



The 7th International Conference on

Advances in Civil and Ecological Engineering Research

Conference Program

July 21-24, 2025 Matsue, Japan









The Chinese Institute of Environmental Engineering, Taiwan

The 7th International Conference on Advances in Civil and Ecological Engineering Research (ACEER 2025)

CONFERENCE PROGRAM

July 21st-24th, 2025 Matsue, Japan

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Part I Conference Schedule Summary

July 21st, 2025 / Japan Standard Time (UTC+9) Location: In front of Small Hall, Kunibiki Messe

14:00-18:00 On-site Registration

Notes for registration:

- * Please show us your name or paper ID for registration.
- * Please pick up all the conference materials at the registration desk (Name Card, Conference Program, Lunch & Dinner Tickets, etc.).

July 22nd, 2025 / Japan Standard Time (UTC+9) Location: Small Hall, Kunibiki Messe

Location: Sn	nall Hall, Kunibiki Messe	
Opening Cer	remony and Keynote Speeches are chaired by:	
Emeritus Pro	f. Chih-Huang Weng, I-Shou University	
Distinguished	d Prof. Zhimin Qiang, Shanghai Jiao Tong University	
08:40-08:50	Opening & Welcome Speech	
	Prof. Emeritus Hisayoshi Hayashi , University of Tsukuba	
	Keynote Speech 1: The Roles of Urban Wetlands for Water Purification, Biological	
08:50-09:20	Conservation, and Aquatic Production: The Case of Hong Kong, South China	
00.30 07.20	Prof. Ming Hung Wong, Advisor/Research Chair Professor (Environmental	
	Science), The Education University of Hong Kong	
	Keynote Speech 2: Optimizing O ₃ -UV Process for Wastewater Advanced Treatment	
	with A Novel Mini-Fluidic Experimental System to Minimize Energy Consumption:	
09:20-09:50	Chemical Oxidation Vs. Advanced Oxidation	
	Prof. Zhimin Qiang , School of Environmental Science and Engineering, Shanghai	
	Jiao Tong University	
09:50-10:10	Group Photo	
10:10-10:30	Coffee Break	
	Keynote Speech 3: Application of Fluidized-Bed Fenton Process for Industrial	
10.20 11.00	Wastewater Treatment	
10:30-11:00	Prof. Ming-Chun Lu, Distinguished Professor, Department of Environmental	
	Engineering, National Chung Hsing University	
	Keynote Speech 4: Biochar: An Eco-Friendly and Sustainable Material for Versatile	
11:00-11:30	Applications	
11:00-11:30	Prof. Emeritus Chih-Huang Weng, Department of Civil Engineering, I-Shou	
	University	
11:30-12:20	Poster Session	
12:20-13:20	Lunch Break	
13:20-17:56	Invited Speeches Session	

July 23rd, 2025 / Japan Standard Time (UTC+9)			
Time	Schedule Location		
08:40-10:40	Student Oral Presentations Session I		
10:40-11:00	Coffee Break		
11:00-13:00	Student Oral Presentations Session II Small Hall,		
13:00-14:00	Lunch Break Kunibiki Messe		
14:00-17:00	Invited & Oral Session I: Water Treatment and		
14.00-17.00	Environmental Sciences		
14:00-17:10	Invited & Oral Session II: Structural Engineering,	Meeting Room 401,	
14.00-17.10	Geological Engineering and Sustainable City	Kunibiki Messe	
17:30-20:30	Awarding Banquet (Please gather at the entrance of	YUUSHIEN Garden in	
17:30-20:30	Kunibiki Messe)	Daikonshima	

July 24th, 2025 / Japan Standard Time (UTC+9)		
09:10	Departure from Kunibiki Messe (Please gather at the entrance of Kunibiki Messe)	
09:30-10:30	Visit Matsue Castle	
10:40-11:40	Horikawa Sightseeing Boat Ride	
11:50-12:40	Lunch Break	
13:00-15:00	Matsue Vogel Park	
15:30	Arrival at JR Matsue Station at 15:30 (Subject to no traffic delays)	

Notes: Please note that the itinerary, including the order of visits and time spent at each location, is subject to change based on actual circumstances.

Part II Keynote Speeches

Keynote Speech 1: The Roles of Urban Wetlands for Water Purification, Biological Conservation, and Aquatic Production: The Case of Hong Kong, South China



Prof. Ming Hung Wong

Advisor/Research Chair Professor (Environmental Science), The

Education University of Hong Kong

Biography: Professor Wong is a Foreign Member of the Russian Academy of Sciences, a Member of the European Academy of Sciences and Arts, and Chang Jiang Chair Professor of the Ministry of Education, China. He served as the Editor-

in-Chief of 'Environmental Geochemistry and Health' (Springer Nature) for 20 years (2002-2023). Professor Wong was the Coordinator of Central and North-East Asia of 'Regionally Based Assessment of Persistent Toxic Substances' and a Panel Member (of 3 experts) of 'Chemicals Management Issues of Developing Countries and Countries with Economies in Transition', sponsored by UNEP/GEF, during 2001-2003 and 2010-2012, respectively. His research areas included 'Environmental toxicology'; 'Ecological restoration'; and 'Resource reuse'. He has published over 850 SCI papers. In addition to his Ph.D. (Durham), he was awarded two higher Doctoral Degrees based on published papers in 1992 and 2004: DSc (Durham) and DSc (Strathclyde). Recently, he has been awarded an Honorary DSc from the Southern Federal University, Russia (31 May 2024), in recognition of his involvement as the Lead Scientist in the Mega Project on Bioremediation of Polluted Ecosystems sponsored by the Russian Government. Professor Wong is ranked 6th for 3 years and 8th for 2 years (career-long ranking) in Environmental Science according to the World's Top 2% Scientists (Stanford University, 2020-2024).

Abstract: Coastal wetlands of Hong Kong have contributed significantly to serving as an essential site for cycling of different elements, improving water quality, flood water storage, protection of erosion, biological productivity, and conservation, etc., citing Mai Po Marshes (RAMSAR site), located at the northwest of Hong Kong as an example. Urban centers generated many persistent toxic substances (PTS), including heavy metals, persistent organic pollutants, and emerging chemicals of concern due to various anthropogenic activities. More recently, wetlands have been built to enhance purifying wastewater, biological conservation, and aquatic production. This presentation focused on the most common PTS encountered in Hong Kong, their biogeochemical processes in the urban ecosystem, their removal efficiencies in different types of sewage treatment plants, and potential adverse effects on the wetland habitats, which might threaten the endangered species (e.g., blackface spoonbill) visiting the RAMSAR site. The roles of constructed wetlands for treating wastewaters (focusing on PTS), providing habitats for a wide range of animals, improving scenic values of waterways, and for environmental education in this densely populated city are reviewed. The information included in this presentation is based on the results of a few research and consultancy projects supported by the Hong Kong Research Grants Council, the Environmental Conservation Fund (ECF) of the Environmental Protection Department, and the Drainage Services Department of the Hong Kong Government.

Keynote Speech 2: Optimizing O₃-UV Process for Wastewater Advanced Treatment with A Novel Mini-Fluidic Experimental System to Minimize Energy Consumption: Chemical Oxidation Vs. Advanced Oxidation



Prof. Zhimin Qiang
School of Environmental Science and Engineering, Shanghai Jiao Tong
University

Biography: Dr. Zhimin Qiang is a distinguished professor at the School of Environmental Science & Engineering, Shanghai Jiao Tong University. He was a recipient of the National Science Fund for Distinguished Young Scholars, and had

served as the director of Drinking Water Science and Technology of Chinese Academy of Sciences, and the director of Sate Key Laboratory of Environmental Aquatic Chemistry of China. His research covers advanced treatment, green disinfection, and safe distribution of water and wastewater. Prof. Qiang has led over 40 research projects, published about 250 SCI papers (H index = 62) and 120 Chinese papers, and been recognized as a Highly Cited Researcher by Elsevier in China. He holds 20 innovation patents and has received 8 national/provincial honors and awards.

