

The logo for Aqua, featuring the word "Aqua" in a stylized, orange, cursive font.

For a Better Quality of Life



ACECC CECAR 8 Final Report

The background features a large, light pink flower with a yellow center on the left, and a green, textured, leaf-like shape on the right. There are also several smaller pink petals scattered around the main flower.

37th ACECC ECM
Goa, India,
September 25-27, 2019

◆ Contents

1. CECAR8 Local Organizing Committee
2. CECAR 8 Overview Program
 - i. Overview Program
 - ii. ACECC 36th ECM
3. Registration
 - i. Overview
 - ii. Technical Session
4. Exhibit Booth
5. Technical Tours
6. Financial Summery
Addendum:
 1. Opening Ceremony
 2. Plenary Sessions
 3. Presidential Meeting & Closing Ceremony
 4. ACECC Awards Ceremony
 5. CEACAR8 Technical Session Schedule

ACECC CECAR 8

Resilient Infrastructures in Seamless Asia

- Date: April 16-19, 2019
- Venue: Hotel Metropolitan Ikebukuro, Tokyo
- No. of participants: 798
Students: 51
- No. of submitted papers: 233
- No. of sessions: 43, some TSs have 2 or more parts.
- No. of booth exhibitors & booths: 47, 58

Website: <http://www.cecar8.jp/>

Twitter & Instagram: "CECAR8"

1. CECAR8 Local Organizing Committee

Chair

KAYANO, Masayasu, Kajima Corp.

Advisors

KOBAYASHI, Kiyoshi, Ph.D., Kyoto University

KUSAKABE, Osamu, Ph.D., ACECC Chair, International Press-in Association

MORI, Masafumi, Dr. Eng., Ministry of Infrastructure, Land, Transport and Tourism

OHISHI, Hisakazu, Japan Construction Engineers' Association

TASHIRO, Tamiharu, Kajima Corp.

Vice Chairs

HANAOKA, Norio, Yachiyo Engineering Co., Ltd.

OHNISHI, Hirofumi, Ph.D., Katahira & Engineering Inc.

SATO, Shinji, Dr. Eng., The University of Tokyo

Secretary General

KIMURA, Makoto, Ph.D., Kyoto University

Deputy Secretary General

OKUMURA, Yasuhiro, Ministry of Infrastructure, Land, Transport and Tourism

RIHO, Yoshihiko, Kajima Corp.

TSUKADA, Yukihiro, Dr. Eng., Japan Society of Civil Engineers

i. Overview Program

April 16-19, 2019

Time of Day	Day 0 4/15 (MON)	Day 1 4/16 (TUE)	Day 2 4/17 (WED)	Day 3 4/18 (THU)	Day 4 4/19 (FRI)
Venue	Hotel Metropolitan Ikebukuro				
8:00 - 9:00					
9:00 - 9:30					
9:30 - 10:00					
10:00 - 10:15					
10:15 - 10:30		開会式 Opening Ceremony (10:00-11:30) ("Ensemble Civil": 10:00-10:15)			
10:30 - 11:00					
11:00 - 11:30					
11:30 - 12:00		プレナリーセッション1 Plenary Session 1 (11:30-12:30)			
12:00 - 12:30					
12:30 - 13:00					
13:00 - 13:30	参加登録受付 Registration (8:00-18:00)	参加登録受付 Registration (8:00-18:00)	参加登録受付 Registration (8:00-18:00)	参加登録受付 Registration (8:00-15:40)	
13:30 - 14:00		昼食 Lunch (12:30-14:00)	昼食 Lunch (12:30-14:00)	昼食 Lunch (12:30-14:00)	
14:00 - 14:30					
14:30 - 15:00		コンカレントセッション1 Concurrent Session1 (14:00-15:30)	コンカレントセッション5 Concurrent Session5 (14:00-15:30)	コンカレントセッション7 Concurrent Session7 (14:00-15:30)	
15:00 - 15:30	参加登録受付 Registration (13:00-18:00)				
15:30 - 16:00		ブース展示 Booth Exhibit (12:30-18:00)	ブース展示 Booth Exhibit (9:30-18:30)	ブース展示 Booth Exhibit (9:30-15:30)	
16:00 - 16:30					
16:30 - 17:00		コンカレントセッション2 Concurrent Session2 (16:00-17:30)	プレナリーセッション2 Plenary Session2 (16:00-17:00)	閉会式 Closing Ceremony (16:00-17:00)	
17:00 - 17:30			ACECC授賞式 Awards Ceremony (17:00-17:30)		
17:30 - 18:00			ブース展示 (Break) Exhibition		
18:00 - 18:30					
18:30 - 19:00		ACECCプレジデンシャル ミーティング&ディナー ACECC Presidential Meeting & Dinner (18:00-20:15)	ブッフェディナー Buffet Dinner (18:30-20:00)		
19:00 - 19:30					
19:30 - 20:00					
20:00 - 20:30					
20:30 - 21:00					

ii. ACECC 36th ECM

- Date & Time: Monday April 15, 2019, 9:00-20:30
- Venue: JSCE HQ@Yotsuya 1-chome, Shinjuku, Tokyo

