

ACECC 20th Anniversary

Messages for Future

Acecc

For a Better Quality of Life



September 27, 2019

Preface

The Asian Civil Engineering Coordinating Council (ACECC) was created on September 27, 2019 with the aims of promoting the acquisition and transfer of civil engineering knowledge for advancing the design and construction practices that ultimately improve the quality of life of all citizens from ACECC member countries.



Since the establishment, the number of ACECC members has increased from 5 to 14. ACECC celebrates the 20th anniversary on September 27, 2019 during the 37th Executive Committee Meeting in Goa, India, hosted by the Institution of Civil Engineers (ICE India).

The 20 years is long enough for most Asian countries to develop drastically. The rate of development can be even faster in the near future in Asia. The delegates from each ACECC member have changed to younger generation. There are few in the current ACECC delegates who witnessed the establishment of ACECC. It is becoming more difficult for us to know and transfer the concepts and the principles of ACECC which were discussed at the time of the establishment.

Our memories and records have been lost as time goes by. Therefore, I, as the secretary general of ACECC, decided to create this message book to transfer the concepts and the principles of ACECC to the next generation. I wish this book will be one of the bases for the current and future ACECC members to enhance further development of ACECC and a better quality of life in the world.

Kenichi Horikoshi Ph.D.

Secretary General of ACECC

Editor of the Message book

American Society of Civil Engineers (ASCE)
Chinese Institute of Civil and Hydraulic Engineering (CICHE)
Engineers Australia (EA)
Federation of Myanmar Engineering Societies (Fed. MES)
Indonesian Society of Civil and Structural Engineers (HAKI)
Institution of Civil Engineers (ICE India)
Institution of Engineers, Bangladesh (IEB)
Institution of Engineers, Pakistan (IEP)
Japan Society of Civil Engineers (JSCE)
Korean Society of Civil Engineers (KSCE)
Mongolian Association of Civil Engineers (MACE)
Nepal Engineers' Association (NEA)
Philippine Institute of Civil Engineers (PICE)
Vietnam Federation of Civil Engineering Associations (VFCEA)

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ACECC Tokyo Declaration 2019

April 16, 2019

- Preamble -

The Asian Civil Engineering Coordinating Council, (ACECC) was established on September 27, 1999 in Tokyo, with five (5) civil engineering societies/institutes present, the American Society of Civil Engineers, (ASCE), the Chinese Institute of Civil and Hydraulic Engineering, (CICHE), the Japan Society of Civil Engineers, (JSCE), the Korean Society of Civil Engineers, (KSCE), and the Philippine Institute of Civil Engineers, (PICE), to promote the acquisition and transfer of civil engineering knowledge for advancing the design and construction practices that ultimately improve the quality of life of all citizens from these ACECC member countries.

In addition to the five members at the time ACECC was established, eight new members, the Vietnam Federation of Civil Engineering Associations, (VFCEA), the Engineers Australia, (EA), the Mongolian Association of Civil Engineers, (MACE), the Indonesian Society of Civil and Structural Engineers, (HAKI), the Institution of Civil Engineers, (ICE India), the Institution of Engineers, Bangladesh (IEB), the Institution of Engineers, Pakistan, (IEP), the Nepal Engineers' Association, (NEA), have joined, and the cooperation between ACECC members has strengthened. As the variety of challenges, technology levels and economic development faces each individual member country, so ACECC has developed mutual understanding of these issues.

The development of Asia has been remarkable, and the total GDP of the 13 ACECC member countries has almost doubled over the 20 years since the establishment of ACECC. Furthermore, when paying attention to emerging countries, GDP has increased more than fourfold over the last 20 years. The increase in national income per capita has also been remarkable, and people's lives have improved dramatically.

Infrastructure facilities are indispensable for the improvement in people's lives, and civil engineering technology and civil engineers who have been at the forefront of these developments have made a great contribution to the construction of diverse infrastructure facilities such as roads, railroads, ports, airports, logistics and energy. The development of social infrastructure and the advances in its related technology have promoted logistics along with people-to-people networking and cultural exchange and have reduced regional disparities. ACECC will continue to conduct activities to promote the sustainable development of infrastructure facilities in order to contribute to the improvement of the quality of people's lives.

In the meantime, since the establishment of ACECC, the world population has increased 25 % from 6 billion to 7.5 billion. Along with the improvement in the quality of life, efforts to deal with various problems such as environmental, health, and urban problems such as traffic have become even more important and place additional concerns on rural and peri-urban areas of large cities. Furthermore, various disparities among Asian countries, between cities and regions in one country should also be addressed. The details of the specific problem and progress level towards solutions are different in each country, especially within the Asian region. ACECC will contribute to the solutions whilst also considering the uniqueness and specificity of each country.

Over the 20 years, the ACECC member countries, have experienced an unprecedented number of

natural disasters such as earthquakes, tsunamis, floods, storm surges, volcanic eruptions, typhoons and torrential downpours: the Gujarat Earthquake in 2001, the Sumatra Offshore Earthquake and Tsunami Disaster in 2004, the Hurricane Katrina in 2005, the Pakistan Earthquake in 2005, the Taiwan's Typhoon Morakot in 2009, the Great East Japan Earthquake in 2011, the Typhoon Haiyan (Yolanda) in 2013, the Mount Ontake Eruption in 2014, the Nepal Earthquake in 2015, the Kumamoto Earthquake in 2016, the Kilauea Volcano Eruption in 2018, the Western Japan Torrential Rain in 2018, the Typhoon Jebi in 2018, the Hokkaido Eastern Iburi Earthquake in 2018, the Indonesian island of Sulawesi Earthquake and Tsunami Disaster in 2018. Elsewhere in the world disasters have also occurred on an unprecedented scale - the China's Sichuan Earthquake in 2008 and the Haiti Earthquake in 2010. ACECC must develop responses to expected disasters in the Asian Region to mitigate the impact of these disasters as well as plan and design infrastructure to withstand disasters.

Coupled with the impact of climate change on a global level, the scale of natural disasters surpasses past experiences and it is becoming increasingly difficult to solve the problems arising from these disasters. Climate change has the potential to increase the severity of many natural disaster impacts. ACECC will always recognize and contribute to the solution of these problems regarding disaster countermeasures and disaster prevention and reduction as a common and urgent challenge within Asia as well as in countries beyond Asia.

The United Nations adopted 17 “Sustainable Development Goals (SDGs)” in 2015. ACECC acknowledges that civil engineering is directly or indirectly involved in these 17 goals and makes a commitment to the realization of the SDGs with a broad cross-sectoral perspective and a wide range of experts.

Civil engineering technology builds civilizations, helping to make people's dreams come true and enriching their lives and society as a whole. Recognizing that our present standard of living is based on civil engineering and civil engineering technology that has developed over time, ACECC intends to properly disseminate the role and the importance of civil engineering to society. This is the basis for the continuing development of civil engineering. ACECC will continue to encourage young civil engineers to take pride in civil engineering, sharing their ideas for the future of the civil engineering profession and encourage youth to become civil engineer.

In consensus, ACECC considers the “**ACECC Tokyo Declaration 2019**” consisting of 16 items shown below to be the basic activities and policy of the future, through various activities, such as the Civil Engineering Conference in the Asian Region (CECAR), the ACECC Technical Committees and others. The ACECC objectives of sharing knowledge and utilizing knowledge management will be realized. ACECC will widely disseminate the results obtained to society and contribute to the realization of a safe, secure and sustainable society.

ACECC TOKYO DECLARATION 2019

➤ *Initiatives to address the challenges facing Asia*

1) Initiatives related to disaster preparedness, countermeasures, prevention and mitigation

Within the Asian region, we face an array of natural disasters. Efforts to deal with natural disasters are an important issue that ACECC needs to address. In line with the “The Sendai Framework for Disaster Risk Reduction 2015-2030” adopted by the United Nations in 2015, it is important to formulate disaster preparedness plans, invest in disaster prevention, and consider disaster mitigation

at the planning stage of structures. ACECC will mobilize technology, information and knowledge possessed by each member country, sharing this knowledge thereby contributing to the mitigation of damage caused by natural disasters and ensuring resilience against future events, through activities centered on the ACECC Technical Committees. Best practices in disaster mitigation shall also be disseminated with an objective of enabling the other stakeholders to benefit from them. Furthermore, in the event of a large-scale natural disaster, we, ACECC, will establish a rapid cooperation system to provide technical assistance to the country where the disaster occurred.

2) Initiatives related to urban, population growth and traffic problems

In Asia, where economic development is significant, infrastructure development is often not sustainable and fails to keep up with urban growth. As a result, new urban population growth, traffic problems and the like are occurring. In addition, the infrastructure development for an aging society is an urgent issue for some countries. Affordable, environmentally viable and culturally acceptable mobility options shall be identified from Asian contexts for upscaling and replication. Through activities centered on the Technical Committees, ACECC will encourage not only those countries that have these problems, but also the countries that have already developed and entered the maturity stage to share their experience, information and technology throughout the ACECC organization and work on problem solving reciprocally.

3) Initiatives related to environmental problems

Infrastructure development occasionally conflicts with protection and conservation of the natural environment. In addition to working to promote restoration of already deteriorating environments from air pollution, water pollution, and soil contamination, we must also promote the establishment of technologies and systems to mitigate these problems. Solving environmental problems on a global scale, such as global warming and the destruction of ecosystems, are urgent challenges. Social and physical changes such as mass scale population dislocations from Rural to Urban shall be examined for their environmental impacts on settlements. ACECC will work on information sharing and potential solutions for these issues through activities centered on the Technical Committees.

4) Initiatives related to human health problems

Human health problems result from disasters; increased urban issues such as, population and traffic; and environmental problems. ACECC will work on information sharing and potential solutions for these issues through activities centered on the Technical Committees.

5) Initiatives related to Climate Change Issues

Climate change is an established reality. Asian countries have suffered tremendously from climate change impacts during the recent past. Unpredictability in weather patterns across the globe is being caused by a variety of human and natural interventions. Huge impacts are generated on the infrastructure, habitat and resources in different Asian regions. Droughts, famines, loss of thresholds for human settlements and many similar happenings are common evidences. There is a strong need for research, knowledge generation and consequent engineering practices to generate solutions to wide spread problems caused by climate change. ACECC shall undertake appropriate response to these and related factors through its relevant Technical Committees.

6) Initiatives related to water problems

Access to safe and affordable water at all times is a critical element in maintain or improving the quality of people's lives. Ensuring that water resources are properly managed in a sustainable manner that considers environmental and ecological conservation is fundamental to this outcome. Furthermore, problems related to water resource utilization in rivers that straddle multiple countries, including flood control, contamination and water use need to be solved not only by countries in watershed areas but also by engineers around the worldwide under mutual cooperation. Issues of waste water management and re-cycling shall also be included. ACECC will work on potential

solutions for these water issues through activities centered on the Technical Committees and its cooperative partnerships.

7) **Activities to build, maintain and develop high-quality sustainable and resilient infrastructure facilities**

In order to build a more sustainable society, we need to significantly enhance the performance and value of infrastructure projects. To reach this goal, ACECC will encourage its members to influence major policy changes and infrastructure funding levels, while challenging civil engineers to focus on innovation, rethink overall life cycle costs, ensure community participation and support, and drive the necessary change from planning and design, through construction, operations and maintenance, closure and post-closure. Through activities centered on the Technical Committees, ACECC will focus on ensuring the quality sustainability and resilience of infrastructure.

➤ ***Human resource development for civil engineering and technology transfer***

8) **Diversity in the civil engineering profession**

ACECC members will support and encourage equal opportunities for all people to participate within the civil engineering profession without regard to gender, race, national origin, ethnicity, religion, age, sexual orientation, disability, or family, marital, or economic status. ACECC will encourage its members to disseminate and implement programs designed to advance the profession by promoting an inclusive climate in the profession. Furthermore, ACECC members will promote the participation of young people, women, and others as listed above in ACECC events and strengthen their networks. In addition to promoting the work of senior engineers, it is necessary to create a friendly working environment such as technology development tasks to reduce the burden on the elderly.

9) **Education and human resource development and compliance with ethical standards**

We will strengthen formal education in all its forms and continue to offer Continuing Education to both new graduates and experienced civil engineers to advance their careers as they gain professional and technical expertise. Complying with ethical standards, combating corruption, and applying leadership skills are important ways for the ACECC community to help improve the welfare and quality of life for populations around the globe. ACECC members will host seminars and workshops on diverse topics in which a wide range of engineers can participate. Strategic training input shall also be acquired from allied disciplines and professional specializations.

10) **Technology development, its transfer, and standardization**

Technological advancement varies from country to country, and expectations for ACECC activities are different. Civil engineers must respect these differences, share civil engineering technology and standards, and match the level of technology with the ability of the user, while developing new techniques. For that purpose, ACECC will continue activities centered on the Technical Committees, by holding seminars and promoting information sharing, standardization of design standards, and developing new methodologies.

➤ ***Collaboration with other fields and related organizations***

11) **Collaboration with international organizations**

ACECC, as an association of learned societies collaborating within the Asian region, will strengthen cooperation with other similar international organizations with the whole civil engineering profession in mind. To that end, ACECC will participate in major conferences hosted by international organizations and encourage them to participate in ACECC sponsored events.

12) Integration of interdisciplinary collaboration and knowledge

Breakthroughs in ICT and AI technologies have greatly influenced construction, academic fields involving civil engineering are becoming more diverse, and collaboration with experts in these fields is indispensable. For that purpose, civil engineers will gain extensive knowledge without restricting their areas of activity, collaborate with experts from different fields, comprehending new techniques, and thereby improve the quality of life for the general public.

➤ *Dissemination of the role and contribution of civil engineering to society*

13) Activities to disseminate the role and contribution of civil engineering to society

The role of civil engineering and civil engineers in improving the quality of life for human beings is immeasurable. However, society does not always recognize these contributions of engineers. Ensuring accountability to citizens as well as civil engineers, ACECC will work to increase recognition of civil engineers through enhancement of the ACECC Newsletter and the expansion of its distribution destination, websites and other means, to enhance the overall presence of the civil engineering community. Furthermore, ACECC will widely disseminate the results produced by the Technical Committee activities beyond its membership. At a later stage, the dissemination shall be enhanced through regional and local languages to widen the scope of knowledge delivery.

➤ *Operation of ACECC*

14) Participation in ACECC activities by decision-makers of industry, government and academia

Problems involving civil engineering cannot be solved by academic professionals alone, but must involve collaboration across industry-government-academia including practicing engineers and policy-makers representing government officials. For that purpose, we will carefully arrange activities such that engineers from industry, government and academia may participate in all ACECC activities and policy decisions without bias. Participation by leaders from industry, government and academia in the Civil Engineering Conference in the Asia Region (CECAR) held on a triennial basis, where will be encouraged in order to advance mutual discussions and contribute to the development of civil engineering as well as improvement of the quality of people's lives.

15) Enhancement of the efficiency of ACECC activities

As the number of ACECC member countries increases, we need to enhance the efficiency of processes from planning to implementation of activities, and work on improving the efficiency of the ACECC organization and its activities, so that a wide variety of these may be performed in parallel. Furthermore, we will also work with the recognition of generational changes in the working environment, to ensure that the objectives and philosophy of ACECC are properly conveyed to future generations.

16) Fulfillment and follow-up of ACECC Tokyo Declaration 2019

Each ACECC member society/institution will energetically work under the leadership of their presidents, in order to promote each item listed in the Tokyo Declaration by its own country's activities. Each society/institution will report on the progress they have made on an agreed to regular basis.

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Dr. Hiroshi Okada

Chair of Executive Committee of ACECC (1999-2001)

Chief Engineer, Japanese National Railways (1986-1987)
 President, Japanese Railway Construction Corporation (1989-1992)
 President, Japanese Society of Civil Engineers (1998-1999)

Internationalization of the activities of JSCE had been one of the greatest concerns of mine throughout my term since I was elected as the President of JSCE in 1998. Among members of the Society, Dr. Osamu Kusakabe, then the Professor of Tokyo Institute of Technology, who has distinguished international sense and speaks very fluent English, significantly helped me in this aspect, and together with him we visited European Council of Civil Engineers in London to sign the cooperation agreement between two Societies.

Around that time, in February 1998, the first Civil Engineering Conference in Asian Region was held in Manila, Philippine cosponsored by ASCE, PICE, and JSCE and ended in great success. Just after the conference, an opinion emerged that such conference should serve the good opportunity to exchange their opinions and to find the solutions together for the civil engineers, who face the common difficult problems in this rapidly developing region and that the conference should be succeed one after another. After the heated discussions, consensus was achieved about the establishment of an organization, ACECC, to promote the conference. Although I didn't attend the Conference, getting the report from attendees including Dr. Kusakabe, I was perfectly content with the conclusion.

Following the above development, the signing ceremony commemorating the foundation of ACECC was held on 27th September, 1999 at the headquarter of JSCE attended by Chinese Institute of Civil and Hydraulic Engineering (CICHE) and Korean Society of Civil Engineers (KSCE) other than ASCE, JSCE and PICE.

To my great honor, I was selected as the founding Chair of Executive Committee Meeting of ACECC.

And also, the Constitution and the Bylaws, the drafts of which were the results of the strenuous efforts of Dr. Kusakabe, were decided by the ardent discussion.

As the consensus that CECAR 2 should be held in Tokyo in 2001 was achieved among member societies, JSCE established the Local Organizing Committee and began the preparation soon after ECM. JSCE requested Emeritus Professor of University of Tokyo, Dr. Jiro Kondo, and the former President of Science Council of Japan to make the key-note speech titled 'Land Planning on the care of Environment' stressing that construction on land should be planned not to degrade the environment and made the profound impact on the audience.

Almost 20 years have passed since the establishment of ACECC, and number of member societies has increased from 5 to 14, and one of the important works of ACECC, the activities of Technical Committee (TC) has become very active and total number of TCs, which was established since the beginning, has exceeded 25 including the already completed 15 TCs. To acknowledge such recent prosperity of ACECC gives me great pleasure.

And also, it is not only the greatest honor but also the happiest event of my life to be awarded 'ACECC Civil Engineering Award' at CECAR 6 held in Jakarta.

Moreover, getting the acquaintances of the prominent engineers in this region through ACECC is the precious experience of my human life. Inviting Dr. Mitchell of the past Chair of Executive Committee to my house in Kamakura when he visited Tokyo for CECAR 8, to enjoy the lunch together at the nearby restaurant and to visit the Great Buddha in Hase temple is only one example.

----- *It is very sad to note that Dr. Hiroshi Okada passed away on November 29, 2019.*

(Editor of the message book) ----

Dr. Jenn-Chuan CHERN



Chair of ACECC Committee, CICHE (1999-2002)
 President, CICHE (2002-2005)
 Chairman of the ACECC (2004-2007)

CEO of the Tang Prize Foundation (2012-)
 Professor Emeritus of Civil Engineering, National Taiwan University

The Asian Civil Engineering Coordinating Council, ACECC, was established in 1999. Under the continuous past efforts, it has grown from 5 founding member organizations to 14 member organizations in the past 20 years. In the Asian region with the largest population, rapid economic development and the largest number of infrastructure projects, ACECC is an important coordination organization of the Civil Engineering Society of the Asian countries. Established in 1985 as ASCE, ECCE (22 member organizations) established in 1985, and WCCE established in 2005 by 24 member organizations from Europe, Africa and South America, ACECC represents Asia as a civil engineering coordinating organization in this world fastest growing region. ACECC, as an important part of the world civil engineering organization, provides the service to member organizations and also participates in the world engineering community technology exchanges. We are pleased with the establishment and development of the ACECC by expressing our gratitude to those who had contributed to this organization and blessing for a great future.



Past ACECC chairs in CECAR 4

The ACECC organized the Asian Civil Engineering Summit in 2006. After more than eight months of development and in-depth discussions, on June 26, 2007, 41 presidents, past presidents and senior representatives of 41 civil engineering leaders from all over the world were at the Taipei 101, the tallest building then, jointly signed the "Taipei Declaration on Sustainable Development", which shows the future direction of the civil engineering and is also an important moment in the history of the world civil engineering society.

Asian Civil Engineering Coordinating Council Taipei Declaration on Sustainable Development

The rapid social progress and economic development has brought us a high quality of life. However, these activities have led to a series of problems such as the air-pollution, the fast growth of population, the depletion of natural resources and the global warming. In addition, the increasing urbanization has led to the degradation of the earth's resources in degrading the environment and accepting the impact of climate change, it is necessary to take immediate action for a sustainable future.

Asia is the largest continent and has approximately half of the world population. In twenty-first century, Asia grows more a center of global economic, improved manufacturing industry, and has not been made into the fastest growing continent on earth. Nevertheless, the fast growth places increased demand on natural resources and wastes the earth's environment and resources. In addition, Asia is currently experiencing floods, droughts, air and water pollution, physical, chemical, biological and chemical hazards, etc. These risks, being a result of development in Asia, is necessary.

Civil Engineers shall be ethical, transparent, and knowledgeable of the values of sustainability that will bring benefits and the environment to benefit humankind. Civil Engineers also play an active role in reducing their activities' impact on the environment. Civil Engineers must pay forward a passion for environmental safety, innovation, climate change, a global economy, and the transportation industry. Moreover, Civil Engineers must address the critical issues of human rights, systems, and innovation for the disaster relief, emergency response, providing relief more and more and also doing for all and providing protection for natural and man-made hazards.

The rapid social progress and economic development has brought us a high quality of life. However, these activities have led to a series of problems such as the air-pollution, the fast growth of population, the depletion of natural resources and the global warming. In addition, the increasing urbanization has led to the degradation of the earth's resources in degrading the environment and accepting the impact of climate change, it is necessary to take immediate action for a sustainable future.

In light of the above, we hereby declare the following activities:

- 1) Promote civil engineering and its applications in the sustainable development.
- 2) Continue to improve the quality of life, and to improve the environment and resources.
- 3) Continue to improve the quality of life, and to improve the environment and resources.
- 4) Reduce the impact of global warming which is related to climate change.
- 5) Develop participation in the formation and implementation of public policies and promote a transparent system of good governance.
- 6) Develop participation in the formation and implementation of public policies and promote a transparent system of good governance.
- 7) Develop the service of civil engineering which is related to climate change.
- 8) Promote the protection of natural resources and the environment.
- 9) Promote the protection of natural resources and the environment.
- 10) Promote the protection of natural resources and the environment.
- 11) Promote the protection of natural resources and the environment.
- 12) Promote the protection of natural resources and the environment.

On June 26, 2007, at Taipei 101, the tallest building in the world, 41 civil engineering leaders from all over the world signed the Taipei Declaration on Sustainable Development.

ACECC Taipei Declaration on Sustainable Development, 2006



This year, the 20th anniversary of the establishment of the ACECC, we see that the responsibility of civil engineers seems to be heavier, regardless of people's food and clothing, recreational, disaster relief and reconstruction, energy and urban development, how to increase the resilience to disasters and adaption to the climate Changes and efforts to save energy and reduce carbon are important tasks for engineers. We believe that sustainable development is endless hard work, and engineers must use this as a concept and implement it together in action. Moreover, civil engineers should also be committed to the promotion of circular economy, make good use of resources, reduce environmental pollution, share our experience and enhance the level of our member organizations in the Asian region. It is also the ACECC should strive to promote development.

Dr. Samuel Yin of Runtex Group founded the International Award “Tang Prize Award” in 2012 and set up the “Sustainable Development” award category to recognize those who have made extraordinary contributions to the sustainable development of human societies, especially through groundbreaking innovations in science and technology. I also especially encourage ACECC and civil engineers to work together towards this goal, to bring innovation value and positive change to the world, and to become the driving force for continuous efforts in the new era. (www.tang-prize.org)



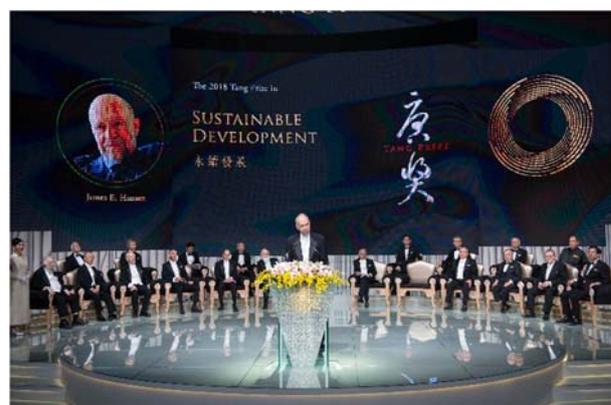
Signing Ceremony at the Asian Summit



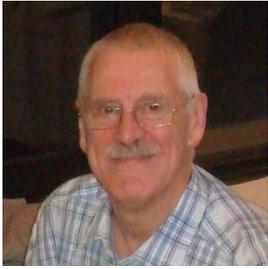
Signing Ceremony in Taipei 101



Closing Ceremony in CECAR 4



Tang Prize Awarding Ceremony (James Hansen)



Mr. Paul Louis Mitchell, OAM

FIEAust, CPEng, APEC Engineer, IntPE(Aus)

Chairman of ACECC (2008 – 2010)
 Engineers Australia Representative to ACECC (2002 – 2007)
 EA Civil College Board Chairman (2002)
 The Federation of Engineering Institutions of Asia and the Pacific
 EA Representative and Executive Board Member (2011 – 2016)
 EA International Committee Member (2012 – 2016)
 EA Civil College Board (1995 - 96, 1999 - 2010)
 EA National Committee on Transport (1995 - 96)
 EA National Committee on Water Engineering (1999 - 2001)

Director, Centre for Pavement Excellence Asia Pacific Limited

I am grateful for an opportunity to contribute an Anniversary Message for ACECC and in doing so I would like to provide some insight to Engineers Australia's Participation during the first decade of ACECC and how, in my opinion, ACECC achieved so much and is now held in such high regard.

The Institution of Engineers Australia (EA) was invited to join the Asian Civil Engineering Coordinating Council (ACECC) in 2000, after which an EA delegation, that I was proud to be part of, attended the Second Civil Engineering Conference in the Asian Region (2nd CECAR) hosted by JSCE at Tokyo in April 2001.



The photograph left shows conference participants from Australia with the in-coming ACECC Chairman and his wife.

