

WASCON2026

Preliminary Conference Program (as of March 26th)

Please note that this program is a draft and subject to change without notice.

Day 1 Tuesday, May 19th, 2026

Venue: ACROS Fukuoka					
	Room A	Room B	Room C	Room D	Cultural Gallery
09:30-10:00	Opening Session				
10:00-12:00	Keynote Lecture 1&2				
12:00-13:40	Lunch (Venue: THE BALL ROOM, 6th Floor, ONE HOTEL FUKUOKA)				
13:40-15:10	Session A1 Cementitious materials (1)	Session B1 Cementitious materials (2)	Session C1 Carbonation & Leachability (1)	Session D1 Waste recycling and utilization (1)	
15:10-15:30	Coffee break				
15:30-17:15	Session A2 Cementitious materials (3)	Session B2 Aggregate (1)	Session C2 CCU / Decarbonization	Session D2 LCA / Digital transformation	
18:30-20:30	Welcome Party (Venue: THE BALL ROOM, 6th Floor, ONE HOTEL FUKUOKA)				

Keynote Lecture 1

Colin Hills (University of Greenwich)

Pathways for CO₂ Mineralisation and Implications for the Built Environment

Keynote Lecture 2

Minoru Fujii (National Institute for Environmental Studies, Japan)

Efficient Carbon Neutralization of Waste Treatment and Plastics Production and the Use of Digital Technology

Day 2 Wednesday, May 20th, 2026

Venue: ACROS Fukuoka					
	Room A	Room B	Room C	Room D	Cultural Gallery
09:10-12:00	Keynote Lectures 3-6				
12:00-13:40	Lunch (Venue: THE BALL ROOM, 6th Floor, ONE HOTEL FUKUOKA)				
13:40-15:15	Session A3 Cementitious materials (4)	Session B3 Aggregate (2)	Session C3 Waste recycling and utilization (2)	Session D3 Circular system	
	Mini presentations (A)-(D) for Poster Session				
15:15-16:10					Poster Session
16:10-17:40	Session A4 Cementitious materials (5)	Session B4 Practical application	Session C4 Leachability (2)	Session D4 Life cycle analysis / LCCO ₂	
18:00-18:30	Closing Session				

Keynote Lecture 3

Lisbeth M. Ottosen (Technical University of Denmark)

Reuse of Structural Concrete Components in New Buildings

Keynote Lecture 4

Rhiannon Matthias (University of Leeds)

From Extraction to Regeneration: Rethinking Sustainable Construction Through a Postcolonial Lens

Keynote Lecture 5

TBA (Ministry of Land, Infrastructure, Transport and Tourism, Japan)

DX Initiatives in the Construction Sector

Keynote Lecture 6

Chi Sun Poon (The Hong Kong Polytechnic University)

Valorisation of Waste by Accelerated Carbonation

Day 1: May 19th (Tuesday)		
Session A1	Cementitious materials (1)	Room A
Chairperson		13:40-15:10

Oral presentations

W0054	Low-Carbon Lightweight Concrete Incorporating Waste Glass Powder: Strength, Durability and Microstructure Yujie Huang (The Hong Kong Polytechnic University)	13:40-13:55
W0005	Engineering Nanosilica Aerogel from Waste Glass for Lightweight Insulating Concrete Xudong Zhao (The Hong Kong Polytechnic University)	13:55-14:10
W0011	Sustainable Utilization of Coal By-products in High-Performance Multifunctional Concrete Na Hyun Yi (Korea Railroad Research Institute)	14:10-14:25
W0107	Novel Application of Western Sydney Expansive Soils as Precursors in Alkali-Activated Expansive Soil Stabilization Mengyuan Zhu (Western Sydney University)	14:25-14:40
W0076	Synthesis and Reactivity of Low-carbon Binding Mineral Phases Shipeng Zhang (The Hong Kong Polytechnic University)	14:40-14:55

Day 1: May 19th (Tuesday)		
Session A2	Cementitious materials (3)	Room A
Chairperson		15:30-17:15

