

Program of JCI-TCI joint seminar

JCI-TCI Joint Seminar:

Date & Time: 9:00 – 16:10, Thursday, July 9, 2026

Location: Nara Chamber of Commerce and Industry, Medium Hall, Nara

Program Schedule:

9:00 – 9:10: Opening Address

Speaker 1: JCI President – Takafumi Noguchi

Speaker 2: TCI President – Dr. Milton King

Student session 1 (Chair: Dr. Tomomi Suzuki and Prof. Chia-Chi Cheng)

9:10 – 9:25: Numerical Study on Shear Behavior of SFRC Beam by Using 3D-RBSM by Chihiro Maki (Master student, Nagoya University)

9:25 – 9:40: DIC Visualization of Cracking Behavior in RC Shear Walls with Openings by Kosuke Murayama (Master student, Akita Prefectural University)

9:40 – 9:55: Numerical and Experimental Study on Simplified Connections between Buckling-Restrained Braces and RC Frames Using Steel Fiber Reinforced Concrete by Wen-Cheng Hsu (Master student, National Taiwan University)

9:55 – 10:10: Seismic Behavior of UHPC-Jacketed High-Strength RC Columns after Exposure to Fire by Bo-Jun Huang (Doctoral student, National Cheng Kung University)

10:10 – 10:25: Relationship Between Residual Seismic Capacity Ratio and Natural Period Change in Mid- to High-Rise RC Buildings Damaged During the 2024 Hualien Earthquake by Masashi Koga (Master student, Tokyo University of Science)

10:25 – 10:45: Coffee Break

Student session 2 (Chair: Dr. Wei-Hsiu Hu and Mr. Keita Tateishi)

10:45 – 11:00: The Combined Effects of Blast Furnace Slag and Fly Ash on Mortar Properties under Different Early-Age Curing Temperature Histories by Mizuki Takahashi (Master student, Saitama University)

11:00 – 11:15: Integrating Pre-Carbonated Slag and Carbonation Curing toward the Decarbonization of Engineered Cementitious Composites by Chia-Ying Chung (Master student, National Taiwan University)

11:15 – 11:30: Effect of Aggregate-to-Binder Ratio on Properties of Cementless Mortar by Grisella Audria Gunawan (Doctoral student, National Central University)

11:30 – 11:45: Microstructural Characteristics and Strength Development of Alkali-Activated Slag with Metakaolin and Semiconductor Sludge by Ting-An Lin (Master student, National Yang Ming Chiao Tung University)

11:45 – 12:00: Dynamic Mechanical Performance and Electromagnetic Shielding of UHPC Reinforced with Hybrid Carbon Fibers and Multi-Layer Graphene under Blast Loading by Chang-Yu Kuo (Doctoral student, National Yang Ming Chiao Tung University)

12:00 – 13:30: Lunch Break

Research session 1 (Chair: Dr. Shingo Asamoto and Prof. Wen-Cheng Liao)

13:30 – 13:50: Mechanical properties of Alkali-activated concrete by Atsushi Shibayama (Associate Professor, Gifu University)

13:50 – 14:10: Synergistic effects of redispersible EVA powder and manufactured sand on the workability, compressive strength, microstructure, and cost efficiency of eco-friendly concrete by Kai-Lin Hsu (Professor, National Kaohsiung University of Science and Technology)

14:10 – 14:30: Method for sequestering carbon by utilizing wasted fresh concrete by Yu-Hsien Lin (Engineer, Yatung Ready Mixed Concrete Co., Ltd.)

14:30 – 14:50: CO₂-SUICOM (Carbonation curing of concrete) by Hiroaki Yamano (Kajima Corporation)

14:50 – 15:00: Coffee Break

Researcher Session 2 (Chair: Dr. Terry Y.P. Yuen and Dr. Shingo Asamoto)

15:00 – 15:20: Application of 3D Printing Technology to Architectural Structure in NOVARE by Hatsutarō Tanaka (Shimizu Corporation)

15:20 – 15:40: Study on material and structural behavior of 3D printed concrete in Hokkaido University by Katsufumi Hashimoto (Associate Professor, Hokkaido University)

15:40 – 16:00: Thermal Control Practices of Mass Concrete in Taiwan: From Regulatory Standards to Landmark Bridge Construction by Jih-Shiuan Ho (Assistant Research Fellow, Taiwan Construction Research Institute)

16:00 – 16:10: Closing Remarks

Speaker 1: JCI-TCI collaboration committee chair (Former JCI president) –
Prof. Minehiro Nishiyama

Speaker 2: TCI vice-president – Prof. Chia-Chi Cheng