- 8:30- 9:00 Registration
- 9:00-12:00 **30th PCM**
- 12:00-13:00 Lunch
- 13:00-15:00 **25th TCCM**
- 15:00-15:30 Coffee break
- 15:30-19:00 **36th ECM**
- 19:00-20:30 Welcome Reception

- ◆ **Participants:** ASCE, CICIHE, EA, HAKI, ICEI, IEB, IEP, JSCE, KSCE, MACE, NEA, PICE, VFCEA, and MES

- **MES**, which attended as an observer, received an approval for their application to become ACECC Member at the 36th ECM.

3. Registration

i. Overview

Category	Number
ACECC Member	434
Non-ACECC Member	57
Speaker, Moderator	220
Student (Buffet Dinner incl.)	19
Student (Buffet Dinner not incl.)	32
Accompany Person	36
Total	798

*Complimentary registration incl.

Category	Early-Bird	On-Site
ACECC Member	¥50,000	¥60,000
Non-ACECC Member	¥55,000	¥65,000
Speaker, Moderator	¥40,000	¥50,000
Student	¥10,000	*Buffet dinner not included.

3. Registration

i. Overview- Demographic-1

ACECC Member	Number
ASCE	93
CICHE	18
EA	8
Fed. MES	1
HAKI	7
ICEI	9
IEB	3
IEP	7
JSCE	354
KSCE	17
MACE	17
MES	1

ACECC Member	Number
NEA	1
PICE	13
VFCEA	3
Others	7
Unknown	239
Total	798

8

8

3. Registration, i. Overview- Demographic-2

Country	Number
Australia	7
Bangladesh	7
Brazil	3
Cambodia	1
Chile	1
China	16
Costa Rica	1
Djibouti	2
Hong Kong	2
India	19
Indonesia	11
Italy	1
Japan	546
Jordan	1
Kyrgyz	1
Lao People's Democratic Republic	1
Lebanon	2
Mongolia	18

Country	Number
Myanmar	3
Nepal	2
New Zealand	1
Pakistan	8
Philippines	20
Republic of Korea	34
Singapore	4
Sri Lanka	5
Taiwan	43
Thailand	9
Turkey	2
United Arab Emirates	1
United Kingdom & Northern Ireland	1
United States of America	13
Viet Nam	12
Total	798

3. Registration

ii. Technical Session-1

*No. of Audience was counted 30 min after the session began.

Area	Session No.	Session Title	Chair	No. of Papers	No of Speakers	No. of Audience
Seismic	TS1-1	Advanced Concept and Implementation of Seismic Design Methods for Resilience Against Intense Earthquake	Riki Honda (The University of Tokyo) Dong Soo Kim (Korea Advanced Institute of Science & Technology)	5	5	59
Coastal, Offshore, Hydraulic & Marine Engineering	TS2-1	Coastal Erosion in Asian Countries-Monitoring, Evaluation and Prediction Techniques Forward Coastal Protection and Adaptation Strategies-	Yoshimitsu Tajima (The University of Tokyo)	5	5	17
	TS2-2	Development of Quality Port Infrastructure Through the Establishment of the National Technical Regulations and Standards	Osamu Kiyomiya (Waseda University)	5	5	21
	TS2-3	Development of the Northern Sea Route and Its Future Tasks	Natsuhiko Otsuka (Hokkaido University)	6	5	Part 1: 8
						Part 2: 10
	TS2-4	Integrated Risk Management for Sediment Related Disasters	Shinji Yamaguchi (National Institute for Land and Infrastructure Management, MLIT)	6	6	28
	TS2-5	Recent Water-Related Natural Disasters in Asian Region	Hitoshi Tanaka (Tohoku University) Il Won Seo (Seoul National University)	10	10	Part 1: 29
Pat 2: 35						