Oral presentations

W0106	Autoclaved Aerated Concrete Waste Valorization in Ettringitic Binders: Super-sulphated cement (SSC) and Metakaolin-Based Ternary Systems Nourhan Mortada (Ecominero)	15:30-15:45
W0113	Pore-Engineered Construction Materials Using Modified Biochar Razia Sultana (The Hong Kong Polytechnic University)	15:45-16:00
W0079	Application of MSWI Bottom Ash in Class F Fly Ash/Ladle Slag Based Geopolymer: Pore Structure and Thermal Behaviour Yanshuo Liu (Eindhoven University of Technology)	16:00-16:15
W0059	Soil Stabilization with Supersulfated Cements Incorporating Mechanically Activated Clay as GGBS Replacement Miguel Angel Martin-Antunes (Universidad Publica de Navarra)	16:15-16:30
W0114	Basic Oxygen Furnace (BOF) Slag Cementitious Binder Activated by Na ₄ EDTA Zhihan Jiang (Eindhoven University of Technology)	16:30-16:45
W0038	Use of Crystallization Seeds to Improve the Activation Efficiency of MgO-Based Supersulfated Binders Miguel Angel Martin-Antunes (Universidad Publica de Navarra)	16:45-17:00

Day 2: May 20th (Wednesday)		
Session A3	Cementitious materials (4)	Room A
	Mini Presentation (A)	
Chairperson		13:40-15:15

Oral presentations

W0081	Transitioning from Coal Fly Ash to Biomass Ash in Cement Production: Technical, Environmental, and Regulatory Challenges	13:40-13:55
	Martin Cyr (LMDC, Université de Toulouse)	
W0043	Screening Secondary Resources from Critical Mineral Extraction for Valorised Application	13:55-14:10
	Anshumali Mishra (University of Oulu)	
W0025	Performance-Based Assessment of Alkali-Activated Concrete Durability in Chloride Environments	14:10-14:25
	Arnaud Castel (University of Technology Sydney)	
W0058	Reactivity of Hydrogen-Based DRI–EAF Slag	14:25-14:40
	Marvin Liedtke (Eindhoven University of Technology)	
W0024	Activation of Basic Oxygen Furnace Slag	14:40-14:55
	Katrin Schollbach (Eindhoven University of Technology)	

Mini presentations

W0017	Evolution of the Mechanical and Intrinsic Properties of Quaternary Eco-Mortars Based on Carbonated Alkaline Waste	14:55-14:57
	Moreno-Reyes, A. M. (Eduardo Torroja Institute of Construction Science)	
W0030	Assessment of Particle Size Reduction Limits in CDW Grinding for Cement Substitution	14:57-14:59
	Hernan Anticoi (Universitat Politècnica de Catalunya)	

W0094	Thermal Enhancement of By-Product-Based Magnesium Phosphate Cements Using Microencapsulated Phase Change Materials	14:59-15:01
Joan Formosa (Universitat de Barcelona)		
W0052	Microcapsules Developed from Plastic Waste to Store Thermal Energy in Alternative Cements	15:01-15:03
Jessica Giro-Paloma (Universitat de Barcelona)		
W0046	Assessment of MSWI Bottom Ash Fractions as Sustainable Supplementary Cementitious Materials	15:03-15:05
Josep Maria Chimenos (Universitat de Barcelona)		
W0048	Assessment of Mechanically Activated Volcanic Ash as Supplementary Cementitious Material	15:05-15:07
Jofre Mañosa (Universitat de Barcelona)		
W0122	Improved Foamed Glass Using Carbonated Recycled Concrete Powder as a Foaming Agent	15:07-15:09
Weiyl Ji (The Hong Kong Polytechnic University)		

Day 2: May 20th (Wednesday)		
Session A4	Cementitious materials (5)	Room A
Chairperson		16:10-17:40

