

PROFESSIONAL SESSION 1

13:00-15:00

MAIN HALL

Chair: Prof. Park Sungyu
Prof. Taniguchi Madoka

NO.	Paper ID	PRESENTER / AFFILIATION	TITLE
1	P-1	Kim Euichoel Korea Cement Association	South Korea’s Strategic plan for achieving carbon neutrality By 2050
2	P-2	Kitagaki Ryoma Hokkaido Univ.	Fundamental Study of Comprehensive Deterioration Detection Model Based on Multimodal Contextual Understanding AI
3	P-3	Kim Jinman Kongju National Univ.	Reliability-Based Design and Provisional Standardization of Low-Clinker Ternary Blended Cements Using a 1% Lower-Tail Strength Criterion
4	P-4	LI Zhuguo Yamaguchi Univ.	Investigation of Measures to Improve the Carbonation Resistance of Geopolymers
5	P-5	Kim Gyuyong Chungnam National Univ.	Effect of Repeated Air Pressure on Chloride Transport in Reinforced Concrete of an OWC Marine Renewable Energy Structure

PROFESSIONAL SESSION 2

15:20-17:20

MAIN HALL

Chair: Prof. Lee Taegyu
Prof. Kitagaki Ryoma

NO.	Paper ID	PRESENTER / AFFILIATION	TITLE
1	P-6	Jean-Michel Rey Sampyo Industry Co., Ltd.	Low-Carbon Cement and Concrete
2	P-7	Li Yutong Tokyo Univ. of Science	A Basic Study on Automated Cross-Building Tile Debonding Detection Using Impact Sounds
3	P-8	Shin Sangchul Kongju National Univ.	A Study on the Revision Direction of the Korean Ordinary Portland Cement Standard
4	P-9	Matsumoto Takuya SANDOY Construction Co., Ltd.	Development and Application of a Load Reduction Method for Slabs During Upper-Floor Demolition
5	P-10	Ra Jeongmin Korea Aggregates Research Institute	Current Status of Aggregate Supply and Quality Control in Korea

STUDENT SESSION 1

SUSTAINABLE MATERIALS I

13:00-15:00	ROOM 504	Chair: Prof. Kim Jihoon
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TIME	Paper ID	PRESENTER / AFFILIATION	TITLE
13:00 - 13:15	S-1	Kim Geonwoo Kongju National Univ.	Analysis of the Hydration Behavior of Air-Classified Recycled Concrete Fines Used as Supplementary Cementitious Materials
13:15 - 13:30	S-2	Okada Yuta Meijo Univ.	Effects of Various Factors on the Performance of Recycled Aggregate Concrete
13:30 - 13:45	S-3	Kang Namgyu Kongju National Univ.	Evaluation of Dry Bottom Ash as a Supplementary Cementitious Material Based on Its Pozzolanic Reactivity and Hydration Behavior
13:45 - 14:00	S-4	Yamasaki Riko Meijo Univ.	Recycling of Concrete Waste Contaminated with Low-level Radioactive Materials
14:00 - 14:15	S-5	Jeong Yeongseok Hanbat National Univ.	Properties of Artificial Stone Mixed with Sewage Sludge
14:15 - 14:30	S-6	Tsuji Takumi Tokyo City Univ.	Long-Term Strength Development Characteristics of Concrete Using Coal Gasification Slag Fine Aggregate at the Age of Five Years
14:30 - 14:45	S-7	Kim Sigon Semyung Univ.	Analysis of Physical and Chemical Characteristics of Domestic Paper Sludge Ash and Evaluation of the Potential for Utilizing Construction Materials
14:45 - 15:00	S-8	Ota Niman Yamaguchi Univ.	Carbon-Sequestering Green Cement Using Blast Furnace Slag and Fly Ash as Raw Materials

STUDENT SESSION 2

MATERIAL PROPERTIES I

13:00-15:00

ROOM 505

Chair: Prof. Choi Hyeonggil

TIME	Paper ID	PRESENTER / AFFILIATION	TITLE
13:00 - 13:15	S-9	Tamura Shota Tokyo City Univ.	Concrete Mix Design Using Machine Learning and Multi-Objective Optimization Methods Based on Experimental Data from Previous Studies
13:15 - 13:30	S-10	Kim Yongjoon Chungnam National Univ.	Electrical Properties of Cement-Based Materials Reinforced with Steel Fiber
13:30 - 13:45	S-11	Yuta Hozoji Tokyo City Univ.	Shrinkage Evaluation of Recycled Aggregate Concrete Considering Moisture-Induced Deformation of Recycled Aggregates
13:45 - 14:00	S-12	Park Jeongyeon Wonkwang Univ.	Evaluation of Mechanical and Self-Healing Performance of Alkali-Activated Composites with Self-Healing Capsules
14:00 - 14:15	S-13	Onoyama Kohta Meijo Univ.	Optimization of Mix Proportions of Recycled Aggregate Concrete-Class M Considering Environmental Assessment
14:15 - 14:30	S-14	Kim Jusung Mokwon Univ.	Bond Strength Characteristics of GFRP and CFRP in Highly Alkaline Environments
14:30 - 14:45	S-15	Minegishi Yuma Institute of Science Tokyo	Relations between Surface Asperities and Various Performances in Epoxy Resin Floors
14:45 - 15:00	S-16	Ko Minjeong Chungnam National Univ.	Analysis of Radiation Shielding Properties of Concrete Incorporating Heavyweight Aggregates

