ACF 2026

THE 11TH INTERNATIONAL CONFERENCE OF THE ASIAN CONCRETE FEDERATION

Concrete Intelligence
Designing a Greener, Safer, Smarter Asia

October 14 – 17, 2026 | Taipei, Taiwan



ACF 2026

THE 11TH INTERNATIONAL CONFERENCE OF THE ASIAN CONCRETE FEDERATION

Designing a Greener, Safer, Smarter Asia

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Welcome Message

Connecting Asia,
Building the Next Twenty Years of Concrete



The year 2026 marks a significant milestone for the Taiwan Concrete Institute (TCI). As we celebrate our 20th Anniversary, we are also honored to host the 11th International Conference of the Asian Concrete Federation (ACF 2026) in Taipei. This special occasion brings together scholars, engineers, industry leaders, and professionals from across Asia and around the world to reflect on our progress and, more importantly, to envision the future of concrete.

Twenty years ago, TCI was established with a mission to connect academia, government, engineering professionals, and industry, and to advance concrete technology and engineering practice in Taiwan. Over the past two decades, Taiwan has progressed from Self-Compacting Concrete (SCC), CLSM, and high-flow concrete to today's Ultra-High-Performance Concrete (UHPC). From major bridges and super-high-rise buildings to world-class semiconductor facilities, concrete has evolved beyond the pursuit of strength toward performance, durability, sustainability, circularity, and intelligence.

This evolution is reflected in the theme of ACF 2026:

> "Concrete Intelligence —
> Designing a Greener, Safer, Smarter Asia."

Concrete Intelligence is not simply about applying artificial intelligence to concrete.

It represents the integration of intelligence throughout the entire life cycle of concrete—from materials, mix design, production, and construction to monitoring, maintenance, recycling, and carbon management. Our goal is to connect concrete technology with digital technology and engineering performance with carbon performance, making concrete a key foundation for sustainable cities and resilient societies.

Twenty years ago, TCI was established to connect Taiwan's concrete community.

As TCI begins its next twenty years, we look forward to working closely with our partners across Asia and beyond—to make concrete greener, our infrastructure safer, and our industry smarter. Together, let us build the next twenty years of concrete.

Milton KING
President
Taiwan Concrete Institute (TCI)

理事長 金崇仁



ACF 2026

THE 11TH INTERNATIONAL CONFERENCE OF
THE ASIAN CONCRETE FEDERATION

Concrete Intelligence
Designing a Greener, Safer, Smarter Asia

Introduction

01 Theme and Objectives

The 11th International Conference of the Asian Concrete Federation (ACF 2026) is held in Taipei, Taiwan, from October 14 to 17, 2026, and jointly organized by the Taiwan Concrete Institute (TCI) and National Taiwan University (NTU).

Since its establishment, the Asian Concrete Federation (ACF) has promoted academic exchange, technological advancement, and international collaboration in concrete engineering across Asia. Following the 4th ACF International Conference held in Taipei in 2010, ACF 2026 returns to Taiwan after 16 years, continuing this tradition of professional exchange and regional cooperation.

Under the theme “Concrete Intelligence – Designing a Greener, Safer, Smarter Asia,” ACF 2026 focuses on sustainability, safety and resilience, and intelligent technologies in concrete materials, structural engineering, and modern infrastructure. The conference brings together researchers, engineers, industry representatives, and practitioners from Asia and around the world to exchange knowledge, share research and engineering experience, and explore future innovations in concrete engineering.

ACF 2026 also marks the 20th Anniversary of the Taiwan Concrete Institute, giving the conference special significance. This milestone reflects two decades of progress in concrete engineering research, technology, and practice in Taiwan, while further strengthening Taiwan’s connections with the Asian and international concrete engineering communities.

The conference is also jointly hosted by National Taiwan University, which will celebrate its centennial in 2028. Looking both to past achievements and future development, ACF 2026 aims to encourage new research, technological innovation, and broader applications of concrete and structural engineering in sustainable cities and resilient infrastructure.

02 Establishment and Mission of ACF

The Asian Concrete Federation (ACF) was founded to promote technical exchange and regional cooperation in concrete engineering across Asia. Following the Asian Concrete Forums held in Sapporo (2001), Seoul (2002), and Pune (2003), the 1st ACF International Conference was held in Chiang Mai, Thailand, in 2004, marking the formal establishment of ACF.

ACF provides a regional platform for collaboration in concrete materials, structural design, construction, maintenance, and management, while promoting technical guidelines and methodologies suited to the diverse needs of Asian countries.

03 ACF Members and Past International Conferences

ACF currently comprises 13 institutional members from Taiwan, Japan, Korea, Mainland China, Hong Kong, India, Indonesia, Mongolia, Thailand, Vietnam, Singapore, Australia, and Russia.

Since 2004, ACF conferences and symposia have been held across Asia, including Taipei, Seoul, Hanoi, Sapporo, Shenzhen, and Singapore. In 2026, the 11th ACF International Conference returns to Taipei, 16 years after the 4th ACF Conference in 2010, continuing ACF’s tradition of international exchange and technical advancement.

Program Schedule

Date	October 14	October 15		October 16	October 17
Morning	Registration (all day)	• Registration (all day) • Opening Ceremony • Keynote Speeches Vendor Exhibition available		• Registration (all day) • Nagataki Special Session 2 • Nagataki Special Session 3 • Parallel Sessions	Technical Tour Full Day
Afternoon	EC / TC Meetings	• Nagataki Special Session 1 • Okamura Special Session 1 • Parallel Sessions Vendor Exhibition available		• TCI-JCI Special Session • Parallel Sessions	
Night	Welcome Reception	• Gala Dinner and Celebration		• President Dinner (Invited only)	-



Organization

Local Organizing Committee

Conference Leadership

Dr. Chung-Jen King	Conference Chair, Taiwan Concrete Institute
Prof. Jenn-Chuan Chern	Honorary Chair, Tang Prize Foundation / National Taiwan University
Prof. Yin-Wen Chan	Honorary Chair, National Taiwan University
Prof. Wen-Cheng Liao	Secretary General, National Taiwan University

TCI Elective Directors

Chung-Jen King
Ya Tung Ready Mixed Concrete

Yu-Chen Ou
National Taiwan University

Chi-Yeh Hsieh
Feng Yu Construction Co., Ltd.

Chia-Chi Cheng
Chaoyang University of Technology

Chien-Hsin Lai
Water Resources Agency

Yu-Wen Liu
National Chiayi University

Ching-Jung Tsai
Chia Teng Enterprise

Directors

Wei-Chien Wang
National Central University

Kuang-Yen Liu
National Cheng Kung University

Chien-Kuo Chiu
Taiwan Construction Research Institute

Tung-Yuan Chang
CHC Resources

Hao-Ching Wu
Fu Tsu Construction

Chi-Heng Jiang
CECI Engineering Consultants

Huang-Hsing Pan
National Kaohsiung University of Science and Technology

Liang-Jenq Leu
National Taiwan University

Chung-Ho Huang
National Taipei University of Technology

Chung-Chih Hung
Taiwan Cement Corp.

Chih-Hsien Chen
Asia Cement Corp.

Jui-Pin Cheng
Ruentex Materials

Wen-Tsung Chan
Sinotech Engineering Consultants

Lin-Bin Chiou
Taiwan Future Vision Digital Sustainability Alliance

Wen-Cheng Liao
National Taiwan University

An Cheng
National Ilan University

Lan-Ying Hsu
Goldsun Building Materials

Liang-Tsai Wu
Lihtai Construction Enterprise Co., Ltd.

Chao-Hsien Lai
Young Ching Industrial

Ming-Tsung Liu
Tung Ho Steel

Scientific Committee

International Scientific Committee

Prof. Caijun Shi President
Hunan University

Prof. Vyatcheslav Falikman Vice President
Research Institute of Concrete and Reinforced Concrete (NIIZhB)

Prof. Jianguo Dai Vice President
City University of Hong Kong

Prof. Kohei Nagai Vice President
Hokkaido University

Paper Review Committee

Dr. Wei-Hsiu Hu
National Taiwan University

Dr. Yu-Chen Ou
National Taiwan University

Dr. Ming-Gin Lee
Chaoyang University of Technology

Dr. Chien-Kuo Chiu
National Taiwan University of Science and Technology / Taiwan Construction Research Institute

Dr. Chia-Chi Cheng
Chaoyang University of Technology

Dr. Liang-Jenq Leu
National Taiwan University

Dr. Wei-Chien Wang
National Central University

Dr. Her-Yung Wang
National Kaohsiung University of Science and Technology

Dr. Yu-Wen Liu
National Chiayi University

Dr. Chung-Chia Yang
National Taiwan Ocean University

Dr. An Cheng
National Ilan University

Dr. Chung-Ho Huang
National Taipei University of Technology

Dr. Huang-Hsing Pan
National Kaohsiung University of Science and Technology

Organization of ACF

Prof. Junping Liu
Fuzhou University

Prof. Yan Zhuge
The University of Adelaide

Prof. Tavio
Institut Teknologi Sepuluh Nopember

Prof. Nattapong Makaratat
King Mongkut's University of Technology North Bangkok

Dr. V. Ramachandra
Indian Concrete Institute (ICI)

Prof. Ju-Hyuk Moon
Seoul National University

Prof. Wen-Cheng Liao
National Taiwan University

Prof. Donguk Choi
Hankyong National University Industry Academic Cooperation Foundation

Prof. Tuan Van Nguyen
Hanoi University of Civil Engineering

Prof. Tamon Ueda
Shenzhen University

Prof. Yuxi Zhao
Zhejiang University

Prof. Narantuya Batmunkh
Mongolian University of Science and Technology

Supporting Organizations

Organized by

Taiwan Concrete Institute

國立臺灣大學 NATIONAL TAIWAN UNIVERSITY 100th ANNIVERSARY

TANG PRIZE

Sponsored by

亞洲水泥 ASIA CEMENT CORPORATION

CARBONCURE

CECI 台灣世曦工程顧問股份有限公司 CECI Engineering Consultants, Inc., Taiwan

中聯資源 CHC Resources

漢鴻實業股份有限公司 CHINA STEEL CONCRETE INDUSTRIAL CORP.

義力營造 EARTHPOWER

衛星犬

豐譽企業團隊 FENGYU GROUP

互助營造股份有限公司 Fu Tsu Construction Co., Ltd

力泰建設企業股份有限公司 LIH TAI CONSTRUCTION ENTERPRISE CO., LTD.

OUCC 東聯化學股份有限公司 Oriental Union Chemical Corp.

東和鋼鐵企業股份有限公司 TUNG HO STEEL ENTERPRISE CORP.