Oral presentations

W0060	Valorization of Low-Grade MgO and Activated Clays in Magnesium Potassium Phosphate Cements: Fresh-State and Long-Term Performance Joan Formosa (Universitat de Barcelona)	16:10-16:25
W0077	Influence of Low-Grade MgO By-product on the Formation and Properties of Basic Magnesium Sulfate Cement Juan Camilo Adrada Molano (University of São Paulo)	16:25-16:40
W0047	Valorization of Mechanically Activated Water Treatment Sludge as a Sustainable Cement Replacement Jofre Mañosa (Universitat de Barcelona)	16:40-16:55
W0116	Valorization of Marble Waste Rock for Low-CO ₂ High Belite Cement Production Alaeddine Ben Tarzi (Luleå University of Technology)	16:55-17:10
W0034	Advantages of Combining Fines from Demolition and Concrete Slurry Waste as Supplementary Cementitious Materials Pura Alfonso (Universitat Politècnica de Catalunya)	17:10-17:25

Day 1: May 19th (Tuesday)		
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Session B1	Cementitious materials (2)	Room B
Chairperson		13:40-15:10

Oral presentations

W0092	Thermal–Mechanical Process for Recovering High-Quality Recycled Concrete Powder Tuan Ngoc Nguyen (The University of Melbourne)	13:40-13:55
W0016	Reuse of Plant Materials in the Preparation of Eco-Mortars with Low Thermal Conductivity Ajo, A. (Complutense University of Madrid)	13:55-14:10
W0062	Effects of Intense Hot Weather Periods on Fresh Properties and Hydration Heat of High Volume GGBFS Blended Cement Concrete Kyosei Kawano (Oita University)	14:10-14:25
W0105	Effects of Ground Rice Husk on the Density and Yield of 3D Printable Structural–Thermal Insulating Concrete Tolegenova Aigerim (Satbayev University)	14:25-14:40
W0007	Valorization of Singapore Waste Water Treatment Sludge & Marine Clay as SCM: Influence of Calcination Temperature on Hydration and Strength Development Zihui Zhan (National University of Singapore)	14:40-14:55
W0088	Assessment of Hydration, Strength, and Microstructure of BCSA Cement Derived from NMP and Waste Clays Wafaa Borja (University of Leeds)	14:55-15:10

Day 1: May 19th (Tuesday)

Day 1: May 19th (Tuesday)		
Session B2	Aggregate (1)	Room B
Chairperson		15:30-17:15

Oral presentations

W0065	CO ₂ -Activated Slag Shell Encapsulation of Phase Change Aggregates for Leakage Control and Strength Enhancement Ewald Kuoribo (The Hong Kong Polytechnic University)	15:30-15:45
W0072	Two-Step Carbonation-Alkali Activation Synthesis of High-Strength Artificial Aggregates from Municipal Solid Waste Incineration Bottom Ash and Steel Slag Zhenlin Li (The Hong Kong Polytechnic University)	15:45-15:00
W0039	Mitigating Explosive Spalling in High-Strength Lightweight Concrete Using Sustainable Cold-Bonded Core-Shell Aggregates Shenyi Lu (The Hong Kong Polytechnic University)	15:00-15:15
W0053	Multi-Scale Design of Core-Shell Lightweight Aggregates for High-Modulus Lightweight Concrete Xi Chen (The Hong Kong Polytechnic University)	15:15-15:30
W0112	Experimental Investigation on the Bond-Slip Behavior of Lightweight Aggregate Concrete Containing Pelletized Rice Husk Ash Raghava Kumar Vanama (National Institute of Technology Tiruchirappalli)	15:30-15:45
W0109	Performance of Low-Carbon Ternary Cement Concrete with Cold-Bonded Rice Husk Ash Aggregates Against Chloride Ingress Venkata Naresh Kopuru (National Institute of Technology Tiruchirappalli)	15:45-16:00

Day 2: May 20th (Wednesday)

Session B3	Aggregate (2)	Room B
	Mini Presentation (B)	
Chairperson		13:40-17:15

Oral presentations

W0018	The Effect of Recycled Aggregate Replacement Content on Mechanical Properties and Durability of Fly Ash/Slag-Based Geopolymer Concrete Yasutaka Sagawa (Kyushu University)	13:40-13:55
W0020	Performance Evaluation and Optimisation of Carbonated Fine Recycled Concrete Aggregate in Sustainable Concrete Chao Qun Lye (National University of Singapore)	13:55-14:10
W0083	Influence of Quality of Recycled Aggregate Produced from Returned Ready-mixed Concrete and Sludge on the Strength and Carbonation Rate Coefficient of Concrete Yoshitada Akiyoshi (Oita University)	14:10-14:25
W0004	Practical Prediction Models for the Deformation-Related Properties of Recycled Aggregate Concrete Yue Geng (Harbin Institute of Technology)	14:25-14:40
W0006	Upcycling Autoclaved Aerated Concrete (AAC) Waste in Thermal Insulative Cement Mortars for Industry Adoption Bing Lu (Singapore Polytechnic)	14:40-14:55