(L-R): Robyn and Paul Mitchell, Ms. Kyoung-Sook Park and Dr. Kwang-II Kim (KSCE), Dr. David Hood, Andrew and Lindy McIntyre.

And so began my participation in ACECC which continued until the 20th ECM in Jakarta, February 2011, at which I introduced Mr. Barry Tonkin as EA representative.

EA was accepted as the seventh member of ACECC at the 5th Executive Committee Meeting (ECM) in Seoul, October 2001 when my position as EA Representative began. Prior to this meeting the Civil College of EA had considered the aims and objectives of participation in ACECC and as Deputy Chair of the College my first official duty was to support EA's written application to host the 4th CECAR in 2007 and to demonstrate the willingness of EA to make a worthy contribution to ACECC.



5th ECM participants:

(Front L-R) Paul Mitchell, Dr. Hiroshi Okada (JSCE), Efren Sison (PICE), Dr. Kwang-II Kim (Chairman), Prof. Sung-Pil Chang (KSCE), Prof. John Chien-Chung Li (CICHE) and Walter Marlowe (ASCE)

The next event was a Working Group Meeting in Taipei on August 9, 2002, held to develop a strategic plan based on objectives agreed at the 2nd CECAR Presidential Meeting. This was a time of significant team building for all 22 delegates and I began to make lasting friendships. Soon after, ASCE hosted the 6th ECM in Washington DC in November, 2002. Two bids for the 4th CECAR had been made and with support from EA's Marketing Representative, Esra Acet, I presented the EA case for Sydney. CICHE made a strong case for Taipei and was voted the 4th CECAR host for 2007.

EA gained support to hold the 7th ECM in Brisbane during June 2003. Doug Jones, EA National Vice President, Les Louis and Richard Moore, Queensland Division President and Director, Peter Godfrey, Civil College Chair; Andrew McIntyre, Past Civil College Chair and Martin Dwyer, National Director Engineering Practice and I attended. This ECM approved formation of a Standing Committee for Planning Chaired by CICHE.



(L-R) Peter Godfrey, Les Louis, Andrew McIntyre / Dr. Chun-Su Chon (ACECC Secretary General), with Andrew McIntyre

The 1st Planning Committee Meeting (PCM) was in Taipei during the CICHE 30th Anniversary week. EA could not attend but asked its WFEO Representative, Barry Grear, to make an apology whilst in Taipei. The 8th ECM in Ho Chi Minh City in April, 2004, hosted by Vietnam Federation of Civil Engineering Associations (VFCEA), was attended by Peter Godfrey and I. An example Code of Ethics, by EA for ACECC discussion, became the basis of a Guideline for ACECC Members after later revision.

August, 2004, saw EA supporting the 3rd CECAR in Seoul with 13 participants, 9 papers and 2 posters. Our delegates at the 9th ECM were Doug Jones, National President; Bruce Howard, Vice President; Peter Godfrey, Stephen Finlay and Brian O'Donnell, Civil College Chair, Deputy Chair and Board Member and I which consolidated an effective working relationship between KSCE and EA within ACECC.



Australian Delegates
On Stage Singing During
3rd CECAR Dinner

(Including the 6 delegates to
9th ECM named above)

The 10th ECM in Kaohsiung, Taiwan, in December, 2004 began a new term under the enthusiastic leadership of Chairman Dr. Jenn-Chuan Chern. I still recall constructive ideas and lengthy discussions as ACECC progressed with its long term objectives. Camaraderie was also evident when a typhoon caused cancellation of our river cruise and the shipboard Gala Dinner only proceeded with us strongly tied to the wharf.

Tokyo was the venue of the 11th ECM in May, 2005, when business included reports by Members on initiatives taken in response to the Indian Ocean Tsunami of December 2014. Two papers by Peter Godfrey and me drew upon response experiences within Australia. This was closely followed by meetings in Los Angeles, October 2005, including the 1st TCCM, a new Standing Committee approved in Tokyo. Following a presentation by Steve Finlay and I, the ECM gave EA approval to host the 5th CECAR in Sydney. A great outcome for EA effort, but a only start to what we embarked upon.

The 13th ECM suite of meetings was held in Ulaanbaatar, Mongolia, June 2006, after a workshop: "Sustainable Development of Civil Engineering in Developing Countries-Problems of Rapid Urbanization". Three corresponding experts from EA were nominated for TC's - Steve Clark, 'Inter-regional Cooperation...Mekong Sub-region' and Geoff Cocks and James Schneider, 'Sumatra Offshore Earthquake and Tsunami'.

The 3rd TCCM and 8th PCM were held January 19, 2007, in Cebu, Philippines and the 14th ECM was held the next day. A highlight from this ECM was my approval as the next ACECC Chairman, to

become effective following conclusion of 4th CECAR in June 2007. This was a humbling experience, due in no small measure to the support of EA colleagues attending meetings with me and on the Civil College. In other business a nomination by EA for an ‘ACECC Award for Technology’; The Timor Sea Bayu-Undan Development Phase 1, was accepted for a trophy to be presented at the 4th CECAR.

The 4th CECAR at Taipei, June, 2007 was preceded by the 15th ECM suite of meetings and the ‘Asian Summit’. EA’s Rolfe Hartley, National President, Peter Godfrey, National Vice President, Brian O’Donnell and Steve Finlay, Civil College Chairman and Past Chairman and I participated. Rolfe Hartley also attended the Presidential Meeting which ‘signed off’ on the ‘Taipei Declaration on Sustainable Development’.



EA Delegation with the ‘Taipei Declaration on Sustainable Development’

(L-R) Steve Finlay, Peter Godfrey, Brian O’Donnell, Rolfe Hartley (EA President), Prof Jenn-Chuan Chern (ACECC Chair), Paul Mitchell, Dr. Kwang-II Kim and Kyoung-Sook Park (Past ACECC Chair, & his wife) and William Marcuson (ASCE President)

Significant ECM approvals included changes effective after CECAR4 - Steve Finlay, Secretary General; Brian O’Donnell, Planning Committee Chair and Prof. Al Ang (ASCE), TCC Chair. EA’s 5th CECAR Plan and Draft Strategic & Action Plan (2007-2010) presented. EA delegates attending the 4th CECAR included recipients of the ‘ACECC Award for Technology’, Fluor Daniel and Worley Alliance, Project Manager, Mike Whitefield and the Student Essay Competition participant, James Daniell.



Prof Jenn-Chuan Chern Passes Over the ACECC Flag and Paul Mitchell's Acceptance Speech

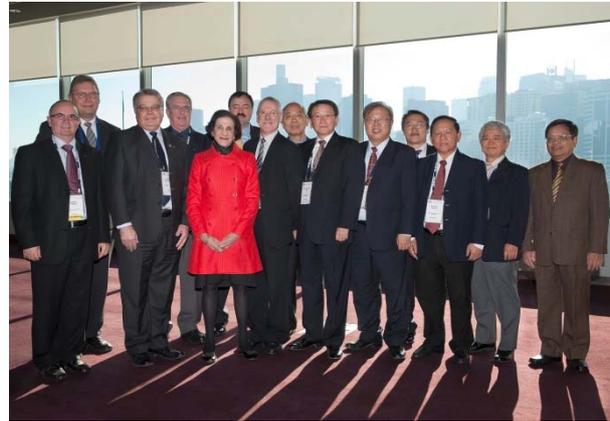
My first meeting as Chairman of ACECC was the 16th ECM on February 26, 2008, in Sydney at which Deputy National President of EA, Peter Godfrey, formally welcomed delegates on behalf of EA National President Julie Hammer and acknowledged the presence of Immediate Past National President, Rolfe Hartley. The Strategic Plan & Action Plan (2007-2010) circulated by EA at the previous ECM was approved and the Institution of Civil Engineers (India) was admitted to ACECC membership.

The 10th PCM and 5th TCCM preceded the Executive Meeting. Secretary General, Steve Finlay, had already attended the New Delhi WFEO meeting in November, 2007 following the ACECC decision to join WFEO. In his report he noted WFEO has an Anti-Corruption Taskforce and the newly created ACECC "Anti-Corruption in Civil Engineering Works Sub Committee" could benefit from its involvement in this. Also, ASCE and HAKI made submissions for the 2013 - 6th CECAR and HAKI was selected.

The 17th ECM suite of meetings was held in Hanoi during April, 2009 and we were honoured by the Vice Minister of Construction, Mr Tran Van Son, giving the opening address. Three delegates from EA were present, including myself as Chairman. The next and penultimate meetings before CECAR5 were held in Busan, Korea during February 2010, where delegates were all welcomed by KSCE President, Prof. Kyung Soo Chon. ECM matters of significance included ACECC members' agreement to the establishment of a permanent Secretariat and requested the Secretary General report on the establishment, format and budget for the next ECM.



(L) Gift from Mongolia (MACE) to Australia (EA)



(R) ACECC Presidents and EA Delegates with Dame Marie Bashir, Governor of NSW.

The time for CECAR5 in Sydney had arrived. EA hosted this event during August 8-12, 2010, which was opened by the Governor of New South Wales, Dame Marie Roslyn Bashir AD CVO. My pleasurable duty was to welcome delegates of the 19th ECM, 12th PCM and 7th TCCM and EA conference organisers during a cruise on Sydney Harbour.

The outcomes from my participation as a member of the various committees, on behalf of EA, and as Chairman during the last three years of my tenure could not have been accomplished without active support of the members of ACECC from other economies. I would like to thank most sincerely all those who have guided me with their wisdom and knowledge along my journey with ACECC. They are too numerous to mention here, but include both volunteer engineers in ACECC and staff of the Member Institutions. Many are now my friends and will know who they are without being named.

In particular, I wish to acknowledge with gratitude these Past Civil College Chairs and fellow EA Representatives I worked with: Steve Finlay, ACECC Secretary General, and Brian O'Donnell, Chairman of both CECAR5 Local Organising Committee and the ACECC Planning Committee, and Peter Godfrey, EA President in 2009.



Dr. Albert T. Yeung

Chair, Executive Committee, ACECC (2013-2016)
Chair, Membership Subcommittee, ACECC (2011-2013)
ASCE Official Representative to ACECC (2010-2013)
Region10 (International) Director, ASCE (2010-2013)
Chair, Region10 Board of Governors, ASCE (2010-2013)

Department of Civil Engineering, University of Hong Kong

Time flies. Twenty (20) years have elapsed since the formal establishment of the Asian Civil Engineering Coordinating Council (ACECC) in Tokyo on 27th September 1999. ACECC was initially formed with only five (5) society members, i.e. the American Society of Civil Engineers (ASCE), the Chinese Institute of Civil and Hydraulic Engineering (CICHE), the Japan Society of Civil Engineers (JSCE), the Korean Society of Civil Engineers (KSCE) and the Philippine Institute of Civil Engineers (PICE), and has gradually expanded into a worldwide civil engineering organization of fourteen (14) society members in twenty (20) years.

Throughout these twenty (20) years, we have faced many challenges and overcome many hurdles. The organizational structure of ACECC is unique as an economy is represented by a society member of equal voting right in the decision process. Moreover, the society members are classified into three (3) categories depending on their gross national income estimated by the World Bank to properly take the financial situation of each society member into account. The compositions of key committees, such as the Finance Committee, are formed to ensure equal and democratic representation by society members of every category. The organizational structure is extremely important to accelerate the development of developing economies. Moreover, one of the most important objectives of ACECC focuses on the development of young civil engineering professionals and civil engineering students.

The 20th anniversary is an important milestone of ACECC. It marks the practical completion of the formation stage of ACECC and the beginning of the expansion and development stage of ACECC into a more mature, organized and structured civil engineering organization. I expect the organizational structure of ACECC will continue to evolve, as the number of society members increases, to best serve her society members, the civil engineering profession, and the general public at large.

I am honored to serve as the Chair of the Executive Committee 2013-2016. It provided me a unique and challenging opportunity to lead a developing multi-economy organization composed of diversified society members of different legal systems, different systems of civil engineering professional practice, different education systems, different currencies, different languages, different cultural backgrounds, etc. More importantly, I have the opportunity to make many life-long friends of diversified cultural background of civil engineering experience. It is an invaluable and unforgettable experience for me. It greatly enhances my professional development for which I can never re-pay ACECC.

I would take this opportunity to thank all the ACECC chairs preceding me who laid the foundation for ACECC and all the members of the Executive Committee who served diligently with me for three (3) years, in particular, I would thank Dr. Udai P. Singh, Chair of Planning Committee and Chair of CECAR7 Organizing Committee; Mr. Potenciano A. Leoncio, Jr., Chair of Technical Coordinating Committee; Dr. Kenichi Horikoshi, Secretary General; Dr. Edward H. Wang, Deputy Secretary General; Professor Jae-Woo Park, Chair of Finance Committee; and Mrs. Meggan Maughan-Brown of ASCE. More importantly, I would extend my gratitude to Professor Osamu Kusakabe, Chair of Executive Committee 2016-2019; Professor R.M. Vasan, Chair of Executive Committee 2019-2022; and many more upcoming chairs and Executive Committee members who would hold the baton to continue the operation, management and development of ACECC. All these colleagues devote their time and effort selflessly to ACECC, the civil engineering profession, and the public.

Last but not the least, I would congratulate ACECC for all her achievements in the past twenty (20) years. Moreover, I expect many more achievements of ACECC in the many more twenty (20) years to come.



Dr. Osamu Kusakabe

Chair of ACECC (2016-2019)
 Representative to ACECC, JSCE (2010-2016)
 Secretary General of ACECC (1999-2001)
 Chair of ACECC TC-3: Inter-regional Cooperation for Great Mekong Sub-region (2007-2010)

President of International Press-in Association (IPA)
 Past President of Japanese Geotechnical Society (2010-2012)
 Past President of National Institute of Technology, Ibaraki College
 Professor emeritus, Tokyo Institute of Technology

From ASCE Bilateralism to ACECC Multilateralism

I have served ACECC as the draft writer of the Constitution and By-laws of ACECC, as the founding Secretary General, as the Executive Advisor to ACECC Chair, as JSCE representative as well as ACECC Chair over these 20 years. The following is my own historical view related to ACECC, and my memory at the moment of birth of ACECC 20 years ago.

Historical view

Formation of ACECC may be considered as a natural consequence reflected from the human history of the 20th century. Looking back the flow of cutting-edge science and technology transfer associated with the flow of overseas students during the first half of the 20th century, it is clear that the main flows had changed from “the flow to Europe” to “the flow to US” during and after two World Wars.

The center of cutting-edge modern science and technology had been located in Europe for many years since the era of industrial revolution in the 18th century. Many of bright young generation from various parts of the world had a dream to go abroad to study at top European Universities mainly in UK, Germany, France and Holland. During and after the wars, a number of leading scientists and engineers immigrated to US due to war damage and political environment in Europe.

A list of Nobel Prize Laureates clearly indicates this trend. The number of laureates in US had significantly increased during and after the wars. Laureates for Physics, Chemistry and Physiology or Medicine in US were as few as 6, 3 and 4, respectively during 1901-1940, while as many as 49, 30 and 47 during 1961-2000. The same as in the civil engineering field. Every civil engineer knows the name of Stepan Timoshenko, who was born in Russia and immigrated to US in 1922, and of Karl Terzaghi, who was born in Austria and immigrated to US in 1938. Consequently, US universities had become the center of cutting-edge science and technology, and started attracting many of bright young generation from the rest of the world.

Those overseas students who studied and earned PhD in US went back to their mother country, and then became a leader in a respective field of science and technology and formed learned society. Establishing by-lateral relation between US universities from which they graduated, as well as US learned societies to which they submitted their research papers, was very much helpful and effective.

In doing so, US has created a solid network with counterparts in many countries in a form of by-lateral relation.

Another historical fact is that during the Cold War period, the then President Harry Truman adopted the policy of containment advocated by a famous diplomat, George Kenna, to manipulate Asian regions by forming by-lateral relations with many Asian countries in terms of economy, diplomacy as well as military affairs.

Many people outside US have an impression that the concept of by-lateral relation seems to be still deeply embedded in many aspects in US policy, for example, recent withdrawal from the Paris Agreement on Climate Change and from the Trans-Pacific Partnership.

It is quite natural, therefore, that ASCE has become a super power in civil engineering profession and has established by-lateral relations around the globe. Now ASCE has 177 regional groups.

The situation had gradually changed sometime in the late 1980s to 1990s. One of the significant historic events was the Teardown of Berlin Wall in 1989, resulting in a chain of changes: End of Cold War, Expansion of market economy, Increase in labor force and production capacity, and Increase in trade volume. During the period of 1990-2001, population had increased by three times, and GDP had increased by 16 times.

Impacts of the end of Cold War on the engineering fields were multifold. The World Trade Organization (WTO) agreement requires the same performance of good, Technical Standards need to be international consistency, Professional Qualifications and Engineering Education require mutual recognition. Consequently, every issue becomes global and requires multiple relations, and by-lateral relation alone is no longer adequate.

During the same period of time, the Asian Economy started rapidly growing. When Four Asian Tigers (Hong Kong, Singapore, South Korea and Taiwan) emerged in the 1990s, many forecasts predicted that the 21st century is the century of Asia.

Asia can be viewed from three distinctive features which are closely interrelated.

(1) The Asian region has the biggest population in the world, nearly 60% of the world population with a large portion of younger generation.

(2) The Asian region is prone to natural disasters. More than 50 % of natural disasters occur in Asia, and 90% of affected people by natural disasters live in Asia. Rapid urbanization poses a deteriorating factor for increasing vulnerability in the built environment against natural disasters.

(3) The Asia has a tremendous diversity from country to country: aging society to society with an expanding population, and aging infrastructures to new infrastructure developments from a blank slate.

The above brief description is my own historical view why ACECC was created as a multi-lateral organization, working together to create a better quality of life in the Asian region.

A drama of ACECC formation

I need to begin by explaining the discussions at the International Affair Committee (IAC) of ASCE, held during ASCE annual convention at Washington DC, in 1996. ASCE held a civil engineering conference in Saudi Arabia which seemed to be successful. ASCE planned to have a similar conference in somewhere in Asia and contacted societies/institution about the possibility through ASCE section in various Asian countries based on their by-lateral relation. JSCE and PICE responded. At the IAC, PICE presented their plan and desperately hoped to hold a conference in Manila, because the then President Fidel Ramos was a civil engineer with a master's degree in University of Illinois, thus PICE hoped to have a conference while President Ramos was in office. JSCE accepted the situation and proposed the conference to be organized by three societies, namely ASCE, PICE and JSCE. The organizing committee was then composed by representatives from the three societies, and a series of meeting were held in Tokyo and in Manila. During that period of time, a tacit consent was emerged that a conference after the Manila conference would be held in Tokyo.

Soon after the success of the first CECAR (later named as CECAR1) with the keynote lecture delivered by President Ramos in 1998, the preparation started for the next conference (later named as CECAR2) and a series of meeting were planned. An opinion was expressed informally among a few members of the organizing societies/institutions for the next conference how to continue CECAR, what sort of organization would be suitable for it.

Under the organizing committee, a working group consisting of representatives from the three societies/institutions was formed to prepare a report for discussion on this issue. The working group considered appropriate to create a new umbrella organization, referring to European version of multi-lateral organization in civil engineering, European Council of Civil Engineers founded in 1985. The working group requested three societies/institutions to scrutinize the contents of the report submitted prior to the next meeting of the organizing committee in Manila.

After the meeting of the organizing committee in the morning, the meeting was resumed in the PICE office to discuss the possible formation of the umbrella organization named "Asian Council of Civil Engineers". It appeared that ASCE was reluctant to create a new umbrella organization and the ASCE then representative strongly opposed to create the proposed umbrella organization. My impression then was, as described in my historical view, that ASCE has less experience in multi-lateral relations and felt uncomfortable being a member of multi-national organization. Heated debate continued between JSCE and ASCE throughout all the afternoon. The negotiations on the first day broke down. JSCE and PICE were very much disappointed and felt that it may end up with the creation of the proposed umbrella organization without ASCE.

PICE offered a round of golf game for cooling off in the morning on the second day of the meeting. In the middle of dinner at that evening, ASCE compromised by suggesting the change of the name of the proposed organization from "Asian Council of Civil Engineers" to "Asian Civil Engineering

Coordinating Council". JSCE and PICE accepted the suggestion. We all shook hands with a big smile.



ACECC was formally established on September 27, 1999 with the five founding member societies and institutions, a year and a half after the first CECAR in February 1998.



Prof. R. M. Vasan

Chair of ACECC

It gives me great pleasure to write this message as the present Chair ACECC. It is heartening to note that ACECC is successfully working to complete its task of Coordination, development, mutual interaction and sharing knowledge in the right direction in accordance with the goals and objectives set in the Constitution. The problems faced by most of the countries causing distress have been solved to a great extent and steps taken to develop technologies for better quality of life. A lot has been achieved through sharing and dissemination of knowledge and a lot more needs to be done for reliability sustainability and formulation of Ethical practices. ACECC has done tremendous work through organizing 8 CECARS in various countries during the last 20 years (1999-2019) and celebrated the 20th anniversary in Goa (India).

Development of ACECC activities has to be a continual process and as an outcome of 37th ECM held in Goa the mission and goals have to be accomplished as approved in the ECM.

A DROPBOX should be made available on ACECC Website which may serve as a Platform for sharing knowledge experience and problems encountered from time to time

Efforts are required to be made by every ACECC country to enhance the membership of Asian Countries and also other countries.

The Resources need to be augmented by preparing a directory of Experts in various areas of specialization to establish a strong consultancy base at Global level

A system of Monitoring has to be developed for monitoring the progress of Implementation of Strategies and policies to fulfill the objectives.

The country hosting the ECM may take advantage of available Experts and organize training programs /workshops during the activity.

The establishment of a virtual center of Excellence and queries, consultancy and training may serve as a source of dissemination of information and sharing knowledge. It would be worthwhile that TC's may ask for latest topics to member countries to take a better account of Technological developments. There has to be emphasis on use of Renewal Energy to achieve and Sustainable goals. An agreeable solution to the Ethical practices need to be finalized in the near future. Our concerted efforts are required to be made for what we see for Future. It would be important to pay attention to the involvement of young Engineers in the ACCEC activities and give due encouragement to prepare themselves as the Future leaders. Young Engineers have to be motivated through a selection process and given an opportunity to come up and take the Future challenges. This may be achieved through the full support of all the members and the Forum needs to be activated and made Functional.

Once again it is my honor to convey my best wishes and best regards to all who are participating and making efforts for the better living and quality of life of Human beings through the process of Sustainable development which we shall achieve as a team with the cooperation of all.



Prof. R M VASAN
Chair ACECC



Engr. Potenciano A. Leoncio, Jr.

RCE, M.PICE, M.ASCE; RCA, M.PICAM
Principal, P. A. Leoncio, Jr. & Associates

Asian Civil Engineering Coordinating Council (ACECC), Tokyo:

Former Chairman - Technical Coordinating Committee

Philippine Institute of Civil Engineers (PICE):

Former National Secretary & Director

Former President & Director, Quezon City Chapter

American Society of Civil Engineers (ASCE), Reston, Virginia:

Former International & Region 10 Director, Governor & Assembly Chair

Executive Director, Convenor & Former President, Philippines Section

Construction Industry Arbitration Commission (CIAC):

Accredited Construction Arbitrator # 099

Philippine Institute of Construction Arbitrators & Mediators (PICAM)

Member & Former Trustee

Manuel L. Quezon University (MLQU)

Former Chairman & Professor, Civil Engineering Department

MESSAGE

Greetings on ACECC's 20th Founding Anniversary:

I wish to extend my best wishes to the Member Societies of ACECC and to its past and current members of the Executive Committee, the Technical Coordinating Committee, and the Planning Committee on the occasion of its 20th Anniversary celebration.

ACECC showcases unity and collaboration among its members in its pursuit of professional advancement in civil engineering and sustainable development in the construction industry. Its commitment to reach civil engineers worldwide, particularly in the Asia-Pacific Region is a noble advocacy to help meet the continuing challenges of advance technology and innovation.

I am privilege to have served as one of ACECC's former Technical Coordinating Chairmen.

Again, my best wishes for a successful stewardship of the Council.

Engr. POTENCIANO A. LEONCIO, JR.

Ms. Meggan Maughan-Brown, CAE, CMP, MPA

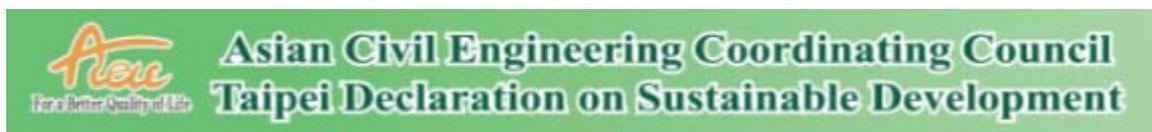


ASCE Staff Representative to ACECC (2004 – present)
 ASCE Director, Global Programs (2004 – present)

It has been my pleasure to serve the ASCE Staff representative to ACECC since 2004. I have had the privilege to attend all the ACECC meetings and conferences since then. Much has happened in the intervening years. For one, the membership in ACECC has grown as has the detailed agendas and topics for discussion within the Technical and Planning Committees. It has also been affirming to see new representatives from the member societies join in the ACECC meetings and again confidence and find their voices within this society.

We have tackled many issues over the years and signed many collaborative documents, the latest being the Tokyo Agreement that binds us all to Sustainability and making decisions bound by a code of ethics. Just look below to see what we have achieved over the years.

In this, the 20th year, since ACECC's founding I congratulate all who have played a part in this development and sharing of ideas. I wish all who serve now and those who will come behind us the very best wishes for continued growth and positive activity to drive this organization forward for the benefit of all.



Civil Engineering Creating A Sustainable World

Blaine D. Leonard, P.E., D.GE, F.ASCE

American Society of Civil Engineers, Reston, Virginia, United States of America

Civil engineers must take the lead in creating a global sustainable world. The American Society of Civil Engineers produced a Summit on the Future of Civil Engineering four years ago and g It has been my please to serve the ASCE Staff representative to ACECC since 2004. I have had the privilege to attend all the ACECC meetings and conferences since then. Much has happened in the intervening years. For one, the membership in ACECC has grown as has the detailed agendas and topics for discussion within the Technical and Planning Committees. It has also been affirming to see new representatives from the member societies join in the ACECC meetings and again confidence and find their voices within this society.