永觀工業 | 聯觀企業

國產建材實業 GOLDSUN BUILDING MATERIALS

RUENTEX 潤弘精密工程

Sika BUILDING TRUST

TCC GROUP HOLDINGS

亞東預拌 YATUNG READYMIXED CONCRETE

宥辰興業 YU CHEN Co., Ltd

keynote speakers



John Lin

Title : Taiwan's High-Tech Facility Construction and Sustainable Carbon Reduction Strategies

Biography

John Lin is Facilities Director at Micron Technology, with extensive experience in semiconductor production, manufacturing engineering, facility expansion, construction, and operations. His career has included leadership roles at Nanya Technology, Inotera Memories, and Micron Technology, covering both manufacturing and facilities management.

In addition to his industry experience, he serves as an Adjunct Associate Professor in the College of Engineering at National Yang Ming Chiao Tung University (NYCU). He holds an M.S. degree from Chang Gung University and a B.S. degree from National Taiwan University of Science and Technology.

Presentation Overview

Artificial intelligence is driving rapidly growing demand for semiconductor infrastructure. As highlighted in the presentation, the key challenge is not simply how to build a single semiconductor fab, but how to deliver semiconductor capacity at the speed required by the AI era.

The presentation focuses on semiconductor infrastructure development for speed, scale, and sustainability, together with the role of high-tech facilities, manufacturing operations, and sustainable infrastructure in supporting future semiconductor production.

Prof. Yu-Chen Ou

Title : Advancing Taiwan's Concrete Technology through Innovation, Sustainability, and Systematic Development — In Memory of Dr. Samuel Yin



Biography

Prof. Yu-Chen Ou is Director General of Taiwan's National Center for Research on Earthquake Engineering (NCREE) and Tao Jia-Wei Chair Professor and Distinguished Professor of Civil Engineering at National Taiwan University. He received his Ph.D. from the University at Buffalo, SUNY. His research focuses on high-strength, composite, and precast concrete structures, as well as seismic design of buildings and bridges.

His work has contributed to Taiwan's concrete and bridge design codes and engineering practice. He is a Fellow of the American Concrete Institute (ACI) and a recipient of the ACI Wason Medal for Most Meritorious Paper.

Presentation Overview

This presentation reviews the development and application of multi-spiral reinforcement in concrete columns, a concept initiated by Dr. Samuel Yin. Through full-scale testing, engineering applications, and long-term collaboration among government, industry, and academia, the system has evolved from an innovative reinforcement concept into a code-recognized technology applied in both building and bridge projects in Taiwan.

Research and practical applications have shown that multi-spiral reinforcement can reduce transverse reinforcement while maintaining or improving structural strength and ductility. The technology has also been extended to high-strength concrete and steel, with recent developments demonstrating further improvements in deformation capacity and reinforcement efficiency. These advances highlight its potential to contribute to safer, more sustainable, and more efficient concrete construction.

The presentation is dedicated to the memory of Dr. Samuel Yin and reflects two decades of continued development toward a greener, safer, and smarter future for concrete engineering.

Prof. Susumu Kono

Title : Seismic Safety and Resilience of Foundation Structures in Japan



Biography

Prof. Susumu Kono is Professor at the Institute of Integrated Research, Institute of Science Tokyo and Vice President of the Japan Concrete Institute (JCI). He received his Ph.D. in Civil Engineering from the University of Illinois at Urbana-Champaign and has extensive research and teaching experience in reinforced concrete structures, earthquake engineering, and structural resilience.

His research focuses on the seismic performance and resilience of reinforced concrete structures, including concrete piles, foundation members, structural walls, and high-performance concrete systems. He has also participated in numerous post-earthquake reconnaissance investigations in Japan and overseas.

Presentation Overview

Recent earthquakes in Japan have revealed cases in which buildings became unserviceable due to damage to foundation members, highlighting the need for improved performance-based seismic design of building foundation systems.

This presentation reviews recent experimental and analytical studies conducted in Japan on concrete piles and pile-head connections, together with current methods for evaluating the seismic performance of piles and other foundation members. It also summarizes the present state of research and discusses the remaining technical challenges toward improving the seismic safety and resilience of concrete foundation structures.

Prof. Jongsung Sim

Title : Why Do We Need the Asian Concrete Model Code?



Biography

Prof. Jongsung Sim is Professor Emeritus in the Department of Civil Engineering at Hanyang University, Korea, and an Emeritus Member of the National Academy of Engineering of Korea (NAEK). He currently chairs several governmental committees related to Korean Standards and serves as Chairman of ISO/TC71/SC5.

He has served as President of the Korean Concrete Institute (KCI), the Korean Society of Civil Engineers (KSCE), and the Asian Concrete Federation (ACF). His research interests include FRP reinforcement for concrete structures, recycling of waste concrete, and concrete codes and specifications.

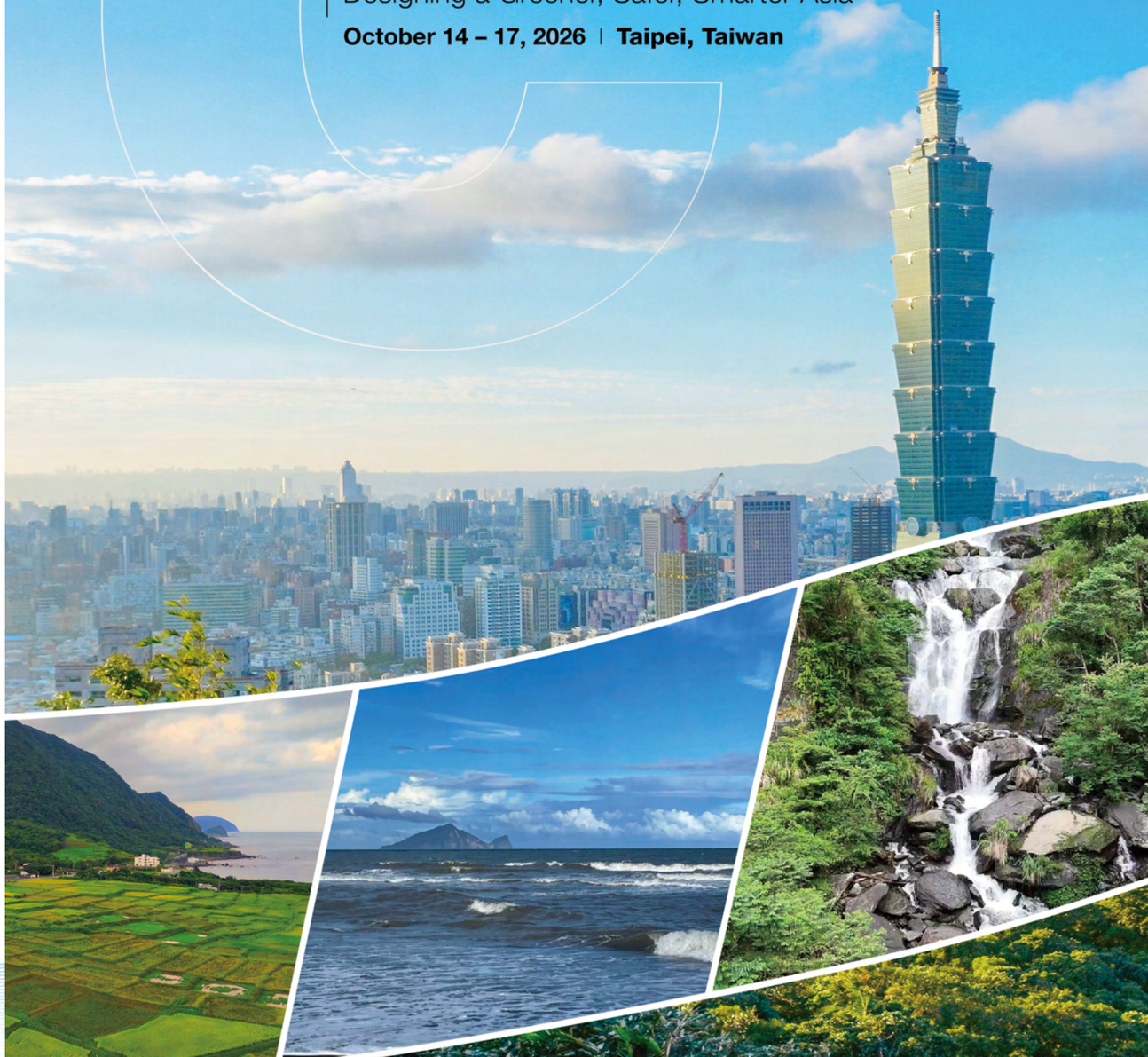
Presentation Overview

In recent decades, regional cooperation and harmonization have become increasingly important worldwide, and a similar development can be observed in the concrete engineering community. While Europe has the fib Model Code and North America has ACI 318, Asia has developed the Asian Concrete Model Code (ACMC), which is still less widely recognized within the region.

ACMC is based on Performance-Based Design (PBD), emphasizing required structural performance rather than prescribing a single design method. Its multi-level structure, consisting of a Common Code and Local Codes, is designed to accommodate the diverse environmental conditions, materials, construction practices, and national standards found throughout Asia.

This keynote lecture introduces the philosophy and structure of ACMC, explains the fundamental concept of PBD, and discusses its future role as a common technical platform for promoting harmonization, cooperation, and connectivity across the Asian concrete community and beyond.

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Awards & Special sessions

TCI International Technology Contribution Award

The Taiwan Concrete Institute (TCI) International Technology Contribution Award recognizes distinguished individuals who have made significant and lasting contributions to the advancement of concrete engineering and to the development of Taiwan's concrete community.

At ACF 2026, the award will be presented to Prof. Hajime Okamura in recognition of his pioneering achievements in self-compacting concrete (SCC) and his long-standing contributions to the development and application of concrete technology in Taiwan. His work has had a profound influence on engineering practice worldwide, improving construction quality, structural durability, and the efficiency of concrete construction.

Prof. Hajime Okamura



Prof. Hajime Okamura is an internationally renowned scholar in civil engineering and concrete technology. He has held major academic and professional leadership positions, including Dean of the Faculty of Engineering at the University of Tokyo, President and Chair of the Board of Directors of Kochi University of Technology, and President of the Japan Society of Civil Engineers (JSCE).

Prof. Okamura pioneered self-compacting concrete (SCC) in Japan in 1988 and subsequently promoted its development through mix design, production methods, quality control, standards, and engineering applications. His long-term collaboration with Taiwanese researchers and engineers played an important role in the development and widespread adoption of SCC in Taiwan.