Mini presentations

W0084	Performance Investigation of Asphalt Mixtures with Recycled Thermosetting Plastic as a Mineral Filler Substitute Shuguang Hou (Nanjing Tech University)	14:55-14:57
W0111	Mechanical Properties of Asphalt Mixtures Mixing Agricultural Waste Plastic Riku Yotsumoto (Fukuoka University)	14:57-14:59

W0045	Development of Alkali-Activated Binders from MSWI Bottom Ash for Sustainable Street Furniture and Paving: A Circular Economy Approach	14:59-15:01
	Josep Maria Chimenos (Universitat de Barcelona)	
W0012	Development of Eco-Efficient Engineering Cementitious Composites Incorporating Rice Husk Ash and Recycled PLA Fibers	15:01-15:03
	Eloy Asensio (Eduardo Torroja Institute for Construction Sciences)	
W0064	Supersulfated Cement Mortars with Rice Husk Ash as Partial Replacement of GGBS	15:03-15:05
	Miguel Angel Martín-Antunes (Universidad Publica de Navarra)	
W0067	Mechanical, Chemical and Thermal Activation of Diatomaceous Earth to Enhance Reactivity as an Aluminosilicate Precursor for Eco-Efficient Low-Carbon Cements	15:05-15:07
	Miguel Angel Martín-Antunes (Universidad Publica de Navarra)	
W0104	Enhancing the Physical and Mechanical Properties of Thermal Insulation Materials Produced from Agricultural Waste	15:07-15:09
	Akmalaiuly Kenzhebek (Satbayev University)	
W0132	Assessment of the Volumetric Expansion Behaviour of Artificial Aggregates from Stainless Steel Slag Treatment	15:09-15:11
	Giulia Costa (University of Rome Tor Vergata)	

Day 2: May 20th (Wednesday)		
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Session B4	Practical application	Room B
Chairperson		16:10-17:40

Oral presentations

W0001	Influence of a Lignosulfonate-Based Additive on the Deformation Characteristics of a Swedish-Designed Gravel Wearing Course	16:10-16:25
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Dina Kuttah (The Swedish National Road and Transport Research Institute)

W0026	Rubber Asphalt Mixture for Sustainable Pavement Reconstruction: Advancements in Materials and Performance Evaluation	16:25-16:40
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Zhanping You (Michigan Technological University)

W0055	CO ₂ Uptake Enhancement in MgO-Based Cements by Carbonation-Induced Reactions Promoted by Nucleation Seeds	16:40-16:55
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Adriano Galvão Souza Azevedo (University of São Paulo)

W0070	CO ₂ Mineralisation in Biomass-to-Energy Waste: A Circular CCU Approach	16:55-17:10
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Nimisha Tripathi (University of Greenwich)

W0051	Use of Nickel Slag in Bottom Structures for Hazardous Waste Storage	17:10-17:25
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Minna Sarkkinen (Tapojärvi)

Day 1: May 19th (Tuesday)		
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Session C1	Carbonation & Leachability (1)	Room C
Chairperson		13:40-15:10

Oral presentations

W0010	Carbonation Modelling and Leachability Evaluation of Basic Oxygen Furnace Slag	13:40-13:55
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Sanjeev Kumar (Jinan University)

W0014	Assessment of Carbonated Incinerator Bottom Ash (IBA) Leaching and Ecotoxicity for Sustainable Ocean Reclamation	13:55-14:10
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Gao Shengya (The Hong Kong Polytechnic University)

W0013	Formation of Carbonates in Incineration Fly Ash after Carbonation Treatment and the Impact on Required Amount of Chelating Agent	14:10-14:25
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Haruna Kochi (Fujita Corporation)

