

Joint Conference

FINAL PROGRAM

World Summit and Expo on

Civil, Architectural & Environmental Engineering

&

World Summit and Expo on

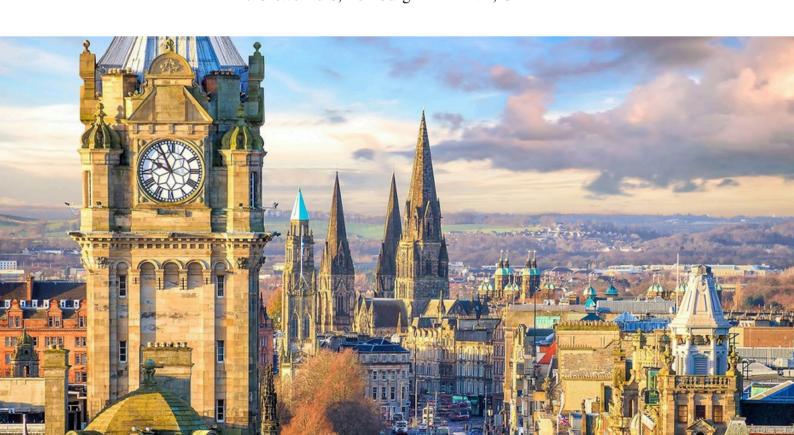
Energy and Power Engineering

August 19 - 20, 2024 | Edinburgh, UK

VENUE

Village Hotel Edinburgh

140 Crewe Rd S, Edinburgh EH4 2NY, UK





Joint Conference

Welcome

It is a great pleasure for us to invite you all to participate as a speaker, delegate, poster presenter, sponsor and/or as an exhibitor at the World Summit and Expo on Civil, Architectural, and Environmental Engineering" (WSECAEE2024) and "World Summit and Expo on Energy and Power Engineering" (WSEEPE2024) scheduled to be held from August 19 to 21, 2024, at the Village Hotel Edinburgh 140 Crewe Rd S, Edinburgh EH4 2NY, United Kingdom.

The objective of WSECAEE2024 & WSEEPE2024 is to provide a unique forum for discussion of the latest developments, refresh your knowledge and will offer plenty of networking opportunities, providing you a chance to meet and interact with leading researchers as well as most influential minds in the field of Civil and Energy Engineering.

We believe that worldwide scientists, academicians, government institutions, students, scholars, entrepreneurs in the fields will create huge opportunities by showcasing the growth and breakthrough of energy and power engineering at a time when so many new innovations and challenges are available.

The WSECAEE2024 & WSEEPE2024 is a dedicated conference where you will have the opportunity to learn about new developments and share aspects of your own work in the fields of Civil and Energy Engineering by sharing poster works or oral presentations. With high efficient and tight communication with outstanding experts worldwide, we hope productive discussions would stimulate creative ideas to translate new discoveries into better practice and application.

Finally, we hope and trust that you will find the conference and your visit to the very beautiful and exciting city of Edinburgh, in August 2024 both valuable and enjoyable!