Okamura Special Session

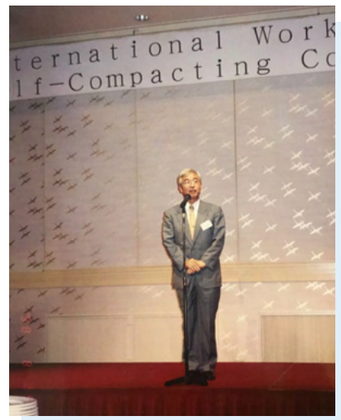
In honor of Prof. Hajime Okamura's outstanding contributions to concrete engineering, ACF 2026 will feature a dedicated Okamura Special Session, bringing together invited speakers to share research achievements, engineering applications, and perspectives related to the advancement of concrete technology.

Session 1
Oct. 15 · 14:45–16:15
International Conference Hall

Award Presentation

The TCI International Technology Contribution Award will be presented to Prof. Hajime Okamura during the ACF 2026 Gala Dinner.

ACF 2026 Gala Dinner
Oct. 15, 2026 · 18:00–21:00
2F, Shangri-La Far Eastern, Taipei



First International SCC Symposium



Technical Exchange with Taiwanese Researchers



Engineering Visit in Japan



ACF Lifetime Achievement Award

The Asian Concrete Federation (ACF) Lifetime Achievement Award recognizes individuals whose lifelong contributions have had a lasting impact on concrete engineering, education, professional development, and international collaboration.

At ACF 2026, the award will be presented to Prof. Shigeyoshi Nagataki in recognition of more than six decades of distinguished contributions to civil and concrete engineering. His career has been marked by pioneering research in high-performance concrete, leadership in domestic and international standardization, and a long-standing commitment to the education and mentoring of engineers and researchers.

Prof. Shigeyoshi Nagataki



Prof. Shigeyoshi Nagataki is Professor Emeritus of the former Tokyo Institute of Technology (now Institute of Science Tokyo) and Supreme Advisor of Japan Concrete Technology Co., Ltd. He received his Doctor of Engineering degree from The University of Tokyo in 1966 and has devoted more than six decades to research, education, and professional service in concrete engineering.

His major contributions include research on high-performance concrete, durability, mineral admixtures, concrete volume change, recycling, and industrial standardization. He has also made major contributions to the establishment and revision of JIS and ISO standards and played an important role in the establishment of the Asian Concrete Federation in 2004 while serving as President of the Japan Concrete Institute.

Nagataki Special Session

The Nagataki Special Session is organized in recognition of Prof. Nagataki's distinguished academic, professional, and international contributions. It provides an opportunity for colleagues and researchers to reflect on his lasting influence on concrete technology, engineering practice, education, and international cooperation.

Session 1	Session 2	Session 3
Oct. 15	Oct. 16	Oct. 16
13:00–14:30	09:00–10:30	10:45–12:00
International	Socrates Hall	Socrates Hall

Award Presentation

The ACF Lifetime Achievement Award will be presented to Prof. Shigeyoshi Nagataki during the ACF 2026 Gala Dinner.

ACF 2026 Gala Dinner
Oct. 15, 2026 · 18:00–21:00
2F, Shangri-La Far Eastern, Taipei



Commemorative Photo with Family and Organizers Following the Award Ceremony



Professor Nagataki Celebrating the Conferment of the Order of the Sacred Treasure

General Information

01 Welcome Reception

The ACF 2026 Welcome Reception will be held on the evening of October 14, providing participants with an opportunity to meet, network, and connect with one another before the official conference program begins.

All registered participants are welcome to attend free of charge. Shuttle bus service will also be provided by the Organizing Committee for convenient transportation between the conference venue and the reception venue.

Date
Wednesday, October 14, 2026

Time
18:00–21:00

Venue
B1F, Shangri-La Far Eastern, Taipei

Admission
Free for all registered participants

Transportation
Shuttle buses will operate continuously between the GIS NTU Convention Center and Shangri-La Far Eastern, Taipei, beginning at 17:45. After the reception, shuttle service will also be available to transport participants back to the GIS NTU Convention Center.



02 Gala Dinner, Award Ceremony and Celebration of TCI 20th Anniversary

The ACF 2026 Gala Dinner, Award Ceremony and Celebration of TCI 20th Anniversary will be held on the evening of Thursday, October 15, 2026, at Shangri-La Far Eastern, Taipei.



In addition to providing an opportunity for participants to interact and network, the evening will also commemorate the 20th Anniversary of the Taiwan Concrete Institute (TCI), marking an important milestone in the development of Taiwan's concrete engineering community.

As part of this special celebration, the conference will also honor distinguished senior scholars who have made outstanding and lasting contributions to the development of concrete engineering in Asia. The Taiwan Concrete Institute (TCI) will present the TCI International Technology Contribution Award to Professor Hajime Okamura, in recognition of his significant contributions to concrete engineering and to the advancement of the concrete profession in Asia. In addition, the Asian Concrete Federation (ACF) will honor Professor Shigeyoshi Nagataki for his remarkable contributions to the Asian concrete engineering community.

Date
Thursday, October 15, 2026

Time
18:00–21:00

Venue
2F, Shangri-La Far Eastern, Taipei

Admission
Available to registered participants who have completed the required Gala Dinner payment

Transportation
Shuttle buses will operate continuously between the GIS NTU Convention Center and Shangri-La Far Eastern, Taipei, beginning at 17:45. After the reception, shuttle service will also be available to transport participants back to the GIS NTU Convention Center.

03 Technical Visit

The ACF 2026 Technical Visit will be held on Saturday, October 17, 2026, offering participants a full-day program featuring major infrastructure projects and cultural landmarks in northern Taiwan, including Taoyuan International Airport Terminal 3, Danjiang Bridge, Tamsui Old Town, and the CHI PO LIN Museum.

Date
Saturday, October 17, 2026

Departure Time
08:00

Return Time
Approximately 17:30

Meeting Point
GIS NTU Convention Center

Transportation
Chartered bus service will be provided throughout the visit.

Participation
Free of charge for registered ACF 2026 participants

Registration
Please sign up at the conference registration desk.
Participation is limited to 40 participants and will be accepted on a first-come, first-served basis.

Itinerary

08:00	Departure from GIS NTU Convention Center
09:00–10:00	Taoyuan International Airport Terminal 3 Project Briefing, Q&A and Safety Preparation
10:00–10:50	Terminal 3 On-Site Technical Visit
10:50–11:00	Group Photo & Presentation of Certificate of Appreciation
11:00–11:40	Transfer to Tamsui
11:40–13:30	Lunch
13:30–14:00	Danjiang Bridge Project Briefing
14:00–15:00	Explore Tamsui Old Town
15:00–16:30	Visit to CHI PO LIN Museum
16:30–17:30	Danjiang Bridge Site Visit & Sunset Viewing
17:30	Return to GIS NTU Convention Center

Please note that the itinerary is tentative and may be adjusted depending on traffic, weather conditions, construction-site arrangements, and other operational considerations.









Venue

Transportation

Venue

GIS NTU Convention Center
B1, No. 85, Sec. 4, Roosevelt Rd., Taipei
Nearest MRT Station: Gongguan Station (G07), Exit 2
The venue is approximately a 2-minute walk from the station.

From Taoyuan International Airport (TPE)

Take the Taoyuan Airport MRT Express Train to Taipei Main Station (A1). The journey takes approximately 35 minutes and costs about NT$150. From Taipei Main Station, transfer to the Taipei Metro and take the Green Line (Songshan–Xindian Line) to Gongguan Station (G07). Leave the station via Exit 2 and walk approximately 2 minutes to the GIS NTU Convention Center.

From Taipei Songshan Airport (TSA)

From Songshan Airport Station (BR13), take the Brown Line toward Taipei Zoo. Transfer at Nanjing Fuxing Station (BR11/G16) to the Green Line toward Xindian, and continue to Gongguan Station (G07). Take Exit 2 and walk approximately 2 minutes to the venue.

Taipei Metro

Taipei's metro system provides convenient access to the conference venue. Participants may use an EasyCard or other supported payment methods when traveling on the MRT.

Nearest Station:
Gongguan Station (G07), Exit 2

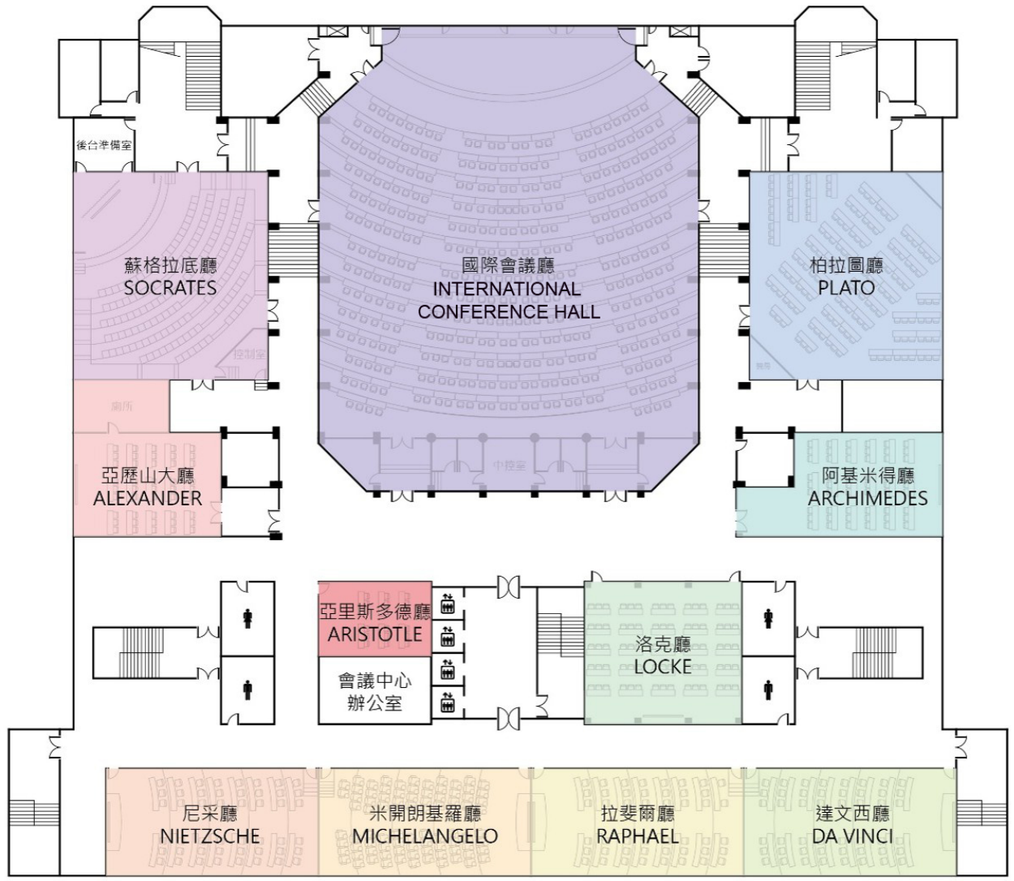
By Taxi

Participants traveling by taxi may show the following address to the driver:

台大集思會議中心
GIS NTU Convention Center
台北市羅斯福路四段 85 號 B1
B1, No. 85, Sec. 4, Roosevelt Rd., Taipei

Floor Plan

集思台大會議中心—平面圖





Speakers Guideline

01 Session Information

Please scan the QR code on your name badge to check your session, presentation time, and venue.