W0080	Evaluation of Toxic Elements Contents of Woody Biomass Bottom Ash for Roadbed Material Utilization	14:25-14:40
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Minori Ike (Kyoto University)

W0098	Elemental Release Mechanisms from Sewage Sludge Molten Slag in Soil Using Column Leaching Tests	14:40-14:55
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Takumi Yuzurihara (Meiji University)

W0008	Exploration of the Interactions and Effects of the Hydration Process of Geopolymers on Oxyanion Solidification/Stabilization (S/S)	14:55-15:10
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Bo-Cheng You (Kyoto University)

Day 1: May 19th (Tuesday)

Session C2	CCU / Decarbonization	Room C
Chairperson		15:30-17:15

Oral presentations

W0085	Development of Engineered Sustainable Pavement Layers Using Recycled Crushed Concrete and Recycled Glass Blends Dulanja Dayaratne (Swinburne University of Technology)	15:30-15:45
W0117	Testing and Modeling of Early Strength, Heat, and Temperature Development in Low-Carbon Concrete Containing Volcanic Ash David Cotes-Prieto (Luleå University of Technology)	15:45-16:00
W0093	Testing of Amine-Based Indirect Carbonation Processes for the Valorisation of Fine-Grained Products of EAF Steel Slag Treatment Alessandra Masi (University of Rome Tor Vergata)	16:00-16:15
W0073	Evaluation of Paper Sludge Ash as an Alternative Hydraulic Road Binder for Soil Stabilization Imane Krimi (INSA de Strasbourg)	16:15-16:30
W0036	Application of Calcined Paper Sludge as a Hydraulic Road Binder Quentin Nestelhut (Université de Lorraine)	16:30-16:45
W0002	Dual Carbon Reduction through CO ₂ -Derived Reactive Seeding for Performance Enhancement in Low-Carbon Cementitious Systems Shuangshuang Liu (The Hong Kong Polytechnic University)	16:45-17:00
W0003	Development of Carbon-Reduced Foam Concrete toward Higher Performance by Synergistic Design of Matrix and Pore Structure Dingqiang Fan (The Hong Kong Polytechnic University)	17:00-17:15

Day 2: May 20th (Wednesday)

Session C3	Waste recycling and utilization (2)	Room C
	Mini Presentation (C)	
Chairperson		13:40-15:15

Oral presentations

W0063	Circular Use of Red Mud and Fly Ash in Alkali-Activated Materials: Leaching and Ecotoxicity Assessment Eva Cifrian (University of Cantabria)	13:40-13:55
W0097	Phosphorus and Aluminum Release from Sewage Sludge Molten Slags with Different Aluminum Content Nodoka Matsumura (Meiji University)	13:55-14:10
W0099	Citric Acid-Extractable Phosphorus and Potassium Phases in Molten Slag Mixed with Sewage Sludge and K ₂ CO ₃ Muku Takatera (Meiji University)	14:10-14:25
W0082	Turning Quarry Dust into a Low-Cost Adsorbent for Efficient Phosphate Removal from Wastewater Onchanok Juntarasakul (Chulalongkorn University)	14:25-14:40
W0028	Development of New Paints Incorporating Microencapsulated Phase Change Materials (MPCM) for Sustainable Construction Applications Jessica Giro-Paloma (Universitat de Barcelona)	14:40-14:55

Mini presentations

W0120	Impregnate Carbonation: CO ₂ -Guided In Situ Growth of Robust Superhydrophobic Structures on Concrete Surfaces Long Jiang (The Hong Kong Polytechnic University)	14:55-14:57
W0121	Sonochemistry-Driven Accelerated Carbonation of Solid Wastes: Structural Alteration and Mass Transfer Boost Zhenjiang Gu (The Hong Kong Polytechnic University)	14:57-14:59