Abstract: The ozone-ultraviolet (O₃-UV) process, which has emerged for advanced treatment of the secondary effluents (SEs) of wastewater treatment plants (WWTPs), requires optimization that balances the contributions of O₃ (chemical oxidation) and hydroxyl radicals (HO $^{\bullet}$, advanced oxidation) to minimize energy consumption. In this study, a novel bench-scale mini-fluidic O₃-UV system (MFOUS) was developed, allowing for accurate determination and convenient adjustment of the key operational parameters including O₃ mass loading (ML) and UV fluence (F_p). The degradation of refractory organic compounds in the O₃-UV process, expressed by chemical oxygen demand (COD) reduction and biodegradability (i.e., ratio of biological oxygen demand (BOD) to COD) enhancement, was investigated for three typical SEs with different reactivities toward O₃. Moreover, an evaluation method for the energy consumption of the O₃-UV process was established, enabling fine optimization of operational parameters to balance the contributions of O₃ and HO $^{\bullet}$. For example, to achieve 40% of COD reduction in SE-1, the ML and F_p should be optimized to 0.340 kg m⁻³ and 0.009 einstein m⁻², respectively, resulting in the lowest energy consumption of 7.29 kWh m⁻³. Through optimizing the O₃-UV process for energy conservation, this study will help the WWTPs to achieve carbon-neutral goal in the future.

Keynote Speech 3: Application of Fluidized-Bed Fenton Process for Industrial Wastewater Treatment



Prof. Ming-Chun Lu

Department of Environmental Engineering, National Chung Hsing

University

Biography: Prof. Ming-Chun Lu is a Distinguished Professor in the Department of Environmental Engineering at National Chung Hsing University, Taiwan. He

has served as an editor for Desalination since 2024 and has been an associate editor for Sustainable Environment Research since 2015. His outstanding achievements have been widely recognized with numerous honors. These include the Platinum Award at the Taiwan Innotech Expo Invention Competition in 2023 and 2024, the prestigious Future Technology Award from the National Science and Technology Council in both years, and the Outstanding Advisor Award for College Student Research and Creativity in 2023. He also led his team to win the championship in the Net-Zero Carbon Technology International Competition hosted by the TECO Technology Foundation in 2023 and was honored with the Outstanding Engineering Professor Award by the Chinese Institute of Engineers the same year. Professor Lu's research interests encompass advanced oxidation processes for water and wastewater treatment, fluidized-bed crystallization technology for treating wastewater containing metallic and non-metallic salts, and carbon dioxide capture from flue gas. He is also an innovator in developing disinfection, deodorization, antimicrobial, and antifungal technologies, as well as oil emulsification and desulfurization techniques. His work not only addresses pressing environmental challenges but also provides sustainable solutions that drive technological advancements.

Abstract: Rapid population growth and technological advancements in various industries have led to the generation of significant volumes of wastewater requiring effective treatment. Among the available methods, advanced oxidation processes (AOPs) are highly favored due to their high efficiency, cost-effectiveness, and eco-friendly nature. These processes utilize non-selective hydroxyl radicals (•OH) to oxidize and degrade toxic pollutants in wastewater. Among the AOPs, the Fenton process has demonstrated exceptional efficacy in treating recalcitrant organic compounds. However, a key limitation of this process is the generation of large quantities of sludge, necessitating additional treatment and disposal. The fluidized-bed Fenton (FBF) process addresses this issue by crystallizing iron onto the surface of carriers within the reactor, significantly reducing sludge production.

This presentation provides a comprehensive overview of recent advancements in applying the FBF process to treat industrial wastewater. Case studies are explored across sectors such as thin-film transistor liquid crystal display manufacturing, pharmaceuticals, textiles, phenol production, refractory organics, petrochemicals, and other chemical industries. These examples underscore the potential of FBF technology to effectively reduce recalcitrant organic contaminants in wastewater. Key advantages of the FBF process over conventional Fenton-based technologies are highlighted, including improved performance, optimized operating conditions, and critical factors influencing removal efficiency. Additionally, the presentation delves into the reaction kinetics and mechanisms involved, along with the characteristics and selection of carrier materials used in the process. Finally, insights into large-scale applications of the FBF process are discussed, showcasing its viability and adaptability in addressing the challenges of industrial wastewater treatment on a broader scale.

Keynote Speech 4: Biochar: An Eco-Friendly and Sustainable Material for Versatile Applications



Emeritus Prof. Chih-Huang Weng Department of Civil Engineering at I-Shou University

Biography: Distinguished Professor Chih-Huang Weng is currently the Chairman of the Department of Civil Engineering at I-Shou University, Taiwan. He also served as Vice-President of North Kaohsiung Community University, Taiwan. He is serving as the Editor of Water (MDPI), Environmental Geochemistry and Health

(Springer), and on the Editorial Board Panel Member of Coloration Technology (Wiley). He has also served as a Guest Editor of SCI journals, such as Agricultural Water Management (Elsevier), Environmental Science and Pollution Research (Springer), and Lecture Notes in Civil Engineering. He has also organized and chaired several international conferences. Professor Weng was listed in the World's Top 2% of Scientists (Stanford University, 2021-2023). His main research interests focus on using advanced oxidation processes and adsorption to treat wastewater and bacteria inactivation, groundwater modeling, and application of electrokinetic technologies to soil remediation/sludge treatment/activated carbon regeneration.

Abstract: Biochar is a carbonaceous material derived from the partial combustion of biomass wastes. It has been recognized as a sustainable material with various beneficial applications due mainly to its unique properties, which include a large surface area and electrical conductivity, rich pore configuration, high charge density and cation exchange capacity, high pH, and surface functional groups. Over the past decade, significant research interest has been paid to its effectiveness in improving Portland cement composites in construction and soil properties, as well as the benefits of addressing emerging environmental issues. The knowledge of improving biochar's applicability to sophisticated utilization in contemporary technology-related disciplines has expanded, particularly in its potential for catalyzed applications in batteries and supercapacitors for energy storage systems. This presentation outlines conventional and emerging feedstocks in biochar production, their performance as supplementary cementitious material, and their uses in various environmental applications. Specifically, the removal of pesticides and metals by biochar derived from agricultural wastes is highlighted. The need for future research on promoting biochar in combating climate change, reducing production costs, incorporating machine learning and artificial intelligence in optimizing biochar production and functionality, and establishing an appropriate standard for biochar preparation is also discussed. By focusing on waste utilization and versatile applications, biochar is an eco-friendly material that addresses environmental challenges and promotes a circular economy.

Part III Poster Presentations

Poster Presentation Guidelines

Materials Provided by the Conference Organizer:

- Poster Board
- ➤ Adhesive Tapes or Clamps

Materials Provided by the Presenters:

- ➤ Home-Made Posters
- > Posters Printed by Conference

Requirement for the Posters:

➤ Material: not limited Size: W1200*H2100



Poster Board

Best Poster Presentation Selection Procedure

Selection Criteria:

- > Research Quality
- > Presentation Skill
- Design

Samples of Stickers





Selection Procedure:

- ➤ 4-6 volunteers will be invited from the participants to serve as the judges to review the posters (Note: Judges have no conflict of interest with the presenters).
- ➤ 3 red stickers and 3 green stickers will be provided to the judges. The red sticker stands for "Research Quality" with a value of 2 points; the green sticker stands for "Presentation Skill and Design" with a value of 1 point.
- Each judge will go around the poster session and give the stickers to the poster which he/she thinks is of high quality or well designed and well presented, please be noticed that the judge cannot give 2 red or 2 green stickers to the same poster (one red and one green sticker are acceptable).
- After the poster session, the conference secretary will count the points from each poster and ONE best poster presentation with more points will be selected. If there is a tie, the one with more red (Research Quality) stickers wins.

Nature of the Award

- This award consists of free registration to the ACEER 2026 and a certificate
- > TWO outstanding poster presenters will be selected and honored with certificates during the Awarding Banquet. The winners will be announced at the banquet and featured on the ACEER 2026 official website.