02 Presentation Time

Each oral presentation is allocated 15 minutes:
12 minutes for presentation + 3 minutes for Q&A.
A bell will ring at 10, 12, and 15 minutes as a time reminder.



03 Presentation Format

There is no required template or presentation format.



04 Advance File Upload

On October 14 and 15, speakers may bring their presentation file on a USB flash drive to Aristotle Hall. Conference staff will assist in uploading the file to the conference cloud storage and transferring it to the computer in the assigned venue before the session.



05 File Naming

Please name your file using the following format:
Session Number_Name
Example: 3B_JohnSmith.pptx



06 Last-Minute Updates

If you are unable to upload your presentation in advance, or if you have an updated version, please enter the venue during the break before your session and copy the file to the conference computer.



07 Using Your Own Laptop (optional)

Each venue is equipped with an HDMI cable. Speakers may use their own laptops if necessary; however, we strongly encourage all speakers to upload their presentation to the conference computer in advance to ensure smooth transitions and minimize technical delays.



08 Venue Etiquette

When entering or leaving a presentation venue, please avoid doing so while a speaker is presenting whenever possible, out of respect for all speakers.



Daily Schedule

Oct. 14 (Wed)	09:00–12:00	Registration Venue: Lobby			Vendor Exhibition Setup Venue: Plato Hall, Archimedes Hall
	13:30–17:00			EC / TC Meetings Venue: Locke Hall	
	18:00–20:00	Welcome Reception Venue: Shangri-La Far Eastern, Taipei (B1F)			
Oct. 15 (Thu)	08:30–09:00	Registration			Vendor Exhibition Venue: Plato Hall, Archimedes Hall
	09:00–09:20	Opening Ceremony			
	09:20–09:50	TCI President: Dr. Chung-Jen King ACF President: Dr. Cai-jun Shi CEO of the Tang Prize Foundation, TCI Honorary President, ACF 2026 Honorary Chair: Dr. Jenn-Chuan Chern			
	09:50–10:20	**Keynote Speech 1** “Concrete Intelligence for the AI Era” John Lin (Facilities Director, Micron Technology Taiwan)		Mentor Dr. Jenn-Chuan Chern	
	10:20–10:50	**Keynote Speech 2** “Development and Application of Multi-Spiral Reinforcement in Concrete Columns: In Memory of Dr. Samuel Yin” Prof. Yu-Chen Ou (Director General of the National Center for Research on Earthquake Engineering)			
	10:50–11:10	Break			
	11:10–11:40	**Keynote Speech 3** “Seismic Safety and Resilience of Foundation Structures in Japan” Prof. Susumu Kono (Vice President of the Japan Concrete Institute)		Mentor Dr. Yin-Wen Chan	
	11:40–12:10	**Keynote Speech 4** “Why Do We Need the Asian Concrete Model Code?” Prof. Jongsung Sim (Former President of the Korean Concrete Institute)			
	12:10–13:00	Lunch Break			
	13:00–14:30	**Nagataki Special Session 1** Venue: International Conference Hall			
	14:30–14:45	Coffee Break			
	14:45–16:15	**Okamura Special Session 1** Venue: International Conference Hall			
	16:20–17:35	Session 1A : T01 Low-Carbon Binders, Eco-cement, and Green Concrete Venue: Alexander Hall	Session 1B : T05 Concrete Durability Venue: Locke Hall		
	18:00–21:00	**Gala Dinner, Award Ceremony and Celebration of TCI 20th Anniversary** Venue: Shangri-La Far Eastern, Taipei (2F)			

Daily Schedule

Oct. 16 (Fri)	08:30–17:00	Registration Venue: Lobby				Registration Venue: Lobby					
	09:00–10:30	**Nagataki Special Session 2** Venue: Socrates Hall	Session 2A : T06 Concrete Volume Stability (Shrinkage and Creep) Venue: Archimedes Hall	Session 2B : T01 Low-Carbon Binders, Eco-cement, and Green Concrete Venue: Alexander Hall		Session 2C : T08 AI/ML for Design, Analysis, and Predictive Decision-making Venue: Da Vinci Hall	Session 2D : T05 Concrete Durability Venue: Raphael Hall	Session 2E : T07 Testing and Modeling for Concrete and Structures Venue: Michelangelo Hall	Session 2F : T04 FRC, HPFRCC, UHPC, ECC, and Advanced Concrete Materials Venue: Nietzsche Hall	Session 2G : T02 Supplementary Cementitious Materials Venue: Locke Hall	
	10:30–10:45	Coffee Break				Coffee Break					
	10:45–12:00	**Nagataki Special Session 3** Venue: Socrates Hall	Session 3A : T13 Maintenance, Repair, and Retrofit Venue: Archimedes Hall	Session 3B : T01 Low-Carbon Binders, Eco-cement, and Green Concrete Venue: Alexander Hall		Session 3C : T08 AI/ML for Design, Analysis, and Predictive Decision-making Venue: Da Vinci Hall	Session 3D : T05 Concrete Durability Venue: Raphael Hall	Session 3E : T11 Health Monitoring and Non-Destructive Testing Venue: Michelangelo Hall	Session 3F : T04 FRC, HPFRCC, UHPC, ECC, and Advanced Concrete Materials Venue: Nietzsche Hall	Session 3G : T02 Supplementary Cementitious Materials Venue: Locke Hall	
	12:00–13:30	Lunch Break				Lunch Break					
	13:30–15:00	**TCI-JCI Special Session 1,2,3** Venue: Socrates Hall	Session 4A : T13 Maintenance, Repair, and Retrofit Venue: Archimedes Hall	Session 4B : T01 Low-Carbon Binders, Eco-cement, and Green Concrete Venue: Alexander Hall		Session 4C : T08 AI/ML for Design, Analysis, and Predictive Decision-making Venue: Da Vinci Hall	Session 4D : T05 Concrete Durability Venue: Raphael Hall	Session 4E : T11 Health Monitoring and Non-Destructive Testing Venue: Michelangelo Hall	Session 4F : T04 FRC, HPFRCC, UHPC, ECC, and Advanced Concrete Materials Venue: Nietzsche Hall	Session 4G : T03 Recycled Materials, Supplementary Cementitious Materials Venue: Locke Hall	
	15:00–15:15		Coffee Break			Coffee Break					
	15:15–16:45		Session 5A : T13 Maintenance, Repair, and Retrofit & Remote Techniques for Construction and Related Technology Venue: Archimedes Hall	Session 5B : T01 Low-Carbon Binders, Eco-cement, and Green Concrete Venue: Alexander Hall		Session 5C : T09 Seismic Resistant Concrete Structures Venue: Da Vinci Hall	Session 5D : T05 Concrete Durability Venue: Raphael Hall	Session 5E : T03 Recycled Materials Venue: Michelangelo Hall	Session 5F : T10 & T16 Other Topics, Codes and Standards Venue: Nietzsche Hall	Session 5G : T16 Other Topics Venue: Locke Hall	
	18:00–	President Dinner Invited only				President Dinner Invited only					
Oct. 17 (Sat)	Full day	Technical Tour				Technical Tour					

ACF Special Sessions & Parallel Sessions

Nagataki Special Session 1

Time : Oct. 15 (Thu) 13:00–14:30 | Venue : International Conference Hall

#	Authors	Title
-	Takeshi Yamamoto	Background of the session and introduction of Prof. Nagataki
157	Takeshi Yamamoto	API Method for Rapid Evaluation of the Pozzolanic Activity of Fly Ash
140	Sachie Sato and Seiichi Sudo	Non-Destructive Evaluation of Heat Absorption Temperatures in Concrete Subjected to High-Temperature Heating Using Dielectric Measurement
155	Shinichi Miyazato	Implementation Research of Concrete Mixed with Fly Ash in Hokuriku region
136	Kenta Hoshi, Ryuichiro Kuga, Hiroaki Mori	Effects of Fly Ash Physical Properties on Mortar Flowability
126	Mayuko Hirata, Haruki Momose, Tetsushi Kanda, Daijiro Tsuji, Masaro Kojima, Kei-Ichi Imamoto, Chizuru Kiyohara	Shrinkage Crack Resistance of High-Volume Blast-Furnace Slag Concrete

Okamura Special Session 1

Time : Oct. 15 (Thu) 14:45–16:15 | Venue : International Conference Hall

#	Authors	Title
	Jenn-Chuan Chern	Opening Address
	Kazumasa Ozawa	On the Story behind the Development of Self-Compacting Concrete
	Chao-Chang Liao	Use of SCC in the Transportation Systems of Taiwan
	Yin-Wen Chan	Development and use of SCC in Taipei Twin Towers
	Jui-Chen Wang	Use of SCC in High Technology Factory Construction
	Somnuk Tangtermsirikul	Development and Application of Self-Compacting Concrete in Thailand

1A | Topics : Low-Carbon Binders, Eco-cement, and Green Concrete

Time : Oct. 15 (Thu) 16:15–17:30 | Venue : Alexander Hall

#	Authors	Title
1	Tien Peng	Responsible Sourcing Scheme for Concrete
20	Yu-Min Chang, Ying-Nung Chang, Shu-Ken Lin, Chung-Hao Wu and Huang Hsing Pan	Research on the Engineering Properties of Biomineralized Waste Tire Rubber Fine Aggregate Concrete
57	Yu-Wen Chiu, Chung-Wen Lin, Ming-Fu Wu and Wei-Dong Syu	Sulfate Resistance of Portland Limestone Cement in Sulfate-Rich Environments: Effect of Ground Limestone Filler Content
106	Chih-Hsien Chen, Yu-Chung Tseng, Tzu-Chieh Chiu, Huey-Jia Yeh and Ting-Yun Lai	Implementation of Low-Carbon Cement and Concrete Rating Frameworks: Global Trends and Taiwan's Progress
227	Fuwen Zhong, Qiang Yuan and Zonglin Xie	Rheology-Governed Enhancement of Anti-Washout Resistance in Seawater-Mixed Alkali-Activated Slag Paste via In-Situ Polymerization