W0095	The Elucidation of Mechanism of Lead during Accelerated Weathering Treatment of Municipal Solid Waste Incineration Bottom Ash	14:59-15:01
	Masaki Takaoka (Kyoto University)	
W0108	Mechanical Properties and Leaching Characteristics of Dredged Clay Stabilized with Paper Sludge Ash	15:01-15:03
	Manato Mori (Fukuoka University)	
W0096	The Effect of the Water-Cooling Process during Ash Discharge from Municipal Solid Waste Incineration on Formation of Insoluble Chloride	15:03-15:05
	Hitomi Matsumoto (Kyoto University)	
W0015	Study on the Release of Organic Pollutants from Organic Soils Treated with Alkaline Stabilizers	15:05-15:07
	Lincoln W. Gathuka (National Institute for Environmental Studies, Japan)	
W0110	PFCAs and PFSA Contents in Incineration Bottom Ash in Japan	15:07-15:09
	Satoshi Mizutani (Osaka Metropolitan University)	
W0029	Recovery of Copper from Waste Wire Harness Using Molten Alkali Hydroxides	15:09-15:11
	Takaaki Wajima (Chiba University)	

Day 2: May 20th (Wednesday)		
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Session C4	Leachability (2)	Room C
Chairperson		16:10-17:40

Oral presentations

W0022	Bottom Ash in Cement: Influence on Leaching of Trace Elements	16:10-16:25
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Gudny Okkenhaug (Norwegian Geotechnical Institute)

W0119	Risk-Based Evaluation of the Environmental Compatibility of Products from Advanced Treatment of APC Residues from Waste-to-Energy Plants	16:25-16:40
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Giulia Costa (University of Rome Tor Vergata)

W0031	Chromium Leaching from Returned and Crushed Concrete Aggregates and Determination of Effective Diffusion Coefficients	16:40-16:55
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Mitali Nag (National Institute for Environmental Studies, Japan)

W0023	Reuse of Crushed Concrete Waste for Mitigation of Acid Rock Drainage and Assessment of Chromium Leaching	16:55-17:10
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Cathrine Eckbo (Norwegian Geotechnical Institute)

W0035	Behaviors of Heavy Metal Ions Confined in Porous Geopolymer from Dry to Wet States: An Atomistic Insight	17:10-17:25
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Mingxin Shi (The Hong Kong Polytechnic University)

Day 1: May 19th (Tuesday)		
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Session D1	Waste recycling and utilization (1)	Room D
Chairperson		13:40-15:10

Oral presentations

W0033	A Green Strategy for PC/ABS Blend Separation: Electrolyte-Induced Phase Separation in Solvent Recycling Cheng-Hsun Li (National Taipei University of Technology)	13:40-13:55
W0019	Mechanical Sorting of Mineral Wool Waste: Process Evaluation for Open-Loop Recycling into the Cement Industry Alena Vydrenkova (Technical University of Leoben)	13:55-14:10
W0009	Carbon Capture and Utilization through Waste Calcium Fluoride Sludge with Molten Salt Method Yi-Chien Tsai (National Cheng Kung University)	14:10-14:25
W0074	Properties of Cement Paste Incorporating Wind Turbine Blade Waste Ceren Duyal-Kulak (Eindhoven University of Technology)	14:25-14:40
W0071	Mechanical Behavior of Polyurethane-Treated Sand under Different Initial Water Content Guodong Cai (The University of Tokyo)	14:40-14:55
W0057	Proper Evaluation of Environmentally Safe Municipal Solid Waste Incineration Bottom Ash as a Material for Artificial Stone Koshiro Ikaruka (Kyushu University)	14:55-15:10

Day 1: May 19th (Tuesday)		
Session D2	LCA / Digital transformation	Room D
Chairperson		15:30-17:15

Oral presentations

W0090	Multi-Sensor Data Fusion and AI for Material Identification in Digital Models for Selective Demolition David Garcia-Estevez (TECNALIA)	15:30-15:45
W0100	Lightweight Concrete with Biomass Ash-Derived Cold-Bonded Aggregates: Resource Substitution, Life Cycle Impacts, and Environmental Safety Jiayi Lin (Dongguan University of Technology)	15:45-16:00
W0037	A Parametric Framework for Life Cycle Assessment in Early-Stage Shell and Core Design of Industrial Buildings Jade Claes (Ghent University)	16:00-16:15
W0078	Life Cycle Assessment of Resource Recycling through a Melt Separation System Utilizing Low-Grade Plastics as a Heat Source Shuta Kawakami (Kyushu University)	16:15-16:30
W0032	From Circular Economy to Smart Living: Upcycled Speakers as a Digital Solution for Indoor Air Quality Marian Serwaa Aburam (University of Florida)	16:30-16:45
W0044	Circular Inflow in the Cement Industry in Japan and Europe Takeru Sugisawa (Taiheiyo Cement Corporation)	16:45-17:00
W0102	Policy Impacts on Municipal Solid Waste Management through a System Dynamics Model: Case Study of Dhaka City Mst Ajmira Bente Jannaty (Ritsumeikan Asia Pacific University)	17:00-17:15