ii. Technical Session-2

Area	Session No.	Session Title	Chair	No. of Papers	No of Speakers	No. of Audience
Coastal, Offshore, Hydraulic & Marine Engineering	TS2-6	Water and Disasters-Toward Building Resilient Society under Climate Change-	Toshio Koike (International Centre for Water Hazard and Risk Management, PWRI) Maximo L. Carvajal (DPWH, the Philippines)	5	5	31
	TS2-7	Wave and Tide Observation and Analysis	Hiroyasu Kawai (PARI) Wen-Son Chiang (National Cheng Kung University)	6	6	19
Tunnel, Management, Geosynthetics	TS3-1	Applications of Geosynthetics for Various Civil Engineering Disciplines	Chiwan W. Hsieh (National Pingtung University of Science and Technology)	7	7	25
	TS3-2	Experiences and Challenges in Construction and Management of Underground Infrastructures	Shinichi Akutagawa (Kobe University)	4	4	28
	TS4-1	Civil Engineering Heritage: Preservation, Reuse and Social Significance	Masaaki Okada (Kindai University)	4	4	7
	TS4-3	How to Utilize Big Data for Transportation Planning and Management	Akimasa Fujiwara (Hiroshima University)	5	5	32
	TS4-4	ITS-based Solutions for Urban Transportation in Asia Pacific Countries	Shunsuke Kamijo (The University of Tokyo)	4 11	4	18

ii. Technical Session-3

Area	Session No.	Session Title	Chair	No. of Papers	No of Speakers	No. of Audience
Quality Infra.	TS4-6	Quality and Resilient Infrastructure in Asia: How Can Investment Gap Be Bridged?	Koki Hirota (Saitama Univ.) Ueda Tamon (Hokkaido Univ.)	10	11	66
	TS6-3	Comparative Study of Quality Infrastructure in Europe, the United States and Asia and Civil Engineer's Contribution				52
	TS6-7	Infrastructure Development and Economic Growth				
Regional revitalization	TS4-7	The Keys of Success in Promoting Regional Revitalization	Shinya Hanaoka (Tokyo Inst. of Tech.) Rubel Das (Nippon Koei Co., Ltd.)	6	6	43
Materials	TS5-1	Sustainable and Eco-friendly Concrete by Effective Application of Local Mineral Admixtures	Tetsuya Ishida (The Univ. of Tokyo)	7	7	34
	TS5-2	Wood Utilization in Civil Engineering	Tadashi Hara (Kochi Univ.) Rihong Zhang (Ningbo Univ.)	7	6	26
Engineering Education, Infra. Maintenance., BIM	TS6-4	Developing a More Relevant Program for Civil Engineering Education	Hironori Kato (The Univ. of Tokyo) Le Binh Phan (Vietnam-Japan Univ.)	5	5	34
	TS6-5	Enhancing Citizens' Understanding on Importance of Infrastructure Based on Infrastructure Health Report	Mitsuyasu Iwanami (Tokyo Inst. of Technology) Thomas W. Smith, III (ASCE)	3	5	38
	TS6-6	INFRA BIM	Sang-Ho Lee (Yonsei University)	5	5	32

ii. Technical Session-4

Area	Session No.	Session Title	Chair	No. of Papers	No of Speakers	No. of Audience
Engineering Education, Infra. Maintenance & Mgt., New technologies, Diversity	TS6-8	Innovative Construction Technologies and Management in Infrastructure Projects	Akira Kashida (Kajima Corp.) Akira Ooka (Taisei Corp.)	15	13	84
						58
						66
	TS6-9	Introduction of Users' Viewpoints in Post Appraisal of ODA Infrastructure Project	Tsunemi Watanabe (Kochi Univ. of Technology) Hai Luong Nguyen (Univ. of Transport & Communications)	7	7	24
	TS6-12	Productivity Improvements in the Field of Construction by ICT	Nobuyoshi Yabuki (Osaka Univ.)	5	5	40
	TS6-13	Study of Failure for Young Civil Engineers	Hiromasa Iwai (Nagoya Inst. of Technology)	2	1	27
	TS6-14	Transdisciplinary Approach for Disaster Risk Reduction by Scientific Knowledge-based Decision-Making - Four Years of Activity of TC21 and Statement from the Members for Future DRR -	Kuniyoshi Takeuchi (Univ. of Yamanashi)	11	11	53
						38
TS6-15 (1)	Transforming Civil Engineering Education and Practice to Achieve the United Nations Sustainable Development Goals: Where We Are	William E. Kelly (ASCE)	6	5	42	
TS6-15 (2)	Transforming Civil Engineering Education and Practice to Achieve the United Nations Sustainable Development Goals: Next Steps				2	3
TS6-16	Women in Civil Engineering	Yoh Sasaki (Waseda Univ.)	6	6	43	