List of Posters

Time: 11:30-12:20, July 22nd, 2025 Location: Small Hall, Kunibiki Messe

-	
	Bifunctional COF/TiO2-NH2 Z-scheme photocatalysts for photocatalytic reduction of Cr(VI) and sulfamethoxazole degradation under visible light
CEE1845	irradiation
	Dr. Shou-Heng Liu, National Cheng Kung University
	Tin-based bimetallic electrodes for electrochemical nitrate reduction to
CEE1881	nitrogen gas
	Prof. Yu-Jen Shih, National Sun Yat-sen University
	Recovery as α-Al(OH) ₃ crystals from aluminum-containing water via fluidized-
CEE1887	bed homogeneous crystallization technology
	Ms. Hsin-Yu Chung, Feng Chia University
c== 1000	Impact and effective reduction of ship exhaust on air pollutants in the port area
CEE1898	determined by unmanned aerial vehicles with microsensors
	Prof. Chia-Hsiang Lai, National Formosa University
	The remediation of marine sediments containing phthalate plasticizers by
CEE1902	peracetic acid activated with <i>Sphagnum</i> peat moss-derived biochar
	Prof. Chang-Mao Hung, National Kaohsiung University of Science and Technology
	Speciation, mobility, and environmental risks of heavy metals in sewage and
CEE1912	industrial sludge: insights from sequential extraction and risk assessment
	Dr. Ming-Huang Wang, National Kaohsiung University of Science and Technology
	Reuse of municipal solid waste incinerator fly ash for autoclaved lightweight
CEE1922	concrete production with a water-washing pretreatment process
0222722	Assoc. Prof. Yi-Chieh Lai, National Kaohsiung University of Science and
-	Technology
CEE1034	Eco-innovative solutions for heavy metal pollution using bacterial cellulose-
CEE1924	1 1
	microalgae biofloc
	microalgae biofloc Dr. Yi-Sheng Tseng, National Kaohsiung University of Science and Technology
	Dr. Yi-Sheng Tseng, National Kaohsiung University of Science and Technology Prediction analysis of detached house settlement during liquefaction using the
CEE1939	Dr. Yi-Sheng Tseng, National Kaohsiung University of Science and Technology Prediction analysis of detached house settlement during liquefaction using the material point method
CEE1939	Dr. Yi-Sheng Tseng, National Kaohsiung University of Science and Technology Prediction analysis of detached house settlement during liquefaction using the material point method Mr. Yuto Mori, Chubu University
	Dr. Yi-Sheng Tseng, National Kaohsiung University of Science and Technology Prediction analysis of detached house settlement during liquefaction using the material point method Mr. Yuto Mori, Chubu University Study on the effect of electric arc furnace slag on the mechanical properties of
CEE1939 CEE1950	Dr. Yi-Sheng Tseng, National Kaohsiung University of Science and Technology Prediction analysis of detached house settlement during liquefaction using the material point method Mr. Yuto Mori, Chubu University Study on the effect of electric arc furnace slag on the mechanical properties of asphalt concrete
	Dr. Yi-Sheng Tseng, National Kaohsiung University of Science and Technology Prediction analysis of detached house settlement during liquefaction using the material point method Mr. Yuto Mori, Chubu University Study on the effect of electric arc furnace slag on the mechanical properties of asphalt concrete Ms. Yung-Lin Lin, I-Shou University
CEE1950	Dr. Yi-Sheng Tseng, National Kaohsiung University of Science and Technology Prediction analysis of detached house settlement during liquefaction using the material point method Mr. Yuto Mori, Chubu University Study on the effect of electric arc furnace slag on the mechanical properties of asphalt concrete Ms. Yung-Lin Lin, I-Shou University System dynamics simulation on intelligent underwater robots improving
	Prediction analysis of detached house settlement during liquefaction using the material point method Mr. Yuto Mori, Chubu University Study on the effect of electric arc furnace slag on the mechanical properties of asphalt concrete Ms. Yung-Lin Lin, I-Shou University System dynamics simulation on intelligent underwater robots improving marine ranching ecology
CEE1950	Prediction analysis of detached house settlement during liquefaction using the material point method Mr. Yuto Mori, Chubu University Study on the effect of electric arc furnace slag on the mechanical properties of asphalt concrete Ms. Yung-Lin Lin, I-Shou University System dynamics simulation on intelligent underwater robots improving marine ranching ecology Prof. Zhen Chen, Lingnan Normal University
CEE1950 CEE1954	Prediction analysis of detached house settlement during liquefaction using the material point method Mr. Yuto Mori, Chubu University Study on the effect of electric arc furnace slag on the mechanical properties of asphalt concrete Ms. Yung-Lin Lin, I-Shou University System dynamics simulation on intelligent underwater robots improving marine ranching ecology Prof. Zhen Chen, Lingnan Normal University Stabilization of heavy metals in industrial harbor sediment by sintering as
CEE1950	Prediction analysis of detached house settlement during liquefaction using the material point method Mr. Yuto Mori, Chubu University Study on the effect of electric arc furnace slag on the mechanical properties of asphalt concrete Ms. Yung-Lin Lin, I-Shou University System dynamics simulation on intelligent underwater robots improving marine ranching ecology Prof. Zhen Chen, Lingnan Normal University Stabilization of heavy metals in industrial harbor sediment by sintering as lightweight aggregates
CEE1950 CEE1954	Prediction analysis of detached house settlement during liquefaction using the material point method Mr. Yuto Mori, Chubu University Study on the effect of electric arc furnace slag on the mechanical properties of asphalt concrete Ms. Yung-Lin Lin, I-Shou University System dynamics simulation on intelligent underwater robots improving marine ranching ecology Prof. Zhen Chen, Lingnan Normal University Stabilization of heavy metals in industrial harbor sediment by sintering as

	Microplastics in coral reef sediments: A case study of the central reef area of
CEE1974	the Penghu islands, Taiwan
CEE1974	Assist. Prof. Chih-Feng Chen, National Kaohsiung University of Science and
	Technology
	Preliminary study of artificial intelligent control of the reverse osmosis system
CEE1975	- predicting the effluent water qualities by ANN algorithm
	Prof. Ruey-Fang Yu, National United University
	Characteristics of ambient air toxics in the vicinities of high-tech science parks
CEE1976	in Taiwan
	Prof. Jiun-Horng Tsai, National Cheng Kung University
	Innovative survey technology for asbestos-contained material in building roof
CEE1977	in Taiwan
	Prof. Tzi-Chin Chang, National Cheng Kung University
	Transports and fates of zinc oxide and silver nanoparticles in municipal
CEE1985	wastewater treatment plants
	Dr. Chih-Chi Yang, National Chi Nan University
	Promoting CO ₂ hydrogenation to formic acid via a MXene/Pd/Ni-NH ₂
CEE1990	heterostructured catalyst and visual light energy
	Ms. Yu-Hsuan Lin, National Yunlin University of Science and Technology
	Electrochemical oxidation of naproxen in aqueous solution: influence of anode
CEE1991	materials and operating parameters
	Prof. Chiung-Fen Chang, Tunghai University
	Evaluation of environmental impacts of recycled concrete aggregate in
CEE2001	highway
	Prof. Qingli Dai, Michigan Technological University
	Urban sidewalk sustainability in Manila, Philippines: a user-based assessment
CEE2003	of accessibility and satisfaction
	Dr. Geoffrey Rhoel Cruz, Mapua University
	Impact of grain for green and grassland project on ecosystem water yield in
CEE1944	Yulin Area of Loess Plateau, China
	Prof. Yinge Liu, Baoji University of Arts and Sciences

Part IV Oral Presentations

General Guidelines

- All presentation times are shown in Japan Standard Time (UTC+9);
- ♣ Duration for Invited Oral Presentation: 15 minutes including 2-3 minutes of Q&A;
- ♣ Duration for Regular Oral Presentation: 12 minutes including 1-2 minutes of Q&A;
- ♣ Duration for Student Oral Presentation: 10 minutes including 1-2 minutes of Q&A;
- ♣ All presenters are requested to reach the Session Room prior to the scheduled time and complete their presentation on time;
- ♣ Presenters should prepare Power Point or PDF Files for Presentation with Paper ID (CEE****) marked on the last page;
- 4 A signed and stamped presentation certificate will be issued after the presentation.