1B | Topics : Concrete Durability

Time : Oct. 15 (Thu) 16:15–17:30 | Venue : Locke Hall

#	Authors	Title
5	Kang-Shiun Huang, Shih-Wei Cho and Chung-Chia Yang	Quantitative Evaluation of Slag Effects on Chloride Migration in Matrix and Interfacial Transition Zone
83	Keisuke Matsumoto, Yanyue Qin, Yuya Takahashi, Yuto Fujikawa, Yoshikazu Ohara, Kazunori Miyanaga, Tatsuki Takahashi and Hideto Kida	Wet Fatigue Characteristics of High-Strength Concrete through Underwater Bending Fatigue Test of Small-scale RC Beams
86	Hsin-Hsiang Hsu, Kuo-Shen Jao, Sheng-Hsueh Lin, Ming-Ku Chen, Ping-Hung Chen, Tien-Yu Chen and Fu-Hsiung Huang	The Future of Smart Bridge Systems: A Case Study of the Yugang Viaduct Bridge on National Freeway No. 1 in Taiwan
179	Chih-Hui Tseng, Wen Po Hsun and Yin-Wen Chan	Behavior of Sulfate Deterioration and Pore Transport Properties of Limestone Cement Materials
226	Zonglin Xie and Qiang Yuan	BOND MECHANISM OF ORGANIC ADHESIVE AND CEMENT-BASED MATERIALS

Nagataki Special Session 2

Time : Oct. 16 (Fri) 09:00–10:30 | Venue : Socrates Hall

#	Authors	Title
156	Kotaro Uchida, Takashi Kawakami, Yoshikazu Akira, Toshinobu Yamaguchi	Strength and durability characteristics of concrete incorporating volcanic glass powder from Shirasu
130	Takato Tsuboguchi and Kozo Onoue	Comparison of Slowly and Rapidly Cooled Electric Arc Furnace Oxidizing Slag Fine Aggregates: Particle Morphology, ITZ Characteristics, and Mortar Strength
127	Shunsuke Tanaka, Hirokazu Kiriyama and Konosuke Takahara	Effect of Carbonation Treatment of Recycled Coarse Aggregate on the Drying Shrinkage of Recycled Aggregate Concrete
135	Munenori Yamada, Kohei Eguchi, Hiroshi Kadota, Yukiko Nishioka, Daijiro Tsuji, Yosaku Ikeo and Masaro Kojima	Development of Carbon-Negative Concrete Utilizing CCUS Materials Derived from Demolished Concrete
143	Masashi Shinsugi	Fundamental Study on Strength Development Mechanism in Cement Paste with High Replacement of Cement by CO_2-Fixed Sludge Particles

2A Topics : Concrete Volume Stability (Shrinkage and Creep)

Time : Oct. 16 (Fri) 09:00–10:30 | Venue : Archimedes Hall

#	Authors	Title
invited	Petr Havlásek, Vít Šmilauer, Lenka Dohnalová, Pavel Reiterman, and Wen-Cheng Liao	Procedure for robust updating of drying shrinkage of self-compacting concrete
8	Koji Shimabe and Koji Matsumoto	Investigation of the Mechanism of DEF Expansion in Concrete based on Direct Measurements of Aggregates and Aggregate-Paste Interfaces
131	So Goto and Hiroaki Mori	Influence of Natural Zeolite on Shrinkage Cracking Properties of Concrete
169	Hoang Trung Hieu Duong, Grisella Audria Gunawan and Wei-Chien Wang	The Effect of Silica Fume and Accelerators on Mechanical Strength and Drying Shrinkage of High Early Strength Mortar
206	Doan-Binh Nguyen and Wen-Cheng Liao	Application of machine learning methods for predicting total creep of self-compacting concrete

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2B Topics : Low-Carbon Binders, Eco-cement, and Green Concrete

Time : Oct. 16 (Fri) 09:00–10:30 | Venue : Alexander Hall

#	Authors	Title
71	Van Cuong Tran, Chang-Jun Lee, Islambek Manap, Ji-Hyun Kim and Chul-Woo Chung	Particle-Scale Breakdown Behavior of BOF Slag during Wet Carbonation and Its Effect on CO2 Mineralization and Reactivity
81	Phyothant Htein, Fang Zheng and Yuya Sakai	Feasibility of Using Crystalline Low-Quality Sand as a Water-Activated Cement-Free Binder via Solvothermal Pre-Activation
146	Hsi-An Chen and Chun-Tao Chen	Synergistic Densification Mechanism in Limestone Calcined Clay Cement (LC3) Revealed by Statistical Nanoindentation and Chemical Mapping
149	Joseph Lucas and Chun-Tao Chen	Carbon Capture and Engineering Performance of Class F Fly Ash-Activated Carbon Geopolymer Composite Pastes
167	Xiang Hu	Investigation on the stability of vaterite polymorphs under the influence of calcium silicate minerals
219	Karasawa Hideaki	Effect of Water-to-Binder Ratio on Compressive Strength and CO_2 Uptake in Precast Concrete Products

2C Topics : AI/ML for Design, Analysis, and Predictive Decision-making

Time : Oct. 16 (Fri) 09:00–10:30 | Venue : Da Vinci Hall

#	Authors	Title
87	Min-Jeong Cho and Hyeon-Jong Hwang	Reinforcement Learning-based Design Optimization of 3D Space Frames
124	Lin Shang-Hua, Hsu Ci-Xin and Chen Peng-Yu	An Automated Optimization Design System for RC Moment-Resisting Frames Integrating Graph Neural Networks and Particle Swarm Optimization
134	Kiyofumi Nakada, Kaori Nemoto, Naoko Tsuchiya, Naoki Mishima, Koichi Matsuzawa and Tadatsugu Kage	AI-Based Image Classification for Deterioration Assessment of Exterior Finishes in RC Buildings
175	Yu-Kai Wang	An Intent-Routing RAG-Based AI Assistant for Concrete Engineering
184	Ruiqi Ji and Naoshi Ueda	Machine Learning-Driven Prediction of ASR Expansion
201	Hongyuan Guo	Physics-informed neural networks for mesoscale chloride diffusion in concrete

2D Topics : Concrete Durability

Time : Oct. 16 (Fri) 09:00–10:30 | Venue : Raphael Hall

#	Authors	Title
7	Takashi Sato, Koichi Kobayashi and Ryo Kitagawa	EFFECT OF BICARBONATE ION ON THE WATER TIGHTNESS OF CEMENTITIOUS MATERIALS
47	Shingo Asamoto, Suzuka Murata and Lam Trong Nguyen	Moisture Uptake and Drying Characteristics of Autoclaved Aerated Concrete with Different Pore Structures
69	Shuya Sakon, Kiyofumi Nakada, Manabu Kanematsu and Junho Kim	Fundamental Research on Evaluating Wet Conditions of Concrete Surfaces Using ACM-Type Corrosion Sensor
171	Vu Viet Hoang, Jin-An Du, and Wei-Hsiu Hu	An Experimental Study on the Bacterial Self-Healing Capacity of Cementitious Mortar Under Varied Curing Regimes
180	Hafiz Muhammad Shoaib and Kenichiro Nakarai	Effect of Extended Water Curing after Heat Curing on Chloride Transport Resistance of Fly Ash Concrete under Cyclic Wetting–Drying Exposure
193	Sakito Kobayashi	Effect of flow velocity on sulfuric acid deterioration of mortar

2E Topics : Testing and Modeling for Concrete and Structures

Time : Oct. 16 (Fri) 09:00–10:30 | Venue : Michelangelo Hall

#	Authors	Title
16	Yusuke Maida, Kakeru Sato, Zelin Wang, Alex Shegay, Koichi Kusunoki and Hiroyasu Sakata	Cyclic loading test of reinforced concrete frames with masonry infill retrofitted with steel dampers
32	Michihiro Kunii and Hirotaka Suzuki	Experimental Study and Seismic Design of Railway RC Rigid-Frame Viaduct Columns under High Axial Compression
45	Yukihide Kajita, Yoshiaki Sakai and Tomohiko Yamasaki	Investigation of the Load-Bearing Performance of Precast Box Culverts with Corner Joints by Reversed Cyclic Load Tests
58	Remma Sato, Xi Ji, Yuya Takahashi, Haruki Goto, Ryo Yoshida, Kento Saito and Takuya Maeshima	Moisture and Heat Transfer Characteristics of Pavements Based on the Microstructure of Asphalt Mixtures and Their Impact on the Properties of Reinforced Concrete Slabs
61	Hansu Choi, Seong-Hyun Park, Geuntae Hong, Jin-Young Lee, Jun-Mo Yang and Seong-Cheol Lee	Experimental Investigation on the Bond Behavior of a GFRP Bar in PP Fiber-Reinforced Concrete Containing Steel Slag
214	Rinta Nakamura	Numerical Study on the Load-Resisting Mechanism of Steel Girder–RC Girder Connections

2F Topics : FRC, HPFRCC, UHPC, ECC, and Advanced Concrete Materials

Time : Oct. 16 (Fri) 09:00–10:30 | Venue : Nietzsche Hall

#	Authors	Title
41	Ya Chun Chang, Ming-Gin Lee, Yung-Chih Wang and Wei-Chien Wang	Debating Sustainability and Strength: Life-Cycle Performance of Ultra-High Performance Concrete (UHPC) and a Critical Evaluation of Pressurized Carbon Capture Curing Technology
53	Changyu Kuo	Multifunctional Structural Concrete with Integrated Energy Storage: Hybrid Fiber and Carbon Nanomaterial Reinforcement
116	Chia-Hsuan Chen, Min Tsung Chen, Shang-Fei Chuo and Ming-Gin Lee	Application of Ready-Mix Ultra-High Performance Concrete in Taiwan Highway Bridge Repair
154	Shi Yin	Research and Applications of High-Performance Polyolefin Notched Fibers in Mass Concrete,Flooring,UHPC and ECC
161	Yi-Cheng Lu, Min-Hsieh Li, Chia-Ying Chung and Wei-Hsiu Hu	Low-Carbon Engineered Cementitious Composites (ECC) Using Portland Limestone Cement (PLC), Ground Granulated Blast-Furnace Slag (GGBFS), and Carbonation Curing
181	Wen Zhou, Rowin Bol, Zhaozheng Meng, Erik Schlangen and Branko Šavija	Tailored Poisson's Ratio-reinforced Cementitious Composites