ii. Technical Session-5

Area	Session No.	Session Title	Chair	No. of Papers	No of Speakers	No. of Audience
Climate Change, Environment	TS7-2	Climate Change Adaptation Measures in Water-related Issues	Tomohito Yamada (Hokkaido Univ.)	4	3	26
	TS7-3	Environmentally Sound Management of Construction and Demolition Waste (CDW: Challenges and Opportunities in Asian Countries)	Ken Kawamoto (Saitama Univ.)	5	5	21
	TS7-4	Role of Civil Engineering in Mitigation of Climate Change	Minoru Yoneda (Kyoto Univ.)	5	4	27
Concrete, Structures	GS-1 & GS-5	GS-1 & GS-5-1: Bridge Design	Yuta Yamada (Nihon Univ.)	4	3	20
		GS-1 & GS-5-2: Concrete Materials and Pavement	Kolluru V.L. Subramaniam (Indian Inst. of Technology Hyderabad)	4	4	24
		GS-1 & GS-5-3: Structural Members	Hikaru Nakamura (Nagoya Univ.)	6	6	30
Environment	GS-2	Environmental Systems and Engineering	Akiyuki Kawasaki (The Univ. of Tokyo), Jinwoo Lee (The Hong Kong Polytechnic Univ.)	5	4	10
Construction, Maintenance. & Mgt., New tech.,	GS-3 & GS-6	GS-6-1: Construction Engineering and Management	Yoshinori Fukubayashi (Univ. of Miyazaki)			
		GS-6-2 & GS-3: Monitoring & Large-Scale Tests in Geotechnical & Construction Engineering	Moonkyung Chung (Korea Inst of Construction Engineering)			
		GS-6-3: Application of ICRT/AI in Civil Engineering	Kazuyoshi Tateyama (Ritsumeikan Univ.) ¹⁴			
		GS-6-4: ICRT/AI in Civil Engineering & Construction Safety	Satoshi Kubota (Kansai Univ.)			

ii. Technical Session-6

Area	Session No.	Session Title	Chair	No. of Papers	No of Speakers	No. of Audience
Mgt.	GS-4	Infrastructure Planning and Management	Kuniaki Sasaki (Waseda Univ.) Arnab Jana (Indian Inst. of Technology Bombay)	8	8	Part 1: 18
						Part 2: 20
Coastal, Hydraulic & Marine Eng.	GS-7	Hydrology, Hydraulic, and Coastal Engineering	Tetsuya Ikeda (ICHARM) Chjeng-Lun Shieh (National Cheng Kung Univ.)	5	4	22
Total				233	225	1505

- ◆ 233 papers submitted were published in the CECAR 8 Proceedings in the form of USB flash drive. The copies of Proceedings on the USB flash drive were distributed to the attendees at the registration desk.

The Proceedings on the USB flash drive was included in the registration fee.

4. Exhibit Booth

47 Exhibitors, 58 Booths

- MLIT, Tokyo Metropolitan Govt., NILIM, JICA, JACIC, PARI
- Constructions companies e.g., Kajima, Taisei, Obayashi Road, Okumura, Ando-Hazama, Kumagai, Sumitomo-Mitsui and more
- Consultants e.g., Oriental Consultants, Pacific Consultants, Nippon Koei, Yachiyo Engineering, Katahira & Engineers, CTI and more
- Railway, Road, Electric companies e.g. JR East, NEXCO East, West & Central, Metropolitan Expressway, Kansai Electric Power and more
- Overseas company: ACE Instrument Co., Ltd. (Korea)
 - ¥ 300,000 per booth
- The exhibit booths were categorized into three groups: 1) construction, 2) infrastructure management and maintenance, and 3) consulting and the like, and set up in three rooms in the venue.
- **Many visitors** to the exhibit booths were found anytime during the three days. **Several students** dropped by and made exchange with the booth exhibitors at those rooms

5. Technical Tours

5 one-day tours, 3 half-a-day tours & Tour with Young Engineer

	Tour	No. of Attendees	Reg. fees
One-day Tour	Road Infrastructure Toru in and around Tokyo	13	\$46
	Water Supply Sewerage Infrastructure Tour	16	
	Railway Infrastructure Tour	6	
	Tour of Reconstruction from the Great East Japan Earthquake	14	
	Construction and Demolition Waste Recycling Facility	25	
Half-a-day Tour	Explore Shinjuku Subcenter	14	\$10
	Excursion in Ikebukuro	6	
	Modern Civil Engineering Construction Site	12	
	Tour with Young Engineer to the small old city	3	
Total		109	\$28,05

6. Financial Summary

◆ Revenue

Revenue	Budget (800 reg.)	Actual (798 reg)	Memo
CECAR8 Registration	\$324,074	\$317,392	
Technical Tour		\$2,854	Covered by donation
Booth Exhibit	\$166,666	\$161,395	58 exhibit booths
ACECC Contribution	\$ 133,425	\$131,500	
Income from external sources (Grants)	\$71,759	\$69,038	Grants from 1) Japanese Society for the Promotion of Science, 2) Association for Disaster Prevention Research
Temporarily borrowing from ACECC		\$55,000	
Total	\$695,925	\$737,179	

*US\$1= ¥107.81 in July, 2019, when the surplus of CECAR8 revenue was deposited after the revenue and expenses were fixed.