Sincerely,
Organizing Committee
WSECAEE2024 & WSEEPE2024



Joint Conference

Organizing Committee

Conference Chair

Taha B. M. J. Ouarda, National Institute for Scientific Research, Canada

Conference Co-Chair

Haijun Ruan, Coventry University, UK

Committee Members

Pedro Raposeiro da Silva, ISEL DEC Depart. of Civil Engineering, Portugal

Thanasis Triantafillou, University of Patras, Greece

Masa Noguchi, The University of Melbourne, Australia

Meor Othman Hamzah, Jurutera Perunding Warisan, Perak, Malaysia

Pankaj Munjal, NIT, Kurukshetra, India

Aso Hajirasouli, Western Sydney University, Australia

Hélder Silva Lopes, University of Minho, Portugal

Zhang Hong, Zhejiang University, China

Haidong Shao, Hunan University, China

Žiga Turk, University of Ljubljana, Slovenia

Grace Tibério Cardoso, ATITUS Campus Passo Fundo, Brazil

Ali Hadigheh, The University of Sydney, Australia

Wenjian Pan, Huazhong Univ. of Science & Technology, China

Md. Saiful Islam, Central Queensland University, Australia

Siu-Lai Chan, Hong Kong Polytechnic University, Hong Kong

Naglaa A. Megahed, Port-Said University, Egypt

Qian Xudong, National University of Singapore, Singapore

Tan Chia Kwang, University of Malaya, Malaysia

Alessandro Ruggiero, University of Salerno, Italy

Monika Rai, *University of Stuttgart, Germany*

Huachao Yang, Zhejiang University, China

Moderator: Hideyuki OKUMURA, Kyoto University, Japan Day 1	
08:45-09:00	Onsite Registrations
09:00-09:15	Opening Remarks and Introduction
	Plenary Session
09:15-09:50	Title: Approaches for the integration of climate change and climate variability signals in environmental and civil engineering decision making Taha B. M. J. Ouarda, National Institute for Scientific Research, Canada
09:55-10:30	Title: Implicit storage: optimally transforming wind and solar into 24/365 firm power resources Richard Perez, University at Albany, USA
10:30-11:05	Title: Assessing and Managing Legacy and Emerging Contaminants in the Environment
	Danny D. Reible, Texas Tech University, USA
11:05-11:25	Coffee Break
11:25-12:00	Title: Planning and design for thermal comfort in open and semi-open urban spaces – sustainability relevance, historical timing, and technological feasibility Jianlei Niu, The Hong Kong Polytechnic University, Hong Kong
12:00-12:35	Title: Unraveling the puzzle of severe ozone pollution in China
	Hai Guo, The Hong Kong Polytechnic University, Hong Kong
12:35-13:10	Title: Building Integrated Photovoltaics in the UK: A pathway to create Net-Zero Society Tapas Mallick, University of Exeter, UK
13:10-13:15	Group Photo
13:15-14:00	Lunch Break
	Keynote Session
14:00-14:25	Title: Shared Urban Ecologies: Positioning and Regenerating Informal Dwelling Systems in Transforming Era
	Wenjian Pan, Huazhong University of Science and Technology, China
14:25-14:50	Title: Environmental Risk Framework to Advance New Plastics and the Circular Economy Margaret M. MacDonell, Argonne National Laboratory, USA
14:50-15:15	Title: Earthquake Risk in Changing Climate
	Zorana Mijic, Pennsylvania State University, USA

15:15-15:40	Title: The Benefits Of Micrgrid-Basd Smart Grid: Resiliance/Self-Healing
	Hashem Nehrir, Montana State University, USA
15:40-16:05	Title: Intelligent Asset Management Platform for Hydropower (iAMP-Hydro)
	Israel Enema Ohiemi, Trinity College Dublin, Ireland

16:05-16:25	Coffee Break
16:25-16:50	Title: Floor impact sound performance of fiber reinforced concrete slabs Geonho Hong, Hoseo University, South Korea
16:50-17:15	Title: Integrating Massive amounts of Wind and Solar in Power Grids Benjamin Kroposki, National Renewable Energy Laboratory, USA
17:15-17:40	Title: Circular economy and life cycle assessment to support innovation in energy engineering Anna Mazzi, University of Padova, Italy
17:40-18:05	Title: Japan's Energy Situation and Future Trends with Solar-GES Hybrid Systems Hideyuki OKUMURA, Kyoto University, Japan