Oral Presentation Guidelines

Devices Provided by the Conference Organizer:

- ♣ Laptops (with MS-Office & Adobe Reader) & Projectors & Screen
- **♣** Laser Sticks
- Microphones
- Please send us the PowerPoint once it is ready and have the PPT back up in a U-disk. For presenters who do not send the PowerPoint, please save it in the laptop of the corresponding session 15 min in advance. Kindly tell the Session Chair (before the start of your session) that you are present.

Best Oral Presentation Selection Procedure

ONE best presentation will be selected from EACH Oral Session I&II and THREE Best Oral Presentations will be selected from EACH Student Oral Presentations Session I&II based on the following criteria:

- ✓ Research Quality ✓ Presentation Performance ✓ Presentation Language
- ✓ PowerPoint Design ✓ Effective Communications

Selection Procedure

Session chairs will receive evaluation forms before the session begins, and the best presentations will be determined based on their assessments.

Best Oral Presentations and Outstanding Presentation Award

- The **Best Oral Presenters** from Oral Sessions I & II, as well as the **first-place presenters** from the Student Oral Presentations Sessions I & II, will be awarded 'Best Oral Presentation' certificates and complimentary registration to ACEER 2026.
- The second- and third-place presenters from the Student Oral Presentations Sessions I & II will receive official "Outstanding Presentation" award certificates.

Invited Speeches Session

Time: 13:20-17:56, July 22nd, 2025 Location: Small Hall, Kunibiki Messe

Session Chairs:

13:20-15:20 Prof. Hyunook Kim, University of Seoul

15:50-17:56 Prof. Meng-Wei Wan, Chia-Nan University of Pharmacy and Science

Degradation of benzylamines during anaerobic biological treatment and formation of nitrosamines during subsequent chloramination Prof. Wei-Hsiang Chen, National Sun Yat-sen University			
dosimetry and enhancement pathways Prof. Mengkai Li, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences Enhanced hydrogen generation by photoelectrochemical hydrolysis of ammonia borane Prof. Ven-Ping Peng. National Sun Yat-sen University	13:20-13:35	CEE1940	treatment and formation of nitrosamines during subsequent chloramination
13:50-14:05 CEE1893 hydrolysis of ammonia borane Prof. Yen-Ping Peng, National Sun Yat-sen University	13:35-13:50	CEE1867	Organic pollutant degradation in water by vacuum ultraviolet: dosimetry and enhancement pathways Prof. Mengkai Li, Research Center for Eco-Environmental Sciences,
CEE1854 materials Prof. Wei-Fan Kuan, Chang Gung University Fabrication of high-flux asymmetric polyethersulfone (PES) membranes with perm-selectivity of nitrate ions Prof. Jenn-Fang Su, Chang Gung University Electrocatalytic nitrate conversion to dinitrogen through through bimetallic catalysts Prof. Ching-Lung Chen, Ming Chi University of Technology Remediation of trichloroethylene (TCE)-contaminated groundwater using electrochemically activated persulfate Prof. Ku-Fan Chen, National Chi Nan University Utilizing cost-effective pyrocarbon for highly efficient gold retrieval from e-waste leachate Assoc. Prof. Jinming Luo, Shanghai Jiao Tong University The optimization study of oxidative desulfurization using polyoxometalate-based phase-transfer catalysts immobilized on magnetic particles Prof. Meng-Wei Wan, Chia-Nan University of Pharmacy and Science A BIM-based study on embodied carbon analysis for building structure Assoc. Prof. Yi-Jao Chen, National University Kaohsiung Microplastics in commercial laundry detergents and 16:20-16:35 CEE1981 CEE1981	13:50-14:05	CEE1893	hydrolysis of ammonia borane
14:20-14:35 CEE1853 membranes with perm-selectivity of nitrate ions Prof. Jenn-Fang Su, Chang Gung University	14:05-14:20	CEE1854	materials
14:35-14:50 CEE1855 bimetallic catalysts Prof. Ching-Lung Chen, Ming Chi University of Technology Remediation of trichloroethylene (TCE)-contaminated groundwater using electrochemically activated persulfate Prof. Ku-Fan Chen, National Chi Nan University	14:20-14:35	CEE1853	membranes with perm-selectivity of nitrate ions
14:50-15:05 CEE1869 groundwater using electrochemically activated persulfate Prof. Ku-Fan Chen, National Chi Nan University	14:35-14:50	CEE1855	bimetallic catalysts
15:05-15:20 CEE1906 retrieval from e-waste leachate Assoc. Prof. Jinming Luo, Shanghai Jiao Tong University Coffee Break The optimization study of oxidative desulfurization using polyoxometalate-based phase-transfer catalysts immobilized on magnetic particles Prof. Meng-Wei Wan, Chia-Nan University of Pharmacy and Science A BIM-based study on embodied carbon analysis for building structure Assoc. Prof. Yi-Jao Chen, National University of Kaohsiung Microplastics in commercial laundry detergents and conditioners	14:50-15:05	CEE1869	groundwater using electrochemically activated persulfate
The optimization study of oxidative desulfurization using polyoxometalate-based phase-transfer catalysts immobilized on magnetic particles Prof. Meng-Wei Wan, Chia-Nan University of Pharmacy and Science A BIM-based study on embodied carbon analysis for building structure Assoc. Prof. Yi-Jao Chen, National University of Kaohsiung Microplastics in commercial laundry detergents and conditioners	15:05-15:20	CEE1906	retrieval from e-waste leachate
Prof. Meng-Wei Wan, Chia-Nan University of Pharmacy and Science A BIM-based study on embodied carbon analysis for building structure Assoc. Prof. Yi-Jao Chen, National University of Kaohsiung Microplastics in commercial laundry detergents and conditioners	15:20-15:50		Coffee Break
16:05-16:20 CEE1941 structure Assoc. Prof. Yi-Jao Chen, National University of Kaohsiung Microplastics in commercial laundry detergents and 16:20-16:35 CEE1981 conditioners Image: Commercial laundry CEE1981	15:50-16:05	CEE1859	polyoxometalate-based phase-transfer catalysts immobilized on magnetic particles
16:20-16:35 CEE1981 conditioners	16:05-16:20	CEE1941	structure Assoc. Prof. Yi-Jao Chen, National University of Kaohsiung
	16:20-16:35	CEE1981	conditioners

	Unraveling the radical chemistry of nitrophenols and biomass-
CEE1905	burning brown carbon in waters
	Assist. Prof. Yu Lei, Shanghai Jiao Tong University
	Investigation and assessment of a multiple liquefied site in
CEE1895	Taiwan
	Prof. Chih-Sheng Ku, I-Shou University
	A case study on groundwater recharge assessment in reservoir
CEE1878	catchments using real-time infiltration monitoring
	Asst. Prof. Shih-Hsun Chou, I-Shou University
	Recycled cement as a promising greener earth stabilizer
CEE1896	Prof. José Alexandre Bogas, Universidade de Lisboa
	<u> </u>
	Hygrothermal performance of compressed earth blocks
CEE1897	stabilised with recycled cement
	Prof. Maria da Glória Gomes, Universidade de Lisboa
	Study on sustainable utilization and microbial population
	evolution of Zn containing anaerobic digestion solution by
CEE1925	ecological restoration technology based on PBR symbiotic system
	of bacteria and algae
	Prof. Lei Feng, Shenyang Aerospace University
	CEE1895 CEE1878 CEE1896 CEE1897

Student Oral Presentations Session I

Time: 08:40-10:40, July 23rd, 2025 Location: Small Hall, Kunibiki Messe

Session Chairs:

08:40-09:40 Prof. Mengkai Li, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

09:40-10:40 Prof. Ming-Chun Lu, National Chung Hsing University

08:40-08:50	CEE1982	A systematic literature review on the life cycle assessment of seawater
		desalination technologies
		Mr. Ming-Chun Tsai, National Taipei University of Technology
		Differential Influences of hydrogen peroxide and persulfate on iron
08:50-09:00 CEE191	CFF1014	oxide-graphene oxide composite in advanced oxidation processes for
	CEE1914	acetaminophen removal and haloacetamide formation potential
		Ms. Shih-Wen Peng, National Sun Yat-sen University
		Nitrosamine-formation potential of highly used domestic
00.00 00.10	CEE1921	pharmaceuticals during photocatalytic oxidation under nitrogen
09:00-09:10	CEE1921	pollution
		Mr. Yu-Chun Tseng, National Sun Yat-sen University
		Enhancing N removal efficiency in partial nitrification-autotrophic
00 10 00 20	CEE1015	denitrification-anammox (PNADA) using sodium alginate-
09:10-09:20	CEE1917	polyallylamine immobilization combined with graphene oxide
		Mr. Yu-Lin Chen, National Sun Yat-sen University
		Development of the sulfur-based bio-carriers for autotrophic
09:20-09:30	CEE1945	denitrification
		Mr. You-Ren Yang, National Central University
		Coupled of partial denitrification and anammox for the concurrent
09:30-09:40	CEE1953	removal of ammonia, nitrate, and nitrite
		Ms. Iva Yenis Septiariva, National Central University
		Photochemical-aging of biodegradable microplastics: surface acidity
		and adsorption towards Pb(II)
09:40-09:50	CEE1964	Ms. Zi-Qing Lin, National Kaohsiung University of Science and
		Technology
		Removal and recovery of copper from wastewater using fluidized-
09:50-10:00	CEE1882	bed reactor in acidic condition with sulfide (II) as precipitant
		Mr. Charles Wijaya, National Cheng Kung University
-		Recovery of Iron(III) molybdate using fluidized bed homogenous
10:00-10:10 C		crystallization & its application in photo fenton-like degradation of
	CEE1883	reactive red 195
		Mr. Cai-Sheng Lin, National Cheng Kung University
		Application of fluidized bed homogeneous crystallization technology
10:10-10:20 CEI		for decomposition of EDTA-Cu using persulfate and recovery of
	CEE1888	Cu(II)
		Mr. Che-Yi Lien, Feng Chia University
		MI. One-II Lien, Feng Chia Oniversity

10:20-10:30	CEE1889	Removal of fluoride from wastewater as crystalline and granulated cryolite by fluidized-bed homogeneous crystallization Mr. Chun-Hsuan Su, Feng Chia University
10:30-10:40	CEE1994	RW-EDI as innovative alternative to traditional biological processes for treating wastewater containing high concentrations of NH ₄ ⁺ Ms. Haeun Oh, University of Seoul

Student Oral Presentations Session II

Time: 11:00-13:00, July 23rd, 2025 Location: Small Hall, Kunibiki Messe

Session Chairs:

11:00-12:00 Prof. Jenn-Fang Su, Chang Gung University

12:00-13:00 Prof. Ching-Lung Chen, Ming Chi University of Technology

11:00-11:10 CEE1932	Converting iron sludge to effective Fenton catalysts for the post wastewater treatment Ms. Wei-Tong Li, Yuan Ze University
11:10-11:20 CEE1933	Reclaiming fluoride from high-tech wastewater using Ca/Mg loaded biochar Ms. Zi-Ying Lu, Yuan Ze University
11:20-11:30 CEE1958	Seawater/brine mining for crystallization of magnesium hydroxide via fluidized bed homogeneous crystallization Mr. Ting-Kuan Lu, National Cheng Kung University
11:30-11:40 CEE1959	Sulfide recovery as manganese sulfide from sulfide-contained wastewater using fluidized bed homogeneous crystallization technology Mr. Guang-Chen Jheng, National Cheng Kung University
11:40-11:50 CEE1965	Ambient lithium recovery via lithium phosphate crystal growth from low-concentration synthetic wastewater Mr. Heng-Sheng Chen, National Kaohsiung University of Science and Technology
11:50-12:00 CEE1851	Biochar production from waste Sterculia foetida shell by ball milling process and its potential use for polycyclic aromatic hydrocarbons suppression Mr. Divyashakti Sureshchandra Gautam, National Kaohsiung University of Science and Technology
12:00-12:10 CEE1890	Innovative shrimp shell-derived chitosan films functionalized with jabuticaba pomace extract for pork shelf-life extension: 3D cartographic insights into foodborne microbial cells disinfection Ms. Ying-Chen Chen, National Chung Hsing University

12:10-12:20	CEE1894	Application of PLAXIS 2D in evaluating the bearing capacity of pile foundations in soft rock Mr. Kai-Yu Lin, I-Shou University
12:20-12:30	CEE1987	Smart image recognition for industrial air pollution source control Ms. Ming-Fong Yu, National Sun Yat-sen University
12:30-12:40	CEE1967	Decentralized arsenic removal and recovery from synthetic groundwater via electro-hemical synthesis of magnetite nanoparticles Mr. Tsung-Wei Tseng, National Kaohsiung University of Science and Technology
12:40-12:50	CEE1947	Advanced tree assessment on urban forest and park tree at Taiwan Mr. Hung-Kai Chen, National Taiwan University
12:50-13:00	CEE2002	Integrative approaches to carbon emissions reduction in civil engineering: framework based on digital twins, LCA, and material optimization Mr. Eiffel Vincent Manansala, Mapua University

Invited & Oral Session I: Water Treatment and Environmental Sciences

Time: 14:00-17:00, July 23rd, 2025 Location: Small Hall, Kunibiki Messe

Session Chair:

14:00-15:12 Prof. Wei-Fan Kuan, Chang Gung University

15:30-16:54 Assoc. Prof. Qian Wang, Guangdong Technion – Israel Institute of Technology