2G Topics : Supplementary Cementitious Materials

Time : Oct. 16 (Fri) 09:00–10:30 | Venue : Locke Hall

#	Authors	Title
invited	Faiz Shaikh	Lithium slag as potential supplementary cementitious materials for low-carbon concrete: pozzolanic, and mechanical and durability properties
79	Kentaro Nakazato, Faizudin Hafiz Zadah and Yao Luan	Early-Age Mechanical Performance and Cracking Behavior of SHCC Incorporating High-Volume Blast-Furnace Slag
97	Takeshi Iyoda	Proposal for Grading system of Concrete Environmental Impact on Carbon dioxide Emissions and Circular Economy in Various Types of Concrete
142	Kyoka Kumano, Yuko Ogawa, Kenji Kawai, Seiya Jigawa, Shinichiro Ishimori and Yuji Tsubota	STRENGTH AND MASS TRANSFER RESISTANCE OF CONCRETE USING HIGH-BIOMASS CO-FIRED FLY ASH
188	Tanapat Kaewkrajok, Warangkana Saengsoy and Somnuk Tangtermsirikul	Effects of Substandard Fly Ash on Free Expansion and Compressive Strength of Expansive Concrete
209	Ali Babalghaith, Saeed Al-Tarbi, Mariam Al Sobaie, Rida Assaggaf and Mohammed Al-Osta	CO_2-Cured Masonry Units Incorporating Construction and Demolition Waste Aggregates and Sustainable Binders

Nagataki Special Session 3

Time : Oct. 16 (Fri) 10:45–12:00 | Venue : Socrates Hall

#	Authors	Title
60	Kazuto Fukudome	Proposal of a Support System for Creating Curing Plan of Concrete
120	Takahiko Watanabe, Yushi Kita and Hitoshi Takeda	VFC Replacement Strengthening of Existing RC Hollow Slab Bridges with Insufficient Void Cover
13	Saki Namimatsu, Mitsuyasu Iwanami	Spatial Evaluation of Crack Propagation in Surface-Coated Concrete Using Image Analysis and Spatial Statistical Methods
48	Takahiro Nishida, Miyu Ohtake, Takanosuke Suzuki and Lanh Si Ho	Degradation Progress of Bridge Structures Based on Markov Chain Model with Visual Inspection Data – A Case Study in Japan

Address of appreciation by Prof. Nagataki

3A Topics : Maintenance, Repair, and Retrofit

Time : Oct. 16 (Fri) 10:45–12:00 | Venue : Archimedes Hall

#	Authors	Title
29	Fuki Ishizuka, Koji Matsumoto, Takashi Hirai, Kunikatsu Yoshida, Ryotaro Bunya and Tamon Ueda	Bond Behavior of NSM-CFSS Applied to Concrete Damaged by Freeze-Thaw Cycles
39	Henri Kamada, Ryo Yoshida, Takanori Sumi and Shohei Yoshida	The Effects of Environmental Factors and Aging on the Surface Quality of Concrete on Urban Expressways
163	Wei Zhang and Benqing Lin	Experimental and theoretical study on the flexural behavior of reinforced concrete beams strengthened with CFRP-SMA composite plate
194	Kazuhiro Kamiyama, Itsuki Ichibangase and Hiroki Tamai	Structural Performance of Deteriorated and Segment-Rehabilitated Reinforced Concrete Sewer Pipes

3B Topics : Low-Carbon Binders, Eco-cement, and Green Concrete

Time : Oct. 16 (Fri) 10:45–12:00 | Venue : Alexander Hall

#	Authors	Title
74	Fu-Chi Hsu, Ssu-Yu Chen and Tzong-Ruey Yang	Study on the Early-Age Engineering Properties of PLC Cementitious Materials
93	Dohyeong Kim, Jin-Young Lee, Jun-Mo Yang, Seong-Cheol Lee and Geuntae Hong	Effect of Superabsorbent Polymer on Mineral Carbonation and Physical Properties of Steelmaking Slag Concrete
95	Seongwon Choi and Geuntae Hong	Mechanical Performance of BOF Slag Mortar Modified with Superabsorbent Polymer under Accelerated Carbonation Curing
108	Omid Hassanshahi, Nima Azimi and Diana Bajare	Chemo-Mechanical Damage Evolution and Carbon Efficiency of Biomass-Modified Cement Mortars under Compressive Loading
123	Lin Yu-Hsien	Method for sequestering carbon by utilizing wasted fresh concrete

3C Topics : AI/ML for Design, Analysis, and Predictive Decision-making

Time : Oct. 16 (Fri) 10:45–12:00 | Venue : Da Vinci Hall

#	Authors	Title
117	Ozana-Adnana Petcu, Georgiana Bunea, Ana-Maria Toma, Petru Mihai, Aliz-Eva Mathe and Ionut-Ovidiu Toma	Ensemble Machine Learning for Predicting the Seismic Behavior of Medium-Rise Reinforced Concrete Frame Structures
215	Euncheol Choi	Deterministic IFC-to-Revit Native Reconstruction Across Heterogeneous BIM Authoring Tools
217	Lee Hwa Eun	Development of a Mixed Reality-Based Visualization and Measurement System for Automated Rebar Placement Inspection
220	Min-Seo Kim, Yoon-Soo Shin and Changsoo Kim	Numerical Database and Parameter Analysis of RCS Joints
221	Yoon-Soo Shin, Min-Seo Kim and Changsoo Kim	Feature Importance Analysis of Multi-Channel Ground Motion Representation for Deep Learning-Based Nonlinear Seismic Response Prediction

3D | Topics : Concrete Durability

Time : Oct. 16 (Fri) 10:45–12:00 | Venue : Raphael Hall

#	Authors	Title
19	Nigene Ndeze, Shinichi Miyazato and Yuuki Hosaka	VISUAL ASSESSMENT OF MORTAR SURFACE CONDITION AS AN INDICATOR OF PHYSICAL, MECHANICAL, AND DURABILITY PERFOMANCE
80	Younga Jang, Wonchang Kim, Jieun Choi, Heesup Choi and Taegyu Lee	Dominance Analysis of Governing Factors for Residual Compressive Strength of Thermally Stressed Concrete
107	Nima Azimi, Omid Hassaanshahi and Diana Bajare	Chemo-Mechanical Degradation of an NHL–Pozzolan Mortar under Prolonged Sulfuric-Acid Exposure: Implications for Sustainable and Circular Binders
196	Fumiya Egusa	Influence of particle size of roof tile waste aggregate on the internal curing effect on mass transfer resistance of steam-cured fly ash concrete
218	Taemee Thabtheang, Warangkana Saengsoy and Somnuk Tangtermsirikul	Effects of a Crystalline Material on Iron Sulfide Oxidation Suppression

3E | Topics : Health Monitoring and Non-Destructive Testing

Time : Oct. 16 (Fri) 10:45–12:00 | Venue : Michelangelo Hall

#	Authors	Title
23	Masatoshi Aizawa, Mitsuhiro Takeda	Laboratory and Field Assessment of Concrete Surface Densification Using a Simplified Permeability Testing Device
56	Chia-Chi Cheng, Kai-Chieh Chang and Dong-Long Jiang	Comparative Analysis of Rayleigh Wave Velocity Profiling and HTLM-based Layered Inversion for Assessing the Deteriorated Range of Heat-Damaged Concrete
91	Hoi-Fung Yip and Tomoko Fukuyama	Compressive Strength and Voltage Response of PVDF/Cement Mortar Composites under Cyclic Loading
138	Yujiro Sumiyoshi, Kiyoshi Nonaka, Ryo Kishira and Akane Ikada	Application of Combining RFID and Sensing Technology - Determining the Optimal Time for Early-entry Sawing for Concrete Pavement Based on Temperature

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3F | Topics : FRC, HPFRCC, UHPC, ECC, and Advanced Concrete Materials

Time : Oct. 16 (Fri) 10:45–12:00 | Venue : Nietzsche Hall

#	Authors	Title
72	Ai-Yun Lin, Chia-Ying Chung, Yi-Cheng Lu, Jin-An Du and Wei-Hsiu Hu	Long-Term Expansion–Shrinkage Behavior of Ultra-High-Performance Concrete (UHPC) under Different Curing Regimes
102	Chun-Cheng Chang, Wen-Cheng Liao and Shih-Yang Lai	Experimental Validation Study on the Localization of UHPC in Taiwan in Compliance with AASHTO UHPC Specifications
122	Vyacheslav Falikman	Very High Strength Fast-Hardening Concrete Using Composite Binders
148	Tesfahun Mekonnen and Chun-Tao Chen	Production of Functionally Graded Cement Mortar via Electrokinetic Treatment
185	Naoshi Ueda	Finite Element Analysis of Fiber-Reinforced Cementitious Composites Considering Fiber Orientation Using an Orthotropic Model

3G | Topics : Supplementary Cementitious Materials

Time : Oct. 16 (Fri) 10:45–12:00 | Venue : Locke Hall

#	Authors	Title
9	Ze Liu, Yu Gao, Shuaiyun Wen and Chanchan Lu	Workability and Properties of cement solidified Municipal solid waste incineration (MSWI) fly ash as mineral admixture
44	Hsin Ying Wu, Ying Kuan Tsai, Wei Hao Lee and Si Chen Chen	Experimental Investigation of the Mechanical and Functional Properties of Geopolymers Based on Lunar Regolith Simulant
66	Si Gon Kim, Ji Eun Choi, T ae Hyung Kim, Young Jin Nam and Tae Gyu Lee	Mechanical Property Evaluation of Mortar Incorporating Carbon-Neutral Multi-Component Construction Materials Using Non-Destructive Testing
68	Mizuki Takahashi and Shingo Asamoto	The Combined Effects of Blast Furnace Slag and Fly Ash on Mortar Properties under Different Early-Age Curing Temperature Histories
96	Chiaki Kawatani and Takeshi Iyoda	Effects of Water-to-Binder Ratio and Ordinary Portland Cement Content on the Hydration Behavior of High-Volume Blast-Furnace Slag Cement

4A Topics : Maintenance, Repair, and Retrofit

Time : Oct. 16 (Fri) 13:30–15:00 | Venue : Archimedes Hall

#	Authors	Title
6	Yuki Iino and Kohei Nagai	Development of Meso-scale Digital Twin Model for Damaged RC Based on Surface Information
52	Atsunori Kouro, Xi Ji and Yuya Takahashi	Meteorological/Oceanographic Databases Utilizations for Assessing Airborne-Chloride-Induced Deterioration Risk in Concrete Bridge Networks
204	Ikuyo Koike and Hirotaka Suzuki	Restoration of Railway Viaducts Damaged by the 2025 Offshore Aomori Earthquake
210	Riko Iinuma, Makoto Iwasaki, Nicharin Nithimethaporn, Katsufumi Hashimoto and Natsuki Yoshida	Self-Powered Monitoring System for Detecting Deterioration of Concrete due to Sulfuric Acid Attack Using Electret MEMS Vibrational Energy Harvester
223	Chien-Kuo Chiu and Teshome Chala Addune	Investigation on Rehabilitation of RC Frames with Corroded Infill RC Squat Walls after Cyclic Loading using CFRP Sheets/Strips
225	Chien-Kuo Chiu and Yonas Teferi Yilma	Experimental investigation on rehabilitation effectiveness of locally corroded RC slabs using external CFRP strip plates