We have tackled many issues over the years and signed many collaborative documents, the latest being the Tokyo Agreement that binds us all to Sustainability and making decisions bound by a code of ethics. Just look at what we have achieved over the years.

In this, the 20th year, since ACECC's founding I congratulate all who have played a part in this development and sharing of ideas. I wish all who serve now and those who will come behind us the very best wishes for continued growth and positive activity to drive this organization forward for the benefit of all.athered a diverse group of civil engineering and other leaders, including international guests, to articulate a global vision for the future of civil engineering. The publications *The Vision for Civil Engineering in 2025* and the accompanying roadmap, *Achieving the Vision for Civil Engineering in 2025* resulted from that summit. In *Vision 2025*, civil engineers become trusted leaders as: master builders, innovators, leaders in public policy, managers of risk and stewards of the environment. The American Society of Civil Engineers invites all countries to endorse *Vision 2025* and collaborate with us to create a global sustainable world.

Keywords: *sustainability, infrastructure, civil engineering*



Jakarta Protocol

Civil Engineering for a Sustainable Future

Background

The American Society of Civil Engineers, the Chinese Institute of Civil and Hydraulic Engineering (CICHE), the Engineers Australia (EA), the Indonesian Society of Civil and Structural Engineers (HAKI), the Institution of Civil Engineers (ICE India), the Japan Society of Civil Engineers (JSCE), the Korean Society of Civil Engineers (KSCE), the Mongolian Association of Civil Engineers (MACE), the Philippine Institute of Civil Engineers (PICE) and the Vietnam Federation of Civil Engineering Associations (VIFCEA), who together form the Asian Civil Engineering Coordinating Council (ACECC) believe that emerging global challenges over the last decade, including the financial crisis, population migration, and food and energy crises, and natural disasters, have reinforced the need to secure and fulfill internationally agreed commitments to sustainable development.

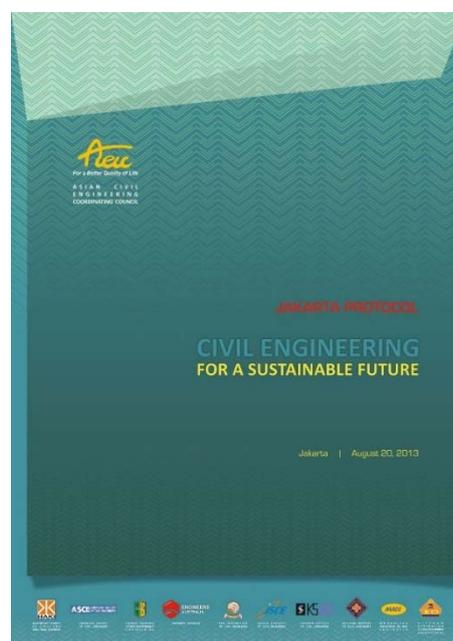
ACECC also believes that sustainable progress toward achieving the UN Millennium Development Goals is necessary to address water and food scarcity.

For such commitments to be realized, critical infrastructure must be adapted to the impacts of climate change and resilient to natural

and man-made disasters.

The role of civil engineers

The ten societies/institutions commit to lead internationally on the delivery of sustainable infrastructure. Civil engineers of the 21st century are called on to play a critical role in contributing to peace and security in an increasingly challenged world. Civil engineers have an obligation to protect cultural and natural diversity, and they are central to the planning, design, construction, operation, maintenance and decommissioning of infrastructure networks that underpin civil society and economic activity and protect human health and welfare. Emerging challenges have reinforced the key role of these networks in enabling global societal resilience.



FINAL REPORT

Issued By ASCE

2016



CIVIL ENGINEERING CONFERENCE IN THE ASIAN REGION (CECAR7)

WAIKIKI, OAHU, HAWAII | AUGUST 30 – SEPTEMBER 2, 2016

**Ho-'omalamalama: Building a Sustainable Infrastructure in the Asia Pacific Region*

**Ho-'omalamalama is a Hawaiian term that means to brighten, illuminate, enlighten, or inform.*



Courtesy Kevin McCarthy



Hilton Hawaiian Village Waikiki Beach Resort

www.cecar7.org

ACECC Tokyo Declaration 2019

April 16, 2019



Signed by the following ACECC Members:

American Society of Civil Engineers (ASCE)
Chinese Institute of Civil and Hydraulic Engineering (CICHE)
Engineers Australia (EA)
Indonesian Society of Civil and Structural Engineers (HAKI)
Institution of Civil Engineers (ICE India)
Institution of Engineers, Bangladesh (IEB)
Institution of Engineers, Pakistan (IEP)
Japan Society of Civil Engineers (JSCE)
Korean Society of Civil Engineers (KSCE)
Mongolian Association of Civil Engineers (MACE)
Nepal Engineers' Association (NEA)
Philippine Institute of Civil Engineers (PICE)
Vietnam Federation of Civil Engineering Associations (VFCEA)

- Preamble -

The Asian Civil Engineering Coordinating Council, (ACECC) was established on September 27, 1999 in Tokyo, with five (5) civil engineering societies/institutes present, the American Society of Civil Engineers, (ASCE), the Chinese Institute of Civil and Hydraulic Engineering, (CICHE), the Japan Society of Civil Engineers, (JSCE), the Korean Society of Civil Engineers, (KSCE), and the Philippine Institute of Civil Engineers, (PICE), to promote the acquisition and transfer of civil engineering knowledge for advancing the design and construction practices that ultimately improve the quality of life of all citizens from these ACECC member countries.

In addition to the five members at the time ACECC was established, eight new members, the Vietnam Federation of Civil Engineering Associations, (VFCEA), the Engineers Australia, (EA), the Mongolian Association of Civil Engineers, (MACE), the Indonesian Society of Civil and Structural Engineers, (HAKI), the Institution of Civil Engineers, (ICE India), the Institution of Engineers, Bangladesh (IEB), the Institution of Engineers, Pakistan, (IEP), the Nepal Engineers' Association, (NEA), have joined, and the cooperation between ACECC members has strengthened. As the variety of challenges, technology levels and economic development faces each individual member country is different, so ACECC has developed its mutual understanding of these issues.

The development of Asia has been remarkable, and the total GDP of the 13 ACECC member countries has almost doubled over the 20 years since the establishment of ACECC. Furthermore, for emerging countries, GDP has increased more than fourfold over the last 20 years. The increase in national income per capita has also been remarkable, and people's lives have improved dramatically.

Dr. Edward Wang



Deputy Secretary General of ACECC (2013-2017)
 Chair of ACECC TC-17 (2016-present)
 President of ASCE Taiwan International Group, ASCE (2007-2013)

CEO of Chinese Taipei APEC/IntPE Monitoring Committee (2010-2017)
 Bureau of Reclamation, Department of the Interior, USA

ACECC has made a substantial impact on my professional growth in the last 15 years. As a young engineer under the age of 40, my first ACECC Meeting experience was in Los Angeles in 2005. The Executive Committee Meeting (ECM) was a closed-door meeting back then. There was not much for members to engage in in the early stages then. When the 4th CECAR was held in Taipei, Taiwan in 2007, I organized a Young Engineer



Session where we received delegates from 7 countries and the session was well-received. The interaction among attendees was an unforgettable experience so much so that I am still in contact with several outstanding individuals via social media today.

The 2012 ECM in Taipei escalated my direct involvement in ACECC. Not only was I the CICHE organizer, but my proposal to establish the “Cultivating the Next Generation of Engineers Committee” was endorsed. Many ACECC leadership whom participated in the ECM in Taipei have developed long-term partnerships since then. They often accepted my invitations to CICHE Annual Convention as I served as CICHE International Committee and ASCE Taiwan International Group President.

ASCE nominated me to serve as Deputy Secretary General starting 2013 where I helped publish ACECC quarterly newsletters, recruiting member societies to join ACECC, taking the lead on “Future Leader Forum (FLF) by bringing dozens of Taiwan students to Tokyo in 2014 and Korea in 2015. The first official FLF in Nepal in February 2017 was so successful that we organized the 2nd FLF again in Mongolia in September 2017. ASCE awarded a Fellow for my contribution. It’s good to see the program growing now.

For many young engineers, it can take different routes to get involved in any of the international organizations. There is no secret or a short-cut but being proactive. Once having succeeded, the fruits are abundant and rewarding, including building communication and leadership soft skills, reputation, and enormous networking opportunities. For instance, ever since 2016 after the CECAR 7, I took the Chair position of TC-17 Anti-Corruption Committee. The Committee activities helped me to earn respect domestically and internationally. I was able to integrate my research and teaching on Code of Ethics with industrial practice in global context. The Public Construction Commission in Taiwan invited me to be the national speaker at cross country workshops. More than ten thousand licensed professional engineers and consultants listened to my presentation on regular basis. The Anti-Corruption Agency in Taiwan invited me to participate in the educational reform on Engineering Ethics. Being involved in ACECC Meetings and activities have helped me personally in my career development. Happy 20th Anniversary ACECC! Wishing many Asian leaders will follow my footsteps in enjoying what ACECC has to offer in their career development.



Dr. Udai P. Singh

Chair, ACECC Planning Committee (2013-2016)
 Chair, ACECC Local Organizing Committee (2013-2016)
 CECAR 7 Conference Chair (2016)
 Chair, ACECC Awards Subcommittee (2016-2019)
 ASCE Representative to ACECC and Executive Committee Member (2016-present)
 Chair, ASCE Environmental Engineering Division (1995-1996)
 President, ASCE Environmental & Water Resources Institute (2009-2010)
 CH2M HILL (1974-2014)
 US Environmental Services (2015-present)

ASCE is proud to be a co-founder of ACECC on September 27, 1999, and I have had the privilege and honor of serving ACECC as a part of the ASCE delegation since 2012. Participation in ACECC activities has enriched my professional life and increased my international friendship circle. I hope ACECC too has benefitted from my contribution during the last 7 years. I have seen the growth of ACECC membership as well as significant strides in technical and planning/administrative areas. My congratulations to all who have facilitated this development. It has been a collective effort.

Now that ACECC has completed its formative years, it is time to look forward and plan for its more mature years. One way to do this is to have a focused and intensive strategic planning session with representatives of all ACECC members. During the session we could look at ACECC's mission and objectives and agree upon a few broad-based goals. Each goal would need to be associated with several specific strategies to achieve it. The Tokyo Declaration 2019 will be a good starting point to help in identifying goals and associated strategies. Each specific strategy will need to have a tactical action plan that could have one or several activities for the successful implementation of the strategy. We will need to prioritize goals and strategies (e.g., short term vs long term), as we have limited resources.

Having suggested the above exercise, I have some big picture ideas that could be discussed as a part of ACECC's vision and strategic plan. These are as follows.

Membership. To be more representative of Asian civil engineering, ACECC needs to continue to grow in membership. In 20 years, we have added 9 members beyond the 5 co-founders. I hope we can accelerate the pace and add, on an average, 1 new member per year for the next 10 years. Let us work on having at least 19 members at our Silver Jubilee celebrations in 2024.



Presidents of ACECC Members CECAR8 Tokyo

Technical Initiatives. While ACECC has addressed a few technical areas in civil engineering pertinent to Asia, many more challenges remain to be touched. ASCE is leading a technical committee (TC-14) on Sustainable Infrastructure. TC-14 is only looking at how the ACECC member community is addressing the United Nations Sustainable Development Goals (SDGs) in a very broad way. A few TCs have been formed to go into more detail in some technical areas. We need to form many more TCs, especially in areas not touched so far, such as those related to climate change, water, human health, and the environment.

Technology Transfer. We need to improve on sharing or transferring civil engineering technology among ACECC members and beyond. Technical committees within ACECC as well as those in member organizations would be in the frontline in sharing technological advancements. I picture a greater number of attendees from all ACECC member societies to conferences and conventions of each member society. CECAR could offer more focused sessions and thereby become attractive to civil engineers from all over the globe. As Conference Chair of CECAR 7, I learned a lot of things that we should and should not do when planning a conference and we need to make sure that these lessons learned from one CECAR can be shared with organizers of future CECARs. I also envision that we have a one full-day conference with one to two concurrent technical tracks at an Executive Committee Meeting (ECM) about half-way between CECARs, while we continue to have a half-day seminar at all other ECMs, as we do now. Our TCs (ACECC TCs and invited TCs from member organizations) will provide most of the technical presentations for these seminars and CECARs. Some of us are already collaborating with experts in other disciplines (e.g., ICT, AI, public health), and ACECC will expand this interdisciplinary collaboration and transfer the knowledge to all members. We will be looking at doing some of the technology transfer online as well, utilizing the latest technology.



Keynote Speaker U.S. Congresswoman Tulsi Gabbard and Conference Chair Udai Singh at CECAR 7

Professional Development. ACECC has made gains in addressing some issues related to the development of civil engineers. Among them are anti-corruption and ethics, gender development (diversity), and development of future leaders in the profession. I envision a significant expansion of activities in this area and in general education and career development of civil engineers, primarily as experience sharing between ACECC members takes place as a result of many ACECC members already performing some activities within their own communities. Moreover, I envision ACECC working with its members to enhance the recognition of contribution of civil engineers in society.

Governance and Operation. The efficiency of governance and operation of ACECC may become more cumbersome as the number of its members increases. I am hoping however, that by the time ACECC celebrates its Silver Jubilee, its membership has increased significantly, and we have revised parts of our constitution and procedures to improve efficiency. Some ACECC members have already modified their governance structure to improve operation and governance efficiency, viz, ASCE and we should consider such changes in ACECC.

Implementation of the strategic plan will be a collective responsibility. However, each specific tactical action item will be assigned to one or more members with their consent and ability to take action. We should monitor the implementation based on the priority or schedule assigned to each strategy and tactical activity.

This is an exciting time for civil engineers, especially in Asia, due to the infrastructure challenges that need to be addressed. ACECC is doing its part and will increase its pace in the future to acquire and disseminate civil engineering knowledge.

I congratulate all ACECC members for their efforts to improve the quality of life of citizens in their countries in Asia. I also wish the best to ACECC in its future development and activities.





Dr. ISHII, Yumio

JSCE delegate in 1977 for the meeting with ASCE and PICE for the establishment of a new organization in Asia
 Chair of Technical Committee of 1st CECAR in 1998 at Manila
 2019 ACECC Achievement Awardee

President of JSCE (2007-2008)
 President of Japan Civil Engineering Consultants Association (2004-2008)
 CTI Engineering, Japan (1959 - present)

Pioneering Talks for ACECC and Success of 1st CECAR

1. Meeting of Three Societies

In 1997 at Manila, as a director and the chair of International Activities Committee of JSCE, I was involved in the negotiation with ASCE and PICE for the establishment of a new organization and a conference of civil engineers in Asia. The new organization and conference had been originally proposed by ASCE to JSCE and PICE in the course of the policy of ASCE and two societies had agreed to discuss about it.

JSCE had formulated a policy for promotion of international cooperation on equal partner basis. Under this policy, JSCE delegation eagerly discussed with ASCE and PICE. The meeting, however, last long without agreement and faced possible break-down, when Mr. Felipe Cruz of PICE proposed an exquisite wording of “Coordinating” in the name of the new organization. “Coordinating”, he said, meant equality of members of the organization. His diplomatic and superb proposal eased the tension of discussion and was accepted by JSCE and ASCE.

It is this wording that saved the establishment of the new organization, Asian Civil Engineering Coordinating Council: ACECC at the final meeting of the three societies in September 1999. Unfortunately, I was not able to attend the final meeting. This is the history of the name of “Asian Civil Engineering Coordinating Council.”

At the meeting in 1997, three delegations agreed to hold 1st “Civil Engineering Conference in the Asian Region: CECAR” in February 1998 at Manila and to organize the committees in charge and financial structures of the conference.

Main Members of Delegations in 1997

JSCE	Dr. ISHII, Yumio, Chair, IAC
	Dr. Masanari Tominaga, Vice-Chair, IAC
	Prof. Osamu Kusakabe, Secretary, IAC
ASCE	Dr. Patricia Galloway, Member, IAC
PICE	Mr. Felipe Cruz, President
	Ms. Nannette Villanueva, National Administrative Officer

2. 1st CECAR

1st CECAR was opened in February 19, 1998 at the Manila Hotel, Manila, Philippines with the main theme of “Infrastructure, Sustainable Development and Project Management.”

Leaderships of 1st CECAR

Honorary President:	Dr. Luther Graef, President of ASCE
President:	Dr. Patricia Galloway, Member, IAC of ASCE
Vice-President:	Mr. Akira Miyazaki, President of JSCE
Executive Director:	Mr. Felipe Cruz, President of PICE
Chair, Steering Committee:	Dr. Patricia Galloway, Member, IAC of ASCE
Chair, Technical Committee:	Dr. ISHII, Yumio, Chair, IAC of JSCE

At the opening ceremony, Dr. Fidel Valdez Ramos, the President of the Philippines and the Honorary President of PICE delivered a commemorative keynote address "An Opportunity to Build".

Through the Technical and Management sessions, informative and productive presentations and active discussions were made. The essay contest on environment by students and cultural display were performed, as well.

In spite of adverse economic condition of the Asian Monetary Crisis which broke out in 1997, as large as 700 participants attended and three societies contributed the seed money as planned. As for JSCE, number of participants were 120 and Japanese consultant and contractor firms were willing to donate the seed money.

This success of 1st CECAR lead to the establishment of the permanent organization, ACECC in 1999.

3. Personal Memory

3-1 Mr. Felipe Cruz

I would like to express my thanks and admiration to late Mr. Felipe Cruz for his exquisite and timely proposal of wording "Coordinating" which realized the establishment of ACECC. After 1st CECAR, I continued to cooperate with him in academia and business in Philippines.

3-2 Dr. Patricia Galloway

At the first meeting in Manila, her impression to me was not always favorable because of her frank speech. But through the collaboration with her, my impression completely changed. She frankly expressed her idea but at the same time she was very positive to understand other opinion.

3-3 Financial Campaign

I was involved in the campaign organized by JSCE for donation and participation to 1st CECAR. In the campaign, I was in charge of consultant firms, because I was a director of Japan Civil Engineering Consultants Association: JCCA. Much to my relief, the campaign was most successful thanks to the positive will of Japanese consultant firms to cooperate with academia.

3-4 Man of the Year ??

My wife and myself were on "Special" issue of the Newsweek for 1st CECAR





Dr. Yukihiro Sumiyoshi

Chair, Local Organizing Committee, CECAR 2 Tokyo (1999-2001)
 Counsellor, ACECC Committee of JSCE (2001~2005)
 Representative of JSCE to ACECC (2005-2013)

Director-General, Public Work Research Institute, Min. of. Construction (~1994)
 Executive Counsellor, Nippon Steel Corporation (1994~2001)
 President and Chair of Board, Central Consultant Inc. (2001~2013)
 President, Japan Bridge Bearing Association (2001~2015)

ACECC, the Asian Civil Engineering Coordinating Council, was established on September 27, 1999 in Tokyo by signing of five presidents of the Japan Society of Civil Engineers (JSCE), the Philippine Institute of Civil Engineers (PICE), the American Society of Civil Engineers (ASCE), the Korean Society of Civil Engineers (KSCE) and the Chinese Institute of Civil and Hydraulic Engineering (CICHE). After



Establishment of ACECC on September 27, 1999

finishing successfully the International Conference of Civil Engineering in the Asian Region in February 1998 in Manila (this Conference was later called as CECAR 1), representatives of PICE, JSCE and ASCE which were co-sponsored organizations of Manila Conference, preliminarily exchanged ideas and held preparatory meetings to build up a kind of international organization of civil engineering societies/institutions to promote collaborative work towards sustainable development of infrastructure in the Asian region.

At the last preparatory meeting in May 1999 in Manila basic items of the Organization such as objectives, membership, organization and draft Constitution and By-laws were discussed and almost agreed except a name of the Organization. As a name of the Organization, the Asian Civil Engineering Association was first proposed but this proposal was rejected by ASCE for the reason why it should be under a name of Association, the decision of a name would be applied by majority basis, therefore we were afraid ASCE would in some cases not follow the decision of the Organization. The Organization should not strongly force the right of member societies/institutions. Discussion and negotiation were stopped on that day. In the next day the Director of International Affairs Division of ASCE newly joined the meeting and proposed the 'Coordinating Council' instead of 'Association' as a name of the Organization. As the name of 'Coordinating Council' gives a favorable impression of more discussion and coordination basis for decision making process in the Organization, delegates of PICE JSCE and ASCE agreed with a new proposal. Idea of Asian Civil Engineering Coordinating Council (ACECC) which discuss and study towards sustainable development of infrastructure in the Asian region and its membership is open to worldwide

professional societies/institutions was realized. Immediately after the preparatory work finished, an invitation letter to join to ACECC was sent to professional organizations within and outside Asia by JSCE. Replying to the invitation KSCE and CICHE soon decided to join ACECC.

According to the Constitution and By-laws of ACECC, the Civil Engineering Conference in the Asian Region (CECAR) which is one of the major activities of ACECC is held every three years and the member society/institute which organize the next CECAR has a responsibility to operate ACECC administration for next 3 years terms. As CECAR 2 was decided to be held in 2001 in Tokyo, Dr. H. Okada (Former JSCE President) was nominated as the first Chairman of ACECC, Prof. O. Kusakabe (Tokyo Institute of Technology) was nominated as the Secretary General and Dr. Y. Sumiyoshi (Executive Counsellor, Nippon Steel Corp.) was nominated as the Chairman of Local Organizing Committee (LOC). CECAR was held continuously every three years, CECAR 3 in Seoul in 2004, CECAR 4 in Taipei in 2007, CECAR 5 in Sydney in 2010, CECAR 6 in Jakarta in 2013, CECAR 7 in Honolulu in 2016 and CECAR 8 in Tokyo again in 2019. ACECC will be celebrating the 20th anniversary on September 27, 2019. I am very much appreciated that the number of ACECC member societies/institutions now increased to 13 organizations.

I was present firstly as a member of JSCE delegate at preparatory meetings among three civil engineering societies/institution of JSCE, PICE and ASCE for the purpose of creating ACECC. I worked as the Chair of LOC, CECAR 2 which finished successfully and was really the first International Conference organized under the name of ACECC. After CECAR 2, I attended almost all of the Executive Committee Meeting, the General Assembly and CECAR as Counsellor of JSCE-ACECC Committee (2001~2005) and Representative of JSCE to ACECC (2005~2013).

At one of the Executive Committee Meetings, discussion took place about who the Founders of ACECC are. Against the opinion of ASCE delegate Prof. A that the Founders are three societies/institution, ASCE, PICE and JSCE, I insisted that the five societies/institution, JSCE, PICE, ASCE, KSCE, and CICHE who signed in a formal document of the Establishment of ACECC are considered to be the Founders, and three societies/institution of JSCE, PICE and ASCE should be evaluated as the Proposer of the idea of ACECC creation. This dispute continued long term. At the Executive Committee Meeting in 2008 in Sydney we could not find any solution and the Special Committee composed of Prof. A, me and Mr. P. Mitchell (Chair of ACECC, Representative of Engineers Australia-EA) was created to discuss matters within the committee by e-mail base. At the next Executive Committee Meeting in Hanoi, we were able to come to the conclusion that the



Opening ceremony at the 2nd CECAR

Founders of ACECC are five societies/institution which is my recognition and this conclusion is now clearly expressed as one of the formal history of ACECC.

In the opening address of CECAR2, I delivered the message about the background of the establishment of ACECC and the purpose of the Conference as follows;

‘In Asia where almost two thirds of the world population inhabit, all kinds of natural disaster such as earthquake, flood, typhoon, volcanic eruption, land slide and so on, often and continuously occur and the environment is deemed to be changing to the worse. The concentration of population in the urban area is also a very difficult issue for many countries and areas in Asia to realize sustainable development. The recent economic crisis in Asia has had a serious influence on infrastructure development in the related countries and areas. In order to overcome the economic crisis and to realize suitable development, it is extremely important to discuss the various matters such as the necessity of research and development in the civil engineering technology, how the infrastructure in the Asian region should be and how to manage it, and so on.’

‘The purpose of this conference is to offer an opportunity for leading people in industry, government and academia related to the civil engineering technology and infrastructure development in the Asian region to get together and exchange information and ideas. The common goal for the Asian countries and areas is Sustainable Development in the 21st Century.

To achieve this goal, the most important and urgent subjects in Asia such as the environment, natural disasters, urban development and innovative technology, especially information technology are the conference themes.’

In last 20 years after the establishment of ACECC, some changes clearly happened in the infrastructure development in the Asian region as follows.

We have experienced the huge earthquake and tsunami in Sumatera island, Indonesia in December 2004 (M 9.1, number of dead and missing; about 227,900) and in East Japan in March 2011 (M9.0, number of dead and missing; about 22,000). Every year, many countries of the Asia are suffered by the damage of typhoon and flood and other type of natural disaster.

Against damages of increasing natural disaster, we have learned that only hard infrastructure has a limit to save people lives and also refuge plan to lead people to higher places or safer shelters in short time beforehand is very important as soft countermeasures.

According to increase of their income, people in Asian countries who expect the rich and convenient life and seek for better job gather into mega cities and move between mega cities and other urban areas .Therefore the investment for infrastructure development of these areas such as expressway

network , international airport, high speed train network and mass transit system etc. is very active and rapidly increasing.

People welcome the investment for giant project to make their country stronger but a problem is found in some cases. For financing a project, in case the total amount of budget is including loan from foreign countries, it is very important to carefully examine before the start of project that the amount of repayment of loan in each year should be smaller enough than the amount which the government or public corporation who is owner of the project could bear.

Otherwise, when the amount of loan payment is too big and beyond the owners ability, investment for new other project could not be realized any more or in the worst case the concession of the project in completion might be handed over to foreign countries in compensation for the failure of loan repayment.

The development of civil engineering technology is very active within recent two decades. By application of GPS, IT and other innovative technology, the method of survey, design, execution method using automated machinery, new construction material and others are completely changed towards to rationalization and labor saving, and predicted to be developed more in future.

