



The Canadian Society for Civil Engineering
La Société canadienne de génie civil

Construction Division

Information 2012-2013

Organizational Chart

Chair: Mohamed Attalla
Vice Chair: Fernaz Sadeqhpour
Secretary Kasun Hewage

Mandate Statement

The mandate of the Construction Division is to represent those CSCE members interested in Construction activities in Canada and to support CSCE by conducting activities that are related to the fields of Construction.

The responsibilities of the division members include:

- Assemble and disseminate information for those interested in construction.
- Provide networking opportunities for all CSCE members (e.g., academic, private and public industry) interested in construction.
- Promote construction engineering and management research and education.
- Support delivery activities of CSCE by providing domain expertise in the form of: technical projects, national lecture tours, publications, conferences, workshops, interdivisional activities, etc.
- Develop relationships between academic and industry members
- Increase communication within the Division
- Progressively support CSCE delivery activities at a high level of quality
- Develop an “efficient” mechanism for information dissemination

AWARDS

There are two awards affiliated with the Construction Division of the CSCE.

The awards are:

The Shanly award

The Walter Shanly Award shall be a pre-eminent award of the Construction Division of the CSCE.

The winner of the award shall receive a framed certificate and a purposely designed medal, if one has been approved by the Board of Directors. The certificate shall be signed by the President of the Society and the Chair of the Construction Division.

The design of the medal, if any, and the certificate shall be chosen by the Construction Division and approved by the Honours and Fellowship Committee of CSCE. The National Office of the Society shall be responsible for preparing the framed certificates and engraving the medals, if any.



The Revay award.

The Stephen G. Revay Award was established in 2005 in honour of the late Mr. Stephen G. Revay (1924-2004). President of the CSCE in 1989-1990, Mr. Revay made outstanding contributions to several heavy engineering projects in Canada before founding his firm, Revay and Associates, in 1970, in the area of project management and construction dispute resolution. The CSCE wishes to acknowledge the generosity of the City of Edmonton for funding this award. The Stephen G. Revay Award is presented for the best paper in the two-year period 2006-2007 in the areas of construction engineering, construction management or project management.

Major accomplishments and/or activities underway

- 1- The fourth International Construction Specialty Conference is being organized in 2013 in Montreal. As in 2011, the conference is being developed in collaboration with the American Society for Civil Engineering (ASCE) and the Construction Industry Institute (CII).
- 2- A road map for the division research activities was established and all members participated in supporting the initiative of Dr. Thomas Froese in preparing a national document that outlines the division's members research activities.
- 3- An initiative for collaboration with Institute of Research in Construction (IRC). As a result the first Canadian Students colloquium was organized for June 18-19, 2009 in IRC building London Ontario.
- 4- The Third Students colloquium is organized for Montreal during the annual conference 2013.
- 5- The Canadian Journal of Civil Engineering published a Special Issue on Construction Engineering and Management (CJCE Volume 39, Number 9, September 2012). This was co-edited by Construction Division members Aminah Robinson Fayek and Jeff Rankin, with paper contributions from many of the Construction Division members, and drew from topics presented at the CSCE 3rd International Construction Specialty Conference held in Ottawa, June 2011.
- 6- A special issue on Construction productivity for CCE is being planned for the summer 2013.



- 7- Division members participates in the Canadian Construction Association annual conference.
- 8- Participate in Construction Sector Council initiatives
- 9- Participate in Canadian Council for Innovation in Construction

Members Research activities with their resposctive institutions

U of Calgary

- Reducing construction project transaction costs (which average about 27% of the total installed cost in Canada)
- Developing high performance teams through more effective communication
- Application of SMART Project Management(TM)
- Higher performance through applied neuroscience.
- While I continue work through the U of Calgary as an emeritus professor, I work with a boutique consulting firm - Quality Enhanced Decisions Inc.
- Developed a model for partnering on construction projects. So far this model has been implemented on 80 projects in Alberta.
- Studied cost overruns on major capital projects in the oil and gas industry
- Studies construction productivity in the oil and gas industry
- Stuydyng Benchmarking in the Oil and gas industry

U of Alberta

- In the last year, the Hole School of Construction Engineering (HSCE) was proud to receive continued renewal of the NSERC Industrial Research Chair (IRC) in Construction Engineering and Management, and to celebrate the creation of two additional IRCs: Dr. Aminah Robinson Fayek was awarded an IRC in Strategic Construction Modeling and Delivery, and Dr. Mohamed Al-Hussein was awarded an IRC in Industrialization of Building Construction.
- The HSCE group, headed by Dr. Al-Hussein, hosted the inaugural Modular & Offsite Construction (MOC) Summit, which brought together international experts from industry and academia in the emerging field of industrialized construction.
- Currently, the HSCE is partnering with an industry steering committee to plan Innovation in Construction: Forum 2013. This event will connect industry members with a broad range of business and technological innovations that can enhance competitiveness.



Construction Division Website information

- Dr. AbouRizk's current research focuses on the overall objective of enhancing competitiveness of construction companies through simulation.
- Dr. Robinson Fayek's current research focusses on the application of fuzzy logic to construction decision-making processes.
- Dr. Al-Hussein's current research focuses on industrialization of the construction process, especially in the housing sector.
- Dr. Mohamed's current research aims at developing a model-based decision support framework for use in construction projects.