6. Financial Summary

◆ Expenses

Expenses	Budget (800 reg.)	Actual (798 reg.)	Memo
Venue/room rental	\$159,837	\$157,000	
Catering	\$75,925	\$77,405	Presidential & buffet dinners, coffee breaks, others
Equipment	\$172,222	\$173,822	Audio & visual systems, booth setup, others
Marketing & Printing	\$49,074	\$32,000	PR tools, videos, SNS, programs, proceedings, congress bags, others
Others	\$206,481	\$176,953	Honorarium, travel, photographer, interpreters, Emcee, travel agency's services, JSCE' operation, handling & shipping, others
Reimbursement of temporal loan from ACECC		\$55,000	
Total	\$663,540	\$672,180	

*US\$1= ¥107.81 in July, 2019, when the surplus of CECAR8 revenue was deposited after the revenue and expenses were fixed.

6. Financial Summery

◆ Registration income by category

Category	No. of Early-Birds	Registration income	No. of Full Registrants	Registration income
ACECC	237	\$109,916	159	\$88,489
Non-ACECC	32	\$16,325	24	\$14,470
Speaker/ Moderator	215	\$79,770	—	0
Student	With buffet 16 Without buffet 8	\$1,781 \$743	With buffet 3 Without buffet 24	\$334 \$2,226
Accompanying person	10	\$927	26	\$2,412
Sub total	518	\$209,461	236	\$107,931

*Complimentary
(ACECC members,
speakers & others
incl.)

44

● Total: Registrants 798, Registration income \$317,392

ACECC Member Contribution for CECAR8

	ACECC members	Corporate Contribution (US\$) CECAR 8	No. of Complimentary Registration	Annual Membership fee (\$)
1	ASCE	25,000.00	6	2,500
2	JSCE	25,000.00	0	2,500
3	EA	25,000.00	6	2,500
4	CICHE	20,000.00	4	2,500
5	KSCE	20,000.00	4	2,500
6	ICE(I)	4,000.00	3	1,000
7	HAKI	4,000.00	3	1,000
8	PICE	4,000.00	3	1,000
9	VFCEA	1,000.00	2	1,000
10	MACE	1,000.00	2	1,000
11	IEP	1,000.00	2	1,000
12	IEB	1,000.00	2	1,000
13	NEA	500.00	2	500
	Total	\$ 131,500.00	39	\$ 20,000

The amounts & number of complimentary registration were proposed by the LOC of CECAR8, and approved at the 33rd ECM in Ulaanbaatar, Mongolia.

ACECC Bylaws, Article IV, item 5

“The ACECC will receive 40% of surplus produced by organizing the International Conference (CECAR) and other related activities...”

Following the Bylaws above, the 40% of the surplus \$65,427 produced by organizing the CECAR8 was paid to the ACECC.

The surplus to be paid to the ACECC: \$25,999

= (\$737,179 (the total revenue) - \$672,180 (the total expense)) x 0.40

*The revenue, expenses and surpluses are calculated with the ¥/\$ exchange rate in July, 2019, when the surplus of CECAR8 revenue was deposited after the revenue and expenses were fixed.

- The remaining has been donated to JSCE's technical research & studies programs.
- The financial statements was reported and approved by the CECAR8 LOC on June 20, 2019. Then, they also was reported and approved by the auditor on August 2, 2019.

Addendum

1. Opening Ceremony, Apr 16, 2019, 10:00-11:30

w/a musical performance by Ensemble Civil

- **Opening remarks** by Mr. Masayasu Kayano LOC Chair
- **Movie** "ACECC 20th History"
- **Opening messages**

Prof. Kusakabe, ACECC Chair

Prof. Kobayashi, JSCE President

Dr. Mori Vice-Minister of Land, Infrastructure, Transport and Tourism

Mr. Hasegawa, Vice Governor of Tokyo Metropolitan Govt.

- **Introduction** of Representatives of ACECC Members



2. Plenary Sessions

Plenary Session 1, Apr 16, 11:30-12:30

Mr. Jitsuro Terashima, President, Japan Research Institute
"Global Vision of the 22nd Century -the Roles of Asia in the 21st Century".

Plenary Session 2, Apr 17, 16:00-17:00

Ms. Robin Kemper, 2019 ASCE President
"Engineering the Future"

Plenary Session 3, Apr 18, 9:30-10:30

Mr. Benoit Rulleau, CTO, Kansai Airport Co.
"Building Resilient Airports in Asia"

Simultaneous interpretation between Eng. & Jp.



3. Presidential Meeting & Dinner Apr 16, 18:00-20:30

Meeting @ "Mercury" 18:00-18:55

Dinner @ "Polaris" 19:00-20:30

"Tokyo Declaration 2019" was finalized and signed, and then announced at the Closing Ceremony on 18th.