14:00-14:15	CEE1962	Evolution analysis of the Yellow River delta wetland supported by remote sensing data
		Prof. Xin Zhang, Aerospace Information Research Institute, Chinese Academy of Sciences
		Organophosphate removal from tannery wastewater by the Fenton
14:15-14:30	CEE1852	process and its combination with UV/ozonation
71112 71130		Assoc. Prof. Qian Wang, Guangdong Technion – Israel Institute of Technology
		Continuous crystallizing system on copper removal in form of copper
14:30-14:45	CEE1802	hydroxide particles from industrial electroplating wastewater in a
14.30-14.43	CEE1892	fluidized bed reactor
		Assist. Prof. Kai-Yang Chang, Feng Chia University
		Does trade liberalization contribute to sustainable tourism via
14:45-15:00	CEE1946	industrial advancement?
		Prof. Yoshihiro Hamaguchi, Hannan University
		Analysis of drought events in Taiwan using multiple remote sensing
15:00-15:12	CEE1931	indices
		Dr. Chien-Ben Chou, Central Weather Administration
15:12-15:30		Coffee Break
15:12-15:30		Coffee Break Mitigating mammalian cell cytotoxicity of chlorinated drinking
	CEE1960	
15:12-15:30 15:30-15:42	CEE1960	Mitigating mammalian cell cytotoxicity of chlorinated drinking
	CEE1960	Mitigating mammalian cell cytotoxicity of chlorinated drinking waters by advanced water treatment processes Dr. Chao Liu, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences
	CEE1960	Mitigating mammalian cell cytotoxicity of chlorinated drinking waters by advanced water treatment processes Dr. Chao Liu, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences Evaluation of hydrothermal liquefaction sequentially integrated with
15:30-15:42		Mitigating mammalian cell cytotoxicity of chlorinated drinking waters by advanced water treatment processes Dr. Chao Liu, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences
	CEE1960 CEE1942	Mitigating mammalian cell cytotoxicity of chlorinated drinking waters by advanced water treatment processes Dr. Chao Liu, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences Evaluation of hydrothermal liquefaction sequentially integrated with anaerobic digestion for resource recovery from various sludge sources
15:30-15:42		Mitigating mammalian cell cytotoxicity of chlorinated drinking waters by advanced water treatment processes Dr. Chao Liu, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences Evaluation of hydrothermal liquefaction sequentially integrated with anaerobic digestion for resource recovery from various sludge sources Dr. Chun-Ming Yen, National Kaohsiung University of Science and
15:30-15:42		Mitigating mammalian cell cytotoxicity of chlorinated drinking waters by advanced water treatment processes Dr. Chao Liu, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences Evaluation of hydrothermal liquefaction sequentially integrated with anaerobic digestion for resource recovery from various sludge sources Dr. Chun-Ming Yen, National Kaohsiung University of Science and Technology
15:30-15:42		Mitigating mammalian cell cytotoxicity of chlorinated drinking waters by advanced water treatment processes Dr. Chao Liu, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences Evaluation of hydrothermal liquefaction sequentially integrated with anaerobic digestion for resource recovery from various sludge sources Dr. Chun-Ming Yen, National Kaohsiung University of Science and Technology Challenges in managing dumpsites in Delhi and their effective
15:30-15:42		Mitigating mammalian cell cytotoxicity of chlorinated drinking waters by advanced water treatment processes Dr. Chao Liu, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences Evaluation of hydrothermal liquefaction sequentially integrated with anaerobic digestion for resource recovery from various sludge sources Dr. Chun-Ming Yen, National Kaohsiung University of Science and Technology Challenges in managing dumpsites in Delhi and their effective solutions
15:30-15:42 15:42-15:54	CEE1942	Mitigating mammalian cell cytotoxicity of chlorinated drinking waters by advanced water treatment processes Dr. Chao Liu, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences Evaluation of hydrothermal liquefaction sequentially integrated with anaerobic digestion for resource recovery from various sludge sources Dr. Chun-Ming Yen, National Kaohsiung University of Science and Technology Challenges in managing dumpsites in Delhi and their effective solutions Dr. Zavvar Kazim, Municipal Corporation of Delhi
15:30-15:42 15:42-15:54	CEE1942	Mitigating mammalian cell cytotoxicity of chlorinated drinking waters by advanced water treatment processes Dr. Chao Liu, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences Evaluation of hydrothermal liquefaction sequentially integrated with anaerobic digestion for resource recovery from various sludge sources Dr. Chun-Ming Yen, National Kaohsiung University of Science and Technology Challenges in managing dumpsites in Delhi and their effective solutions Dr. Zavvar Kazim, Municipal Corporation of Delhi Mr. Dinesh Yadav, Municipal Corporation of Delhi
15:30-15:42 15:42-15:54 15:54-16:06	CEE1942 CEE1973	Mitigating mammalian cell cytotoxicity of chlorinated drinking waters by advanced water treatment processes Dr. Chao Liu, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences Evaluation of hydrothermal liquefaction sequentially integrated with anaerobic digestion for resource recovery from various sludge sources Dr. Chun-Ming Yen, National Kaohsiung University of Science and Technology Challenges in managing dumpsites in Delhi and their effective solutions Dr. Zavvar Kazim, Municipal Corporation of Delhi Mr. Dinesh Yadav, Municipal Corporation of Delhi Assessing the potential of soil carbon sequestration through nature-
15:30-15:42 15:42-15:54	CEE1942	Mitigating mammalian cell cytotoxicity of chlorinated drinking waters by advanced water treatment processes Dr. Chao Liu, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences Evaluation of hydrothermal liquefaction sequentially integrated with anaerobic digestion for resource recovery from various sludge sources Dr. Chun-Ming Yen, National Kaohsiung University of Science and Technology Challenges in managing dumpsites in Delhi and their effective solutions Dr. Zavvar Kazim, Municipal Corporation of Delhi Mr. Dinesh Yadav, Municipal Corporation of Delhi

16:18-16:30	CEE1986	Impact of pyrolysis conditions on the polycyclic aromatic hydrocarbon profile of pineapple leaf biochar: effects of atmosphere, temperature, and heteroatom doping Dr. Jia-Wei Cheng, National Kaohsiung University of Science and Technology	
16:30-16:42	CEE2000	Balancing cost and efficiency: fuzzy multi-objective optimization of ultrasonic-assisted oxidative desulfurization for gasoline Assoc. Prof. Angelo Earvin Sy Choi, De La Salle University	
16:42-16:54	CEE1993	Environmental resilience enhancement by preparing extended- release oxidizing agent to improve the effectiveness of oxidation Dr. Yung-Dun Dai, National University of Kaohsiung	

Invited & Oral Session II: Structural Engineering, Geological Engineering and Sustainable City

Time: 14:00-17:10, July 23rd, 2025 Location: Meeting Room 401, Kunibiki Messe

Session Chair:

14:00-15:15 Prof. Jun Cao, Toronto Metropolitan University

15:30-17:09 Prof. Baochang Liu, Jilin University

14:00-14:15	CEE1955	Computational analysis of tornado disaster towards a multi-building configuration Prof. Jun Cao, Toronto Metropolitan University
14:15-14:30	CEE1857	Development of high-performance polycrystalline diamond compact cutters for oil and gas drilling Prof. Baochang Liu, Jilin University
14:30-14:45	CEE1841	Strategies for seismic rehabilitation and economic viability for resilience in Peru: evaluating disaster risk reduction programs through incremental seismic retrofitting Dr. Héctor Aroquipa Velásquez, Universidad Nacional Autónoma de Tayacaja (UNAT) MSc. Álvaro Hurtado, Universidad de Lima
14:45-15:00	CEE1929	Seismic performance of tunnel-building-bridge systems in urban environments Prof. Juan Manuel Mayoral, National University of Mexico
15:00-15:15	CEE1971	Passenger satisfaction and operational insights from Taiwan's urban electric bus deployment Prof. Liang-Chien Lee, I-Shou University
15:15-15:30		Coffee Break