4B Topics : Low-Carbon Binders, Eco-cement, and Green Concrete

Time : Oct. 16 (Fri) 13:30–15:00 | Venue : Alexander Hall

#	Authors	Title
24	Hajun Im, Jieun Choi, Youngjin Nam, Hyeonggil Choi and Taegyu Lee	Mechanical Performance of Lithium Slag Mortar under Ambient and Elevated Temperature Curing
27	Wei-Chien Wang, Chia-En Tsai, Kai-Jie Hu and Ming-Gin Lee	Effect of Limestone Powder on the Hydration Heat Evolution and Adiabatic Temperature Rise of Portland Cement Systems
55	Gunja Shah and Alireza Kashani	Alkaline Activation of Delithiated β-Spodumene in Hybrid Cementitious Systems
94	Thoudam Kritish Singh and Geuntae Hong	Reaction Behaviour and Strength Development of Alkali-Activated Steelmaking Slags
172	Shipeng Zhang	Using CO_2 as a rheology modifier and its application in 3D concrete printing
197	You-Lin Huang, Chao-Feng Wu , and Yin-Wen Chan	Study on the Effects of GGBS and Fly Ash Application on Carbon Sequestration in Concrete

4C Topics : AI/ML for Design, Analysis, and Predictive Decision-making

Time : Oct. 16 (Fri) 13:30–15:00 | Venue : Da Vinci Hall

#	Authors	Title
38	Yosuke Doi, Kanako Toda, Takumi Saito, Tsutomu Sato, Yuzo Akashi and Daisaku Suda	Machine Learning-Based Prediction of Strength Development in Dredged Soil-Steel Slag Mixtures and Analysis of Feature Influence on Strength
82	Jieun Choi, Hajun Im, Si Gon Kim, Hyeonggil Choi and Tae Gyu Lee	Prediction of Residual Compressive Strength Ratio of High-Temperature Exposed Concrete Using Machine Learning Techniques
147	Kotoha Makino, Yue Bao, Atutoshi Kurihara and Sachie Sato	AI-Assisted Infrared Thermographic Inspection for Exterior Wall Deterioration Assessment of Reinforced Concrete Buildings Using Environment-Aware Pseudo-Thermal Image Generation
132	Wang Yueqi, Ichikawa Shotaro and Tamataki Koji	Development of an AI-Based Aggregate Grading Estimation Application for Ready-Mixed Concrete Plants
166	Jeonghyun Kim and Diana Bajare	Data Availability and Reproducibility in Concrete Properties Prediction Machine Learning Research
213	Serrin Kim	Verification-aware LLM orchestration of deterministic design engines for code-compliant reinforced concrete building design

4D Topics : Concrete Durability

Time : Oct. 16 (Fri) 13:30–15:00 | Venue : Raphael Hall

#	Authors	Title
21	Honoka Osawa, Ren Dawei, Kodai Ueda and Kohei Nagai	Numerical Simulation of Moisture Transport in Reinforced Concrete with Splitting Cracks Using 3D RBSM
25	Yuanxiang Dong and Naoshi Ueda	Experimental Investigation of Expansion and Elastic Modulus of ASR-Affected Concrete Under Prestress
34	Yusei Oyama, Kota Inaba, Tran Minh, Ouyang Zenan and Takeshi Maki	Flexural Behavior of Prestressed Concrete Beams with Corroded PC Strand
43	Dawei Ren, Minghong Qiu and Kohei Nagai	Investigation on Mechanical Failure and Permeability Evolution of UHPC Based on 3D RBSM-Conduit Coupled Model
141	Guan-Lin Ye, Chang-Wei Lin and Yu-Hsien Lin	Durability Performance of Concrete Incorporating Portland Limestone Cement, Ground Granulated Blast-Furnace Slag, and Fly Ash
162	Hongbok Choe, Manabu Kanematsu, Shunya Sakon, Jun-taek Jeong, Naoko Tsuchiya, Kiyofumi Nakada, Tomohisa Mukai and Hideyuki Kinugasa	Evaluation of the Durability of Hot-dip Galvanized Bars in Concrete under High Temperature Environment

4E Topics : Health Monitoring and Non-Destructive Testing

Time : Oct. 16 (Fri) 13:30–15:00 | Venue : Michelangelo Hall

#	Authors	Title
64	Yuto Tanaka, Yuma Kawasaki and Tomoko Fukuyama	Differentiation of Fracture-Induced and Triboelectric Electrification in Cement Paste Using Voltage and Acoustic Emission Measurements
70	Kosuke Yokota, Tomoko Fukuyama and Takashi Ikuno	Time-Dependent Evaluation of Corrosion-Induced Cracking in Cement-Based Materials Using Electrical Impedance Tomography
74	Kenji Seta and Tomoko Fukuyama	Characterization and Mix Design Optimization of Carbon Nanotube-Modified Cementitious Materials for Self-Diagnostic Repair Applications
76	Seunghyun Youn, Yuma Kawasaki, Tomoko Fukuyama, Hiroharu Kamada and Rintaro Yawaka	Acoustic Emission Evaluation of Damage Progression in 3D-Printed Layered Cement-Based Specimens under Compressive Creep
90	Rintaro Yawaka, Tomoko Fukuyama, Yuma Kawasaki, Hiroharu Kamada and Seunghyun Youn	Evaluation of Damage Progression and Creep Behavior in 3D-Printed Cementitious Specimens Based on Stepwise Compressive Loading
186	Daiki Tanaka, Yosuke Ito and Shinji Kawabe	Effect of Impact Position on Impact-Sound Characteristics in Hammering Inspection of Exterior Tile Walls

4F Topics : FRC, HPFRCC, UHPC, ECC, and Advanced Concrete Materials

Time : Oct. 16 (Fri) 13:30–15:00 | Venue : Nietzsche Hall

#	Authors	Title
36	Chenwen Lee, Chunhua Fang, Yenchang Su, Mingku Chen, Yuchen Ou, Yenru Wu, Yanming Fong, Caiyi Luo and Chengjang Guo	Application of Ultra-High Performance Concrete (UHPC) in Bridge Engineering - A Case Study of Kaohsiung Section Construction Works of National Freeway No.7
98	Wen-Cheng Liao, Wen-Cheng Hsu and Yu-Wei Liao	Numerical Analysis and Experimental Study on Simplifying the Connection Between BRB and RC Frames Using Steel Fiber Reinforced Concrete
125	Naomasa Fujimoto and Tomoko Fukuyama	Evaluation of the Heat Transfer Characteristics of Carbon Nanotube-Mixed Cementitious Materials for Potential Applications of the Seebeck Effect
145	P.L. Ng, J.J. Chen and A.K.H. Kwan	Improving post-fire performance of concrete by incorporating nano-silica sol
187	Yong Chen Li, Jhen Wei Wu, Tsung Yeh Hsieh, Chun Chung Chen and Yu Chen Ou	Experimental Behavior of a 25.8-Meter Precast Segmental Prestressed UHPC Girder
208	Rida Assaggaf, Ali Babalghaith, Saleh Bin Alshekh Ali and Amin Al-Fakih	Effect of Dry Mixing Time and Fiber Integration Sequence on the Flowability and Mechanical Properties of UHPC

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4G Topics : Recycled Materials & Supplementary Cementitious Materials

Time : Oct. 16 (Fri) 13:30–15:00 | Venue : Locke Hall

#	Authors	Title
35	Taehyung Kim, Youngjin Nam, Sigon Kim, Heesup Choi and Taegyu Lee	Mechanical Properties of Concrete with Modified Bio-Sulfur as a Cement Replacement
37	Youngjin Nam, Taehyung Kim, Hajun Im, Heesup Choi and Taegyu Lee	Mechanical Performance and Microstructural Implications of Plastic Pyrolysis Char as a Cement Replacement in Mortar
88	Wepola Wijesinghe, Yao Luan, Sabiha Tarannum and Chunhe Li	Utilization of IGCC Slag as Fine Aggregate in Strain-Hardening Cementitious Composites
101	Chia-Cheng Lin, Wen-Hui Chen, Po-Jui Li and Ssu-Yu Chen	Volume Stability and Durability of Recycled Aggregate Concrete
144	Akihiro Kubo, Dao Xuan Hoang, Yuko Ogawa and Kenji Kawai	STRENGTH AND HYDRATION PROPERTIES OF HIGH-STRENGTH STEAM-CURED FLY ASH CONCRETE USING INTERNAL ALKALI ACTIVATION BY RECYCLED CONCRETE AGGREGATE
174	Kim Hung Mo and Fengyi Zhang	Valorizing concrete slurry waste as artificial aggregate via carbonation

5A Topics : Maintenance, Repair, and Retrofit & Remote Techniques for Construction and related technology

Time : Oct. 16 (Fri) 15:15–16:45 | Venue : Archimedes Hall

#	Authors	Title
10	Shohei Minakawa, Yasuhiro Koda	Combined Resin-Based Repair and Carbon Fiber Sheet Strengthening for RC Bridge Decks with Disintegration of Concrete: An Experimental Study
30	Yota Arakawa, Naoko Yoshida and Ryo Yoshida	Isolation and Characterization of Thermotolerant, Alkaliphilic Bacillus and Oceanobacillus Strains for Microbial Self-healing Concrete
151	Kohei Mizuno and Kazuya Uragami	Evaluation of the workability of self-compacting concrete using image analysis
192	Tsungyao Huang and Naoshi Ueda	3D-RBSM Analysis of Reinforcing Bar End Configurations in Reinforced Concrete Beams
222	Chiu Chien-Kuo and Tewodros Hebtamu Tsegaw	Experimental Study on the Structural Performance of CFRP-Strengthened Exterior RC Beam–Column Joints with Insufficient Transverse Beam Confinement

5B Topics : Low-Carbon Binders, Eco-cement, and Green Concrete

Time : Oct. 16 (Fri) 15:15–16:45 | Venue : Alexander Hall

#	Authors	Title
49	Anastasia Jesica	Performance of Low-Carbon Concrete: Strength Development Evaluation of Optimized Multi-Waste Concrete Composites
54	Yenfu Lin	Instructions for the Use of GGBFS in Precast Geopolymer Concrete
67	Yu-Sheng Chen, Chun-Fu Chang and Tzong-Ruey Yang	Research on Mineralized Carbon Sequestration Technology for Recycled Water of Ready-Mixed Concrete Plants
73	Chih-Jen Wu, Chi-Wen Ma, Tzong-Ruey Yang and Fu Chi Hsu	Study on the Engineering Properties of Concrete Incorporating Limestone Powder as a Supplementary Cementitious Material
152	Hsien-Keng Chan	Molecular Design of Polycarboxylate (PCE) Superplasticizers for NaOH-Activated Slag: From Plasticizing Performance to Early Hydration Behavior
183	Jhen-Wei Wu	Research on the Application of High Cement Replacement Low-Carbon Concrete in Bridge Column