Planners, engineers of the owner of projects in Asian countries should carefully work using innovated civil engineering technology according to local condition of nature, people, culture, social and economic condition, natural disaster for the region where the project is planned.

To act in realization of sustainable infrastructure development in the Asian region, some changes or consideration of ACECC organ or activity are necessary in near future.

- *Increase the number of member society/institution of ACECC.
- *Activate the working of Technical Committee of ACECC
- *Invite young civil engineers to ACECC activities.
- *Consider a better way of management of ACECC according to increase of member organization.
- *Beginning of small seminar for local problem of civil engineering technology.

At the last of my message, I would like to express my sincere thanks to all the delegates of member Societies/Institutions and friends who met, worked and discussed together with me through 15 years of my ACECC experience.

I hope that the ACECC will be succeeded to younger civil engineers and the spirit and activities of ACECC will be developed wider and deeper to realize sustainable infrastructure development in the Asian region.



Ms. Emiko SERINO

Former Office Administrator for ACECC (1999-2001, 2013-2016)

On Sept. 26, 1999, a friend of mine called me and told that the Japan Society of Civil Engineers was looking for a person who could draw up minutes of an international meeting held in English by civil engineers in the Asia Pacific Region. I somehow felt it might be a very interesting and challenging job and wanted to take it, although I was a complete outsider of the civil engineering world. Since I had worked as a stenographer secretary for an American executive in an American cosmetic company in Japan in the 70's and I was pretty confident of my English listening skill as well as typing. At the time when I heard about a job with JSCE, however, I was basically a housewife teaching children English at home. As a matter of fact, I had long been alien to the business world which had rapidly been going through so-called office automation in those days, but Prof. Osamu Kusakabe, who had been working for founding ACECC, was brave enough to employ me who was a complete computer illiterate, and the next day, on Sept. 27, I was requested to attend the ACECC Inaugural Meeting which was held at the JSCE HQ office. This is how my days with ACECC began.



At the reception for the 28th ECM, Dhaka, March 28, 2015

I worked for two ACECC Secretaries General: Prof. Osamu Kusakabe (1999-2001) and Dr. Kenichi Horikoshi (2013-present). Initially, the ACECC Secretariat was located in the place where the next CECAR was to be held. The 1st CECAR had been held in the Philippines in 1998, but ACECC itself was founded afterwards on Sept. 27, 1999, when JSCE was working hard for CECAR2, which was to be held in April 2001. After CECAR2, the ACECC Secretariat was transferred to Korea for CECAR3 in 2014, to Taiwan for CECAR4 in 2007, to Australia for CECAR5 in 2010 and then to Indonesia for CECAR6 in 2013. During that period, I worked solely for the JSCE Committee on ACECC, first chaired by Prof. Osamu Kusakabe, next, Dr. Fuminao Okumura, then Dr. Kenichi Horikoshi, and currently by Prof. Eiki Yamaguchi, as the contact person for ACECC activities, although I was not a regular employee of JSCE. In 2013 it was decided that ACECC have a more permanent office and JSCE was elected to take that responsibility. Dr. Kenichi Horikoshi was assigned as the Secretary General and my work for the Secretariat resumed. My most important job was to draw up minutes of the ACECC executive committee meetings and other related meetings which were held in various places by ACECC member societies in turn. Therefore, I was able to visit those places where executive committee meetings were held. Especially, I really feel privileged that I was allowed to attend six CECAR's in Tokyo, Seoul, Taipei, Sydney, Jakarta and Honolulu.

At the time of the Seoul CECAR in 2004, I was very happy to have a chance to visit Chuncheon, an old city in Korea which was used as a stage in a Korean drama, Winter Sonata. Korean dramas had become very popular in Japan during those days.

At the time of the Taipei CECAR in 2007, I visited Jiufen, a small seaside town located in the northern part of Taiwan, which was really impressive. When I came back to Japan I bought a used DVD of “A City of Sadness”, which had become a very popular movie in Taiwan, and had been filmed on location in Jiufen. I came to know that there was a tragic history in Taiwan after World War II, and I was able to understand why Taiwan people are so friendly to Japan.



Wishing for further development of ACECC and success of CECAR

I visited Jiufen with Dr. Horikoshi for the second time on the occasion of 24ECM, Feb. 25, 2013

At the time of the Sydney CECAR in 2010, I could never forget an experience I encountered when I took a whale watching boat with my friends. The weather was terrible so I got seasick feeling like hell. Then, an Australian woman approached us and said “We are angry at Japan”. She was an anti-whaling activist. It’s not a very pleasant memory but I’m happy to have had an unforgettable experience.

At the time of the Jakarta CECAR in 2013, visiting Bali was certainly impressive. Beautiful terraced rice paddies were just like what are seen in Japan, so I felt at home, and ancient temples showed Bali’s unique tradition. And the beaches were beautiful. I was glad to learn that Japanese companies (Nippon Koei and others) did such a wonderful job, as an ODA project, to restore those which had been almost washed away.

At a village near Hanoi, with Mrs. Horikoshi,
 April 17, 2009.
 On the occasion of 17ECM





At a beach in Bali restored by a Japanese ODA project.
On the occasion of CECAR6, 2013.

At the time of the Honolulu CECAR in 2016, of course Waikiki Beach was absolutely fantastic, but visiting 'Big Island' (Hawaii) was the most impressive. Japan is also a volcanic country, but I found there is a big difference between Hawaii and Japan. Probably it is water that makes a difference. Japan is a country rich in water, so there are many hot springs, but there is no hot spring culture in Hawaii.

Other than the above mentioned CECAR cities, I was able to visit cities where Executive Committee Meetings (ECM's) were held during the period when JSCE served as the ACECC Secretariat: Seattle, Hanoi, Busan, Dhaka, Gunsan and New Delhi. Each place gave me an unforgettable memory. By working for ACECC Secretariat, my life has become so exciting and colorful.

Above all those nice memories, the most valuable thing to have, for which I'm so deeply thankful, is being able to make friends with so many people in foreign countries. Especially my counterparts in other societies such as Nannette Villanueva of PICE and Hyunsun Song of KSCE, as well as many other respected civil engineers who are actively playing important roles internationally. I really feel privileged about this. I'd like to express my heartfelt gratitude to all of them. I sincerely wish ACECC further development in the future.



With Hyunsun Song, KSCE, at 18ECM, Busan, Feb. 22, 2010



With Nannette Villanueva, PICE, at 18ECM



Mr. Masaaki Nakano

Chair of ACECC Technical Coordinating Committee (2016-2019)
 Secretary General of JSCE ACECC Committee (2013-2016)

NIPPON KOEI CO., LTD., Japan

Congratulations on reaching this wonderful milestone!!

It has been a great honor for me to work for ACECC. Getting to know many people and making friends in ACECC and sharing time together are irreplaceable experiences. I would like to thank you all.

I started getting involved ACECC in 2007 when CECAR5 took place in Sydney. To be honest, I could not realize how ACECC was different from other international organizations at that time. However, while serving as the secretary general of JSCE ACECC Committee, I got to know the ACECC's founding background and initiatives, then recognized its uniqueness. Further, in preparation for the invitation of CEACR8 to Tokyo, opportunities for listening to the significance of ACECC from Prof. Kusakabe and Dr. Horikoshi deepened my understanding.

ACECC is a coordinating council, where experts from industry, government and academia in various technical fields gather. I felt that the technical committees can function more and produce unique outputs that cannot be achieved by technical committees in academia only. Therefore, serving as the Chair of ACECC Technical Coordinating Committee for three years and discussing for activating TC activities with TCC Members were challenging and meaningful to me. I hope that TC activities will continue to promote the uniqueness of ACECC.

I also expect many young generations to get involved and play an active role in ACECC.

I sincerely hope that ACECC and its activities will become more well-known and keep contributing to the happiness of people in Asia.



(We enjoyed the cultural experiences after ECMs.)



Prof. Mitsu Okamura

Chair of ACECC Planning Committee (2016-2019)

Vice President of Japanese Geotechnical Society (2019-2020)
Ehime University, Japan

It is my great pleasure to write this article in celebrating the 20th anniversary of ACECC. Having made remarkable contribution over the past 20 years, ACECC has become the backbone in the civil engineering community of the member countries. Let us use this 20th anniversary to bring relations even closer and get to know each other better, which provide strong basis to achieve the ACECC objectives.

Leaderships of ACECC is a torch lit by the members and passed from hand to hand every three years. It was my great honor to join the ECM as the PCM chair for the period of the torch entrusted to JSCE's care, from 2016 to 2019. The first ECM in this period was held in Kathmandu, Nepal in April 2017. Although it was only half a year after joining ACECC and in the serious confusion of 2015 Gorkha Earthquake disaster, NEA decided to host the ECM and organized in a pretty good manner. Subsequent ECMs were run by societies/institutes each of which has experiences as a host of past ECM; in Ulaanbaatar in September 2017 hosted by MACE, in Hanoi in April 2018 by VFCEA and in Melbourne in October 2018 by EA. All of these ECM were well organized with full of warmth and hospitality of the host societies/institutes so that we were able to concentrate on the issues to be discussed in the day time and enjoy local culture and fraternization between members. As a PCM Chair, I found many ideas put forward by delegates in the PCM very sound. Of course, there were many issues of disagreement, I was impressed by the way many of delegates presented their ideas in a cool and reasonable manner. I would like to express my sincere gratitude to each and every one of you who worked to make those important events successful. It hardly seems that the three years of the term of service as the PCM chair given to me passed already. I hope that all of the ACECC members and participants to the ECMs have gotten great benefit from being there.

The torch, which is now in a good care of ICE, was handed from JSCE to ICE at CECAR8 in Tokyo immediately after ECM hosted by JSCE. We have accepted a new member society, Fed. MES, this year and hopefully will further increase the number. I believe that a trust between member societies as well as trust in the torch are crucial way that enables to get rid of possible conflicts of interest we may encounter. The world is changing more and more rapidly, ACECC is expected to play an increasingly important role as the only civil engineering council which coordinating in Asia region. I pray for further success and development of ACECC and all of you.



Mr. Masayasu Kayano

Chair, CECAR8 Local Organizing Committee, ACECC (2017-2019)

Member, Board of Directors, JSCE (2017-present)

Vice President, JSCE (2019)

Representative Director, Executive Vice President, Kajima Corporation, Japan

My sincerest congratulations on the 20th anniversary of ACECC. As the Chair of the Local Organizing Committee of CECAR8, I feel privileged to have been a part of the valuable activities of ACECC.

CECAR8, or the 8th Civil Engineering Conference in the Asian Region, hosted by Japan Society of Civil Engineers (JSCE), was held in Tokyo in April 2019. Thanks to the generous support from all the ACECC member societies, the conference was attended by about seven hundred participants from forty-three countries including non-ACECC countries, leaving a significant footprint in the ACECC's history in the memorable year of its 20th anniversary.

I believe what sets CECAR apart from a typical academic conference is its comprehensiveness: civil engineers with diverse specialties coming together and discussing topical issues related to, or involving, civil engineering. It is with this recognition that the LOC planned and organized CECAR8 which had returned to Japan after an eighteen-year interval.

The main theme, "Resilient Infrastructures in Seamless Asia," was fitting and appropriate for a conference that took place in Japan with its frequent natural disasters including the Great East Japan Earthquake of 2011. It was an excellent opportunity, not only for sharing the knowledge and experience Japan had gained in disaster recovery and reconstruction, but also for discussing the roles of civil engineers in building and maintaining resilient infrastructures in the Asian region.

During the plenary sessions, three wonderful speakers helped set the tone of the conference: Mr. Jitsuro Terashima, Chairman of Japan Research Institute, Ms. Robin A. Kemper, the ASCE president, and Mr. Benoit Rulleau, Executive Vice President of Kansai Airports. These surely were the highlight of our offerings in the conference that, I believe, the participants were fully satisfied with.

In some fifty technical sessions that followed, approximately two hundred forty papers were presented under diverse topics from infrastructure management, innovative construction technologies to civil engineering education. We also had about fifty exhibit booths where governments and companies from Japan and elsewhere presented their latest technologies and major projects. Additionally, we offered nine technical tours, including a one-day trip to the areas hit by the Great East Japan Earthquake and a half-day trip visiting an Edo-taste old town "Kawagoe" with young Japanese engineers as the tour guides.

I was personally struck by the way young engineers from around the world actively participated: making their presentations expertly, and fielding questions from the audience with confidence. In other words, I saw them sharing their technical achievements and stimulating each other with their industry peers from different countries. This is important. CECAR has proven itself to be an excellent opportunity for them to be part of the international civil engineering community, and we will continue to encourage their participation.

CECAR8 culminated in the announcement of our vision: the ACECC Tokyo Declaration 2019 whereby we set the future direction of ACECC's activities to better fulfill our responsibilities as civil engineers in addressing various problems in the Asian region.

We, civil engineers, have very important roles to play in making "resilient infrastructures in seamless Asia" a reality. To accomplish this, ACECC must act according to the Tokyo Declaration as announced in CECAR8. It is my earnest desire that ACECC, having marked its 20th anniversary, will carry the torch set ablaze by CECAR8 into the future.



CECAR8 Opening Ceremony



ACECC Presidential Meeting at CECAR8



Dr. Kiyoshi Kobayashi

Professor Emeritus of Kyoto University
Distinguished Professor at Graduate School of Management,
Kyoto University (2019-present)

President of Japan Society of Civil Engineers (JSCE) (2018-2019)

I really wish to celebrate the 20th anniversary of the Asian Civil Engineering Coordinating Council (ACECC) on September 27, 2019. ACECC was established on September 27, 1999 in Tokyo, with five civil engineering societies and institutes present, to promote the acquisition and transfer of civil engineering knowledge and expertise for advancing the design and construction practices. Since then, nine new members have joined this council to share technology information and experiences, which are expected to resolve common economic and societal issues for all member countries.



ACECC Declaration



Signing up by ACECC presidents

ACECC has been administrated by the organizations, whereby Japan Society of Civil Engineers (JSCE) has played a pivotal role for the period from 2016 to 2019. In conjunction with the 36th Executive Committee Meeting (ECM), the 8th Civil Engineering Conference in the Asian Region (CECAR8) was held at Ikebukuro Metropolitan Hotel in Tokyo on April 16-18. In CECAR8, civil engineers, among others young engineers, from Asian countries come together to share information and best

practices.

In the 36th ECM, all members of ACECC agreed upon issuing the **ACECC Tokyo Declaration 2019** to clearly define the ACECC objectives for its future functions as a platform to share knowledge and policy visions for future among civil engineers in Asian regions, and to formulate

the common goals and basic activities of the member organizations. ACECC will widely disseminate the results obtained to society and contribute to the realization of a safe, secure and sustainable society. Given the agreement by ECM, the final draft of the declaration was signed by all presidents of the member academic societies including myself at the presidential meeting which was held on the first day of CECAR8.

The **ACECC Tokyo Declaration 2019** defines the roles of civil engineering and ACECC as a functional platform as follows. Civil engineering technology builds civilizations, helping to make people's dreams come true and enriching their lives and society as a whole. Recognizing that our present standard of living is based on civil engineering and civil engineering technology that has developed over time, ACECC will increase its efforts to properly disseminate the role and the importance of civil engineering to society to support the continuing development of civil engineering. ACECC will continue to encourage young civil engineers to take pride in civil engineering, sharing their ideas for the future of the civil engineering profession and encourage more youth to become civil engineers.

Being President of JSCE, I was honored to announce the Declaration to the audience at the last session in the CECAR8. With the end of CECAR8, JSCE completed its administrative role in the ACECC, and this role was transferred from JSCE to ICE, India. As clearly stated in the preamble of the **ACECC Tokyo Declaration 2019**, over the 20 years, the ACECC member countries have experienced an unprecedented number of natural disasters such as earthquakes, tsunami, floods, storm surges, volcanic eruptions, typhoons and torrential downpours. ACECC must develop responses to expected disasters in the Asian Region to mitigate the impact of these disasters as well as plan and design infrastructure resilient to disasters. Coupled with the impact of climate change on a global level, the scale of natural disasters surpasses past experiences and it is becoming increasingly difficult to solve the problems arising from these disasters. Climate change has the potential to increase the severity of many natural disaster impacts.

ACECC has always recognized and contributed to the solution of these problems regarding disaster countermeasures and disaster prevention and reduction as a common and urgent challenge which are arising in cities and regions within Asia as well as in countries beyond Asia. I am convinced that ACECC will continuously play these fundamental and significant roles as a technological providing wisdoms and solutions for the people and economies/societies in Asian regions and beyond. In this line, I wish to celebrate again the 20th anniversary of ACECC.



Engr. Willy Tiu Go

National President - Road Engineering Association of the Philippines (REAP), Inc. (2017 to present)

National President – Philippine Institute of Civil Engineers (2008)

President - Philippine Institute of Civil Engineers (Cebu Chapter 2001 - 2002)

President – Association of Carriers Equipment Lessors (ACEL) – (Cebu Chapter 2000-2002)

Vice-President – Kamagong Gun Club Inc. (1996)

Past Chairman – Regional Construction Training Center (1995)

Director – Philippine Contractor Association (1994-1995)

Past President – Cebu Contractor’s Association (1994-1995)

Past President – Phil. Eaglecom Society Inc., Cebu Chapter (1998)

Member – Cebu Chamber of Commerce & Industry

I would like to greet and congratulate every member-organization of the Asian Civil Engineering Coordinating Council (ACECC) for its 20th Founding Anniversary. Also, I commend the leaders of ACECC and its member-organizations for twenty-long years of untiring efforts and dedication for the service and welfare of the organization and the civil engineering profession.

A two-decade of outstanding collaboration and exchange of brilliant scientific ideas, researches and innovations in the civil engineering by ACECC member-organizations is a vivid manifestation of our active commitment “For a Better Quality of Life” for our community and our respective countries. Truly, civil engineering plays a vital role in the economic growth and advancement of any country around the globe. Thus, it is imperative that we continue the noble mission of this organization and let its remarkable contributions resound even outside the Asian Region.

Once again, congratulations to all of us, and Long live ACECC!



Engr. Efren H. Sison

President Philippine Institute of Civil Engineers (2000 - 2001)
 President Association of Structural Engineers of the Philippines (1986-1988)
 President The Institution of Specialist Structural Engineers of the Philippines
 (2014 to Present)

APEC Engineer
 ASEAN Engineer
 Filipino ASEAN Chartered Professional Engineer

My warm greetings to the Asian Civil Engineering Coordinating Council (ACECC) as we commemorate its 20th Founding Anniversary. (1999 to 2019) CONGRATULATIONS! ACECC has come a long way with significant gains in scientific and technical collaboration and endeavours for the sustainable development in our respective countries.

This 2019, the ACECC member economies have expanded to 14 from the original pioneering organizers of 5. As we shared a common vision and objectives to advance the science and practice of civil engineering, ACECC's steadfast expansion was inevitable. We were in a spirited pursuit of a common target... ACECC for a Better Quality of Life for all! It is noteworthy that the discussion of common issues affecting the international civil engineering practice was never a dull moment and so the Technical Committees were formed.

In the early years of ACECC, in Executive Committee Meetings (ECM) we suggested the discussion of such vital common issues of disaster mitigation and preparedness as well as come up with a uniform building code for the Asian region.

PICE chaired the Technical Committee on Disaster Mitigation and organized, chaired several Technical Sessions on this broad topic during the Civil Engineering Conference in the Asian Region (CECAR).

As years passed, and to date, ACECC has metamorphosed into a dynamic group and i can surely say, that will continue to work for the interest of civil engineering and the sustainable development of infrastructures in the Asian Region.

MORE POWER ACECC!!!

FOR A BETTER QUALITY OF LIFE!!!



Ms. Nannette C. Villanueva

Former Executive Director/National Administrative Officer
Philippine Institute of Civil Engineers (PICE)

Organizing is a JOURNEY, so it is said.

By a curious twist of fate, I became involved in the formation of ACECC when PICE became the host of the 1st CECAR or the Civil Engineering Conference in the Asian Region in 1998 in Manila during the PICE presidency of the late Filipino construction icon Felipe F. Cruz.

In CECAR 1, I had the rare privilege to meet the leaders, civil engineering personalities of ASCE, JSCE, KSCE and CICHE (in that order). It was not only meeting them that created an impact on my person. But what made the difference was the so inspiring influence that was more on the actual linkage and collaboration work.

And so CECAR 1 in Manila was a resounding success, paving the way for the formation of ACECC on September 26, 1999.

Outstanding recognition and commendation should be awarded to the then leaders of the professional organizations from ASCE, JSCE, KSCE, CICHE and PICE, as a way of acknowledging the efforts of the ACECC organizers/prime movers. After all, it was them who stirred ACECC to move forward with a clear vision for the civil engineering practitioners in the Asian Region to bind together and meet the challenges of sustainable development of structures and fulfil a common aspiration to address civil engineering issues.

And so for some years the ACECC leadership changed hands depending on the chosen host of CECAR. By some design the set up was ideal and worked well until some years later that a more permanent organizational structure was envisioned, later evolved and implemented.

The holding of ECMs became an institution and were held regularly. It was ACECC's General Assembly, shifting venues depending on the chosen host. The composition likewise varied depending on the representation and through the terms of office of officials of the member organizations.

The triennial CECAR is ACECC's main achievement. It featured and shared the results of scientific and technical studies, researchers conducted by the cream of the crop ACECC members.

Soon the ACECC Achievement Awards was launched for Outstanding Projects and Outstanding Professionals.

In the meantime, friendship among ACECC personalities blossomed warmly. For me, I am truly honored to have met and have remained friends with JSCE's Ms. Emiko Serino through the years!

Thus, 20 years onwards, ACECC will even more succeed in achieving its Vision and Mission, recognizing the dynamism and resolve of the member economies, remembering that "The Achievements of an Organization are the Results of the Combined Efforts of Each Individual"

Mabuhay (long live) ang ACECC!!!



With Dr. Kenichi Horikoshi, Secretary General of ACECC; and Ms. Emiko Serino, former ACECC Head of Secretariat. Taken last November 14, 2019 in Tokyo.



With Ms. Hyunsun Song, now a Director at the KSCE, and Prof. Park Jae-Woo of KSCE and Hanyang University. Photo taken in Seoul, South Korea in Nov 2018.



Dr. Benito M. Pacheco

President, Philippine Institute of Civil Engineers (2011)
 President, Association of Structural Engineers of the Philippines (1998-1999)
 Academician, National Academy of Science and Technology PHL (2019-Present)

Professor, Institute of Civil Engineering
 University of the Philippines Diliman
 riskguide101@up.edu.ph

Here is to celebrate one region, two decades, and three wishes for the Asian Civil Engineering Coordinating Council.

One: may the ACECC always keep at heart that the coordination that we

need is among civil engineering societies of Asia to always recognize the particular needs of the bigger societies in our respective countries and economies, the better for our profession to be always responsive to both global and local concerns.



National consultation in 2017 for Philippine Building Act

Two: may every civil engineer keep in mind that we are duty bound to keep up to date with the best practices by our profession, both in general and in specialized fields. In the Philippines, for instance, the PICE in 2011 formalized the elevation of Environmental and Energy Engineering Specialty together with: Geotechnical Engineering Specialty; Project Management and Construction Engineering Specialty; Structural Engineering Specialty; Transportation Engineering Specialty; and Water Engineering Specialty. At the University of the Philippines Diliman, our BSCE program allows every senior student to select one of these tracks in pursuing a capstone undergraduate research.

Three: may every citizen of the world, the region, the country or economy, or the neighborhood keep within sight our common and shared goals across sectors and professions: resilience and sustainability of our civilized environment.

In the Philippines, for example, we civil engineers work alongside architects, various engineers, urban planners, scientists, lawyers, and many other professionals and sectoral representatives to update and replace our 42-year-old National Building Code with a more up-to-date Philippine Building Act, to mainstream disaster risk management.

We aim to streamline the building classification and permit application process. We aim to better consider multiple hazards and new factors in building design. We aim to create an inter-agency and multi-sectoral regulatory body. We aim for old buildings' assessment and maintenance. We aim for incentives for retrofit and for use of environmentally sound and sustainable materials and technologies. Indeed, we aim for resilience and sustainability of our built environment.



Dr. Primitivo C. Cal

Former President of the Philippine Institute of Civil Engineers
Former Member of various committees of ACECC

I wish to extend my warmest congratulations to all the people who have been responsible for the establishment and growth of ACECC on the occasion of its 20th Anniversary. These people, too numerous to mention individually, can be credited for the attainment of the objectives of the Council. Today, the program of activities of the council in line with its objectives are in place. In fact, the Civil Engineering Conference in the Asian Region (CECAR) has been institutionalized yielding benefits to all the member domestic societies.

It has been my privileged to be involved in the professional activities of the ACECC as a member, one way or another, in the Executive Committee, Planning Committee and Technical Advisory Committee. I particularly treasured by co-Chairmanship of the Anti-Corruption Committee which had greatly benefited my own domestic society, the Philippine Institute of Civil Engineers.

Two decades of service for the advancement of the civil engineering profession in the Asian Region is highly significant. I have no doubt that the ACECC will continue to render the same kindness of service, if not better, in the years to come. Again, my best wishes to ACECC as it celebrates its 20th Founding Anniversary.



ENGR. ROMEO S. MOMO

Co-Chair of ACECC TC-21
National President – Philippine Institute of Civil Engineers (2012-2013)

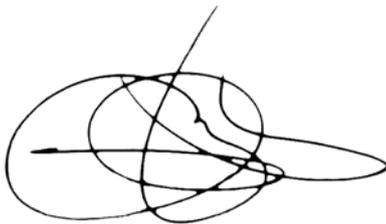
Congressman of Construction Workers Solidarity, Former Undersecretary,
Department of Public Works and Highways, Republic of the Philippines

My warmest felicitations to every member-organization of the Asian Civil Engineering Coordinating Council (ACECC) as it celebrates its 20th Founding Anniversary. I salute the men and women who have worked hard for this outstanding organization for the past two decades.

Two decades have swiftly passed but the untiring efforts and dedication of the leaders of ACECC in pursuit for technical advancements in the engineering profession is still evident as it continues to collaborate and exchange superb engineering innovations to its member-countries for the betterment of our country and the people that lived therein. Undeniably, civil engineering profession is one of the driving forces in any economic growth and developments of each country.