Developing decision-making indicators of rain gardens for planning and design at a school campus Prof. Darn-Horng Hsiao, National Kaohsiung University of Science and Technology Watertight concrete structures for high quality and inaccessible uses: a risk-based approach to crack prevention Prof. Claus Flohrer, German Committee for Reinforced Concrete Turbulence effects of breaking waves on seabed soil response Dr. Meng-Yu Lin, Chung Yuan Christian University Influence of glue thickness and grain direction on rebar adhesion in sustainable Mengkulang Glulam structures Dr. Tengku Anita Binti Raja Hussin, SEGi University Urban obsolescence: evaluating the sustainability of the city of Manila based on urban planning and design Dr. Geoffrey Rhoel Cruz, Mapua University Revitalizing the historic urban landscape of the city of Manila through sustainable urban planning Dr. Geoffrey Rhoel Cruz, Mapua University Optimization of thermal insulation investments taking into account the economic and ecological aspects of heating and cooling Dr. Robert Dylewski, University of Zielona Góra Vernacular visions: unintended occupation and individual productions within public space Prof. Suzanne B. Dickens, Front Range Community College			
15:30-15:42 CEE1844 Prof. Darn-Horng Hsiao, National Kaohsiung University of Science and Technology Watertight concrete structures for high quality and inaccessible uses: a risk-based approach to crack prevention Prof. Claus Flohrer, German Committee for Reinforced Concrete Turbulence effects of breaking waves on seabed soil response Dr. Meng-Yu Lin, Chung Yuan Christian University Influence of glue thickness and grain direction on rebar adhesion in sustainable Mengkulang Glulam structures Dr. Tengku Anita Binti Raja Hussin, SEGi University Urban obsolescence: evaluating the sustainability of the city of Manila based on urban planning and design Dr. Geoffrey Rhoel Cruz, Mapua University Revitalizing the historic urban landscape of the city of Manila through sustainable urban planning Dr. Geoffrey Rhoel Cruz, Mapua University Optimization of thermal insulation investments taking into account the economic and ecological aspects of heating and cooling Dr. Robert Dylewski, University of Zielona Góra Vernacular visions: unintended occupation and individual productions within public space	15:30-15:42	CEE1884	
Prof. Darn-Horng Hsiao, National Kaohsiung University of Science and Technology Watertight concrete structures for high quality and inaccessible uses: a risk-based approach to crack prevention Prof. Claus Flohrer, German Committee for Reinforced Concrete Turbulence effects of breaking waves on seabed soil response Dr. Meng-Yu Lin, Chung Yuan Christian University Influence of glue thickness and grain direction on rebar adhesion in sustainable Mengkulang Glulam structures Dr. Tengku Anita Binti Raja Hussin, SEGi University Urban obsolescence: evaluating the sustainability of the city of Manila based on urban planning and design Dr. Geoffrey Rhoel Cruz, Mapua University Revitalizing the historic urban landscape of the city of Manila through sustainable urban planning Dr. Geoffrey Rhoel Cruz, Mapua University Optimization of thermal insulation investments taking into account the economic and ecological aspects of heating and cooling Dr. Robert Dylewski, University of Zielona Góra Vernacular visions: unintended occupation and individual productions within public space			_
Watertight concrete structures for high quality and inaccessible uses: a risk-based approach to crack prevention Prof. Claus Flohrer, German Committee for Reinforced Concrete Turbulence effects of breaking waves on seabed soil response Dr. Meng-Yu Lin, Chung Yuan Christian University Influence of glue thickness and grain direction on rebar adhesion in sustainable Mengkulang Glulam structures Dr. Tengku Anita Binti Raja Hussin, SEGi University Urban obsolescence: evaluating the sustainability of the city of Manila based on urban planning and design Dr. Geoffrey Rhoel Cruz, Mapua University Revitalizing the historic urban landscape of the city of Manila through sustainable urban planning Dr. Geoffrey Rhoel Cruz, Mapua University Optimization of thermal insulation investments taking into account the economic and ecological aspects of heating and cooling Dr. Robert Dylewski, University of Zielona Góra Vernacular visions: unintended occupation and individual productions within public space			Prof. Darn-Horng Hsiao, National Kaohsiung University of Science and
15:42-15:54 CEE1920 a risk-based approach to crack prevention Prof. Claus Flohrer, German Committee for Reinforced Concrete Turbulence effects of breaking waves on seabed soil response Dr. Meng-Yu Lin, Chung Yuan Christian University Influence of glue thickness and grain direction on rebar adhesion in sustainable Mengkulang Glulam structures Dr. Tengku Anita Binti Raja Hussin, SEGi University Urban obsolescence: evaluating the sustainability of the city of Manila based on urban planning and design Dr. Geoffrey Rhoel Cruz, Mapua University Revitalizing the historic urban landscape of the city of Manila through sustainable urban planning Dr. Geoffrey Rhoel Cruz, Mapua University Optimization of thermal insulation investments taking into account the economic and ecological aspects of heating and cooling Dr. Robert Dylewski, University of Zielona Góra Vernacular visions: unintended occupation and individual productions within public space			Technology
Turbulence effects of breaking waves on seabed soil response Dr. Meng-Yu Lin, Chung Yuan Christian University Influence of glue thickness and grain direction on rebar adhesion in sustainable Mengkulang Glulam structures Dr. Tengku Anita Binti Raja Hussin, SEGi University Urban obsolescence: evaluating the sustainability of the city of Manila based on urban planning and design Dr. Geoffrey Rhoel Cruz, Mapua University Revitalizing the historic urban landscape of the city of Manila through sustainable urban planning Dr. Geoffrey Rhoel Cruz, Mapua University Optimization of thermal insulation investments taking into account the economic and ecological aspects of heating and cooling Dr. Robert Dylewski, University of Zielona Góra Vernacular visions: unintended occupation and individual productions within public space		CEE1920	Watertight concrete structures for high quality and inaccessible uses:
Turbulence effects of breaking waves on seabed soil response Dr. Meng-Yu Lin, Chung Yuan Christian University Influence of glue thickness and grain direction on rebar adhesion in sustainable Mengkulang Glulam structures Dr. Tengku Anita Binti Raja Hussin, SEGi University Urban obsolescence: evaluating the sustainability of the city of Manila based on urban planning and design Dr. Geoffrey Rhoel Cruz, Mapua University Revitalizing the historic urban landscape of the city of Manila through sustainable urban planning Dr. Geoffrey Rhoel Cruz, Mapua University Optimization of thermal insulation investments taking into account the economic and ecological aspects of heating and cooling Dr. Robert Dylewski, University of Zielona Góra Vernacular visions: unintended occupation and individual productions within public space	15:42-15:54		a risk-based approach to crack prevention
Influence of glue thickness and grain direction on rebar adhesion in sustainable Mengkulang Glulam structures Dr. Tengku Anita Binti Raja Hussin, SEGi University			Prof. Claus Flohrer, German Committee for Reinforced Concrete
Influence of glue thickness and grain direction on rebar adhesion in sustainable Mengkulang Glulam structures Dr. Tengku Anita Binti Raja Hussin, SEGi University Urban obsolescence: evaluating the sustainability of the city of Manila based on urban planning and design Dr. Geoffrey Rhoel Cruz, Mapua University Revitalizing the historic urban landscape of the city of Manila through sustainable urban planning Dr. Geoffrey Rhoel Cruz, Mapua University Optimization of thermal insulation investments taking into account the economic and ecological aspects of heating and cooling Dr. Robert Dylewski, University of Zielona Góra Vernacular visions: unintended occupation and individual productions within public space	15.54 16.06	CEE1937	Turbulence effects of breaking waves on seabed soil response
16:06-16:18 CEE1847 sustainable Mengkulang Glulam structures Dr. Tengku Anita Binti Raja Hussin, SEGi University Urban obsolescence: evaluating the sustainability of the city of Manila based on urban planning and design Dr. Geoffrey Rhoel Cruz, Mapua University Revitalizing the historic urban landscape of the city of Manila through sustainable urban planning Dr. Geoffrey Rhoel Cruz, Mapua University Optimization of thermal insulation investments taking into account the economic and ecological aspects of heating and cooling Dr. Robert Dylewski, University of Zielona Góra Vernacular visions: unintended occupation and individual productions within public space	15:54-16:06		Dr. Meng-Yu Lin, Chung Yuan Christian University
Dr. Tengku Anita Binti Raja Hussin, SEGi University Urban obsolescence: evaluating the sustainability of the city of Manila based on urban planning and design Dr. Geoffrey Rhoel Cruz, Mapua University Revitalizing the historic urban landscape of the city of Manila through sustainable urban planning Dr. Geoffrey Rhoel Cruz, Mapua University Optimization of thermal insulation investments taking into account the economic and ecological aspects of heating and cooling Dr. Robert Dylewski, University of Zielona Góra Vernacular visions: unintended occupation and individual productions within public space		CEE1847	Influence of glue thickness and grain direction on rebar adhesion in
Dr. Tengku Anita Binti Raja Hussin, SEGi University Urban obsolescence: evaluating the sustainability of the city of Manila based on urban planning and design Dr. Geoffrey Rhoel Cruz, Mapua University Revitalizing the historic urban landscape of the city of Manila through sustainable urban planning Dr. Geoffrey Rhoel Cruz, Mapua University Optimization of thermal insulation investments taking into account the economic and ecological aspects of heating and cooling Dr. Robert Dylewski, University of Zielona Góra Vernacular visions: unintended occupation and individual productions within public space	16:06-16:18		sustainable Mengkulang Glulam structures
Urban obsolescence: evaluating the sustainability of the city of Manila based on urban planning and design Dr. Geoffrey Rhoel Cruz, Mapua University Revitalizing the historic urban landscape of the city of Manila through sustainable urban planning Dr. Geoffrey Rhoel Cruz, Mapua University Optimization of thermal insulation investments taking into account the economic and ecological aspects of heating and cooling Dr. Robert Dylewski, University of Zielona Góra Vernacular visions: unintended occupation and individual productions within public space			
16:18-16:30 CEE1926 Manila based on urban planning and design Dr. Geoffrey Rhoel Cruz, Mapua University Revitalizing the historic urban landscape of the city of Manila through sustainable urban planning Dr. Geoffrey Rhoel Cruz, Mapua University Optimization of thermal insulation investments taking into account the economic and ecological aspects of heating and cooling Dr. Robert Dylewski, University of Zielona Góra Vernacular visions: unintended occupation and individual productions within public space		CEE1926	
Dr. Geoffrey Rhoel Cruz, Mapua University Revitalizing the historic urban landscape of the city of Manila through sustainable urban planning Dr. Geoffrey Rhoel Cruz, Mapua University Optimization of thermal insulation investments taking into account the economic and ecological aspects of heating and cooling Dr. Robert Dylewski, University of Zielona Góra Vernacular visions: unintended occupation and individual productions within public space	16:18-16:30		· · ·
Revitalizing the historic urban landscape of the city of Manila through sustainable urban planning Dr. Geoffrey Rhoel Cruz, Mapua University Optimization of thermal insulation investments taking into account the economic and ecological aspects of heating and cooling Dr. Robert Dylewski, University of Zielona Góra Vernacular visions: unintended occupation and individual productions within public space	10110 10100		
16:30-16:42 CEE1909 through sustainable urban planning Dr. Geoffrey Rhoel Cruz, Mapua University Optimization of thermal insulation investments taking into account the economic and ecological aspects of heating and cooling Dr. Robert Dylewski, University of Zielona Góra Vernacular visions: unintended occupation and individual productions within public space			
Dr. Geoffrey Rhoel Cruz, Mapua University Optimization of thermal insulation investments taking into account the economic and ecological aspects of heating and cooling Dr. Robert Dylewski, University of Zielona Góra Vernacular visions: unintended occupation and individual productions within public space	16.20 16.40	CEE1909	•
Optimization of thermal insulation investments taking into account the economic and ecological aspects of heating and cooling Dr. Robert Dylewski, University of Zielona Góra Vernacular visions: unintended occupation and individual productions within public space	16:30-16:42		• •
16:42-16:54 CEE1934 the economic and ecological aspects of heating and cooling **Dr. Robert Dylewski, University of Zielona Góra** Vernacular visions: unintended occupation and individual productions within public space**			· · · · · · · · · · · · · · · · · · ·
Dr. Robert Dylewski, University of Zielona Góra Vernacular visions: unintended occupation and individual 16:54-17:09 CEE1998 productions within public space		CEE1934	Optimization of thermal insulation investments taking into account
Vernacular visions: unintended occupation and individual 16:54-17:09 CEE1998 productions within public space	16:42-16:54		the economic and ecological aspects of heating and cooling
16:54-17:09 CEE1998 productions within public space			Dr. Robert Dylewski, University of Zielona Góra
	16:54-17:09	CEE1998	Vernacular visions: unintended occupation and individual
			productions within public space