STUDENT SESSION 3

BINDERS & HYDRATION

13:00-15:00

ROOM 506

Chair: Prof. Seo Wonwoo

TIME	Paper ID	PRESENTER / AFFILIATION	TITLE
13:00 - 13:15	S-17	Nguyen Thanh Phat Chungnam National Univ.	Influence of External Mixing on the Hydration Process and Compressive Strength in Fly-Ash Blended Concrete: An Investigation Using Limestone Powder
13:15 - 13:30	S-18	Saito Shintaro Tokyo City Univ.	Non-Destructive Evaluation of Hydration Progress in Cement Paste Based on Dielectric Relaxation Processes
13:30 - 13:45	S-19	Kim Jihun Hanbat National Univ.	Properties of Carbonation Curing Cement Paste with Ba(OH) ₂ and Mg(OH) ₂
13:45 - 14:00	S-20	Goda Rikuto Muroran Institute of Technology	Effects of Anhydrite and Steam Curing Conditions on the Strength Development of Mortar Using Blast-Furnace Slag Cement Type C
14:00 - 14:15	S-21	Park Kyueun Woosuk Univ.	Effect of SiO ₂ /Al ₂ O ₃ Molar Ratio and Ca(OH) ₂ Content on the Compressive Strength of Waste Glass-Based Geopolymers
14:15 - 14:30	S-22	Inden Ichito Meijo Univ.	Densification Mechanism of the Microstructure in Hardened Alkali-Activated Materials
14:30 - 14:45	S-23	Lee Jaein Wonkwang Univ.	Sustainable Alkali-Activated Composites: Assessing Mechanical Properties and Fire Resistance Performance
14:45 - 15:00	S-24	Toyoshima Akihiro Tokyo Univ. of Science	Effect of Ground Granulated Blast-Furnace Slag Addition on Concrete Spalling

STUDENT SESSION 4

SUSTAINABLE MATERIALS II

15:20-17:20

ROOM 504

Chair: Prof. Nam Jeongsoo

TIME	Paper ID	PRESENTER / AFFILIATION	TITLE
15:20 - 15:35	S-25	Nishimura Jion Yamaguchi Univ.	Development of Carbon-Sequestering Green Cement Using Iron and Steel Slags
15:35 - 15:50	S-26	An Taeyun Kongju National Univ.	Evaluation of Fundamental Properties and Reactivity of Lithium Slag Powder for Application as a New Cement Additive
15:50 - 16:05	S-27	Tran Thi Phuc Meijo Univ.	Concrete Waste Recycling in Vietnam
16:05 - 16:20	S-28	Youn Hyeyoung Chungnam National Univ.	Case Study on Engineering Properties of Mortar with Waste Plastic Pyrolysis By-Product
16:20 - 16:35	S-29	Iwano Wako Meijo Univ.	Development of Environmentally Friendly Concrete Fabricated Using Alkali-Activated Materials and Low-Quality Recycled Aggregates
16:35 - 16:50	S-30	Mahmudullah Md Woosuk Univ.	Industrially Relevant Early-Age Carbonation Curing of High-Calcium Fly Ash Blended Mortars: CO2 Uptake, Strength Development, and Dimensional Stability
16:50 - 17:05	S-31	Kojima Kaishi Muroran Institute of Technology	Effect of Adding Blast Furnace Slag to Alkali-Activated Cement Made from Hokkaido Volcanic Glass Powder on the Properties
17:05 - 17:20	S-32	Chae Kyoungjun Hanbat National Univ.	Physical Properties of Cement Paste Mixed with Waste Starfish

