



IALCCE Executive Board Meeting

Sixth International Symposium on Life-Cycle Civil Engineering (IALCCE 2018)

Ghent, Belgium, October 28th, 2018

DATE: October 28th, 2018, Sunday

TIME: 9:30 AM

VENUE: Ghislain 1, 2nd floor, ICC International Convention Center, Ghent, Belgium

Members in attendance:

Dan Frangopol, Lehigh University, Bethlehem, PA, USA

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Fabio Biondini, Politecnico di Milano, Milan, Italy

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Mitsuyoshi Akiyama, Waseda University, Tokyo, Japan

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Leo Klatter, Ministry of Infrastructure and Environment, Utrecht, The Netherlands

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Mark P. Sarkisian, Skidmore, Owings & Merrill LLP, San Francisco, CA, USA

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Guests:

Robby Caspeele, Ghent University, Ghent, Belgium
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Airong Chen, Tongji University, Shanghai, China
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Luc Taerwe, Ghent University, Ghent, Belgium
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Xin Ruan, Tongji University, Shanghai, China
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Introduction and Status of IALCCE

The meeting was called to order at 9:30 am. All participants introduced themselves. A brief overview of the activities, mission and objective of IALCCE was given.

IALCCE was founded in October 2006 in Seoul, after a series of International Workshops on Life-Cycle Cost Analysis and Design of Civil Infrastructure Systems held in Honolulu, Hawaii, USA (LCC1, 2000), Ube, Yamaguchi, Japan (LCC2, 2001), Lausanne, Switzerland (LCC3, 2003), Cocoa Beach, Florida, USA (LCC4, 2005), and Seoul, Korea (LCC5, 2006).

The activities of the IALCCE cover all aspects of life-cycle assessment, design, maintenance, rehabilitation and monitoring of civil engineering systems. The mission of the Association is to become the premier international organization for the advancement of the state-of-the-art in the field of life-cycle civil engineering. The objective of the Association is to promote international cooperation in this field for the purpose of enhancing the welfare of society. Since its foundation, IALCCE has created fertile ground for the stimulation and promotion of research in the field of life-cycle civil engineering.

As of October 1st, 2018, IALCCE has 635 individual members from 60 countries, and 26 collective members. A brochure with full information about the activities and current status of IALCCE is available on the official website at: http://www.ialcce.org/IALCCE_Brochure.pdf

As already pointed out at past Executive Board meetings, it was stated that the original mission of the Association – to become the premier international organization for the advancement of the state-of-the-art in the field of life-cycle civil engineering – is accomplished.

To enhance the mission and objectives of the Association is necessary to cover new emerging topics in the field of life-cycle civil engineering, such as adaptation to climate change, resilience of communities, and building information modeling, among others. It is also important to create and strengthen connections with other disciplines and linking theory and practice by involving more professionals, private companies, and public authorities.

Review of the Executive Board

The current members of the IALCCE Executive Board are Dan Frangopol (President), Alfredo Ang (Honorary President), Harald Budelmann (Vice-President), Hitoshi Furuta (Vice-President), Fabio Biondini (Secretary General), Mitsuyoshi Akiyama, Jaap Bakker, Shi-Shuenn Chen, Luis Esteva, Leo Klatter, and Mark Sarkisian. Don Davis, Airong Chen, and Sofia Diniz were proposed as new members of the Executive Board. The proposal was unanimously approved.

According to the rules of the Association, members that are not in attendance for two consecutive meetings should not continue their activity in the Executive Board.

SIE Special Issues dedicated to IALCCE Symposia

The extended version of selected papers included in the proceedings of IALCCE Symposia have been considered for publication in special issues of *Structure and Infrastructure Engineering*, an international peer-reviewed journal included in the ISI Science Citation Index and endorsed by IALCCE. Five special issues have been published, with 56 journal papers and about 800 pages. The list of the special issues is reported below.

IALCCE'08: *Life-Cycle of Civil Engineering Systems*, Fabio Biondini & Dan M. Frangopol (Guest Editors), Vol. 7, Nos. 1-2, 2011 (15 articles, 198 pages).

IALCCE 2010: *Advances in Life-Cycle Civil Engineering*, Fabio Biondini & Dan M. Frangopol (Guest Editors), Vol. 10, No. 7, 2014 (7 articles, 85 pages).

IALCCE 2012: *Life-Cycle Performance of Civil Infrastructure Systems*, Fabio Biondini & Alfred Strauss (Guest Editors), Vol. 12, No. 7, 2016 (4 articles, 60 pages).

IALCCE 2014: *Life-Cycle of Structural Systems: Design, Assessment, Maintenance & Management*, Hitoshi Furuta & Mitsuyoshi Akiyama (Guest Editors), Vol. 13, No. 1, 2017 (16 articles, 209 pages).

IALCCE 2016: *Life-Cycle of Engineering Systems: Emphasis on Sustainable Civil Infrastructure*, Jaap Bakker, Dan M. Frangopol & Yannis Tsompanakis (Guest Editors), Vol. 14, No. 7, 2018 (14 articles, 205 pages).