Closing Ceremony "Fuji", Apr18, 16:00~17:00

- ▶ Announce "Tokyo Declaration 2019"
- ▶ Hand over the ACECC Flag to
- ▶ the CECAR 9 host, ICE, I.



4. ACECC Awards Ceremony “Fuji”, Apr17, 17:00~17:30

MC: Dr. Udai Singh, Chair of ACECC Awards Sub-committee

Outstanding Civil Engineering Project Award

Eurasia Tunnel Project

Civil Engineering Project Awards

Taiwan Taoyuan Int’l Airport Access MRT System Construction Project

Emergency 2008 Cyclone Recovery & Restoration Project

Shinjuku Terminal South Gate Area Infrastructure Development Project

Underground Critical Facilities Construction at Oyutolgoi Project of Mongolia

Achievement Awards

Dr. Yumio Ishi, CIT, Engineering Co., Ltd.

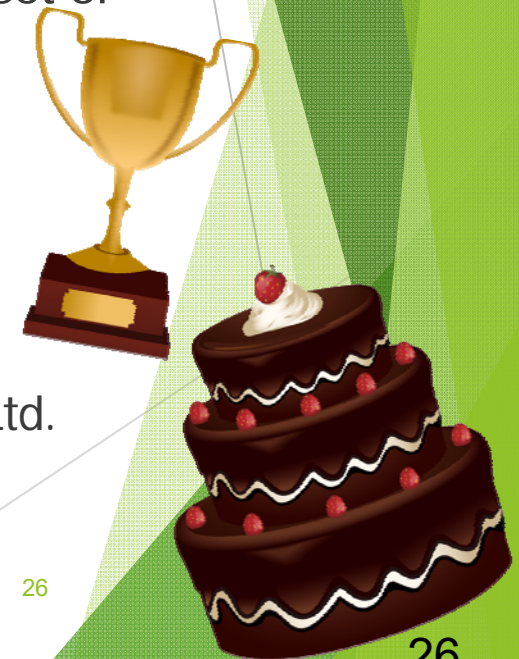
Dr. Sahibzada Farooq Ahmad Rafeeqi, Pro Vice Chancellor,
NED Univ. of Engineering and Technology

Mr. Paul L. Mitchell, Center for Pavement Excellence Asia Pacific Ltd.

Dr. John Chirn-Chung Li, National Central Univ.

TC Activity Award

TC13 BIM



5. Technical Session Schedule

Day 1

Tuesday, April 16, 2019					Tuesday, April 16, 2019				
10:00 - 11:30	Opening Ceremony				Opening Ceremony				
11:30 - 12:30	Plenary Session 1				Plenary Session 1				
12:30 - 14:00	Lunch				Lunch				
Room	Akebono	Yuzuru	Fuji-1	Fuji-2	Fuji-3	Sakura	Asakaze	Hatsukaze	Shunyo
14:00 - 15:30	TS6-15-1: Transforming Civil Engineering Education and Practice to Achieve the United Nations Sustainable Development Goals: Where We Are Chair: William E. Kelly (ASCE)	TS7-3: Environmentally Sound Management of Construction and Demolition Waste (CDW) : Challenges and Opportunities in Asian Countries Chair: Ken Kawamoto (Saitama University)	TS6-8-1: Innovative Construction Technologies and Management in Infrastructure Projects Chairs: Akira Kashida (Kajima Corp.)	TS6-14-1: Transdisciplinary Approach for Disaster Risk Reduction by Scientific Knowledge-based Decision-Making - Four Years of Activity of TC21 and Statement from the Members for Future DRR- Chair: Kuniyoshi Takeuchi (University of Yamanashi)	TS4-3: How to Utilize Big Data for Transportation Planning and Management Chair: Akimasa Fujiwara (Hiroshima University)	TS6-12: Productivity Improvements in the Field of Construction by ICT Chair: Nobuyoshi Yabuki (Osaka University)	TS2-2: Development of Quality Port Infrastructure Through the Establishment of the National Technical Regulations and Standards Chair: Osamu Kiyomiya (Waseda University)	Hold	TS2-7: Wave and Tide Observation and Analysis Chairs: Hiroyasu Kawai (Port and Airport Research Institute), Wen-Son Chiang (National Cheng Kung University)
15:30 - 16:00	Coffee Break				Coffee Break				
16:00 - 17:30	TS6-15-2: Transforming Civil Engineering Education and Practice to Achieve the United Nations Sustainable Development Goals: Next Steps Chair: William E. Kelly (ASCE)	TS3-1: Applications of Geosynthetics for Various Civil Engineering Disciplines Chair: Chiwan W. Hsieh (National Pingtung University of Science and Technology)	TS6-8-2: Innovative Construction Technologies and Management in Infrastructure Projects Chairs: Akira Ooka (Taisei Corp.)	TS6-14-2: Transdisciplinary Approach for Disaster Risk Reduction by Scientific Knowledge-based Decision-Making - Four Years of Activity of TC21 and Statement from the Members for Future DRR - Chair: Kuniyoshi Takeuchi (University of	TS6-6: INFRA BIM Chair: Sang-Ho Lee (Yonsei University)	TS3-2: Experiences and Challenges in Construction and Management of Underground Infrastructures Chair: Shinichi Akutagawa (Kobe University)	Hold	Hold	TS2-1: Coastal Erosion in Asian Countries- Monitoring, Evaluation and Prediction Techniques Forward Coastal Protection and Adaptation Strategies- Chair: Yoshimitsu Tajima (The University of Tokyo)
17:30 - 18:00	Coffee Break				Coffee Break				
18:00 - 19:30	ACECC Presidential Meeting & Dinner				ACECC Presidential Meeting & Dinner				