Lastly, may we in ACECC always continue our services and noble pursuit for a “FOR A BETTER QUALITY OF LIFE”.

Once again, congratulations to all of us – ACECC Members!

A handwritten signature in black ink, consisting of several overlapping loops and a long horizontal stroke extending to the right.

ENGR. ROMEO S. MOMO



Dr. Maria Catalina E. Cabral, Ph.D., CESO I

Chair, Gender and Development in Infrastructure Committee of ACECC (2019-present)
 Undersecretary, Philippines' Department of Public Works and Highways (2015-present)
 President, Philippine Institute of Civil Engineers (2017-2018)
 Vice President, Philippine Technological Council - Women Engineers Network (2017-2018)
 Member, Association of Southeast Asian Engineering (2018-present)
 Member, Asia Pacific Economic Cooperation Engineering (2018-present)
 Chairperson, University of the Philippines Planners Organization (2018-2019)
 Treasurer, Philippine Technological Council (2017-2018)
 Member, American Society for Civil Engineers-Philippine Group
 Member, Road Engineering Association of the Philippines
 Member, Road Engineering Association of Asia and Australasia
 Member, Association of Government Civil Engineers of the Philippines

My warmest congratulations to the Officers and Members of the Asian Civil Engineering Coordinating Council (ACECC) on the celebration of your 20th Anniversary on September 27, 2019.

Yet again another feather in your cap, this milestone celebration is a testament of your organization's unyielding aspiration to raise the bar of civil engineering practice in a global scale through meaningful collaborations among your member-institutions.

ACECC boasts of two decades of bridging geographical, cultural and skill gaps among civil engineering organizations across the Asian region through constant fora that beget meeting of the minds, exchange of best practices, and networking.

Your continuing efforts to highlight sustainable development at the core of your discourse is truly commendable, more so, that recent times have shown the disastrous consequences of the abuse to environment amid rapid urbanization and infrastructure development.

Standing on the threshold of another decade, given all the remarkable accomplishments you have achieved in the past, I am certain that ACECC will continue to thrive as an organization looked upon for its efficiency, dynamism, and camaraderie.

May all your efforts and hard work bring forth positive changes beneficial to all your members and to our burgeoning built environment.

Always put your best foot forward and good luck to all your forthcoming endeavors!

Mabuhay !



Engr. Erdsan Rene S. Suero, ASEAN Eng.

President, Philippine Institute of Civil Engineers (2019-present)
Treasurer, Philippine Technological Council (2019-present)
Technical Auditor, Philippines' Commission on Audit (2019-present)

Two decades of making a significant mark in countries across Asia, the Asian Civil Engineering Coordinating Council (ACECC) has been standing strong for twenty amazing years now. With integrity, efficiency, and dynamism, ACECC has attained accomplishments worthy of recognition and emulation.

In behalf of the Philippine Institute of Civil Engineers (PICE), I would like to extend our warmest congratulations to Asian Civil Engineering Coordinating Council for reaching yet another milestone.

ACECC since its existence has bridged its member institutions in the Asian region by promoting collaborative work towards sustainable development. It encourages oneness by bringing together Engineers from all over Asia; and, fosters the exchange of ideas to create a better quality of life to the local and the global community.

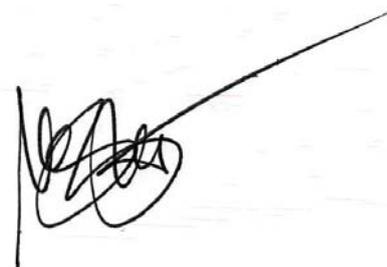
The world is rapidly changing, and our engineers are the minds behind a big chunk of these developments. They served as the backbone of our modern society by building and creating great infrastructures. Engineers are critical yet creative; curious yet capable, and of course, always up to the challenge of handling constant changes. In our advanced technological world, we bring ideas to life. And ACECC has become an instrument in shaping further the potentials of our Engineers to be more and achieve more.

We commend ACECC for its relentless labor of providing platforms for Engineers to come together, establish networks, and fortify knowledge.

Progress and development should be widespread. And we are one with the vision of ACECC towards a future where there are growth and support to the community.

Cheers to 20 meaningful years! Continue building success for a better quality of life to all!

Proud to be Filipino Civil Engineers! Proud to be part of ACECC!



Mr. Yen-Yi TSENG



President of Chinese Institute of Civil and Hydraulic Engineering (1998-1999)

Chairman of ASE Culture and Education Foundation(2015--)
 Chairman of Hung Ching Co., Ltd., the ASE Group.(1999-2015)
 President of Ret-Ser Engineering Agency (1991~1998)
 Chairman of The Chinese Institute of Engineers (CIE)
 Executive Director of Asian Civil Engineering Coordinating Council (ACECC)

In 1999, I served as the 13th President of Chinese Institute of Civil and Hydraulic Engineering (CICHE). After many efforts, CICHE and ASCE, JSCE, KSCE, and PICE jointly established the Asian Civil Engineering Coordinating Council (ACECC). Twenty years on, the ACECC continues to thrive as Asia's economies take off. By 2019, 14 organizations had joined, with a total population of more than 710,000 engineers. The long term effort is truly a remarkable achievement and one to be congratulated on!



Signing ceremony of ACECC establishment in 1999

As we celebrate the 20th anniversary of ACECC, I would like to take this opportunity to thank all CICHE partners for working together. Mr. Chi-Shou HSIEH and I ran along to set up ACECC. Mr. Jenn-Chuan CHERN and Mr. John Chien-Chung LI have made long-term contributions to ACECC. Many predecessors, Mr. Chin-Der OU, Mr. Ching-Peng SHEN, as well as many other outstanding scholars and engineers in various fields, your contributions have reached exceptional achievements today. Thank you. I certainly want to share with you all the twenty years of honor.



Chi-Shou HSIEH Jenn-Chuan CHERN John LI Za-Chieh MOH Chin-Der OU Ching-Peng SHEN

Looking ahead, ACECC will play a more critical role in the cooperation and promotion of civil engineering in Asia and even the world. It is my sincere hope that more up-and-coming stars will continue previous efforts to help ACECC to flourish and CICHE to shine more brightly in the world.

Prof. Luh-Maan Chang



Chair of ACECC Committee, CICHE (2008-present)
 Chair, IAC Committee, CICHE (2009-2013)

Chair Professor for High-Tech Fab Engineering,
 College of Engineering, National Taiwan University (2019-2021)

Thank all of ACECC friends. CICHE has been actively participating in every ECM meeting and constructively contributing to every CECAR conference since 1999. With your steadfast support, CICHE is looking forward to working closely with you for better quality of life in the coming years.



Presidential Meeting in CECAR 4



Discussion for Taipei 101 Declaration

At the 20th Anniversary of ACECC, I would like to take this opportunity to make a few of my observations into the Message Book. In my view, the most significant endeavor made by ACECC in the last 20 years is on the subject area of **Sustainable Development**.

The endeavor has continuously been underscoring since ACECC was established on September 27, 1999. At the day one, ACECC clearly set her holy goal “to promote collaborative work towards **Sustainable Development** of infrastructure within the Asian regions.” This terminology or its synonym has also been highlighted in her triannual CECARs as shown in the following table.

CECAR	DATE / PLACE	FOCUS POINT
1	Feb. 19-20, 1998 Manila, Philippines	Conference Theme: Asian Infrastructure, Sustainable Development and Project Management
2	Apr. 16-20, 2001 Tokyo, Japan	Resolution of Presidential Meeting: The 1st objective among four ACECC objective was “to promote and advance the science and practice of civil engineering and related professions for sustainable development in the Asian region.”

3	Aug. 16-19, 2004 Seoul, Korea	Conference Theme: Moving Asia to the Future The sole Keynote Speech on "Environmental Issues and Sustainable Development in Northeast Asia" by Dr. Myungia Kim
4	Jun. 25-28, 2007 Taipei, Taiwan	Conference Theme: Working for Asian Sustainability Resolution of Presidential Meeting was "Taipei Declaration on Sustainable Development "
5	Aug. 8-12, 2010 Sydney, Australia	Conference Theme: Innovative Community Building Resolution of Presidential Meeting was Presidents' Communiqué "to recommit to the aims and objectives of the ACECC and draw attention to the world wide benefit of promoting sustainable communities. "
6	Aug. 20-22, 2013 Jakarta, Indonesia	Conference Theme: "Embracing the Future Through Sustainability ". Resolution of Presidential Meeting was "Jakarta Protocol: Civil Engineering for a Sustainable Future ".
7	Aug. 31- Sep. 2, 2016 Hawaii, U.S.A.	Conference Theme: "Building a Sustainable Infrastructure in the Asian Pacific Region
8	April 16-18, 2019 Tokyo, Japan	Conference Theme: Resilient Infrastructure in Seamless Asia Resolution of Presidential Meeting was ACECC Tokyo Declaration 2019 "ACECC will continue to conduct activities to promote the sustainable development of infrastructure facilities in order to the improvement of the quality of people's lives."

Sustainable Development can be sourced back to 1987 when the World Commission on Environment and Development (WCED) of United Nations published the Brundtland Report "Our Common Future." In the report, Sustainable Development is defined as the "development that meets the needs of the present without compromising the ability of future generations to meet their own needs." https://en.wikipedia.org/wiki/Our_Common_Future.

This also laid the groundwork for the convening of the 1992 Earth Summit (Rio de Janeiro Earth Summit.) Since then, Earth Summit functions as a platform for many UN Member States to collaborate. https://en.wikipedia.org/wiki/Earth_Summit. In 2012, the United Nations held another Conference on Sustainable Development at Rio again, called "Rio Earth Summit 2012" or the

renowned “Rio+20.”

https://en.wikipedia.org/wiki/United_Nations_Conference_on_Sustainable_Development.

Obviously, the call for Sustainable Development is because the ongoing global economic development is overdone. The over-development cannot be ignored anymore and needs collaborative effort for sustainable development on earth. There are many economic, social and political factors causing the over-development. In my observations and personal opinions, one of the most critical factors is the exponent growth of world population. If one looks at the following population projection table, it is easy to comprehend that there would be about 8.1 billion people living on earth in 2025 and about 9.7 billion in 2050. The 2025 generation will have about 0.4 billion more people and the 2050 generation will have about 1.6 billion more people than 2019 generation's. Both generations of 2025 and 2050 must need more resource to develop more infrastructures and to supply more foods, goods and service for accommodating their needs.

https://en.wikipedia.org/wiki/World_population

Year	World Population (Billion)	Increased population (Billion)	Population Growth Rate (%)	Asia Population (Billion)	Increased population (Billion)	Population Growth Rate (%)
2050	9.7	1.6	197.5	5.3	0.5	104.2
2025	8.1	0.4	51.9	4.8	0.2	43.5
2019	7.7	0.4	54.8	4.6	0.2	45.5
2015	7.3	0.4	58.0	4.4	0.2	37.2
2010	6.9	0.4	61.5	4.2	0.3	87.7
2005	6.5	0.5	83.3	3.9	0.2	54.1
1999	6.0			3.7		

If their needed resource cannot be supplied abundantly due to the limited resource and/or unbalanced supply, they must compete for the limited and unbalanced resource. If the competition gets intensive, the law of the jungle would likely rule. the fittest would survive. The weak most likely become the prey of the strong; the poor for the rich; the disadvantaged for the advantaged; the underdeveloped for the developed and so forth. If this is fighting for few foods, they may either kill each other or starve to death. Therefore, to prevent the tragedy of unconstructive competition and/or self-killing among human beings, human being as a whole has to search for civilized solutions to resolve the potential catastrophe resulted from the present explosive growth of human population.

Besides the to-be-overcrowded world population, it is well known that the present means for economic development consumes a lot of coals and oils for generating energy. However, the burning of the coals and oils not only produces carbon dioxide, but also methane and other toxic pollutants. Carbon dioxide and methane induce greenhouse-effect that causes global warming, climate change, and eventually tricks numerous natural disasters on earth as well as depletes the

natural resources needed for the future generations. Moreover, the toxic pollutants have been found that they are accountable for many healthy problems and fatal diseases. Moreover, the pollutants are terminating some of rare species and gradually changing genes of many other species. Consequently, they endanger the eco-environmental balance and human beings' harmonious co-exist with other species.

There are many convinced reports, using renewable energy is one of the best solutions for preventing the pitfalls resulted from the use of the coal and fossil fuel which will be eventually depleted and leave nothing but polluted earth for the future generations. Renewable Energy is energy from a source that can be maintained in a constant supply over time. Their sources are from sun, wind, water, bio-energy and earth. They are much safer and cleaner. Their applications are such as Photovoltaic Electricity (Sun), Solar Hot Water (Sun), Wind Generator (Wind), Hydropower (water), Hydrogen Fuel Cell (Water), geothermal (within Earth), Bio mass-grain and waste (bio-energy) and so forth.

In addition, according to HASTAC (Humanities, Arts, Science, and Technology Alliance and Collaboratory, <https://www.hastac.org/>), "education benefits economic growth and stability on both personal and national levels. It enhances personal lives and gives assistance to societies to run smoothly. It also means helping people to learn how to do things and support them to think about what they learn. It's also important for educators to teach ways to find and use information." Meanwhile, as Wikipedia's statements, "Education is about teaching, learning skills and knowledge. It also means helping people to learn how to do things and support them to think about what they learn. It's also important for educators to teach ways to find and use information. Through education, the knowledge of society, country, and of the world is passed on from generation to generation." (<https://simple.m.wikipedia.org/wiki/Education>.)

The over-growing human population and continual production of carbon dioxide, methane and toxic pollutants, have caused many human and natural disasters. We had better get the help from education. Not only we need to educate ourselves and the coming generation of civil engineers on the imminent threats to our comfort existence and peaceful co-existence with other species on earth, but also, to continuously and collaboratively promote **Sustainable Development** while we are building infrastructures in Asian regions and around the world. If we could collaboratively fix them now, we would not regret later. Thus, we could leave a safe, secure and clean earth with abundant resource for the next generations. These are my messages and my best wishes!



CE CAR 4 Exhibition Opening Ceremony



Reception Ceremony before CE CAR 5



After CE CAR 6 Tour



The 1st ABM Workshop in CE CAR 6



After L.J. Leu's Keynote Speech in CE CAR 7



CICHE Delegate Team in CE CAR 8



CICHE Youth Delegates in the 29th ECM



Get Together Photo in the 34th ECM



Mr. Jaw-Lieh WANG

President of Chinese Institute of Civil and Hydraulic Engineering (2017-present)
 Chair of Concrete Engineering Committee, CICHE (2010-2018)

Board Director & Senior Advisor of CECI Engineering Consultants Inc. Taiwan (2019-present)
 President of CECI Engineering Consultants Inc. Taiwan (2016-2019)
 President of Taiwan Institute of Steel Construction (2018-present)

I would like to represent CICHE, one of five founding members, to congratulate the 20th anniversary of the ACECC establishment. Especially her great success on promoting the collaboration efforts in the infrastructure sustainable development within the Asian region.



As we all know on the date of April 16 this year all the members signed the 2019 ACECC Tokyo Declaration, among all the initiatives, I personally consider the most important function of ACECC shall be the experience and technology development sharing in various regions, organizations and disciplines.



Signing ceremony of ACECC Tokyo Declaration in 2019

In the last decades, Taiwan has been suffered varies catastrophes, for examples: 921 Earthquake (Sep. 21, 1999), Morakot Typhoon Disaster (Aug. 8, 2009), it not only devastated Taiwan economics and transportation systems, but also caused huge casualties. As a professional Civil & Hydraulic engineer organization, CICHE is playing an important role to document all the damages, looking for the solutions to improve construction materials, to revise the design regulation & specification, to help the government passing the new polices. As a member of ACECC, we would like to have more opportunities to share and exchange our experience with all the members.

Although civil engineering is the oldest engineering category in the human history, however due to the changes in the global environment and the development of science and technology, civil engineer is facing the great challenges. Big data, GIS, AI and ...etc. will all speed up the next generation revolution in our field of practice, at this moment we do not know what kind of achievement can be reached in the next 20 years, but one thing CICHE know is that CICHE is proud to be a member of the ACECC and is ready to work with and cooperate with ACECC for the next 20 years.

Happy 20th Anniversary!!!



Dr. Hyoseop Woo

Secretary General of CECAR 3 (2003-2004)

Vice President of International Association for Hydro-environment Engineering and Research (IAHR) (2019-2023)
 Professor, Gwangju Institute of Science and Technology, Korea

Congratulations on the 20th anniversary of ACECC! It has shown a good example and legacy that people in different region and culture can cooperate with each other for the benefits of both in the professional society.

Time has passed since I did my best as Secretary General of the 3rd Civil Engineering Conference in the Asian Region (CECAR) during the whole years of 2003-2004. KSCE hosted and held it at the Sheraton Grande Walkerhil Hotel, one of the best quality hotels in Seoul overlooking the Han-gang River, on August 16-19, 2004. I can say it was successful in terms of varieties of program and number of participants totaling about 800, including 300 from abroad.

The LOC, chaired by Dr. Sung-Hwan Hong, invited Mr. Don-Seok Kang, the then Minister of Construction and Transportation of the Republic of Korea, for a congratulatory speech, and Dr. Myeong-Ja Kim, the former Minister of Environment, for an opening keynote speech on the environmental issues of the Northeast Asian region and sustainable development. Among numerous keynote speeches made during the conference, a few were still remembered; Dr. Sheng-Fong Lin, the then Minister without portfolio of Taiwan, gave us a speech on the implementation plan of sustainable development and Dr. Tomas Arciszewski, professor at George Mason University, USA, gave us a speech on the convergence of IT technologies and construction industry. Also, we had two special forums besides normal oral and poster sessions. One was on the international cooperation of the Southeast countries for the Mekong River project, organized by JSCE and participated by Vietnam, Laos, Cambodia and Thailand. The other was on the new trends in construction industry, organized by KSCE.

Other programs which seem worthwhile to be mentioned on this limited writing page are the Students' Essay Contest and an informal meeting of female civil engineers with Dr. Patricia D. Galloway, the then ASCE president. At the contest, seven participants presented, with all their



Students' Essay Contest at CECAR 3

passions, on such topics as sustainable development and future of civil engineering. The meeting with the female president of ASCE and female civil engineers of about 50 was also special. It was a free talk meeting exchanging their experiences in civil engineering practice in different environments. Her talk as a female leader in the seemingly male-dominant society was special, trying to encourage, with passion and commitment, all the young female participants at the hall.

Civil Harmony, a newly organized choir of about 25 members, composed of all civil engineers, is another heritage left by the conference. The motivation of organizing the choir was to show the conference participants something different and fresh. Under the leadership of Prof. Sung-Chul Lee, it had its first successful performance at the closing ceremony of the conference. Since then, its activities have been lasting until now, having a regular performance every year. What a beautiful artistic activity it is among the hard working, seemingly a tough world of civil engineering!

ACECC had the latest CECAR, the 8th one in Tokyo, Japan last April, 15 years after the 3rd one in Korea. Time makes tradition, but people make good tradition. As a person who had devoted himself 15 years ago to make the forum truly useful for civil engineers in Asia, I absolutely wish ACECC and CECAR to sustain the good tradition all along the 21st century.



Civil Harmony performing at the closing ceremony of CECAR 3



Dr. Jong-Seh Lee

President of Korean Society of Civil Engineers (2019)
Hanyang University, Korea

On behalf of the members of the Korean Society of Civil Engineers (KSCE), it is my great pleasure to extend our sincere congratulations to the Asian Civil Engineering Coordinating Council (ACECC) on the occasion of the 20th Anniversary. We share our greatest joy with all 14 ACECC members on this remarkable achievement.

As the founding member of ACECC, the KSCE continues to strongly support ACECC to strive for advancement of civil engineering in the Asian region. In the past two decades, ACECC has made significant contribution to the progress of civil engineering around the world, not only to the technology and development of infrastructure, but also to promote focus on sustainability, disaster prevention, climate change, education and other global issues that drew our attention. Although we are faced with many challenges today, I believe that Civil Engineers are well placed to provide solutions to these challenges. That is, because the projects we plan, design, construct, operate and maintain are intended to make a better place for the people. And together as a group of dedicated member societies/institutions sharing various experiences as civil engineers in different countries, we can produce positive effects and play an exemplary role in advancing the civil engineering profession in our regions.

Although I am extending a message as the KSCE President today, I have been actively following ACECC activities since its beginning, for I am a great supporter for active participation of international activities of the KSCE. I have attended 2 CECARs, the 5th CECAR in Sydney 2010, and the 8th CECAR in Tokyo 2019. I have also attended 3 ECMs, the 19th ECM in Sydney 2010, the 20th ECM in Jakarta 2011, and the 36th ECM in Tokyo 2019. It is exciting to see ACECC continuously expanding its members, and that there are more member economies acknowledging our existence, that we are playing a significant role in the global civil engineering community. This would be one of the greatest successes ACECC has achieved since its establishment, and I would like to encourage more of our neighbors to join the Council.

Today, the new horizon of civil engineering with state-of-the-art technology and transdisciplinary approaches that can enrich the lives of the people is unfolding in front of us. Facing these exciting challenges, ACECC will continuously share together the same value and vision, and look forward to further developing and enhancing its role internationally. We are dedicated to properly disseminate the importance of civil engineering to our society, especially to our younger generations who will create the unimaginable future of civilization.

Again, I wish the ACECC all the best for the next 20 years and wish every success in the 20 years celebration.



Signing representatives for ACECC Tokyo
Declaration at CECAR8 in April, 2019



Dr. Jae-Woo Park

ACECC Treasurer (2014-2016)
ACECC Finance Committee Chair (2014-2016)

Vice President for International Affairs, KSCE (2019)
Hanyang University, Korea

I would like to extend my heartiest congratulations to ACECC for completing 20 great years of success. ACECC as a major regional grouping of learned societies is an important member of the worldwide network of organizations working to support civil engineering and the positive contribution of civil engineers. For two decades, ACECC have been engaged in a vibrant partnership. With its services, the Asian civil engineering community has gained a lot. Indeed, the founders would share our joy and pride! I extend the heartiest congratulations to all those, past and present, who have guided, shaped and sustained the ACECC in its evolution. We celebrate the accomplishments of the previous years and anticipate ever active leadership of ACECC in Asian civil engineering communities.

By working together ACECC and the member societies promote coherent messages and responses on global issues and provide authoritative independent scientific advice on the issues of the day. Personally, I followed ACECC from its beginning twenty years ago, but it was only 2011 when I began to actively participate as a member of KSCE delegates. I was the International Activity Committee Chair of KSCE at that time. I have enjoyed working in ACECC ECMs and CECARs since then. The experience was very rewarding as we can make changes as well as contributions to Asian civil engineering community through ACECC activity. I also had an honor to serve as the inaugural Treasurer and ACECC Finance Committee Chair. We tried to minimize the financial burden on each society by making the ACECC and CECAR budget more efficient while I served.

ACECC, through its member societies, has a pivotal role to play in promoting the importance of civil engineering, facilitating networking and collaboration between researchers both in academia and industry, and providing role models for young people. Another activity that I fondly remember is the visit of Taiwanese students to ACECC ECM and KSCE annual convention in 2015. It was joint effort by CICHE, led by Dr. Edward Wang, and KSCE. This was one of the initial events in young generation participation in ACECC activity. They made presentations in KSCE Civil Engineers Leaders' Network (CELeN) with Korean students and foreign students who studied in Korea. The students, whether they are from Taiwan, Korea, or anywhere, enjoyed the opportunity to understand and learn more about the other countries.

With commitment and sincerity ACECC will prove its worth and gain the much-deserved recognition in next decades. ACECC with a brilliant team of dedicated member societies and with a friendly environment can only aim for high results. ACECC will serve the Asian civil engineering community with unselfish services as it has been doing. I wish ACECC all the success for many more years to come.



Eng. Tran Ngoc Hung

Vice-Chairman of National Assembly Office (1994-2003)
 Vice President and Secretary General of VFCEA (2003-2008)
 President of VFCEA (2008 - now)

Greeting

On the occasion of the 20th anniversary of the establishment of The Asian Civil Engineering Coordinating Council (ACECC) 1999-2019; Vietnam Federation of Civil Engineering Associations (VFCEA) would like to send the Board of Management, Board of Directors of Member Associations, and all members, Asia-Pacific civil engineers greetings, health wishes and continuing to achieve successes in your career.

The 20-year journey is not long but it is enough time to do many things. From a non-government organization with the initial 5 members, but with a noble mission, clear purpose, and wide vision, the Council has grown up to now with 13 Engineer Associations of national member, and having more and more engineer associations in other countries to want to join. Those prove that the activities of the Council have created the influence and spread over the past 20 years. Once again, VFCEA appreciates the activities of the Council, especially the scientific conferences, professional developments, exhibitions, image promotions, promoting the cooperation and connection between the member associations.

As an active member in ACECC, VFCEA is deeply imbued the noble mission and the spirit for the community of the Council and has got the practical and specific contributions in the activities of the Council. We have still felt the bustling and solemn atmosphere of the 34th Conference of the Standing Committee Council in Hanoi in April 2017. The presence of almost leaders of associations of 13 countries, the Council's secretariat, attending almost events on the sidelines of the conference, and your friendly and warm emotion have brought us the excitement, confidence and enthusiasm for the works. Although we know that there are still some activities that have not yet been organized well, and they more or less make you unsatisfied. But with the altruism and the generous of technologists, you still laugh happily. We have received many commendation letters after you returned home. We so appreciate it.

We wish the council's members to continuously have exchanges of experience and knowledge in our engineering works because we are the non-profit and non-governmental organizations and because our career is for the community.

Once again, we wish the Board of Directors to continue to operate effectively and all of us health and success.

President of VFCEA: Tran Ngoc Hung



34th Executive Committee Meeting



Mr. Steve Finlay

Secretary General of ACECC (2007-2010)

General Manager Engineers Australia
Sydney Division (2009-2015)

When Engineers Australia's Civil College was appointed to administer ACECC from 2007 -2010 it was an honour to be invited by ACECC Executive Committee Chair Mr Paul Mitchell to be Secretary General of such a prestigious organisation.