5C Topics : Seismic Resistant Concrete Structures

Time : Oct. 16 (Fri) 15:15–16:45 | Venue : Da Vinci Hall

#	Authors	Title
31	Terry Y.P. Yuen, Tzu-Han Wen, Marnie B. Giduquio and Min-Yuan Cheng	High-fidelity Simulations of Force Transfer Mechanisms in Reinforced Concrete Walls with Construction Joints
50	Fuka Suzuki	Seismic Behavior of Concrete Columns Reinforced with CFRP Bars and Spirals
114	Jin Ho Park, In Ae Kim and Young Hak Lee	Experimental Evaluation of the Cyclic Lateral Performance of Precast Concrete Shear Walls Using Bolted Pocket Connections
115	Dong Hyeong Lee, Jong Hyun Jung and Min Sook Kim	Experimental Study on Structural Behavior of Shear Wall Joints with Bolted-type Joint Boxes
121	Yujin Yamamoto	Evaluation of Anchorage Performance of a Mechanical Anchorage Using Pull-Out Tests and Meso-Scale Analysis
-	Wisena Perceka, Masykur Kimsa	Probable Moment Strength of Axially Loaded RC Columns for Capacity-Based Shear Design

5D Topics : Concrete Durability

Time : Oct. 16 (Fri) 15:15–16:45 | Venue : Raphael Hall

#	Authors	Title
11	Masaki Koizumi, Satoshi Takaya and Takashi Yamamoto	Basic Investigation into Carbonation Mechanism of One-Part Alkali-Activated Materials
15	Haru Nakamichi and Koji Matsumoto	Analytical Study on Shear Capacity of RC Linear Members Subjected to Width-direction Eccentric Axial Tension
17	Chung-Hao Wu, Guang Ye, Chung-Ho Huang and Yung-Chiang Lin	Use Ultrasonic Pulse Velocity for Evaluating the Density of CO_2-Curing Lightweight Mortar
40	Lilan Zhang and Tetsuya Ishida	Nanoscale Mechanisms of Chloride Transport in C–(A)–S–H Nanopores: Effects of SCM-Induced Composition Changes
99	Sota Toyoda, Kohei Sakihara and Takumi Kasahara	Measurement of Rain Exposure Conditions and Airborne Chloride Transport Analysis Using Digital Twin Modeling for Reinforced Concrete Structures
139	Hiroto Kikuchi and Tomoko Fukuyama	Fracture Behavior of 3D-Printed Mortar: Effects of Residual Interlayer Voids Visualized via X-ray Computed Tomography

5E Topics : Recycled Materials

Time : Oct. 16 (Fri) 15:15–16:45 | Venue : Michelangelo Hall

#	Authors	Title
42	Shohei Arai, Katsufumi Hashimoto, Takafumi Sugiyama and Teppei Endo	Quality Assessment of Carbonated Recycled Aggregate for Permeability at Interfacial Transition Zone by Using Laser-Induced Vibration Test
51	Yanlin Huang	Development of Passive Heat Dissipation Coating and Asphalt Concrete Pavement Using Basic Oxygen Furnace Slag
59	Seong-Hyun Park, Hansu Choi, Geuntae Hong and Seong-Cheol Lee	Mechanical Behavior of Concrete Incorporating NaOH Pre-treated Hydrophobic Recycled Fibers
63	Kailin Hsu	Improving the Workability of Manufactured Sand Concrete Using EVA Redispersible Powder
112	Lige Gu, Yue Liu and Yan Zhuge	Effects of Targeted Biochar Deposition on Mechanical Properties and Microstructure of Recycled Aggregate Mortar
191	Lechin Ngov, Warangkana Saengsoy, Krittiya Kaewmanee and Somnuk Tangtermsirikul	Preliminary Study on the Use of Recycled Sludge Water

5F | Topics : Other Topics & Codes and Standards

Time : Oct. 16 (Fri) 15:15–16:45 | Venue : Nietzsche Hall

#	Authors	Title
104	Yu-Wen Liu, Su-Wen Kao and Chuan Yi Chu	Research on the Effect of Organic Fiber addition on the Properties of 3D Printed Concrete
105	Chiao-Jung Yu, Yung-Tse Cheng and Wen-Cheng Liao	Fabrication and Electrochemical Performance of Cement-Based Composite Energy Storage Materials
164	Karnan Manickavasakam, Mohammed A. Al-Osta and Md. Abdul Aziz	Beyond Load Bearing: Energy-Integrated Conductive Concrete for Smart Infrastructure
178	Kazuki Kimura, Yuzuto Nomura, Ryo Ikezawa, Hiroshi Nemoto and Shigeyuki Date	Effects of Cellulose Nanofibers on Shotcrete
203	Chin-Huai Young and Ding-Yan Tsai	New Technology on Innovative Precast Concrete Solar Wall
212	Myeongguk Son and Baek Jangwoon	Toward a Transparent, Code-Traced Open-Source Alternative to Commercial Structural Analysis for BIM-Based Building Modeling

5G | Topics : Other Topics

Time : Oct. 16 (Fri) 15:15–16:45 | Venue : Locke Hall

#	Authors	Title
12	Masato Ando and Koji Matsumoto	Investigation of the Corrosion Process and Cracking Behavior of Large-Diameter Reinforcing Bars in Concrete
14	Koji Morita, Hiroshi Takenaka and Yoshitaka Kato	Effect of Concrete Flowability on the Number of End-Hose Relocations during Slit Caisson Construction and Prediction of the Required Number of Relocations
177	Kengo Togashi, Miina Hara and Shigeyuki Date	Effects of Foam Curing on the Properties of Steam-Cured Mortar
196	Yu-Chen Su	Feasibility Study of Simulating Crack Propagation in Reinforced Concrete Beam Using the Material Point Method
198	Chung Chih Hung, Feng Ju Hung, Yi Hsuan Ko and Chen-Hong Zhang	Policy Regulation and Competitiveness Challenges of the Cement Industry under the Net-Zero Transition: A Case Study of EU CBAM Implementation and GCCA Global Initiatives
200	Dean Forgeron	CO_2 Treatment of Reclaimed Water: Stabilizing and Enhancing the Cementitious Reactivity of Suspended Solids

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Topics : TCI-JCI Special Session 1

Time : Oct. 16 (Fri) 13:40–14:30 | Venue : Socrates Hall

#	Authors	Title
JCI 1	Masashi Koga – Master's student, Tokyo University of Science	Relationship Between Residual Seismic Capacity Ratio and Natural Period Change in Mid- to High-Rise RC Buildings Damaged During the 2024 Hualien Earthquake
TCI 1 (77)	Melati Sari Dewi – Doctoral student, National Central University	Influence of Fiber Inclusion on UHPM Strength under Aggressive Immersion Environments
JCI 2	Kosuke Murayama – Master's student, Akita Prefectural University	What Happens Before Failure: DIC Visualization of Cracking Behavior in RC Shear Walls with Openings
TCI 2 (100)	Ting-En Lu – Master's student, National Taiwan University	Study on the Creep Behavior and Predictive Models of Ultra-High-Performance Concrete

Topics : TCI-JCI Special Session 2

Time : Oct. 16 (Fri) 14:50–15:40 | Venue : Socrates Hall

#	Authors	Title
TCI 3 (150)	Susan Cherotich Kerio – Doctoral student, National Taiwan University of Science and Technology	Influence of Air-Entraining Agent Characteristics on Carbon Dioxide Storage Efficiency and Microstructural Evolution in Fresh Cement Paste
JCI 3 (85)	Kento Fukuchi – Master's student, Hokkaido University	Optimization of Deep Learning Applications for Selecting Paths in 3D Concrete Printing
TCI 4 (176)	Cheng-Kai Wei – Master' s student, National Taiwan University	Application of 3D Convolutional Neural Networks (3D-CNN) for Concrete Slump Prediction in Ready-Mixed Concrete Plants
JCI 4	Tomoki Suenaga – Undergraduate student, Kagawa University	Reactivity Evaluation Framework for Emerging Supplementary Cementitious Materials from Regional Underutilized Resources

Topics : TCI-JCI Special Session 3

Time : Oct. 16 (Fri) 16:00–16:50 | Venue : Socrates Hall

#	Authors	Title
JCI 5	Rui Shintani – Undergraduate student, Kagawa University	Elemental Zonation and Microstructure of Calcium Aluminate Cement Paste Exposed to Deep Sea Conditions: A SEM-EDS Study
TCI 5 (182)	Ying Zheng – Doctoral student, National Taiwan University	Biochar-Modified Cement Mortar for Carbon Sequestration and Emission Reduction under Pressurized Carbonated Water Curing
JCI 6	Yuki Kambe – Master's student, Gifu University	Effects of Concrete Cover Thickness and Flexural Crack Width on Reinforcement Corrosion in RC Members
TCI 6 (224)	Fikri Ghifari – Doctoral student, National Taiwan University of Science and Technology	Experimental Study on the Effect of Recycled Polyethylene Terephthalate Fiber on Compressive and Flexural Strength of Low Carbon Concrete

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免加膨粉	✓ 是	✗ 否
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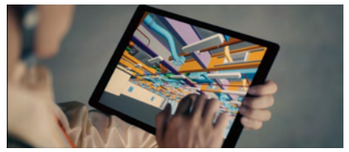

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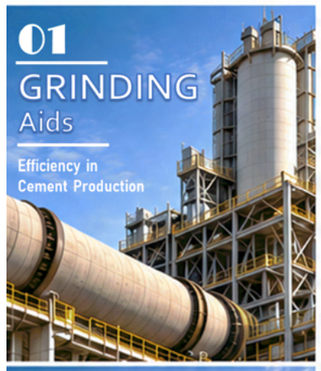
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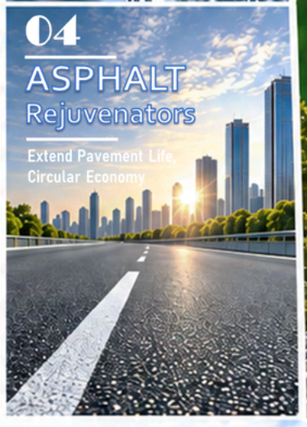
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2.聚焦智慧製造、淨零碳排與循環經濟三大主軸,全面推動製程優化與永續轉。
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從混凝土攪拌、破碎機系列到營建剩餘土石方篩分回收，全面滿足客戶需求。
我們代理國際先進設備，並提供系統整合、技術顧問、維修保養與教育訓練，協助企業提升效率、降低成本，邁向節能減碳與循環永續。

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並獲得臺灣營建研究院新材料新工法認證，
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致力於化解砂石枯竭危機，終結B5類掩埋亂象，以實現零廢棄、低碳建材目標為願景。

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