00-17:15	A903-A	Monitoring State of Charge in a Latent Thermal Energy Storage System with a Salt Hydrate as Phase Change Material
		Galina Simonsen, SINTEF Industry, Norway
17:15-17:30	A907-A	Experimental Study of Micro-scaled Organic Rankine Cycle with Different Working Fluids on Low-temperature Heat Source for Energy Saving
		Chih-Hung Lin, National Chin-Yi University of Technology, Taiwan
17:30-17:45	A909-A	Dynamics of Industrial Energy Intensity and Policy Effectiveness: A Panel Data Approach with Regional Considerations in India
		Malavika Vipin, Indian Institute of Technology Madras, Chennai, India
17:45-18:00	A911-A	Development and experimental assessment of oil free combine absorption-compression heat pump with for high temperature applications
		Khalid Hamid, Norwegian University of Science and Technology (NTNU), Norway
18:00-18:15	A901-A	Titanium Nitride @ Nitrogen-doped Carbon Nanocage as High-performance Cathodes for Aqueous Zn-ion Hybrid Supercapacitors
		Ye Ling, The Hong Kong Polytechnic University, China



ONLINE SESSION

Online Session: Environmental Management and Sustainable Development Chairperson: Dr. Indra Firmansyah, Universitas Padjadjaran, Indonesia 10:00-12:00 Monday, Nov. 11 Room ID: 850 5135 8685				
10:00-10:15	A012	A New Railway-Driven Urban Expansion: A Numerical Study of Therm Conditions in Neighborhood Environments		
		Lidia Lazarova Vitanova, Nikken Sekkei Research Institute, Japan		
10:15-10:30	A1002	The influence of Land Tenurial Systems on Cocoa-based Agrofores adoption among Smallholder Cocoa Farmers in Eastern Ghana		
		Anna Saakwor Batsa, United Nations University, Institute for the Advanced Study of Sustainability, UNU-IAS, Japan		
10:30-10:45	A105	Effluent Quality Monitoring System for the Cement Industry		
		Rowena De Leon Dapar, University of Mindanao—Tagum College, Philippines		
10:45-11:00	A714	Methodological proposal for an optimal management of Social-Ecological Systems in relation to large-scale mining in Peru		
		Militza Dueñas, Universidad Continental, Peru		
11:00-11:15	A142-A	Science, Data, and Outreach: The Pillars of Sustainable Progress in Abu Dhabi and Beyond		
		Ahmed Baharoon, Environment Agency, Abu Dhabi, UAE		
11:15-11:30	A179	The improved effects of cloud grouping and spatial interpolation in temperature forecast correction		
		Cui Hao, Beijing Weather Forecast Center, Beijing, China		
11:30-11:45	A183	Assessment of Vegetation Cover Change Based on Remote Sensing-GIS in the Selected Coastal Areas of Bangladesh		
		Summya Sharmin, Bangladesh University of Engineering and Technology (BUET), Bangladesh		
11:45-12:00	A067	Development of MAQMS: A Micro-Scale Air Quality Monitoring System for Tagum City		
		Kristine Anne Quirante, University of Mindanao, Philippines		



Changwoo kim Gwangju Institute Science and Technology, South Korea Soobin Yang Gwangju Institute Science and Technology, South Korea

Thomas Yelton Ecological Resource Consultants, United States

Mohd Shukri Mohd Aris Universiti Teknologi MARA, Malaysia
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Bibek Luwar Centre for Education and Communication on Environment and Dvelopment,

Nepal

Rajiv Biswokarma Centre for Education and Communication on Environment and Dvelopment,

Nepal

Yu-Tzu Liu Natioal Pingtung University of Science and Technology, Taiwan

ESG & Sustainability Director of PT Indo Tambangraya Megah Tbk;

Ignatius Wurwanto President Director of PT Indominco Mandiri & PT Jorong Barutama Greston,

Indonesia

Ming Jiang Shanghai Environmental Monitoring Center, China Beijun Li Shanghai Environmental Monitoring Center, China

Mona Salem Environment Agency, Abu Dhabi, UAE

Teh Boon Heng Multimedia University, Malaysia

Huo Baoguang Systems Engineering Institute, AMS, PLA, Beijing, China Mu Ge Systems Engineering Institute, AMS, PLA, Beijing, China Su Chen Systems Engineering Institute, AMS, PLA, Beijing, China Systems Engineering Institute, AMS, PLA, Beijing, China Tang Jun Wang Xudong Systems Engineering Institute, AMS, PLA, Beijing, China Systems Engineering Institute, AMS, PLA, Beijing, China Wang Yi Jie Zhang Anhui University of Science and Technology, China Demeng Qian Anhui University of Science and Technology, China Tao He Anhui University of Science and Technology, China

Trygve Magne Eikevik Norwegian University of Science and Technology (NTNU), Norway



ONE DAY TOUR

Monday, November 11, 2024

08:00 Meet up at < TKP Garden City Osaka Ribasaidohoteru >

09:00-12:00 Visit in Uii City

(Visit route: Byodo-in Omotesando -- World Heritage Byodoin (ticket included) -- Uji bashi Bridge -- Ujigami Shrine)

12:00-13:00 Lunch Time

13:30-17:00 Visit in Kyoto City

(Visit route: Ninenzaka and Sannenzaka -- Kiyomizudera Temple (ticket included) - Nishiki Market / free time for about 40 minutes)

17:00 Back to downtown Osaka, JR Osaka-Umeda Station

NOTE:

*One Lunch and tickets of World Heritage Byodoin & Kiyomizudera Temple are already included in registration fee.

Registration closes at **5pm**, **Oct. 30** (JST, UTC+9h)

Registration fee: **150 USD** per person

The tour is not included in the regular registration of author, presenter, delegate. To join the tour, please pay via the following link and send the proof of payment to the conference secretary for confirmation. Thank you.

http://confsys.iconf.org/online-payment/890003173







Uji - City south of Kyoto known for its temple and tea

Uji (字治) is a small city situated between Kyoto and Nara, two of Japan's most famous historical and cultural centers. Its proximity to these two former capitals resulted in Uji's early development as a cultural center in its own right. At the height of political power of the Fujiwara clan in the Heian Period (710-1185), buildings such as Byodoin Temple and Ujigami Shrine (visit is included in this one-day tour), the oldest extant shrine in Japan, were contructed in Uji.

Uji is also famous for its green tea. While Kozanji Temple in Kyoto is believed to be the original site of tea cultivation in Japan, Uji's tea became known for its superior quality in the 1200s.









Kyoto - For over 1000 years the capital of Japan

Kyoto (京都, Kyōto) served as Japan's capital and the emperor's residence from 794 until 1868. It is one of the country's ten largest cities with 1.5 million inhabitants and a modern face.

Over the centuries, Kyoto was destroyed by many wars and fires, but due to its exceptional historic value, the city was dropped from the list of target cities for the atomic bomb and escaped destruction during World War II. Countless temples, shrines and other historically priceless structures survive in the city today.

NOTE

November 9-11, 2024 Osaka, Japa