I recall my initial connection with ACECC when I was privileged to attend CECAR 3 in Seoul, Korea 2004. It was clear that ACECC especially through its tri-annual CECAR conferences provided a perfect platform "to promote and advance the science and practice of Civil Engineering and related professions for sustainable developments in the Asian region".

The Committee system adopted by ACECC in its constitution proved to be very effective with excellent examples of best engineering and sustainable practices in the Technical Committee Reports presented to the Executive Committee. The Planning Committee was also very effective in formulating and preparing policy documents for the Executive Committee to plan and carry out various activities to achieve the ACECC objectives and strategic vision. The excellent voluntary contributions made by all member organisations was a testimony to the influence ACECC has in showcasing the value that civil engineering brings to the sustainable development of the Asian Region in particular.

I was also extremely fortunate to attend CECAR 4 in Taipei, Taiwan in 2007 where the privilege of coordinating the following CECAR 5 was handed over to Engineers Australia. My colleagues Paul Mitchell Chair ACECC (2007-2010), Brian O'Donnell (Chair LOC CECAR 5), Peter Godfrey (to go on to be National President Engineers Australia 2009) and I witnessed a top class conference for like-minded professionals who showcased the best civil engineering has to offer the world.

The role of Secretary General proved to be both challenging and rewarding on personal and professional levels. To ensure that the ACECC constitution and by-laws are complied with can be problematical at times and the support and cooperation of members is vital in that outcome. I recall robust discussion on a number of topics and will always value the diplomacy that Paul Mitchell displayed in bringing about consensus.

My three year term as Secretary General concluded with CECAR 5 in Sydney in August 2010. The contributions from all involved especially Brian O'Donnell Chair LOC, Matthew O'Hearn Chair Civil College and Paul Mitchell Chair ACECC were central to the delivery of a very successful conference both professionally and financially.

After 20 years ACECC will undoubtedly continue to grow and the next generation of civil engineers will continue to deliver amazing sustainable solutions to whatever problems the world has to sustain.



Prof. Brian O'Donnell

ACECC Planning Committee Chairman (2008 – 2010)
 5th CECAR Local Organising Committee Chairman (2008 – 2010)
 EA Civil College Board Chairman (2007)
 EA Victoria Division Committee
 Managing Director, NHA Global Pty Ltd

I first attended ACECC for the 3rd CECAR and its associated meetings in Seoul, Korea, during August 2004 as part of the senior delegation from Engineers Australia when I was a Member of the EA's Civil College.

Just prior to becoming the EA Civil College Chairman, I again participated in the activities of ACECC at the 14th ECM, during January, 2007, in Cebu, Philippines. Lasting contacts were established and I not only enjoyed the friendship extended but found a willingness between the participants to work together and share experiences.

Five months later when I participated at the 4th CECAR in Taipei, with all its associated meetings and events friendships were consolidated and sharing ideas during the conference made me appreciate even more what a valuable and supportive organisation ACECC was for civil engineering across the region.

Following the change of ACECC leadership to EA after the 4th CECAR I was appointed the EA Representative on ACECC and attended the 16th ECM held on February 26, 2008, in Sydney. In that capacity it was an added honour to be accepted into the role of Planning Committee Chair and I looked forward to participating on behalf of EA with the same spirit of cooperation that others had shown me since I first attended in Seoul during 2004.

During preparations for the 5th CECAR in Sydney, I was appointed Chairman of the Local Organising Committee and fulfilled a dual role at the 17th ECM during April, 2009, in Hanoi, Vietnam and again at the 18th ECM during February, 2010, in Busan, Korea. When the 5th CECAR came to fruition in Sydney during August, 2010 the attendance, presentations, sponsorship booths and technical tours were all on target and the success of this event was a credit to whole EA Team from both the Civil and Structural Engineering Colleges.

The Annual Report of EA 2010-2011 recognised the great success of the 5th CECAR and I remained in contact with many of the engineers I had worked with on ACECC activities and subsequently attended the 7th CECAR in Hawaii. These had been busy but fruitful times for me that I shall never forget.



Mr. Shalendra Ram

EA Board Member (Civil College) (2018-present)
 EA National Chair of Transport Australia Society (TAs) (2018-present)
 Engineers Australia (EA) Representative of ACECC (2018-present)

ACECC promotes collaborative work towards sustainable development of infrastructure within the Asian region. Engineers Australia (EA) is a proud member of ACECC and I was appointed by EA's Civil College Board as the EA representative to ACECC Executive Committee in July 2018. My introduction to ACECC activities was in Melbourne, Australia from 8th to 10th October 2018 at the 35th ECM which was hosted by EA. Whilst preparing for the 35th ECM, I was advised by EA colleagues that the 5th CECAR in 2010 was held in Melbourne, Australia and it was a great success.



October 2018, 35th ECM, Melbourne

Some key highlights from the 35th ECM in Melbourne, included:

- Welcome by EA President, the Hon Trish White;
- Presentation of EA's Civil College Awards: Sir John Holland Civil Engineer of the Year & Rod McGee Medal;
- TCCM, PCM and ECM of the ACECC;
- ACECC Delegate Presentations; and
- Melbourne City Tour & Executive Committee Dinner.

Following the 2018 Melbourne ECM, preparations began for the 36th ACECC ECM and the CECAR8 from 15th to 18th April 2019 in Tokyo, Japan in the cherry blossom bloom. The ACECC Meeting highlights included:

- PCM, TCCM & ECM of the ACECC – Planning Committee Meeting;
- S Ram (EA) & S Bashir (PICE) presentation on Future Leaders Forum;
- Award Sub-Committee presentation – discussed evaluation process and 2019 award recipients;

- New member Myanmar introduced;
- TCCM – Technical Coordinating Committee Meeting;
- One New TC formed - Guidance of civil infrastructure practitioners' in the design and construction of stabilized pavements in the Asia-Pacific Region; and
- ACECC Tokyo Declaration Signing.



April 2019, 36th ECM, Tokyo



ACECC Tokyo Declaration 2019

Going forward, EA supports the ACECC activities and wishes to contribute to several of the ongoing activities through representation during the technical and planning meetings. A few key areas that EA will endeavor to assist ACECC member countries will include:

- Gender diversity and inclusion;
- Climate change and its impacts;
- Renewable energy;
- Sustainable transport;
- Professional code of conduct; and
- Infrastructure development & prioritization.

I look forward to a long association with ACECC and wish to strengthen both the EA relationship as well as my personal relationship with colleagues from ACECC member countries. I also wish to congratulate ACECC for a wonderful twenty years and thank my EA colleagues who have paved the path over the last twenty years.

Kindest Regards

Shalendra Ram

EA Rep on ACECC

EA Civil College Board Member

EA Chair Transport Australia Society



Dr., Prof. Ganzorig Erdene

ACECC Executive Committee Member (2004-2014)

The President of Mongolian Association of Civil Engineers (2002-2014)
 Vice-President of Mongolian Association of Civil Engineers (2015-present)
 Professor, Mongolian University of Science and Technology
 Member, National Academy of Engineering Science, Mongolia

ACECC is celebrating the 20th anniversary this year on September 27th, 2019. MACE has been a member of the ACECC since 2004. The MACE always grateful to ACECC and its member societies and institutions, for their tremendous support to our development. On this occasion, I would like to congratulate ACECC and its member societies who have formed brotherhood throughout the years and express our immense gratitude. Also, I am thanking Executive Committee giving me an opportunity to become a contributor to this book.

Mongolia had chosen democratic ways abandoning communist regime in 1990. There have been many reforms and restructuring happening throughout society. One of major direction was to establish and strengthen civil society and professional institutions and societies formed anew. Mongolian Association of Civil Engineers has been founded in 1996 and we did not have much experience and capacity to run a professional society. International relationship and professional networking is a key to such endeavor and I have paid particular attention in this regard since being elected MACE President in 2002 and set up close cooperation with ASCE, JSCE, KSCE, CICHE and etc.

In December 2004 in Taipei, Taiwan MACE signed MOU with CICHE and has become an ACECC member. This remarkable event leads us to expand our cooperation and collaboration with professional societies and institutions not only throughout Asia but also internationally. We are deeply grateful to Taiwan CICHE and our close friends Prof. Chen Chan Chern, Prof. Lu Mang Chan, and Mr. Kam Kui Ho for their support.

We made together honorable memories such as the meeting of high ranking government officials and representatives of ACECC members on the 85th Floor at Taipei 101 where Taipei Declaration on Sustainable Development has been adopted and I signed to it on behalf of the MACE, in 2007 .

We have been actively involved with ACECC activities and organized 13th and 33rd ECMs in Ulaanbaatar. I hope you had made great experience and lifelong memories while attending social and cultural events with us in Mongolia-the Country of Eternal Blue Sky.



Photo 1: Joined to ACECC in 2004 in Taipei



Photo 2: Participates of ACECC 33rd ECM in 2017, in Ulaanbaatar, Mongolia.

With the vision to develop national codes and standards we participated actively to JSCE chaired ACECC TC-8. The national code titled Basis of Structural Design is the main outcome of this cooperation of which we are very proud. There are many workshops, training sessions, knowledge sharing conferences with JSCE among which Mongolian civil engineers the first time ever have been introduced to *Performance Based Design Concept*, and learned about self compacted concrete and other advanced civil engineering technologies and projects. I presented Mongolia's achievement with respect to national codes and necessity of code harmonization at the 5th CECAR Special Forum on *Harmonization of Design Codes in the Asian Region* in Sydney, Australia nine years ago. Taking the opportunity I would like to express my deep gratitude to Prof. Kusakabe, Dr. Horikoshi and our friends at JSCE for their dedication and passion to develop long lasting cooperation between our organizations.

MACE succeeds to make its annual meeting a tradition. Also it has become a tradition that ACECC and its member societies and institutions send delegates to participate and support us with it. Concurrently, we organize technical workshop for Mongolian civil engineers and a roundtable meeting with decision makers. The topics discussed at these events are carefully selected to address emerging challenges we face.

Over 15 years since we joined ACECC, Mongolia has changed dramatically. There is rapid economic and social development with booming construction sector. MACE has become a part of international professional society uniting and leading Mongolian civil engineers. I have fond memories of ACECC events where I had chance to represent MACE and promote my country, while aiming to strengthen Mongolian engineers' capacity and competency.

I congratulate you with the 20th Anniversary, a milestone toward becoming the development pillar for Asian civil engineers. Also, I wish to member societies and institutions, great success in future cooperation endeavors.

Together Toward Better Quality of Life in Asian Region.



Eng., Murat Kujyek

Member, Awards subcommittee of ACECC (2014-present)
 Anticorruption subcommittee of ACECC

Vice President of Mongolian Association of Civil Engineers (2015-present)
 Member of ASCE /American Society of Civil Engineers/
 Member of JSCE

I am delighted to congratulate the pioneering associations and generations of leaders who helped build ACECC on its 20th anniversary on behalf of all members of the Mongolian Association of Civil Engineers (MACE) and myself.

MACE has been maintaining close cooperation with ACECC for 15 consecutive years since becoming a member. MACE's greatest accomplishment since joining ACECC was the introduction of Mongolia to achievements, good practices and creativeness of international peer associations.

In addition, we are ever grateful for the fact that membership to ACECC facilitated great possibilities in terms of foreign relations and networking. In 2008, I first attended 16th ECM organized in Sydney, Australia representing MACE. From that year on, I have been working as the chair of IAC and vice president of MACE under the guidance of the president of MACE, and signed cooperation agreements and built sisterhood with fellow civil engineering associations from ASCE, Nepal (NEA), Bangladesh (IEB) and Pakistan (IEP)



Joined to ACECC in 2017 in New Delhi

Mongolia has been leading Asia by its rapid economic growth for the past several years. Therefore, it is important to build capacity of civil engineers who are the masters of productiveness and the head wagon of country's development. In the light, our Association has been playing the main role which is to set out the sector's rules and norms and to promote and ensure constant learning and capacity-building processes for civil engineering professionals. Hence, expertise of ACECC, its members - the associations we built sisterhood and close cooperation with, and of the scholars, professors and experts are of invaluable significance. In this regard, I would like to underline that the technological workshops, organized in the scope of 13th and 33rd ECMs took place in Ulaanbaatar in 2006 and 2017 respectively, have made considerable contribution to national civil engineers.

At last, I would like to take this opportunity to extend congratulations once again on the 20th anniversary of ACECC and to wish great success for the future development and cooperation of the member associations. May ACECC always remain the heart of the world's civil engineering community.

**Eng., Ganbat Tserendondov**

President of Mongolian Association of Civil Engineers (Present)
Vice president of Mongolian Association of Civil Engineers (2017-2019)
Board member of Mongolian Association of Civil Engineers (2011-2017)

It is a great honor to have the opportunity to congratulate on the 20th anniversary of ACECC on behalf of over 2,700 members of the Mongolian Association of Civil Engineers (MACE). For the past 23 years, the Association has confronted and overcome countless challenges as it played a major role in the advancement of Mongolia's infrastructure and construction technology. The recession in today's world economy has been bringing heavy burdens on civil engineering field. In order for us to tackle those problems together, we are in a dire need of new technological inventions. MACE and ACECC should collectively be ready for such renovations.

MACE spent 15 years with ACECC as its member and is proud to have witnessed many important milestones.

Since its entrance MACE has been constantly broadening its connections with ACECC, and I believe that the tradition of exchanging representatives for annual meetings and consultations acted as invaluable contribution to better mutual understanding.

Once again, I would like to convey congratulations on the 20th anniversary of ACECC, and express my confidence in our future collaboration founded on shared vision for better living environment.

Yours sincerely,



GANBAT Tserendondov
President of MACE



Prof. Iswandi Imran

Secretary General, ACECC (2010-2013)
 Chair of Organizing Committee, CECAR 6 (2010-2013)
 HAKI Official Representative to ACECC (2009-2018)
 Chair, Ad hoc Committee of HAKI, HAKI (2013-2018)

Prof. at the Faculty of Civil and Environmental Engineering, ITB

HAKI joined ACECC since 2007 (during 15th ECM in Taipei). At the same year, for the first time HAKI participated in CECAR, i.e. CECAR 4 in Taipei. Initially, HAKI official representative for ACECC activities was Dr. FX. Supartono. But, since the 17th ECM in Hanoi, HAKI appointed me as HAKI official representative for ACECC activities.

I have learned a lot on how things are organized in ACECC from my first participation in the ECM meetings, i.e. in the 17th ECM in Hanoi. At the beginning, I was really not familiar with practices, rules, regulations for the ECM meetings. Nevertheless, I finally got acquainted with the situation as the meeting progressed.

In the previous ECM, i.e. during the 16th ECM, the ACECC executive committee voted for HAKI as the host for CECAR 6 in Jakarta. That is why, starting from the 17th ECM meetings until the ECM meetings in Jakarta held during CECAR 6, one of the routine agenda discussed was the progress of CECAR 6 preparation to be held in Jakarta in 2013. Because of that, HAKI had to prepare the progress report for every ECM meetings before the year of CECAR 6. In a way, this had driven HAKI to keep focus on the CECAR 6 preparation. As a result, CECAR 6 had been successfully organized and attracted more than 500 hundreds participants.

As the young member at that time, HAKI had many to learn. Fortunately, the first and old members such as ASCE, CICHE, JSCE, KSCE, and PICE are there to help us, especially when ACECC leadership (Chair and Secretary General positions) were being passed to HAKI. We thank all the ACECC members for their helps and assistants during the course of HAKI leadership. I am really honored at that time to serve as the Secretary General of ACECC 2010-2013. At the same time, I also served as the chair of the organizing committee of CECAR 6. These two positions were really kept me busy during those years. However, I was really fortunate to have these kinds of unique and challenging experiences in leading ACECC and CECAR activities from 2010 to 2013.

During the course of its membership, HAKI has witnessed and contributed to many developments in the ACECC organization. One of the significant development is the change in the terms for the Secretary General position and the establishment of the continues secretariat office. This significant change is important to better ensure the continuity of the ACECC programs. The other significant achievement witnessed by HAKI is the expansion of the ACECC members, from the original five member societies into fourteen (14) society members in twenty (20) years. With this large numbers of society members, ACECC has basically emerged as a world scale organization.

The 20th anniversary is an important milestone for ACECC organization. It signifies the readiness to transform from young to mature ages. Nevertheless, with all the significant achievements obtained so far, ACECC is in fact already a mature organization. I hope that ACECC will continue to expand in the future, and I also hope someday all the countries within the Asia Region will have their representatives in ACECC.



Dr. S.L. Swamy

Chairman, ICE(I)

Having come to know about the great work being done by ACECC it was thought that The Institution of Civil Engineers (India) should also join hands with this great Institution in promoting and strengthening Civil Engineering world over.

A. ACECC and its ECMs

- Attended the ECM at Taipei Taiwan as Observer in 2007 and requested for ACECC Membership for ICE(I).
- ICE(I) become the Member of the ACECC as resolved in the 17th ECM held in Hanoi (Vietnam) from 19th April, to 21st April, 2009.
- ICE(I) entry of Delhi Metro won the ACECC Outstanding Civil Engineering Project Award for the year 2010 during CECAR5.
- ICE(I) hosted 21st meeting of Executive Committee from 16-17 September, 2011 and also organized an International Seminar which was inaugurated by the then Hon'ble Chief Minister of NCT of Delhi. Many ACECC members participated in this International seminar.
- ICE(I) and KSCE organized a Technical Meeting at New Delhi on 23rd September, 2013
- ICE(I) hosted 30th ECM at New Delhi from India 25-26 March, 2016.
- India is hosting the 37th ECM of ACECC on 25-26 September, 2019 in Goa-India.
- The 20th Anniversary of ACECC is also being celebrated by ICE(I) on 27th September, 2019 at Goa-India
- Attended almost all ECMs held in different countries from time to time till date and participated in the celebrations.
- India is hosting the 37th ECM of ACECC on 25-26 September, 2019.
- The 20th Anniversary of ACECC is also being celebrated by ICE(I) on 27th September, 2019 at Goa-India.

B. MoUs with other ACECC Members

- ICE(I) has entered into MoU's with the following ACECC partners. Accordingly these Institutions have agreed to recognize the importance of efficient and high standard of National Associations for the Civil Engineering and in particular the Civil Engineers Profession, which work together in International harmony and friendship.
 1. Philippines Institute of Civil Engineers (PICE)
 2. Mongolian Association of Civil Engineers (MACE)
 3. Chinese Institute of Civil and Hydraulic Engineers (CICHE)
 4. American Society of Civil Engineers (ASCE)
 5. Koran Society of Civil Engineers (KSCE)

C. CECARs

CECARs attended

CECAR4 25-28 June, 2007 Taipei Taiwan

CECAR5 8-12 August 2010 Sydney Australia

CECAR6 20-22 August, 2013 Jakarta Indonesia

CECAR7 Hawaii – USA August 30 September 2 -2016

CECAR8 Tokyo Japan 16-18 April, 2019

CECAR9 is being hosted by ICE(I) in Goa (India) in September, 2022 with the theme “Sustainable Design and Eco Technologies for Infrastructure”.

Presented the following papers during the CECARs

1. **CECAR5 :** **Sydney** 8-12 August 2010
Topic “India’s Water Resources and their Management and chaired the session on Geo-Technical Engineering.”
 2. **CECAR6 :** **Jakarta** 20-22 August, 2013
Topic “Road Safety Initiatives in India” and also Chaired the session on Construction Engineering and Management.
 3. **CECAR7 :** **Hawaii** 31August-2 September, 2016
Topic “Ethics in Civil Engineering Project”
- **Membership of TC 17** on “Anti-Corruption” (Now Ethics)

D. Other activities

Member on the Board of Governors of the Engineering Council of India

Members of the following Institutions:

1. ASSOCHAM (The Associated Chambers of Commerce and Industry of India)
2. Quality Council of India

Celebrating Engineers Day on 15th September every year to commemorate the Birth Anniversary of Sir M. Visvesvaraya the Legendary Engineer who was conferred the highest Civilian award of the country “Bharat Ratna”. On this occasion ICE(I) organizes National Seminars on various Civil Engineering themes addressed by experts on the subject.

Photo Gallery



17th Executive Committee Meeting ACECC, Hanoi, Vietnam 20th April, 2009



21st Executive Committee Meeting of ACECC, New Delhi, India 16-17th Sept, 2011



22nd Executive Committee Meeting ACECC, Tokyo, Japan 1st -2nd March, 2012



Signing of MoU between ASCE & ICE(I) on 7th August, 2013, New Delhi, India



ICE(I)-KSCE Technical Meeting on 23rd September, 2013, New Delhi, India



26th Executive Committee Meeting of ACECC on 8th March, 2014 at Hawaii, USA



28th ECM of ACECC on 27-28th March, 2015 at Dhaka, Bangladesh



30th Executive Committee Meeting of ACECC on 25-27 March, 2016 at New Delhi, India



Engr. Md. Abdus Sabur, FIEB

President
The Institution of Engineers, Bangladesh (IEB)

It is a proud privilege for me to say a few words on this wonderful occasion of commemorating 20th founding anniversary of ACECC. As the president of the Institution of Engineers, Bangladesh(IEB) I am carrying the message of goodwill and friendship for all on behalf of over 50 thousand fellow IEB members from Bangladesh.



Padma Bridge under construction

ACECC was established 20 years ago with an aim to promote collaborative work towards sustainable development of infrastructure within the Asian regions and ever since its creation, ACECC with its two implementing arms – **Executive Committee Meetings (ECM)** and **CECAR** has been putting relentless efforts to achieve its set goals.

As of date, ACECC has as many as 13 Member Societies and 24 numbers Technical Committees. Commendable progress has been achieved through organizing 36 Executive Committee Meetings and 8 nos. CECAR being organized by the Member Societies in succession during past 20 years. IEB organized 28th Executive Committee Meeting in the year 2015 successfully at Dhaka, capital city of Bangladesh. This kind of congregation provides the participants an excellent opportunity under one roof for meaningful interactions, foster exchange of views & ideas, finding ways and means for enhancing and strengthening various activities under ACECC.

Here we are proud to mention that Bangladesh is an emerging economy in the new millennium and tremendous progress has been possible in various sector under the dynamic leadership of the honorable Prime Minister, Sheikh Hasina, daughter of our father of the nation, Bangabandhu Sheikh Mujibur Rahman. By now, Government has undertaken a number of mega infrastructural projects in communication sector including 6.15 km multipurpose bridge over the mighty river Padma, with own funding , which is regarded as a mile stone in civil engineering field.

We hope, in the light of the Tokyo Accord, ACECC will move forward steadily with relentless efforts and determination more efficiently than before enabling the organization to enhance its area of activities with desired professional excellence on way to achieve its vision and mission.

Wishing every success of ACECC in their efforts and endeavor to achieve its goal in future days.



Engr. Khandker Manjur Morshed, FIEB

Honorary General Secretary
The Institution of Engineers, Bangladesh (IEB)

It gives me immense pleasure to get the opportunity to send a message of good will on the grand occasion of the 20th founding ceremony of the ACECC. I congratulate the ACECC Management for organizing this colorful congregation providing a unique platform to express the professional excellence and the creativity of the civil engineers in particular.



EB Representative Signing Tokyo Accord 2019

Ever since its creation in 1999, ACECC in the light of its aim and objectives has been putting relentless efforts and endeavor in organizing meetings of the engineers under all the Member Societies to bring them together to share the knowledge, ideas and the best experiences. We are confident, the forum will provide a platform for building professional ties and friendship across the boundaries in South Asia which is vital to the advancement of the civil engineering profession and the continued level of cooperation amongst us.

Sustainable infrastructure development being one of the important keys for economic growth of a country as well as the better quality of life for the people not only in Bangladesh but also over the globe. Therefore, the prime principle of ACECC, collaborative work among the engineers will be getting more and more importance. Within 20 years of its life, ACECC has achieved significant success by way of attaching importance for improvement of professional development of the engineers in their field who are the backbone and prime mover of a country's development. We are extremely happy to see the efforts and endeavor being made by ACECC to achieve its set goal.

On behalf of the IEB, I wish all the participants a very successful and enriching experience at this august occasion and also convey my sincere well wishes to the fellow participating engineers at the happy occasion.



Engr. Md. Didarul Alam

Fellow, IEB and Fellow, ASCE
 President, ASCE Bangladesh International Section

It is indeed a great pleasure for me to convey my message of friendship and goodwill for the wonderful occasion on the 20th founding day of ACECC. We have no doubt to say that ACECC has opened a new era to discuss, exchange views & ideas, sharing of experience on mutual professional interest for the engineering field in particular. This objective has been achieved through organizing meetings & sittings in a regular intervals which accelerate implementation in a formidable manner.



IEB Representative Receiving ACECC Project Award 2019

As of to day, ACECC has established 24 Technical Committees as its implementing arms. A number of countries in south-east Asian region fall behind on involvement of women in the development stream of work in various sector. ACECC has recently created a Technical Committee to take care of Gender Issues which is a right step towards right direction. Worth mentioning that Bangladesh has achieved remarkable progress on this issue.

Introduction of presenting ACECC Project Award for individual professional excellence as well as efficient implementation of a project is another inclusion of the incentive for the engineers of the Member Societies. As award always acts as a source of inspiration, the engineers of a wining project would be greatly encouraged by this noble initiative for exhibiting professional proficiency and creativity in their respective field. Worth mentioning that IEB has won a Project Award 2019 in the project category at Tokyo Conference held in April, 2019.

Last but not the least, I would like to express our profound thanks and gratitude to ACECC Management for their initiative in organizing the wonderful occasion and wish grand success of the unique event.

Also hope, the activities of ACECC would enable us to come close to each other and our friendship would be deepened day by day through relentless initiatives by ACECC in near future.

Engr. Sohail Bashir



FIE, PE

Chair of ACECC Finance Committee (2019 – 2022)

IEP Representative to ACECC (since 2014)

Member Executive Committee, Federation of Engineering Institutions of Islamic Countries

Member Executive Committee, Federation of Engineering Institutions of South & Central Asia

Chairman, The Institution of Engineers Pakistan, Karachi Center

Member Governing Body, Pakistan Engineering Council

Member Senate, NED University of Engineering & Technology, Karachi

Alumni, IHE Delft Institute for Water Education, The Netherlands

As Chair of Finance Committee of ACECC and official representative of The Institution of Engineers Pakistan (IEP), I am delighted to have an opportunity to contribute a message on the occasion of celebrations of ACECC 20th Anniversary. I would like to take this opportunity to give a brief history of IEP and its role in the International Arena.