Video Presentations

Video Presentations are listed on http://www.academicconf.com/video?confname=aceer2025		
	Creep tests of soft rock surrounding tunnel anchors and inversion of CVISC	
CEE1870	constitutive model parameters	
	Mr. Jingyao Hu, Chongqing University	
CEE1872	Geophysical methods' perspectives into leachate's infiltration in south-west Nigeria	
CEE10/2	Dr. Theophilus Aanuoluwa ADAGUNODO, Bowen University	
CEE1874	Research on deformation and force characteristics of hexagonal tube sheet lining	
	structure of TBM tunnel in fault fracture zone	
	Mr. Sanlang Zheng, Chongqing University	
	Experimental study on the full stress-strain permeability characteristics of karst	
CEE1885	breccia of the Triassic Jialingjiang Formation	
	Mr. Taibing Liu, Chongqing University	
CEE1978	What is fault breccia? —Classification suggestions for brittle fault rocks	
	Mr. Xiangwei Kong, Guangdong Geological Survey Institute	
CEE1984	Numerical simulation of direct shear test on vetiver root-reinforced silty sand	
CEE1984	Prof. Jesús Torres Hoyer, Temuco Catholic University of Temuco	

Part V Conference Venue

Kunibiki Messe (Shimane Prefectural Convention Center)

The biggest convention center in Shimane prefecture, Kunibiki Messe, is located in the center of Matsue City. There are Exhibition Hall (4,018 sqm), Multipurpose Hall (686 sqm), International Conference Hall (510 sheets), and 19 meeting rooms.

Free Wi-Fi is available in building.



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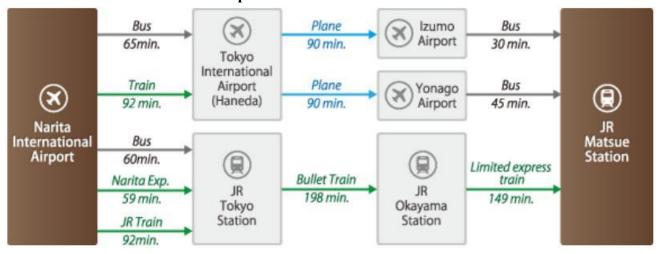
E-mail: kunibiki@kunibikimesse.jp

JR Matsue Station

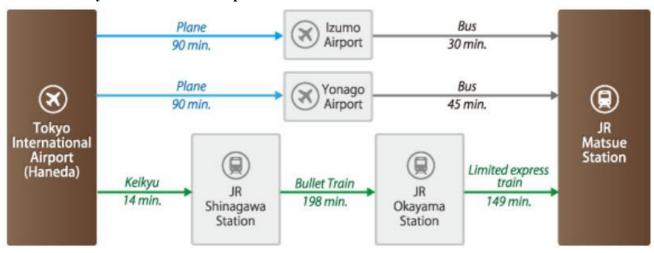
Access to JR Matsue Station:



1. From Narita International Airport



2. From Tokyo International Airport



3. From Kansai International Airport



Part VI Acknowledgements

On behalf of the ACEER 2025 Organizing Committee, we would like to take this opportunity to express our sincere gratitude to our participants. We would also like to express our acknowledgements to the Technical Program Committee members who have given their professional guidance and valuable advice as reviewers. For those who contribute to the success of the conference organization without listing the name below, we would love to say thanks as well.

Conference Chair

Dr. Chih-Huang Weng, Emeritus Professor, Department of Civil Engineering, I-Shou University

International Organizing Committee

Emeritus Prof. Hisayoshi Hayashi, University of Tsukuba

Distinguished Prof. Ming-Chun Lu, National Chung Hsing University

Distinguished Prof. Zhimin Qiang, Shanghai Jiao Tong University

Prof. Delia B. Senoro, Mapua University

Prof. Mikihisa Umehara, Toyo University

Emeritus Prof. Chih-Huang Weng, I-Shou University

Prof. Ming-Hung Wong, The Education University of Hong Kong

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Emeritus Prof. Hisayoshi Hayashi, University of Tsukuba

Prof. Mikihisa Umehara, Toyo University

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Dr. Ali Al-Balhawi, Mustansiriyah University

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Prof. Xuande Chen, University of Quebec at Rimouski

Assoc. Prof. Robert Dylewski, University of Zielona Góra

Prof. Jose Maria Goicolea, Technical University of Madrid

Prof. Marco Guerrieri, University of Trento

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Lifetime Distinguished Prof. Yao-Tung Lin, National Chung Hsing University

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Prof. Delia B. Senoro, Mapua University

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Assoc. Prof. Qian Wang, Guangdong Technion - Israel Institute of Technology

Emeritus Prof. Chih-Huang Weng, I-Shou University

Assoc. Prof. Xingzheng Wu, Hebei University

Dr. H. Sally Xie, Illinois State University

The Technical Program Committee list above is in alphabetical order by last name.

Memo

Website



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