Report on IALCCE 2016

The 5th International Symposium on Life-Cycle Civil Engineering (IALCCE 2016), Delft, The Netherlands, 16-19 October, 2016 (<http://www.ialcce2016.org>), was organized under the auspices of InfraQuest, a collaboration between TU Delft, TNO and Rijkswaterstaat. The interest of the international civil engineering community in this event has been confirmed by the significant response to the IALCCE 2016 call for papers. A total of 475 abstracts were received by the Symposium Secretariat, and about 70% of them were selected for final publication as full papers and presentation at the Symposium. The number of participants was 434, including 411 delegates and 23 accompanying persons. The proceedings of IALCCE 2016 have been collected in the volume *Life-Cycle of Engineering Systems: Emphasis on Sustainable Civil Infrastructure*, edited by J. Bakker, D.M. Frangopol and K. van Breugel, and published by CRC Press, Taylor & Francis Group, as a set comprising a hardbound book and a USB card containing 333 papers, including the Fazlur Khan lecture, nine keynote papers, and 323 technical contributions from 44 countries. The extended version of 14 selected papers included in the proceedings have been published in a special issue of *Structure and Infrastructure Engineering*.

Report on IALCCE 2018

The 6th International Symposium on Life-Cycle Civil Engineering (IALCCE 2018), Ghent, Belgium, 28-31 October, 2018 (<http://www.ialcce2018.org>), was organized under the auspices of Ghent University. The interest of the international civil engineering community in this event has been confirmed by the significant response to the IALCCE 2018 call for papers. A total of 675 abstracts were received by the Symposium Secretariat, and about 60% of them were selected for final publication as full papers and presentation at the Symposium. The number of participants was 560, including 481 delegates and 19 accompanying persons. The proceedings of IALCCE 2018 have been collected in the volume *Life Cycle Analysis and Assessment in Civil Engineering: Towards an Integrated Vision*, edited by R. Caspeele, L. Taerwe and D.M. Frangopol, and published by CRC Press, Taylor & Francis Group, as a set comprising a hardbound book and a USB card containing 399 papers, including the Fazlur Khan lecture, eight keynote papers, and 390 technical contributions from all over the world. The extended version of selected papers included in the proceedings will be considered for possible publication in a special issue of *Structure and Infrastructure Engineering*.

Report on IALCCE 2020

The 7th International Symposium on Life-Cycle Civil Engineering (IALCCE 2020) is organized under the auspices of Tongji University and will be held in Shanghai, China, 27-30 October, 2018 (<http://www.ialcce2020.org>). Xin Ruan, who is organizing and co-chairing IALCCE 2020 with Dan Frangopol and Airon Chen, was invited to join the meeting to deliver a presentation on

the status of the organization of the Symposium and respond to the inquiries of the Executive Board. A discussion was held after the presentation. The status of IALCCE 2020 was evaluated as excellent and Xin Ruan was invited to continue to closely coordinate with the Executive Board on all future steps of the organization.

Proposals for IALCCE 2022

A call for proposals was issued for the organization of the 8th International Symposium on Life-Cycle Civil Engineering (IALCCE 2022). Two symposium proposals were received. The proposal submitted by Politecnico di Milano, Italy, was selected for presentation at the meeting. Fabio Biondini was invited to deliver a presentation on this proposal and respond to the inquiries of the Executive Board. A discussion was held after the presentation. The proposal was evaluated as excellent and worthy to be considered for the organization of IALCCE 2022 and was unanimously approved. It was therefore decided to host IALCCE 2022 in Cernobbio, Lake Como, Italy, in October 2022.

Current and future IALCCE activities

In order to fulfill its mission and objective, the Association will organize congresses, conferences, symposia, workshops, seminars, and short courses on the related topics. The Association intends to cooperate with other organizations, including AASHTO, ACI, AISC, ASCE, CERRA, ESRA, fib, IABMAS, IABSE, IASSAR, ICE, IFIP, JCSS, PIARC, and RILEM, having interest in the field of activity of IALCCE. Strong interactions are expected with the SEI-ASCE Technical Council on Life-Cycle Performance, Safety, Reliability and Risk of Structural Systems.

Over the last decade IALCCE sponsored 40 events, including congresses, conferences, symposia, and workshops. Events recently sponsored by IALCCE include:

- JCSS Advanced Course on Structural Reliability and Probabilistic Model Code, Stellenbosch, South Africa, 2018
- Sixth International Symposium on Reliability Engineering and Risk Management (ISRERM2018), Singapore, 2018
- Ninth International Conference on Bridge Maintenance, Safety and Management (IABMAS2018), Melbourne, Australia, 2018
- Annual Symposium of the International Association of Shell and Spatial Structures (IASS 2018, Creativity in Structural Design), Boston, USA, 2018
- Ninth International Conference on Structural Health Monitoring of Intelligent Infrastructure (SHMII-9), St. Louis, Missouri, USA, 2018
- International Symposium on Reliability of Multi-disciplinary Engineering Systems under Uncertainty (ISRMES 2019), Taipei, Taiwan, 2019

IALCCE website

The official website of the Association can be reached at <http://www.ialcce.org>. This website is regularly maintained and updated with all information related to the Association including the membership status, activities, publications and events promoted and sponsored by IALCCE.

Next Meeting

The next meeting of the IALCCE Executive Board will be held in Shanghai, China, during the 7th International Symposium on Life-Cycle Civil Engineering (IALCCE 2020). An email will be sent to Executive Board members for the selection of the most appropriate date and time for the next meeting at the IALCCE 2020 Symposium.

Adjourn

The meeting was adjourned at 11:45 am.

Meeting minutes prepared by Fabio Biondini.