History of IEP

The Institution of Engineers was brought to the sub-continent by the British rulers in 1920. The Institution of Engineers India (IEI) was formally registered in Madras, the then un-divided India on September 13, 1920. The Royal Charter was granted to IEI by Emperor George V in September 1935.

Pakistan got independence on 14th August 1947 from British rulers. Almost after one year of the independence, The Institution of Engineers Pakistan (IEP) was founded by the Father of the Nation Quaid-e-Azam Muhammad Ali Jinnah on 7th May 1948 at Dacca, the then East Pakistan. Quaid-e-Azam gave following message at the inaugural meeting of IEP on 20th June 1948.

“If Pakistan is to take its proper place among the progressive nations of the world, it will have to take up a good deal of leeway in the realm of scientific and technical education which is necessary for the proper development of the country and the utilization of its resources. The establishment of institution like the Institution of Engineers will greatly stimulate technical research and help in disseminating available information. The Institution of Engineers will not only benefit the engineers themselves by improving their technical knowledge but also bring lasting benefits to public services which they are called upon to perform. I wish the IEP every success.”

IEP following this advice is playing a vital role in the development of Pakistan since its inception within the frame work of its aims & objectives which revolves around the promotion of technology, advancement of the engineering practice, application of principles of science in engineering and dissemination of technical knowledge.

Presently IEP Headquarters is located in Lahore, Pakistan. IEP have more then 50,000 members in 11 centers including overseas centers in Saudi Arabia, Bahrain and at USA-Tri States comprising of New York, New Jersey and Connecticut. IEP caters for all disciplines of Engineering. IEP represent Pakistan in the World Federation of Engineering Organizations (WFEO), Federation of

Engineering Institutions of Islamic Countries (FEIIC), Federation of Engineering Institutions of South and Central Asia (FEISCA), Asian Civil Engineering Coordinating Council (ACECC) and Commonwealth Engineering Council (CWC). IEP also have collaboration agreements with more than 40 Engineering Institutions around the world.

IEP is pursuing policy of self-reliance in all scheme of engineering works. IEP promotes optimal utilization of local human and material resources in the national projects.

IEP believes that in this modern era, technological education and research are the tools that are being used to compete among the developed nations of the world. To meet these challenges, the faculty, research students of Engineering Universities of Pakistan along with IEP and its International collaborating partners such as ACECC have realized their role and are putting their efforts through dissemination of knowledge in this area.

Role of IEP at ACECC

The Institution of Engineers Pakistan (IEP) was accepted as the twelfth member of Asian Civil Engineering Coordinating Council (ACECC) during the 26th ECM held on 8th March 2014 at Honolulu, Hawaii, USA. I was proud to be the IEP official delegate in this meeting and since then to this date I continue to be part of ACECC family. I am fortunate to have attended almost all the ACECC ECM since IEP got ACECC membership except 30th ECM and 37th ECM.



The photograph taken at the 26 ECM held on March 08, 2014 at Honolulu, Hawaii, USA



The photograph taken at the 27 ECM held on Nov 19, 2014 at Tokyo, Japan



The photograph taken at the 28 ECM held on March 28, 2015 at Dhaka, Bangladesh



The photograph taken at the 29 ECM held on October 30, 2015 at Gunsan, South Korea



The photograph taken at the 34 ECM held on April 13, 2018 at Hanoi, Vietnam



The photograph taken at the 35 ECM held on October 09, 2018 at Melbourne, Australia

Myself and our team comprising of Prof. Dr. Sarosh Hashmat Lodi, Vice Chancellor NED University of Engineering & Technology, Karachi, Prof. Dr. S.F.A. Rafeeqi, Prof. Dr. Abdul Jabbar Sangi, Prof. Dr. Muhammad Rafi, Engr. Asim Murtaza Khan, Engr. Ghulam Farooq Maniar and young Future Leaders Forum (FLF) Participants Engr. Ali Bin Sohail and Engr. Ms. Hiba Nuzhat Lodi have actively participated in various ACECC technical committees.

In the CECAR8, IEP technical contributions includes paper on **Good Reconstruction Practices in Pakistan after the Kashmir Earthquake** by Dr. Lodhi, Paper on **Next Steps to Ensure Civil Engineers in Pakistan to support achievements of the UN SDG's** by Dr. Sangi and on Study of Failures in Civil Engineering – A Pakistani perspective by Engr. Ms. Hiba.

IEP is also proud of getting recognition by ACECC at CECAR8 to Prof. Dr. S.F.A. Rafeeqi by awarding him Life Time Achievement Award and Civil Engineering Project Award to IEP nominated project Housing Reconstruction Awaran (HRA) Project conceived through R&D by NED University of Engineering & Technology, Karachi and constructed by Government of Balochistan.

I am also greatly indebted to Dr. Osamu Kusakabe, Immediate past Chair of ACECC (2016-2019) and ECM for nominating me the Chair of ACECC Finance Committee. I am also thankful to Dr. S.L. Swamy, Chairman, ICE (India) for bestowing his confidence on me to continue as Chair of ACECC Finance Committee (2019-2022).

I also take this opportunity to thank all the colleagues at ACECC specially Dr. Albert T. Yeung, Dr. Kenichi Horikoshi, Dr. Udai P. Singh, Dr. Luh Maan Chang, Dr. Jae Woo Park, Engr. Potenciano A. Leoncio, Dr. Mitsu Okamura, Mr. Masaaki Nakano, Dr. Edward Wang, Prof. R.M. Vasan, Mr. Prithipal Singh, Prof. Chiwan Wayne Hsieh, Dr. Pham Hoang Kien, Dr. Iswandi Imran, Jeff Howard, Ernesto S de Castro, Shalendra Ram, Engr. M. Abdus Sabur, Dhurba Thapa, Er. Rajinder Ghai, Dr. Shiv Dutt Sharma, Mrs. Meggan Maughan-Brown and many other friends with whom it was pleasure to work at ACECC.

Finally, I have high hope that ACECC in the light of ACECC Tokyo Declaration 2019 signed on April 15, 2019 (which I am proud to be a signatory) will move forward relentlessly to achieve the goal set out in this declaration. I also hope that the present leadership of ACECC will give more emphasis on reaching young engineers through Future Leaders Forum to strengthen ACECC activities through the power of networking.

I wish ACECC success in all the future endeavors.



Prof. Dr. Tri Ratna Bajracharya

President, Nepal Engineers Association (NEA) (32nd Executive Committee)
Former Dean, Institute of Engineering, Tribhuvan University, Nepal

It is immense pleased to know that the ACECC will be celebrating the 20th anniversary on September 27,

2019. On this occasion, I would like to congratulate the ACECC for organizing such an important event and bringing out a "Message Book" where several messages from the past and the current ACECC related people are included. I am confident that this publication will transfer the ACECC policy at the time of the foundation to the next generation.



57th Celebration of Engineers' Day on 19th July

I am confident that the convention will also provide a forum for sharing knowledge and building professional ties across the boundaries in Asia which is vital to the advancement of the engineering profession and the continued level of cooperation among us.

On behalf of the Nepal Engineers' Association (NEA), I wish to extend our best wishes and grand success of this important event of the 20th anniversary of the Asian Civil Engineering Coordinating Council.

We would also like to express our commitment to partnering the ACECC in its every endeavor for the advancement of the engineering profession.

In this opportunity, I would like to introduce my organization Nepal Engineers' Association (NEA). This is an independent nonprofit organization of Nepalese engineers, registered under the Social Service Act of the Government of Nepal. It was established in 1962. Today, it represents 26,740 engineers, belonging to various engineering disciplines including architects, civil, electrical, mechanical, electronics etc.; and coming from both the public and private sector economies. NEA is governed by an elected executive council of 25 members, led by the President of the association for a tenure of two years. NEA's mandates include promoting fellowship goodwill and cooperation assistance among the Nepalese engineers, safeguarding their rights and interests and promoting development of science and technology. Lately NEA has established centers for Continuous Engineering Education (NEA CCEE) and the Business Incubation Center (NEA BIC) to address

respectively the CPD requirements for professional enhancements and to promote entrepreneurship capabilities among the young engineers.

NEA facilitates and coordinates the professional activities of the independent subject specific professional societies namely that of Agricultural Engineers (NSAE), Architects (SONA), Arbitrators (NEPA), Computer Engineers (ACEN), Electrical and Communication Engineers (SECEN), Electrical Engineers (SEEN), Irrigation Engineers (SIREN), Mechanical Engineers (SOMEN), Public Health Engineers (SOPHEN), Structural Engineers (SEANep), Technical Auditors (SOTAN), Regional & Urban Planners (RUPSON), Rural Development Engineers (SERDEN), Value Engineers (NVA) and Society of Consulting Engineers and Architectural Firms (SCAEF).

NEA has also been at the forefront of developing fellowship and goodwill with international engineering associations and institutions. Presently, NEA is a member of World Federation of Engineering Organizations (WFEO) and was instrumental in the establishment of Federation of Engineering Institute of South and Central Asia (FEISCA). NEA has already joined the Asian Civil Engineering Coordinating Council (ACECC) and have functional bilateral relations with Institution of Engineers Bangladesh, India, Malaysia, Pakistan, Sri Lanka, Institution of Civil Engineers (ICE-UK), American Society of Civil Engineers (ASCE), Japanese Society of Civil Engineers (JSCE) and the Korean Society of Civil Engineers (KSCE).

EA has also signed bilateral cooperation understanding with the Society of Nepalese Engineers UK (SONE UK) and American Society of Nepalese Engineers (ASNErs).



Dr. Er. Hare Ram Shrestha

Chairman, Advisory Council Nepal Engineers association (2019-2020)
 Immediate Past President, (2017 – 2018) Nepal Engineers association
 Past President, Society of Consulting Architectural and Engineering Firms (SCAEF) Nepal. (FIDIC National Member Association).
 Executive Director, Sustainable Infrastructure Development Foundation (SIDeF)

ACECC being a leading international professional organization in Asia and Pacific has its glorious history in fostering the civil engineering sector to the higher level of professional excellence.

I am very happy to know that ACECC will be celebrating the 20th anniversary on September 27, 2019 and decided to publish a “Message Book”.



This is a very good idea to record the memories of various personalities with the ACECC activities and events.

It gives me immense pleasure and satisfaction that Nepal Engineers Association hosted 32nd Executive Committee Meeting (ECM) and Second International Symposium of TC21 on “Trans-disciplinary Approach on Scientific Knowledge-based Decision Making for Disaster Management” in Kathmandu during 23 – 25 April 2017. At the same time 21st Technical Coordination Committee Meeting and 26th Planning Committee Meeting of ACECC was also held. NEA being the youngest member of ACECC, organizing such program was a challenge. Being the then President



of host member association, it gave me deep satisfaction to organize the event, of course with the great help of ACECC EC, various committees, NEA EC and past EC of NEA.

I also feel happy that I have the opportunity to work in ACECC award committee.

I wish a grand success of all the events being organized in Goa India during 25 – 27 September in the 20th Anniversary of ACECC that includes 37th Executive Committee Meeting (ECM), TC 17 seminar on “Improvements to Engineering Governance through Ethics Standards, TC 23 seminar on “The Applications of Geo-synthetics for Various Civil Engineering Disciplines”, 26th Technical Coordination Committee Meeting (TCCM) and 31st Planning Committee Meeting (PCM).|



I congratulate the ACECC Executive Committee for bringing out this Message Book.

E-mail: hws@sidef.com.np



Engr. Aung Myint

President of Federation of Myanmar Engineering Societies (Fed. MES)
 President of Myanmar International Consulting Engineers Group (MICEG)
 Vice President of Myanmar Engineering Council (M Eng. C)
 Member, National Road Safety Council (NRSC)
 Member, Yangon Region Transport Authority (YRTA)
 Managing Director of Shwe Sin Eain Construction Co., Ltd.

The very first Engineering association in Myanmar had been established since 1916 during the British colonial period under the name “**Burma Engineering Congress**”, which was changed to “**Association of Engineers in Burma**” in 1927 and existed till 1962 when the Myanmar was under revolutionary council’s administration. All social organizations and unions were abolished in 1963 due to government Act for abolishing all parties and associations. Then it was reestablished in late 1995 with the name “**Myanmar Engineering Society (in short : MES) ”** was officially inaugurated on 7th February, 1996 at the lawn of Yangon Institute of Technology.

Since we established Myanmar Engineering Society, it is covering all Engineering disciplines both for Graduate and Diploma Engineers. We already have 26 Chapters in all states and regions of the country and the last 27th Chapter is planning to inaugurate in September, 2019. As of 13th August, 2019, we have all together **64,974** members in Seven Categories. (Student Members, Junior Members, Affiliate Members, Associate Members, Members, Fellow Members, and Life Members). We have 100 central committee members elected during the Annual General Meetings for two year terms. The Central Committee members are 50% from Private Engineers, 25% from Government Services, and 25% are faculty members from Technological Universities and we also make sure the representatives from every disciplines are to be included in the Central Committee. It is noticed that one third of the Central Committee members of our organization and 43% of the members are Civil Engineers. The Figure show the distribution of membership by Category & Civil engineers at each category, it is obvious that there are more Civil Engineers participating in our organization.

In order to implement our objectives successfully, we have set up 30 Technical Divisions and 30 multidisciplinary committees in our organization. There are ten working groups headed by President, Past Presidents, and Vice Presidents, and all the technical divisions and committees are under respective working groups. There are working groups and committees related with Civil engineering disciplines such as : Civil & Structure, Road & Bridge, Geotechnical, Water & Sanitation, Water Resources, Tunneling & Underground Space, Traffic Technical Divisions and Special Project , Transportation Studies, Myanmar Earthquake, Natural Disasters Mitigation, MIC Project committees, QC Lab & Material Testing, and Building Engineering Institute.

Member Categories	Total	Civil Engineers	% of Total
Student Members	22,889	8,371	37%
Junior Members	23,737	8,247	35%
Affiliate Members	3,168	958	30%
Associate Members	4,895	2,767	57%
Members	10,081	7,502	74%
Fellow Members	138	49	36%
Life Members	66	28	42%
Grand Total	64,974	27,922	43%

Table : Total members by Category & Civil Engineers in each Category



Photo : Central Committee Members of Fed. MES elected on 19-01-2019

As our organization is an Non-Government, Non-profit and Non-political Organization, we are playing key roles in supporting central and regional government organizations by giving necessary supports and technical advises for the Projects and Plans. We also are coordinating, cooperating with International and local organizations by jointly participating in development projects aimed for the benefit of our people. We are also providing regular training and knowledge enhancement activities of our members by organizing classroom & practical training, seminars, workshops and forums at our office as well as locally and internationally. We also have Young Engineers committee and Woman Engineers Chapter in our organization.

We have initiated and drafted the law for Myanmar Engineering Council since 2002 and it was materialized by the Parliament promulgating “**Myanmar Engineering Council Law**” in 2013. Moreover that MES has lead in drafting Myanmar National Building Code (NMBC), which the probational version was completed in 2016 and started applying. We also participated in drafting

the law for Yangon City Development Committee. Now our members are supporting YCDC for the implementing new law, as advisors/committee members at various departments and committees.

In order to fill up the gap for ensuring quality control and advisory works for infrastructure development projects, MES has formed “**Myanmar International Consulting Engineers Group (MICEG)**” under its umbrella and it is now highly demanding by most of the project owners both from government and private organizations. There are MICEG teams at most of our MES Chapters for providing better supports locally.

Fed. MES has joined the ASEAN Federation of Engineering Organizations (AFEO) since in 2000 and working closely with Engineering Organizations of ASEAN countries. We also are the associate member of FEIAP, and WFEO. The Woman Engineers Chapter is the member of INWES as well.

As our country is moving in democratic administration, it became more liberalized in establishing organizations and associations, which was not in the previous regimes. Therefore, in order to have better coverage in more systematic approaches, our organization decided to reorganize it from Association to Federation, which was discussed and approved during the Annual General Meeting of MES on 19th January, 2019. Since then, our organization name is called as “**Federation of Myanmar Engineering Societies, (Fed. MES)**”. With that our organization will be changed for some extent. The Technical division under each discipline will formed the separate associations by their disciplines under the umbrella of Fed. MES, and then the activities pertaining for each disciplines will be handled by those newly setup associations.

With that arrangement, The Civil Engineering Technical Division has setup the association named “**Myanmar Society of Civil Engineers (MSCE)**”, which was approved by the Authority and the association was officially launched on 1st July 2019 at Fed. MES Function Hall. This newly established association has its own Executive committee lead by Prof. Dr. Aung Kyaw Myat as President. Now the association is recruiting its members and will gradually taking over the activities of civil engineering related responsibilities from Fed. MES. Cooperations with international organizations related with Civil Engineering disciplines such as JSCE, ACECC, etc. will also be carried on by this new society.



Photo : Central Executive Committee members of MSCE

With the change of Fed. MES organization, there will be newly extended activity of Fed. MES which is establishment of MES Academy. In order to ensure the continuous improvement of its members, the newly evolved **MES Academy** will offer Continuous Professional Development programs, Advanced Engineering and Management courses as Post Graduate programs, and training engineers for applying professional Certificates from Myanmar Engineering Council. We have signed the MOU with Institution of Engineers Malaysia (IEM) on 19/01/2019 for the cooperation in establishing MES Academy.



Photo : MOU Signing between Fed. MSE and IEM for Cooperation in MES Academy

With all movements, the Fed. MES will continue to accomplish its objectives abreasting the technological advances and gradually changing demands of the industry.



Dr. Kenichi Horikoshi

Secretary General of ACECC (2013-present)
 Secretary General of ACECC TC-8 (2004-2010)
 Chair of ACECC Awarding Sub-Committee (2007-2010)
 Chair of ACECC Committee, JSCE (2007-2013)

Vice President of Japanese Geotechnical Society (2019-2021)
 General Manager, Technology Center, Taisei Corporation, Japan

First of all, as the secretary general of ACECC, it is my great pleasure to have an opportunity to create this message book to celebrate the ACECC 20th anniversary.

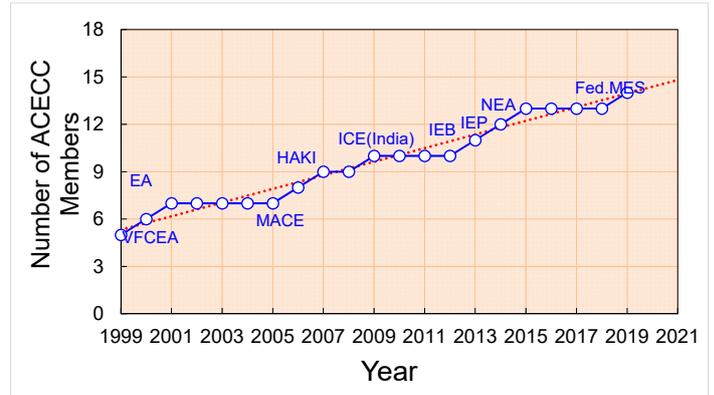
ACECC has been developing year by year. The number of ACECC members has increased up to 14 since the establishment. Our network has become much broader and further strengthened.

My involvement in ACECC started in 1998, before the establishment of ACECC, at the preparation stage toward the establishment.

After the establishment of ACECC, my first duty was the secretary of the programing committee for the 2nd CECAR (Civil Engineering conference in the Asian region) which was held on April 16-19, 2001 in Tokyo. The 2nd CECAR was one of the biggest international conferences in the history of JSCE. As a secretary of the committee, I made the detailed program of the 2nd CECAR by allocating all the distinguished speakers to all the session slots.

At the same time, I was asked to design the cover page of the proceedings. I then decided to use photographs of children as the symbol of our future world, with the beautiful flower of cherry blossoms in spring in Japan, as shown in the right-hand photo of the proceedings. I must confess that the children in the photograph were my daughter and her cousin in their younger days. She attended the Gala Dinner at the 2nd CECAR and appeared on the stage, which was a nice memory for her. At present, she graduated from a university, and is working internationally as a nurse. The 2nd CECAR was one of the excellent and fascinating experiences for me, which made me join ACECC activities further.

After the 2nd CECAR, I was a secretary for the Committee on ACECC, JSCE until 2007. Then, I became a chair of the same committee until 6th CECAR in 2013. During this period, the number of ACECC members had increased, and the development of ACECC had been significant. Besides



Number of ACECC members in the last 20 years



Cover of 2nd CECAR proceeding



Gala dinner, 2nd CECAR

the Executive Committee Meeting, two new meetings, i.e., the Planning Committee Meeting and the Technical Coordinating Committee Meeting were set up. After the set-up of the system for Technical Committees, the number of ACECC Technical Committees increased, and their activities have been very prominent. At present, ACECC has as many as 25 Technical Committees, while some of them have already been terminated. Since ACECC is the technology oriented multinational organization, the activities of the Technical Committees are the base to achieve the ACECC objectives.

During the period 2007-2013, I also served as the secretary of ACECC TC-8, “Harmonization of Design Codes in the Asian Region” under the chair, Prof. Yusuke Honjo. The TC-8 organized the following workshops and special forums during the activity term.

- 1st Workshop in Taipei (November 4, 2006)
- Special Forum for the 4th CECAR in Taipei (June 27, 2007)
- 2nd Workshop in Sendai (September 11, 2008)
- 3rd Workshop in Hanoi (April 18, 2009)
- Special Forum for 5th CECAR in Sydney (August 11, 2010)

This Technical Committee might be one of the most active ones in ACECC. A great number of engineers from the different civil engineering fields have got together to share the information and the methodology for the code developments in each country. Through a series of the activities, “Glossary of Key Terms for Structural Design Codes founded on Performance based Design Concept” was published. This might be the first challenge to harmonize the terminologies in the design codes among different fields and countries.

The activities of the TC-8 became the starting point for JSCE to assist the code development in Mongolia with MACE, i.e., Mongolian Association of Civil Engineers. JSCE was asked to support the code development in Mongolia. I visited Mongolia with Prof. Osamu Kusakabe three times to have seminars and to discuss the code development in Mongolia. This was one of the visible outcomes of the ACECC Technical Committees.

At the 23rd ECM which was held in September, 2012 in Manila, I was elected the secretary general of ACECC. The duty started from August 2013, after the 6th CECAR. At the same time, JSCE hosted the secretariat in the JSCE Head Office in Tokyo.

It should be noted that before JSCE hosted the ACECC secretariat, the secretariat office located in the ACECC member country where the next CECAR will be held. In this system, the location of the secretariat office needs to be changed every 3 years by transferring ACECC account and other necessary functions country to country. To avoid this inefficiency in the ACECC activities, the system for the ‘continuous secretariat’ office was discussed and decided in the ACECC Constitution and By-laws.



TC-18 The 2nd Workshop in Sendai



Code development in Mongolia

I am very lucky to have opportunities to attend all the CECARs except the 1st CECAR in Manila, 1998. I have also attended all the ECMs except the 1st, 2nd, 3rd, 6th, 13th, and 16th ECMs.

I am also quite lucky to be able to see the developing stage of ACECC and its member countries. No matter how the internet communication and the SNSs have become popular, visiting the member country and experiencing the culture and the history are very valuable for mutual understanding. Face to face communication has become more important in recent days. Therefore, no matter how hard the work for ACECC was, I always felt something happy, when I visited each member country to attend the ECM and the CECAR, when we discuss the future of the infrastructures in Asian Countries, and when I enjoy the dinner party together with some cultural shows after the ECM. This is what made me to work harder for ACECC.

The creation of the draft “ACECC Tokyo Declaration 2019” was another challenge for me. I believe this declaration is ‘*tour de force*’ in a sense. In the declaration, all aspects of ACECC activities were included. Therefore, this declaration will be the protocol of the future ACECC. I believe, so long as we follow this declaration, ACECC can walk on the right path towards the right direction.

In the last 20 years, the delegates from each ACECC member have changed to younger generation. There are few in the current ACECC delegates who witnessed the establishment of ACECC. It may be very difficult for new members to know the concepts and the principles of ACECC which were discussed at the time of the establishment.

Our memories and records have been lost as time goes by. Therefore, I decided to create this message book to transfer the concepts and the principles of ACECC to the next generation.

The 20 years is long enough for most Asian countries to develop drastically. The rate of development can be even faster in the near future in Asia. ACECC needs to support these developments collaboratively.

The work as the secretary general has not always been easy, as I also work for Taisei Corporation. My work as the secretary general has been assisted by office administrators, Ms. Emiko Serino (2013-2016), Ms. Yuko Tanaka (2016-2017), and Ms. Yuka Iimura (2017-present). Without their assistance, it was very difficult for me to complete the ACECC duties. I would like to express sincere appreciation to their assistance to my work.

Finally, I would like to thank all for giving me such a great experience in ACECC. I hope further prosperity of Asian countries and ACECC by having more members from all over the world. I also hope more and more young generation will join the ACECC activities and strengthen their powerful network for a better quality of life in the world.

