



Hydrotechnical Division Update – September 2017

Hydrotechnical Division Members:

For this update to the Hydrotechnical Division Members of the CSCE, first there are a few upcoming local events with a Hydrotechnical focus in which you might be interested. I also wanted to report on the success of our recent 23rd Canadian Hydrotechnical Conference, held in Vancouver at the end of May 2017, and the Camille Dagenais Award Winner for 2017.

UPCOMING LOCAL HYDROTECHNICAL EVENTS:

Some local events that may be of interest to Hydrotechnical Members:

(1) CALGARY Section - Lunch Meeting (11:45 AM to 1:15 PM MDT) – Thursday, September 14, 2017 – Topic: Bridges to Prosperity, Speakers: Andrew Boucher, Stantec; Nathan Murdoch and Reece Bishop, CH2M Hill

Location: Danish Canadian Club, 727 11 Avenue SW, Calgary, Alberta T2R 0E3

For registration go to: <https://www.eventbrite.ca/e/bridges-to-prosperity-registration-37386146972>

Summary

It's estimated that almost a third of the world's rural population lacks adequate access to safe river crossings. This contributes to the isolation that helps fuel the cycle of poverty. Bridges to Prosperity (B2P), in partnership with Industry Partners like CH2M, works directly with isolated communities to create access to essential healthcare, education, and economic opportunities by building footbridges over impassable rivers. Through CH2M's partnership with B2P, Reece Bishop, Nathan Murdoch and Andrew Boucher had the opportunity to participate first-hand in bridge projects in Panama, Nicaragua and Rwanda. Based on their experiences, their presentation will touch on how B2P operates, how you go about building a bridge in a rural community and what it means to actually see the value your work adds to a community.

(2) SASKATOON Section – Nooner (noon-1:15 p.m.) – Tuesday, September 19, 2017 – Topic: Osler Storm System – Wet/Dry Pond, Speaker: Ehren Gadzella, Catterall & Wright

Location: Park Town Hotel (924 Spadina Crescent East), Saskatoon

For registration go to: <https://www.eventbrite.ca/e/osler-storm-system-wetdry-pond-tickets-37807008781?aff=mcivte>

Summary

The Town of Osler has historically faced challenges with regards to storm water management, as storm water drains primarily via overland drainage and the Town has very little elevation change to facilitate efficient drainage. In 2016, a wet/dry pond, storm water pumping station, and storm sewer system were installed to provide better storm water management opportunities. This presentation will review the system installed in 2016, as well as the system extensions currently under construction.

(3) EDMONTON Section: Dinner (5:30 pm - 8:30 pm)– Thursday, February 15, 2018 – Topic: Implementation of the Combined Sewer Overflow Control Program (City of Edmonton), Speakers: Sid Lodewyk and Ross Bulat P.Eng., EPCOR Utilities Inc.

Location: University of Alberta Faculty Club (11435 Saskatchewan Drive), Edmonton

For information see: <http://csceedmonton.ca/events/upcoming-events>

(4) CSCE National Lecture Tour - Topic: Lac-Mégantic's Human and Environmental Disaster: The event, the impacts and the lessons to be learned, Various Locations (see below)

Speaker: Senator Professor Rosa Galvez is an expert in environmental impact and risk evaluation, contaminated site restoration and groundwater contaminant transport. She was appointed to the Canadian Senate in December 2016. She is a Professor in the Department of Civil and Water Engineering at Laval University, Quebec.

See for more information: <https://csce.ca/wp-content/uploads/2017/09/CSCE-2017-NLT-Lac-Megantic.pdf>

Locations:

Halifax – Sept. 11th

Moncton – Sept. 12th

Fredericton – Sept. 13th

St. John's – Sept. 14th

Victoria – Oct. 10th

Calgary – Oct. 11th

Edmonton – Oct. 11th

Hamilton – Nov. 15th

London – Nov. 15th

Whitby – Nov. 16th

Toronto – Nov. 16th

Ottawa – Nov. 17th

Regina – Jan. 17th

Saskatoon – Jan. 17th

Montreal – February 26th

Sherbrooke – February 27th

Quebec City – February 28th

Summary

The Lac-Mégantic train derailment and fire on July 6, 2013 was a human catastrophe and an environmental disaster. A runaway train containing 74 rail cars of light crude oil derailed and caught fire. The explosions and fire killed 47 residents and destroyed over 30 buildings. This was the deadliest rail accident in Canada since 1864. Approximately 6.3 million litres of oil was released into the environment, creating air, water and soil contamination. This presentation will describe what happened and outline the efforts made to remediate the impacts to this community and the environment.

2.

REPORT ON THE 23RD CANADIAN HYDROTECHNICAL CONFERENCE in Vancouver (May 30th-June 5, 2017)

The CSCE Hydrotechnical Division would like to congratulate and thank Brian Hughes of Northwest Hydraulic Consultants Ltd., who served as Chair of the successful 23rd Canadian Hydrotechnical Conference that was recently held in Vancouver, British Columbia from May 31th to June 3, 2017 alongside the 2017 CSCE Annual Conference. The Hydrotechnical Conference featured 14 regular sessions with about 60 papers on a broad range of topics as well as a workshop “Stormwater Management and Design Practices in the Context of Environmental and Climate Changes : New Developments and Trends” lead by Van-Thanh-Van Nguyen and Gilles Rivard of McGill University. There was a tour of Northwest Hydraulic Consultants Vancouver lab (thank you Ken Christison for the tour) and a dinner cruise of the bay, on top of the activities associated with the regular conference. Look for the next Hydrotechnical Conference in 2019.

2017 CAMILLE DAGENAIS AWARD WINNER – Dr. David Zhu, University of Alberta

The CSCE Hydrotechnical Division would like to congratulate Dr. David Zhu on his receipt of the 2017 Camille Dagenais Award. This award was established in 1981 in honour of Mr. Camille A. Dagenais, Past Chairman of the Board of SNC Group Inc., President of the Canadian Society for Civil Engineering in 1972-1973 and one of the most renowned hydrotechnical engineers in the country. The objective of the award is to give recognition to those civil engineers who have made outstanding contributions to the development and practice of hydrotechnical engineering in Canada.

Dr. Zhu is a professor in Water Resources Engineering at the University of Alberta. He received his BSc degree from Shanghai Jiaotong University in China, his MEng and PhD degrees from the University of British Columbia. He joined the University of Alberta in 1997. He has supervised over 70 graduate students and published over 140 papers in leading journals. His contributions have been recognized by a number of ASCE and CSCE awards, including the Thomas Keefer Medal (2010), Donald Stanley Award (2015), and Samuel Greeley Award (2017).

Best Regards,

Kerry Mazurek, Ph.D., P.Eng.

Chair, Hydrotechnical Division, CSCE

Associate Professor (Water Resources Engineering)

University of Saskatchewan