End of Day-1

Day 2 Moderator: Nadhir Al-Ansari, Lulea University of Technology, Sweden

Keynote Session		
09:00-09:25	Title: Using scour detection systems to inform inspection prioritization ranking of bridge populations subject to extreme climate events	
	Myra Lydon, University Of Galway, Ireland	
Invited Session		
09:25-09:45	Title: Pathways To Decarbonise An Oil Exporting Country Pericles Pilidis, Cranfield University, UK	
09:45-10:05	Title: Collapse of composite members in coiled tubing: material failure or buckling? Oleksandr Menshykov, University of Aberdeen, UK	
10:05-10:25	Title: A Framework to Evaluate the Energy Efficiency Measures (EEMs) For Residential Sector in the Hot Arid Climate Countries and Iraq: An Intensive Review	
	Dunya Abdulazeez Gheni Aldhaher, Gazi University, Turkey	
10:05-10:25	Title: Damage Identification for Orthotropic Steel Bridge Girder Based on Wavelet Packet Permutation Entrop	
	Yutao Zhou, University of Manchester, UK	
10:25-10:45	Title: Climate-Change-Driven Migration: What this means for long-term planning Gordon Stanger, Flinders University, Australia	
10:45-11:05	Title: Artificial intelligence-empowered signal processing and structural diagnosis for metallic pipelines and other civil structures	
	Shang Li, North Dakota State University, USA	
11:05-11:25	Coffee Break	
11:25-11:45	Title: A Research on the Characterization of the Ancient City Models of the Burmese Kingdom	
	Koji Yamada, Nippon Koei Co., Ltd, Japan	
11:45-12:05	Title: Possible Solutions for Water Resources Scarcity and Climate Change in Iraq Nadhir Al-Ansari, Lulea University of Technology, Sweden	
12:05-12:25	Title: Parallel laser line scanning system for quantification of structural defects	
	SU Kai Leung, The University of Hong Kong, China	
12:25-12:40	Title: Recent Technologies of Recycling for Waste Electric Vehicle Battery by Thermal and Pyrometallurgical Processes	

Jei Pil WANG, Pukyong National University, Republic of Korea

12:40-13:00	Title: Complex models and simple results in airborne disease transmission
	James Bennett, National Institute for Occupational Safety and Health, USA

13:00-14:00	Lunch Break
14:00-14:20	Title: The economics of green hydrogen: cost analysis and future prospects
	Aleksandra Komorowska, Polish Academy of Sciences, Poland
14:20-14:40	Title: How immersion liquid cooling technology empowers electrochemical energy storage
	Xiaohong Han, Zhejiang University, China
14:40-15:00	Title: Will be updated soon
	Jeffrey Johnson, JAJ Inc, USA
15:00-15:20	Title: AI driven advanced diagnostics for extending battery lifetime
	Haijun Ruan, Coventry University, UK
15:20-15:40	Title: Design of Sustainable Electrical System for Rural Development of Small Islands
	Carina Llagas, University of the Philippines Diliman, Philippines
15:20-15:40	Title: Taiwan Hydrogen and Fuel Cell Industry Outlook and International
	Cooperation
	Meg Jo-Chen Lin, Taiwan Institute of Economic Research, Taiwan
15 40 16 40	Doctor Drogontations

15:40-16:40	Poster Presentations
P01	Title: One-part silico-manganese slag cement activated with olive pomace fly ash Dolores Eliche-Quesada, University of Jaén, Spain
P02	Title: Experimental Research For Obtaining Green Concretes By Recovery Glass Waste And Power Plant Ash
	O. Corbu, A. G. Popa, L. Anastasiu, Technical University of Cluj-Napoca, Romania
P03	Title: Horizontal Seismic Effect on the Growth of Compartment Fires
	Kuang-Chung Tsai, National Kaohsiung University of Science and Technology, Taiwan
P04	Title: Improvement of GPT's Performance for BIM Related Queries using RAG-based Information Retrieval
	Bonsang Koo, Seoul National University of Science and Technology, South Korea
P05	Title: Solar thermal heating for a feed plant
	Wei-Min Lin, National Cheng Kung University, Taiwan
P06	Title: Solar thermal heating for a feed plant
	Kung-Ming Chung, National Cheng Kung University, Taiwan
P07	Title: Activated waste clay brick dust with alternative waste-based activators: rice
	husk ash, spent diatomaceous earth and waste glass
	Dolores Eliche-Quesada, University of Jaén, Spain

Next Edition

2nd World Summit and Expo on

Civil, Architectural and Environmental Engineering

August 18-20, 2025 | Porto, Portugal

&

2nd World Summit and Expo on

Energy and Power Engineering

August 18-20, 2025 | Porto, Portugal