Kenichi Horikoshi



Presidential meeting at 8th CECAR



ACECC Tokyo Declaration 2019

ACECC Activities Records

1. ACECC members

	Name of Society/Institution	Country	ECM when approved to join to ACCC	Established year
1	ASCE	USA	1ECM (1999)	1852
2	PICE	Philippines	1ECM (1999)	1973
3	JSCE	Japan	1ECM (1999)	1914
4	CICHE	Taiwan	1ECM (1999)	1936
5	KSCE	Korea	1ECM (1999)	1951
6	VFCEA	Vietnam	2ECM (2000)	1982
7	EA	Australia	5ECM (2001)	1919
8	MACE	Mongolia	13ECM (2006)	1996
9	HAKI	Indonesia	15ECM (2007)	1971
10	ICE(I)	India	17ECM (2009)	2005
11	IEB	Bangladesh	25ECM (2013)	1948
12	IEP	Pakistan	26ECM (2014)	1948
13	NEA	Nepal	29ECM (2015)	1962
14	Fed. MES	Myanmar	36ECM (2019)	1995

2. ACECC Chairs

	Executive Committee	Secretary General	Planning Committee	Technical Coordinating Committee	LOC	Finance Committee	Subcommittee on ACECC Awards
1999-2001	Dr. Hiroshi Okada	Prof. Osamu Kusakabe			Dr. Yukihiko Sumiyoshi		
2001-2004	Dr. Kwang-II Kim	Dr. Chun-Su Chon	Dr. Young-Nam Lee		Dr. Sung-Wan Hong		
2004-2007	Dr. Jenn-Chuan Chern	Dr. Ming-Teh Wang (Deputy SG) Dr. Yin-Wen Chan Mr. Chia-Yih Chu	Dr. Yen Liang Yin	Prof. Alfred H. S. Ang	Dr. Kuo-Chun Chang		Dr. Fuminao Okumura (JSCE)
2007-2010	Mr. Paul Mitchell	Mr. Steve Finlay	Mr. Brian O'Donnell	Prof. Alfred H. S. Ang	Mr. Brian O'Donnell		Dr. Kenichi Horikoshi (JSCE)
2010-2013	Prof. Dradjat Hoedajanto	Prof. Iswandi Imran	Dr. Muslinang Moestopo	Prof. Benyamin Lumantarna	Prof. Iswandi Imran		Dr. Za-Chieh Moh (CICHE)
2013-2016	Prof. Albert T. Yeung	Dr. Kenichi Horikoshi (Deputy SG) Dr. Edward H. Wang	Dr. Udai P. Singh	Mr. Potenciano A. Leoncio Jr.	Dr. Udai P. Singh	Prof. Jae-Woo Park (KSCE)	Prof. Moon Kyum Kim (KSCE)
2016-2019	Prof. Osamu Kusakabe	Dr. Kenichi Horikoshi (Deputy SG) Dr. Edward H. Wang	Prof. Mitsu Okamura	Mr. Masaaki Nakano	Mr. Masayasu Kayano	Mr. Jeff Howard (EA) Engr. Sohail Bashir (IEP)	Dr. Udai P. Singh (ASCE)
2019-2022	Dr. R. M. Vasani	(-2020) Dr. Kenichi Horikoshi	Prof. Rajinder Ghai	Dr. S D Sharma	Mr. Prithipal Singh		

3. Records of Past CECARs

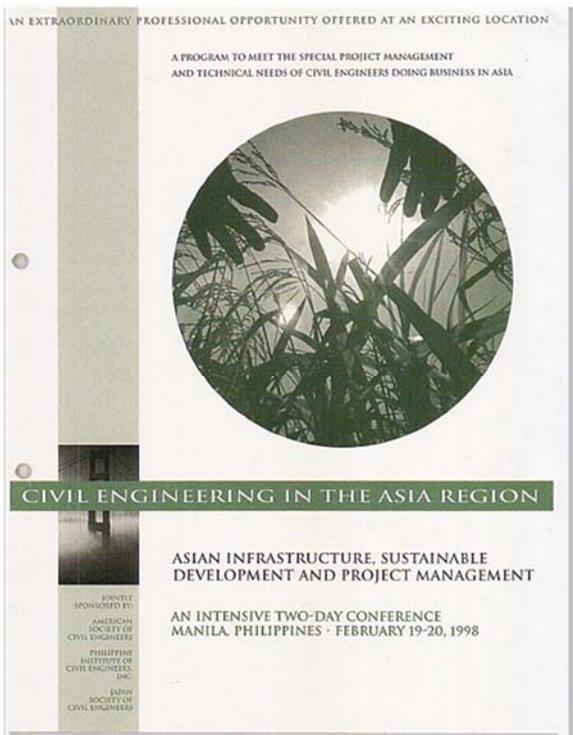
	CECAR1	CECAR2	CECAR3	CECAR4	CECAR5	CECAR6	CECAR7	CECAR8
City	Manila	Tokyo	Seoul	Taipei	Sydney	Jakarta	Honolulu	Tokyo
Host Society/Institution	PICE	JSCE	KSCE	CICHE	EA	HAKI	ASCE	JSCE
Date	Feb. 19-20, 1998	April 16-20, 2001	Aug. 16-19, 2004	June 25-28, 2007	Aug. 8-12, 2010	Aug. 20-22, 2013	Aug. 31- Sep. 2, 2016	April 16-19, 2019
Total Number of Registration (including complimentary registration)		730	992	1065	596	657	390	798
Complimentary Registration			135	382		125	12	39
Total Number of Papers	36	61	137	177	263	233	224	233
Corporate Contribution (USD)		111,505.00	120,857.00	219,429.00	124,957.34	139,813.00	152,500.00	131,500.00
Conference Surplus (USD)		21,292.44	78,198.66	67,043.00	106,621.49	90,238.00	25,583.00	64,999.00

4. History of ACECC meetings

CECAR	ECM	PCM	TCCM	Host	City	Venue				
1	Feb. 19-20, 1998	Civil Engineering in the Asia Region		PICE	Manila	Manila Hotel				
	Oct. 5, 1998	pre-meeting		JSCE	Kobe	Portpia Hotel				
	Oct. 19, 1998			ASCE	Boston	Sheraton Boston Hotel & Tower				
	Mar. 5-6, 1999	Taskforce Meeting		JSCE	Tokyo	JSCE Head Office				
	May 7, 1999	Steering Committee Meeting		PICE	Manila	PICE HQ				
	1	Sep. 27, 1999			JSCE	Tokyo	JSCE Head Office			
	2	May. 25, 2000			KSCE	Seoul	KSCE Headquarters			
	3	Oct. 16, 2000			ASCE	Seattle	Sheraton Seattle Hotel & Towers			
2	Apr. 16-20, 2001	4	Apr. 16, 2001	JSCE	Tokyo	Hotel Metropolitan, Tokyo Ikebukuro				
	5	Oct. 31, 2001			KSCE	Seoul	COEX-Intercontinental Hotel			
			0	Aug. 9, 2002	Working Group Meeting		CICHE	Taipei	Howard International House Taipei	
	6	Nov. 2, 2002			ASCE	Washington	Renaissance Washington DC Hotel			
	7	Jun. 23, 2003	1	Jun. 23, 2003	EA	Brisbane	Carlton Crest Hotel			
	8	Apr. 23, 2004	2	Apr. 23, 2004	VFCEA	Ho Chi Minh City	Majestic Hotel			
3	Aug. 16-19, 2004	9	Aug. 16, 2004	3	Aug. 16, 2004	KSCE	Seoul	Sheraton Grande Walkerhill Hotel		
	10	Dec. 3, 2004	4	Dec. 2, 2004	CICHE	Kaohsiung	Ambassador Hotel			
	11	May. 26, 2005	5	May. 25, 2005	JSCE	Tokyo	JSCE Head Office			
	12	Oct. 23, 2005	6	Oct. 23, 2005	1	Oct. 22, 2005	ASCE	Los Angeles	Wilshire Grand Los Angeles Hotel	
	13	Jun. 17, 2006	7	Jun. 17, 2006	2	Jun. 17, 2006	MACE	Ulaanbaatar	Chinggis Khaan Hotel	
	14	Jan. 20, 2007	8	Jan. 19, 2007	3	Jan. 19, 2007	PICE	Cebu	Parklane Cebu Hotel	
4	Jun. 25-28, 2007	15	Jun. 25, 2007	9	Jun. 24, 2007	4	Jun. 24, 2007	CICHE	Taipei	Taipei International Convention Center
	16	Feb. 26, 2008	10	Feb. 25, 2008	5	Feb. 25, 2008	EA	Sydney	Saville Park Suites - Chatswood	
	17	Apr. 20, 2009	11	Apr. 20, 2009	6	Apr. 20, 2009	VFCEA	Hanoi	Horizon Hotel	
	18	Feb. 23, 2010	12	Feb. 22, 2010	7	Feb. 22, 2010	KSCE	Bussan	Paradise Hotel	
5	Aug. 8-12, 2010	19	Aug. 8, 2010	13	Aug. 7, 2010	8	Aug. 7, 2010	EA	Sydney	Sydney Convention Centre
	20	Feb. 11, 2011	14	Feb. 10, 2011	9	Feb. 10, 2011	HAKI	Jakarta	Borobudur Hotel	
	21	Sep. 17, 2011	15	Sep. 16, 2011	10	Sep. 16, 2011	ICE (India)	New Delhi	Kempinsky Hotel	
	22	Mar. 2, 2012	16	Mar. 1, 2012	11	Mar. 1, 2012	JSCE	Tokyo	JGS Office	
	23	Sep. 22, 2012	17	Sep. 21, 2012	12	Sep. 21, 2012	PICE	Manila	SMX Convention Center, Mall of Asia	
	24	Feb. 23, 2013	18	Feb. 22, 2013	13	Feb. 22, 2013	CICHE	Taipei	National Taiwan University of Science and Technology	
6	Aug. 20-22, 2013	25	Aug. 19, 2013	19	Aug. 18, 2013	14	Aug. 18, 2013	HAKI	Jakarta	Borobudur Hotel
	26	Mar. 8, 2014	20	Mar. 7, 2014	15	Mar. 7, 2014	ASCE	Honolulu	Hilton Hawaiian Village Waikiki	
	27	Nov. 19, 2014	21	Nov. 18, 2014	16	Nov. 18, 2014	JSCE	Tokyo	JSCE Head Office	
	28	Mar. 28, 2015	22	Mar. 27, 2015	17	Mar. 27, 2015	IEB	Dhaka	Hotel Purbani Internaional	
	29	Oct. 29, 2015	23	Oct. 28, 2015	18	Oct. 28, 2015	KSCE	Gursan	Best Western Gursan Hotel	
	30	Mar. 26, 2016	24	Mar. 25, 2016	19	Mar. 25, 2016	ICE (India)	New Delhi	Welcom Hotel Dwarka	
7	Aug. 31-Sep. 2, 2016	31	Aug. 30, 2016	25	Aug. 29, 2016	20	Aug. 29, 2016	ASCE	Honolulu	Hilton Hawaiian Village Waikiki
	32	Apr. 24, 2017	26	Apr. 23, 2017	21	Apr. 23, 2017	NEA	Kathmandu	Hotel Yak and Yeti	
	33	Sep. 22, 2017	27	Sep. 21, 2017	22	Sep. 21, 2017	MACE	Ulaanbaatar	Ramada Ulaanbaatar Hotel	
	34	Apr. 13, 2018	28	Apr. 12, 2018	23	Apr. 12, 2018	VFCEA	Hanoi	Hanoi Daewoo Hotel	
	35	Oct. 9, 2018	29	Oct. 8, 2018	24	Oct. 8, 2018	FA	Melbourne	Engineers Australia	
8	April 16-19, 2019	36	April 15, 2019	30	April 15, 2019	25	April 15, 2019	JSCE	Tokyo	JSCE Head Office and Hotel Metropolitan, Tokyo
	37	Sep. 26, 2019	31	Sep. 25, 2019	26	Sep. 25, 2019	ICE (India)	Goa	CIDADE DE GOA-IHCL SeleQtions	
	38	Mar. 13, 2020	32	Mar. 12, 2020	27	Mar. 12, 2020	IEP	Karachi	The Institution of Engineers Pakistan, Karachi Centre	
	39						PICE			
	40									
9	Sep. 21-23, 2022	41					ICE (India)	Goa		

3. CECAR Photos

1st CECAR: February 19-20, 1998, Manila, Philippines



Manila Hotel rites set

By CHITO CHAVEZ

President Ramos leads today officials of the Philippine Institute of Civil Engineers (PICE) in welcoming American and Japanese delegates to the first Civil Engineering International Conference at the Manila Hotel.

The President, who is also a civil engineer, will deliver the keynote address at the opening session of the two-day meet.

The first Civil Engineering International Conference in Asian Infrastructure, sustainable development, and project management is co-sponsored by the American Society of Civil Engineers and the Japanese Society of Civil Engineers.

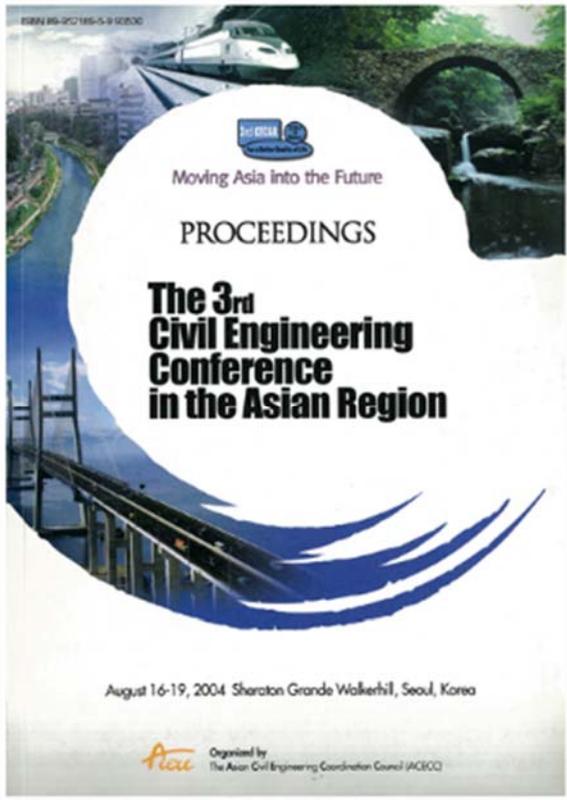
Delegates to the conference will hear lectures on sustainable development and other modern engineering methods.

The delegates will (Turn to page 10, col. 6.)

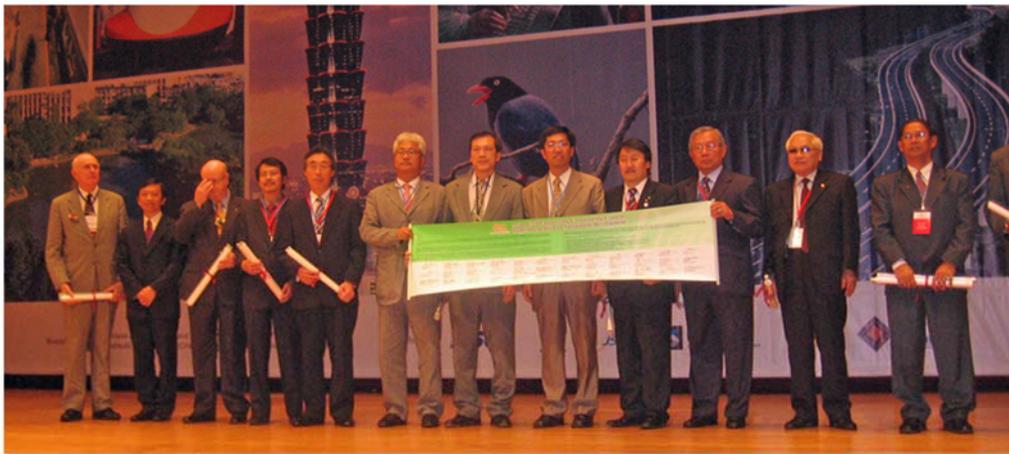
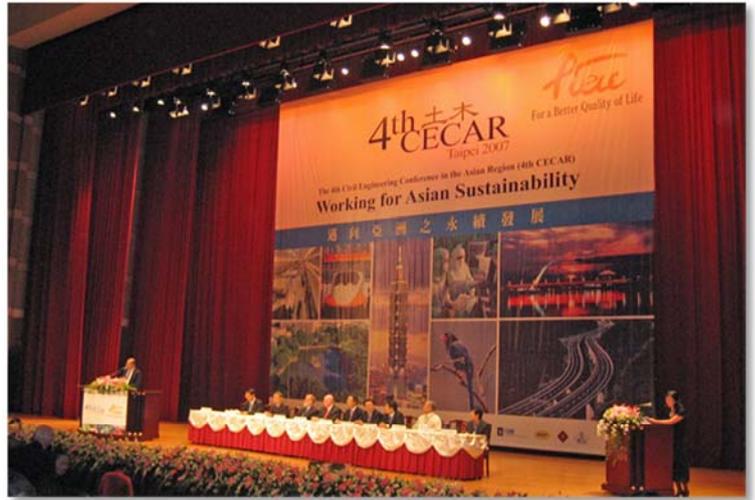
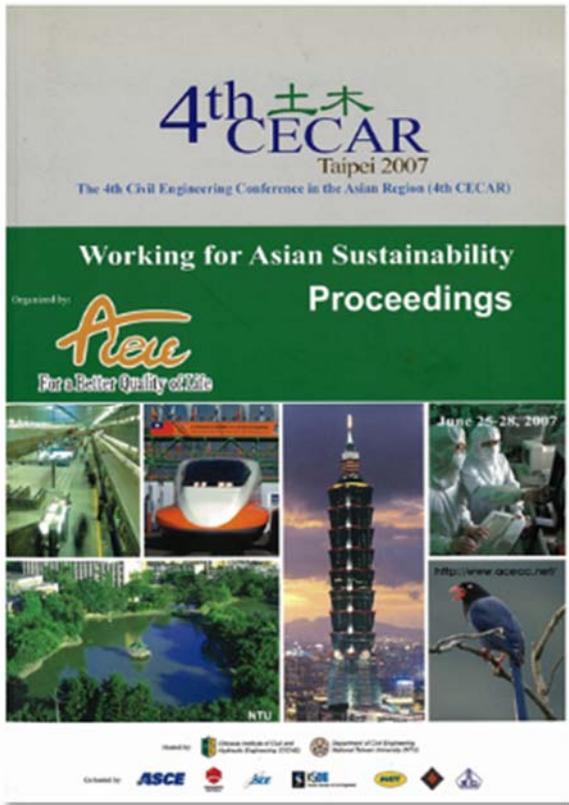




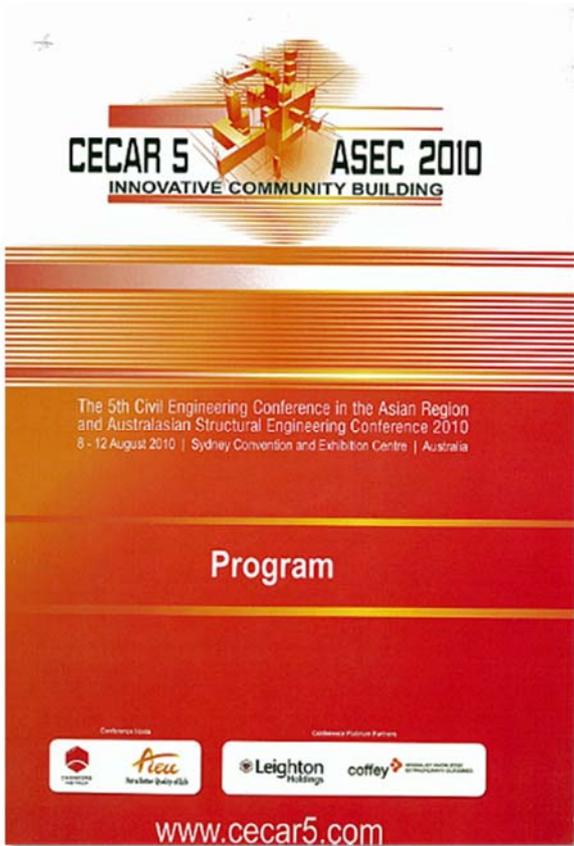
3rd CECAR: August 16-19, 2004, Seoul, Korea

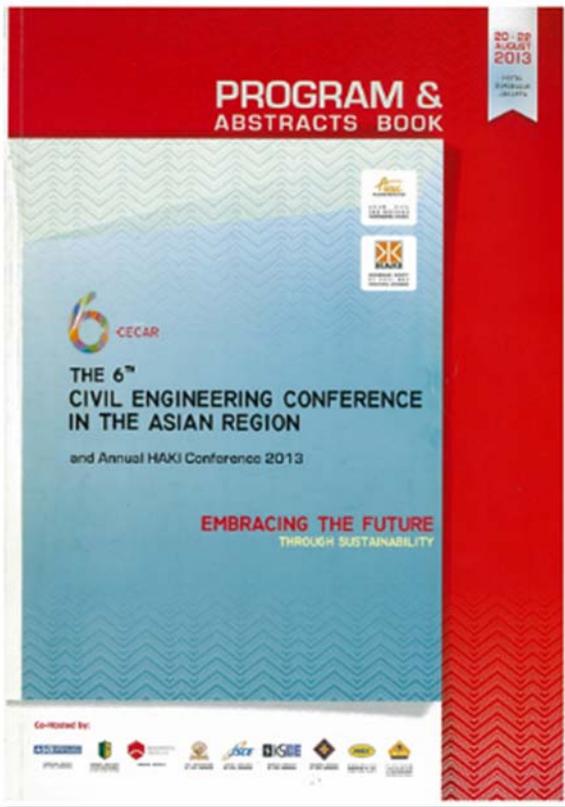


4th CECAR: June 25-28, 2007, Taipei, Taiwan

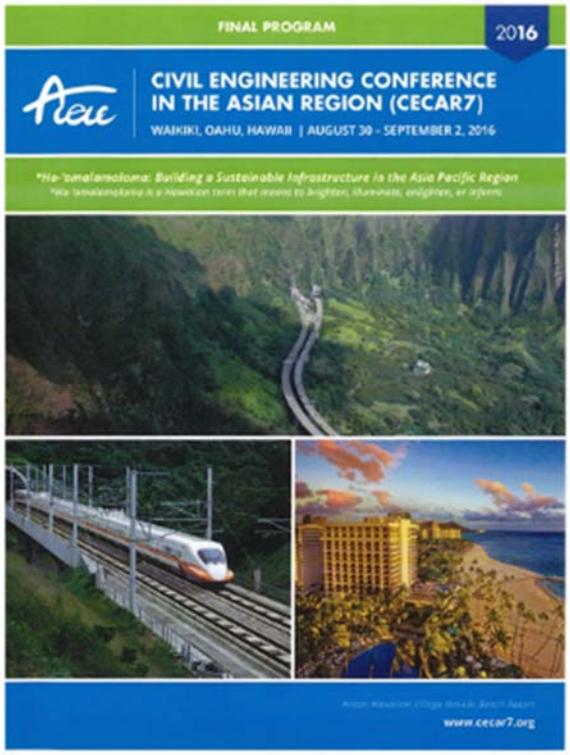


5th CECAR: August 8-12, 2012, Sydney, Australia





7th CECAR: August 30-September 2, 2016, Honolulu, USA



8th CECAR: April 16-19, 2019, Tokyo, Japan



4. Group Photos of the Past Executive Committee Meetings



1st ECM, Tokyo, Sep. 27, 1999



2nd ECM, Seoul, May 25, 2000



3rd ECM, Seattle, Oct. 16, 2000



4th ECM, Tokyo, April 16, 2001 (Before 2nd CECAR)



5th ECM, Seoul, October 31, 2001



6th ECM, Washington, November 2, 2002



7th ECM, Brisbane, June 23, 2003



8th ECM, Ho Chi Minh City, April 23, 2004



9th ECM, Seoul, August 16, 2004 (Before 3rd CECAR)



10th ECM, Kaohsiung, December 3, 2004



11th ECM, Tokyo, May 26, 2005



12th ECM, Los Angeles, October 23, 2005



13th ECM, Ulaanbaatar, June 17, 2006



14th ECM, Cebu City, January 20, 2007



15th ECM, Taipei, June 25, 2007 (Before 4th CECAR)



16th ECM, Sydney, February 26, 2008



17th ECM, Hanoi, April 20, 2009



18th ECM, Busan, February 23, 2010



19th ECM, Sydney, August 8, 2010 (Before 5th CECAR)



20th ECM, Jakarta, February 11, 2011



21st ECM, Delhi, September 17, 2011



22nd ECM, Tokyo, March 2, 2012



23rd ECM, Manila, September 22, 2012



24th ECM, Taipei, February 23, 2013



25th ECM, Jakarta, August 19, 2013 (Before 6th CECAR)



26th ECM, Honolulu, March 8, 2014



27th ECM, Tokyo, November 19, 2014



28th ECM, Dhaka, March 28, 2015



29th ECM, Gunsan, October 29, 2015



30th ECM, New Delhi, March 26, 2016



31st ECM, Honolulu, August 30, 2016 (Before 7th CECAR)



32nd ECM, Kathmandu, April 24, 2017



33rd ECM, Ulaanbaatar, September 22, 2017



34th ECM, Hanoi, April 13, 2018



34th ECM, Hanoi, April 13, 2018 (at outside of the venue)



35th ECM, Melbourne, October 9, 2018



36th ECM, Tokyo, April 15, 2019 (Before 8th CECAR)





37th ECM, Goa, September 26, 2019

CELEBRATION OF 20th ANNIVERSARY OF ACECC on September 27, 2019

Hosted by Institution of Civil Engineers, India

Venue: CIDADE DE GOA-IHCL SeleQtions Vainguinim Beach, Goa-India

10.05 -10.10	Saraswati Vandana	
10.05 -10.10	Welcome (Presentation of Bouquets)	
10.10 -10.15	Lighting of Ceremonial Lamp	
10.15 -10.20	Welcome Address	Dr. S.L. Swamy, Chairman, ICE(I)
10.20 -10.30	Introduction of the ACECC 20 years history & introduction of the "Message Book"	Dr. Kenichi Horikoshi Secretary General ACECC
10.30 -10.40	Message from the Past Chair ACECC	Prof. Osamu Kusakabe, Immediate Past Chair
10:40-10:45	Address by the Special Guest	Dr. M.P. Poonia, Vice Chairman, AICTE
10:45-10:55	Address by the Guest of Honour	Sh. Govind Gaude, Hon'ble Minister for Art and Culture, Govt. of Goa
10:55-11:10	Inaugural Address by the Chief Guest	Dr. Pramod Sawant, Hon'ble Chief Minister, Government of Goa
11:10-11:15	Presentation of Memento to the Chief Guest Guest of Honour and Special Guest	Dr. S.L. Swamy Chairman, ICE(I)
11:15-11:35	Introductory Remarks by each ACECC Member Society	ACECC Member Societies
11:35-11:45	ACECC 10 years ahead	Prof. R.M. Vasan, Chair ACECC
11:45-11:50	Vote of Thanks	Mr. Prithipal Singh, Chair LOC, CECAR9





