

WASCON2026

Preliminary Conference Program (as of March 29th)

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 BALLROOM, 6th Floor, ONE FUKUOKA HOTEL)				
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	
17:30-18:00	ISCOWA Members Meeting (Room 608, ACROS Fukuoka)				
18:30-20:30	Welcome Party (Venue: THE BALLROOM, 6th Floor, ONE FUKUOKA HOTEL)				

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 BALLROOM, 6th Floor, ONE FUKUOKA HOTEL)				
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)		
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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 BCSCA Cement Derived from NMP and Waste Clays Wafaa Borja (University of Leeds)	14:55-15:10

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
	Sanjeev Kumar (Jinan University)	
W0014	Assessment of Carbonated Incinerator Bottom Ash (IBA) Leaching and Ecotoxicity for Sustainable Ocean Reclamation	13:55-14:10
	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
	Haruna Kochi (Fujita Corporation)	
W0080	Evaluation of Toxic Elements Contents of Woody Biomass Bottom Ash for Roadbed Material Utilization	14:25-14:40
	Minori Ike (Kyoto University)	
W0098	Elemental Release Mechanisms from Sewage Sludge Molten Slag in Soil Using Column Leaching Tests	14:40-14:55
	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
	Bo-Cheng You (Kyoto 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 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 Ángel Martín (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 Andrés Seco Meneses (Universidad Publica de Navarra)	16:45-17:00

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 1: May 19th (Tuesday)

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

Oral presentations

W0003	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
W0085	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 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 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 Martin Cyr (LMDC, Université de Toulouse)	13:40-13:55
W0043	Screening Secondary Resources from Critical Mineral Extraction for Valorised Application Anshumali Mishra (University of Oulu)	13:55-14:10
W0025	Performance-Based Assessment of Alkali-Activated Concrete Durability in Chloride Environments Arnaud Castel (University of Technology Sydney)	14:10-14:25
W0058	Reactivity of Hydrogen-Based DRI-EAF Slag Marvin Liedtke (Eindhoven University of Technology)	14:25-14:40
W0024	Activation of Basic Oxygen Furnace Slag Katrin Schollbach (Eindhoven University of Technology)	14:40-14:55

Mini presentations

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

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

Day 2: May 20th (Wednesday)

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

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)	
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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)	
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W0064	Supersulfated Cement Mortars with Rice Husk Ash as Partial Replacement of GGBS	15:03-15:05
	Andrés Seco Meneses (Universidad Publica de Navarra)	
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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 Ángel Martín (Universidad Publica de Navarra)	
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W0104	Enhancing the Physical and Mechanical Properties of Thermal Insulation Materials Produced from Agricultural Waste	15:07-15:09
	Akmalaiuly Kenzhebek (Satbayev University)	
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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)

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

Mini presentations

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

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 A4	Cementitious materials (5)	Room A
Chairperson		16:10-17:40

Oral presentations

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)	16:10-16:25
W0047	Valorization of Mechanically Activated Water Treatment Sludge as a Sustainable Cement Replacement Jofre Mañosa (Universitat de Barcelona)	16:25-16:40
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)	16:40-16:55
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 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 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 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 Daman Panesar (University of Toronto)	16:10-16:25
W0066	Evaluating the Whole Life-Cycle Carbon Reduction Benefits of Buildings under Net-Zero Building Policies in Taiwan Chia-Ju Yen (National Taipei University of Technology)	16:25-16:40
W0027	Construction-Stage Life Cycle Assessment of Asphalt Paving Projects: Field-Based Insights from Minnesota Demonstrations Zhanping You (Michigan Technological University)	16:40-16:55
W0086	Life CDW Circle Project: High Value-Added Recycled Aggregates Characterization and Use for Structural Concrete Production Giovanni Angelo Plizzari (University of Brescia)	16:55-17:10
W0075	Current Status and Challenges in Disaster Waste Recycling Toward Resource Circularity Syoji Fukuda (Kagawa University)	17:10-17:25
W0131	An AI-Ready Image Dataset for Quality Assessment of Construction and Demolition Waste from International Sites Auza Sanchez (everox)	17:25-17:40