Day 2

Wednesday, April 17, 2019					Wednesday, April 17, 2019				
Room	Akebono	Yuzuru	Fuji-1	Fuji-2	Fuji-3	Sakura	Asakaze	Hatsukaze	Shunyo
09:00 - 10:30	TS4-1: Civil Engineering Heritage: Preservation, Reuse and Social Significance Chair: Masaaki Okada (<i>Kindai University</i>)	TS6-9: Introduction of Users' Viewpoints in Post Appraisal of ODA Infrastructure Project Chairs: Tsunemi Watanabe (<i>Kochi University of Technology</i>), Hai Luong Nguyen (<i>University of Transport and Communications</i>)	TS6-8-3: Innovative Construction Technologies and Management in Infrastructure Projects Chairs: Akira Kashida (<i>Kajima Corp.</i>)	TS4-6: Quality and Resilient Infrastructure in Asia: How Can Investment Gap Be Bridged? TS6-3: Comparative Study of Quality of Infrastructure in Europe, the United States and Asia and Civil Engineer's Contribution TS6-7: Infrastructure Development and Economic Growth Chairs: Koki Hirota (<i>Japan International Cooperation Agency</i>), Ueda Tamon (<i>Hokkaido University</i>)	TS2-6: Water and Disasters- Toward Building Resilient Society under Climate Change- Chairs: Toshio Koike (<i>International Centre for Water Hazard and Risk Management, PWRI</i>), Eko Winar Irianto (<i>Research and Development Center for Water Resources</i>)	TS4-4: ITS-based Solutions for Urban Transportation in Asia Pacific Countries Chair: Shunsuku Kamijo (<i>National Institute for Land and Infrastructure Management</i>)	GS-6-1: Construction Engineering and Management Chair: Yoshinori Fukubayashi (<i>Miyazaki University</i>)	GS-1 & GS-5-1: Bridge Design Chair: Yuta Yamada (<i>Nihon University</i>)	TS2-3-1: Development of the Northern Sea Route and Its Future Tasks Chair: Natsuhiko Otsuka (<i>Hokkaido University</i>)
10:30 - 11:00	Coffee Break				Coffee Break				
11:00 - 12:30	Hold	TS2-5-1: Recent Water-Related Natural Disasters in Asian Region Chairs: Hitoshi Tanaka (<i>Tohoku University</i>), Il Won Seo (<i>Seoul National University</i>)	Hold		TS4-7: The Keys of Success in Promoting Regional Revitalization Chairs: Shinya Hanaoka (<i>Tokyo Institute of Technology</i>), Rubel Das (<i>Nippon Koei Co., Ltd.</i>)	TS6-16: Women in Civil Engineering Chair: Yoh Sasaki (<i>Waseda University</i>)	GS-6-2 & GS-3: Monitoring & Large-Scale Tests in Geotechnical & Construction Engineering Chair: Moonkyung Chung (<i>Korea Institute of Construction Engineering</i>)	GS-1 & GS-5-3: Structural Members Chair: Hikaru Nakamura (<i>Nagoya University</i>)	TS2-3-2: Development of the Northern Sea Route and Its Future Tasks Chair: Natsuhiko Otsuka (<i>Hokkaido University</i>)
12:30 - 14:00	Lunch				Lunch				
14:00 - 15:30	TS1-1: Advanced Concept and Implementation of Seismic Design Methods for Resilience Against Intense Earthquake Chairs: Riki Honda (<i>The University of Tokyo</i>), Dongsoo Kim (<i>Korea Advanced Institute of Science and Technology</i>)	TS2-5-2: Recent Water-Related Natural Disasters in Asian Region Chairs: Hitoshi Tanaka (<i>Tohoku University</i>), Il Won Seo (<i>Seoul National University</i>)	Hold			TS6-4: Developing a More Relevant Program for Civil Engineering Education Chairs: Hironori Kato (<i>The University of Tokyo</i>), Le Binh Phan (<i>Vietnam-Japan University</i>)	Hold	GS-1 & GS-5-2: Concrete Materials and Pavement Chair: Kolluru V.L. Subramaniam (<i>I.I.T. Hyderabad</i>)	Hold
15:30 - 16:00	Coffee Break				Coffee Break				
16:00 - 17:00	Plenary Session 2				Plenary Session 2				
17:00 - 17:30	ACECC Awards Ceremony				ACECC Awards Ceremony				
17:30 - 18:30	Coffee Break				Coffee Break				
18:30 - 20:00	Buffet Dinner				Buffet Dinner				