STUDENT SESSION 5

MATERIAL PROPERTIES II

15:20-17:20

ROOM 505

Chair: Prof. Han Dongyeop

TIME	Paper ID	PRESENTER / AFFILIATION	TITLE
15:20 - 15:35	S-33	Im Hajun Semyung Univ.	Correlation Analysis of Ultrasonic Pulse Velocity and Strength Characteristics of Eco-Friendly Concrete Incorporating Non-Sintered Hwangto
15:35 - 15:50	S-34	Sakon Shuya Tokyo Univ. of Science	Fundamental Research on Evaluating Wet Conditions of Concrete Surfaces Using ACM-Type Corrosion Sensor
15:50 - 16:05	S-35	Li Lei Kyungpook National Univ.	Effects of Data Aggregation and Test Age on UPV Strength Assessment of Early-Age Frozen Concrete
16:05 - 16:20	S-36	Jeong Juntaek Tokyo Univ. of Science	Corrosion Behavior of Hot-Dip Galvanized Reinforcing Bars Embedded in Concrete Containing Ground Granulated Blast-Furnace Slag
16:20 - 16:35	S-37	Jang Younga Semyung Univ.	Assessment of Residual Mechanical Characteristic Factors of Concrete Exposed to High-Temperature History Using Weighted Analysis Techniques
16:35 - 16:50	S-38	Hamada Sohta Institute of Science Tokyo	Time-Dependent Changes and Improvement Process in Wear Resistance of Surface Reinforcing Materials for Concrete Floors
16:50 - 17:05	S-39	Nam Youngjin Semyung Univ.	Review of the Possibility of Detecting Internal Fire Conditions Using External Heat Flux at Entrances in Building Compartment Fires
17:05 - 17:20	S-40	Iura Yota Shibaura Institute of Technology	Physical and Chemical Properties of Concrete in a 40-Year-Old Underground Retention Basin

STUDENT SESSION 6

STRUCTURES & SAFETY

15:20-17:20

ROOM 506

Chair: Prof. Kim Junho

TIME	Paper ID	PRESENTER / AFFILIATION	TITLE
15:20 - 15:35	S-41	Hayashi Sotaro Tokyo Univ. of Science	Experimental Research on the Influence of Steel Corrosion on Bond Performance with Concrete Using Neutron Diffraction Method
15:35 - 15:50	S-42	Pebrian Candra Dwi Chungnam National Univ.	Analysis of Vibration Behavior of an Oscillating Water Column Under Marine Environmental Conditions
15:50 - 16:05	S-43	Pan Ruiqi Institute of Science Tokyo	A Method to Evaluate the Habitability of Walking-Induced Vibration on Reinforced Concrete Residential Buildings in China
16:05 - 16:20	S-44	Kim Wonchang Semyung Univ.	Complex Network Analysis of the Building Fire Ecosystem and Evaluation of Risk Control Utility by Policy Intervention
16:20 - 16:35	S-45	Tsutsumi Asuka Institute of Science Tokyo	Verification of a Structural Framework for Layered Lamellar Grid Shells Utilizing Bamboo Craftsmanship - Experiments Using a Three-Layer Composite Grid Model
16:35 - 16:50	S-46	Choi Jieun Semyung Univ.	Assessment of Fire Damage Spread Factors and Risks According to Spatial Characteristics of Industrial Buildings in Cities
16:50 - 17:05	S-47	Morita Ayuka Institute of Science Tokyo	Load Characteristics of Rubbing During Walking That Causes Floor Wear
17:05 - 17:20	S-48	Hwang Suhyeon Hanbat National Univ.	A Structural Comparative Study on Japan's Jusen Crisis and Korea's Non-Bank Financial Institution Real Estate PF Distress

POSTER SESSION

15:00-15:20

NO.	Paper ID	PRESENTER / AFFILIATION	TITLE
1	PO-1	Song Hayeon Wonkwang Univ.	Waste Concrete-Derived Lysinibacillus fusiformis A15 as an Alkaline-Stable and Highly Sporulating Candidate for MICP in Cementitious Materials
2	PO-2	Jang Yoonho Hanbat National Univ.	Development of a Quality Measurement An Algorithm for Building Finish
3	PO-3	Ryoo Changwoo Hanbat National Univ.	Physical and Thermal Properties of Cement Paste with Waste Plastics
4	PO-4	Lee Inyoung Wonkwang Univ.	Synergistic Flame Retardancy Enabled by Boehmite/Poly(Acrylic Acid)/Graphene Oxide Hybrid Multilayered Nanocomposites
5	PO-5	Lee Jeongtaek Chungnam National Univ.	Effect of Core Diameter and Coarse Aggregate Content on the Material Properties of Small Diameter Concrete Cores
6	PO-6	Ji Sungjun Chungnam National Univ.	Role of Kenaf Fibers in Improving the Spalling Resistance of Polymer-Modified Cement Mortar
7	PO-7	Kumamoto Soshi Hokkaido Univ.	Macrocell Corrosion Inhibition Effects of Repair Mortars with Application of Various Countermeasures for Chloride Attack
8	PO-8	Makino Takaya Hokkaido Univ.	Relationship between Intra-Filament Void Structure and Freeze-Thaw Resistance of 3D Printed Concrete with Different Printing Parameters
9	PO-9	Nguyen Thien Thanh Ho Chi Minh City Univ. of Technology	Study on Affect of Fly Ash and Slag on Bond Strength of Geopolymer Concrete
10	PO-10	Bui Phuong Trinh Ho Chi Minh City Univ. of Technology	Mechanical Strengths of High-Strength Concrete with Fly Ash Aggregate under Various Moisture States
11	PO-11	Allis Nurdini Institut Teknologi Bandung	From Site Planning to Material Production: A Decentralized Carbon-Neutral Framework for Post Disaster Housing Reconstruction