Day 2: May 20th (Wednesday)

Session D3	Circular system	Room D
	Mini presentation (D)	
Chairperson		13:40-15:15

Oral presentations

W0069	Pathways for CO ₂ Mineralisation and Implications for the Built Environment Colin Douglas Hills (University of Greenwich)	13:40-13:55
W0087	Tools and Methodologies for Environmental Compatibility Assessment of Materials Produced from Industrial Waste for Use in the Construction Sector Sabrina Sorlini (University of Brescia)	13:55-14:10
W0101	Survey and Discussion on Municipal Waste Incineration Bottom Ash Recycling and the Role of the Cement Industry in Japan and Europe Hirofumi Sakanakura (National Institute for Environmental Studies, Japan)	14:10-14:25
W0068	Smart Circularity: Transforming Local Waste Streams into Intelligent Building Products Patricia Njideka Kio (University of Florida)	14:25-14:40
W0103	Comparison of Heat Consumption in Cement Clinker Production: Traditional Raw Materials vs. Recycled Concrete Fines Ren Zhili (The University of Leeds)	14:40-14:55

Mini presentations

W0061	Life Cycle Assessment of a Closed-Loop Process for Reactive Magnesia Cement from LG-MgO By-Products Joan Formosa (Universitat de Barcelona)	14:55-14:57
W0049	Energy Optimization for the Preparation of Alternative Geopolymer Materials Using Oyster Shells Gabriel Dan (Polytechnic University of Catalonia)	14:57-14:59

W0118	Spatial Data as a Catalyst for Circular Construction: Mapping Coastal Waste Flows in Belize, Guatemala, and Honduras	14:59-15:01
Iwany Martinez Norales (University of Florida)		
W0050	A Performance-Based Roadmap for Characterizing Novel Sand Replacements in Cement-Based Mortars	15:01-15:03
Aditya Kaetan Ladhani (University College London)		
W0056	Circular Economy Approaches for the Treatment and Reuse of Swimming Pool Wastewater	15:03-15:05
Charlie Hutchison (University of Florida)		
W0115	Toward Low-Footprint Cement: LC3 Technology and Industrial Waste Utilization	15:05-15:07
Ayman Almutlaqah (Najran University)		

Day 2: May 20th (Wednesday)		
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Session D4	Life cycle analysis / LCCO₂	Room D
Chairperson		16:10-17:40

Oral presentations

W0089	Cement and Concrete Decarbonization Approaches: Primary and Secondary Environmental Impacts	16:10-16:25
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Daman Panesar (University of Toronto)

W0066	Evaluating the Whole Life-Cycle Carbon Reduction Benefits of Buildings under Net-Zero Building Policies in Taiwan	16:25-16:40
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Chia-Ju Yen (National Taipei University of Technology)

W0027	Construction-Stage Life Cycle Assessment of Asphalt Paving Projects: Field-Based Insights from Minnesota Demonstrations	16:40-16:55
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Zhanping You (Michigan Technological University)

W0086	Life CDW Circle Project: High Value-Added Recycled Aggregates Characterization and Use for Structural Concrete Production	16:55-17:10
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Giovanni Angelo Plizzari (University of Brescia)

W0075	Current Status and Challenges in Disaster Waste Recycling Toward Resource Circularity	17:10-17:25
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Syoji Fukuda (Kagawa University)

W0131	An AI-Ready Image Dataset for Quality Assessment of Construction and Demolition Waste from International Sites	17:25-17:40
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Auza Sanchez (everox)