Day 3

Wednesday, April 17, 2019					Wednesday, April 17, 2019				
Room	Akebono	Yuzuru	Fuji-1	Fuji-2	Fuji-3	Sakura	Asakaze	Hatsukaze	Shunyo
09:00 - 10:30	TS4-1: Civil Engineering Heritage: Preservation, Reuse and Social Significance Chair: Masaaki Okada (Kindai University)	TS6-9: Introduction of Users' Viewpoints in Post Appraisal of ODA Infrastructure Project Chairs: Tsunemi Watanabe (Kochi University of Technology), Hai Luong Nguyen (University of Transport and Communications)	TS6-8-3: Innovative Construction Technologies and Management in Infrastructure Projects Chairs: Akira Kashida (Kajima Corp.)	TS4-6: Quality and Resilient Infrastructure in Asia: How Can Investment Gap Be Bridged? TS6-3: Comparative Study of Quality Infrastructure in Europe, the United States and Asia and Civil Engineer's Contribution TS6-7: Infrastructure Development and Economic Growth Chairs: Koki Hirota (Japan International Cooperation Agency), Ueda Tamon (Hokkaido University)	TS2-6: Water and Disasters-Toward Building Resilient Society under Climate Change- Chairs: Toshio Koike (International Centre for Water Hazard and Risk Management, PWRI), Eko Winar Irianto (Research and Development Center for Water Resources)	TS4-4: ITS-based Solutions for Urban Transportation in Asia Pacific Countries Chair: Shunsuku Kamijo (National Institute for Land and Infrastructure Management)	GS-6-1: Construction Engineering and Management Chair: Yoshinori Fukubayashi (Miyazaki University)	GS-1 & GS-5-1: Bridge Design Chair: Yuta Yamada (Nihon University)	TS2-3-1: Development of the Northern Sea Route and Its Future Tasks Chair: Natsuhiko Otsuka (Hokkaido University)
10:30 - 11:00	Coffee Break				Coffee Break				
11:00 - 12:30	Hold	TS2-5-1: Recent Water-Related Natural Disasters in Asian Region Chairs: Hitoshi Tanaka (Tohoku University), Il Won Seo (Seoul National University)	Hold	TS4-7: The Keys of Success in Promoting Regional Revitalization Chairs: Shinya Hanaoka (Tokyo Institute of Technology), Rubel Das (Nippon Koei Co., Ltd.)	TS6-16: Women in Civil Engineering Chair: Yoh Sasaki (Waseda University)	GS-6-2 & GS-3: Monitoring & Large-Scale Tests in Geotechnical & Construction Engineering Chair: Moonkyung Chung (Korea Institute of Construction Engineering)	GS-1 & GS-5-3: Structural Members Chair: Hikaru Nakamura (Nagoya University)	TS2-3-2: Development of the Northern Sea Route and Its Future Tasks Chair: Natsuhiko Otsuka (Hokkaido University)	
12:30 - 14:00	Lunch				Lunch				
14:00 - 15:30	TS1-1: Advanced Concept and Implementation of Seismic Design Methods for Resilience Against Intense Earthquake Chairs: Riki Honda (The University of Tokyo), Dongsoo Kim (Korea Advanced Institute of Science and Technology)	TS2-5-2: Recent Water-Related Natural Disasters in Asian Region Chairs: Hitoshi Tanaka (Tohoku University), Il Won Seo (Seoul National University)	Hold			TS6-4: Developing a More Relevant Program for Civil Engineering Education Chairs: Hironori Kato (The University of Tokyo), Le Binh Phan (Vietnam-Japan University)	Hold	GS-1 & GS-5-2: Concrete Materials and Pavement Chair: Kolluru V.L. Subramaniam (I.I.T. Hyderabad)	Hold
15:30 - 16:00	Coffee Break				Coffee Break				
16:00 - 17:00	Plenary Session 2				Plenary Session 2				
17:00 - 17:30	ACECC Awards Ceremony				ACECC Awards Ceremony				
17:30 - 18:30	Coffee Break				Coffee Break				
18:30 - 20:00	Buffet Dinner				Buffet Dinner				

Thank you very much.

