Alberta Chapter
American Concrete Institute
Always advancing

2017 Spring Seminar

High Performance Concrete - Testing, Specifications and Expectations (draft and subject to change)

Edmonton: Wednesday, April 26, 2017 -

Derrick Club (Jasper Room), 3500 119 Street, Edmonton

Calgary: Thursday, April 27, 2017 -

Hotel Blackfoot (Heritage Room), 5940 Blackfoot Trail SE, Calgary

Time	Seminar Topic	Speaker
7:30 - 8:15	Registration & Continental Breakfast	
8:15 - 8:30	Welcome & Housekeeping	ACI host
8:30 - 9:15	High Performance Concrete Basics	Matt Kerley

9:15 – 10:00	Port Mann Hwy1 On-Shore Structures Upgrades and Service Life Extension	Oliver Gepraegs
10:00 - 10:15	Break	
10:15 – 11:00	Chlorides – Testing and Considerations	Bozena Czarnecki
11:00- 12:00	Corrosion Resistant Rebar Overview	Rick Huza
12:00- 1:00 12:30 – 1:00	Lunch GNCTR Presentations During Lunch	
1:00 – 1:45	Alberta Transportation HPC	Dave Robson
2:00 – 2:15	Break	
1:45 – 2:30	Calgary - New Generation of HPC's and service life design: What are the challenges and opportunities Edmonton - Stantec Tower Foundations Project Review	Jadwiga Kroman Steven Weinbeer and Andrew Lischuk
2:45 – 3:00	Summer Site Tour ACI Awards of Excellence Wrap-Up Announcements	ACI Host

Session Abstracts and Presenter Bios

Thank you for attending our annual spring seminar

Matt Kerley –

Matthew Kerley was educated in Australia and holds a degree in Materials Engineering. Matt began his career in the concrete supply industry with Lehigh Hanson in Brisbane in 2005, holding various technical and operational roles including project manager for a joint venture precast facility to service the construction of Brisbane's inner city bypass tunnels. After moving to Canada in 2010 Matt joined Inland Concrete in Calgary as the Quality Control Manager and more recently moved into the Sales and Marketing Manager role in 2015.

Topic: High Performance Concrete (HPC) Basics will provide attendees with a general overview of HPC; what it is, where it is used, specifications and mix design requirements. This presentation will also discuss some of the challenges associated with HPC supply and site factors to be considered.

Oliver Gepraegs - M.A.Sc., P.Eng. - Senior Director, Materials - Western Canada

Oliver is the Director for Materials Engineering for WSP in Western Canada. He is an expert in the assessment and rehabilitation of structures and in concrete materials engineering, including quality management, durability design and thermal mitigation. He also has extensive experience in service life assessment and life cycle cost analysis. He has been involved with transportation and infrastructure projects across Canada, including the Sea-to-Sky Highway, Port Mann Highway 1 Project and the Saint John Harbour Bridge rehabilitation.
He is a Professional Engineer registered in the Provinces of Alberta, British Columbia and Saskatchewan. He is a member of the American Concrete Institute (ACI), serving actively on several technical committees. He has given presentations and taught courses on bridge condition assessment, service life and reinforcing steel corrosion.

Dr. Bozena Czarnecki

Dr. Czarnecki holds a Ph.D degree in Civil Engineering from The University of Calgary. Her research interests include Portland cement concrete durability, development of high performance concrete mixes, mass transport of chloride ions in concrete and its effect on concrete durability, and service life predictions of reinforced concrete structures.

Rick Huza, B. Eng., MBA

Richard Huza received a Bachelor in Engineering from Concordia University in Montreal in structures and obtained an MBA from McGill University.

Richard started his career with Dominion Bridge in Montreal. His functions included the design, manufacturing, erection, construction services and project engineering of bridges and buildings in Eastern Canada and the US Northeast.

He has a broad business experience base in senior management roles within the manufacturing sector in operations, sales, business development and strategic planning with both small and large sized companies.

He joined Salit Steel in 2009 in Niagara Falls as the Director, Business Development with cross divisional business development responsibilities. He then joined Salit's stainless steel rebar division – Salit Specialty Rebar.

He is responsible for technical development across North America targeting public and private infrastructure specifiers such as DOT's, Port authorities and military departments as well as major structural engineering firms. He also has sales responsibilities within Canada.

Richard currently resides in Montreal.

GNCTR 2017: Alberta Teams from Edmonton and Calgary compete in Winnipeg for the 2017 competition

The Great Northern Concrete Toboggan Race is a national engineering competition. This presentation will outline the teams' activities throughout the year and some of the successes and challenges experienced at competition as presented by Alberta's teams. Their toboggans will be on display during their presentations.

Dave Robson

Jadwiga Kroman M Sc., P. Eng., FCSCE

Jadwiga Kroman, is a Manager of Bridges and Structures at The City of Calgary.Prior to joining The City of Calgary, Jadwiga had practiced bridge and structural engineering with engineering firms in Edmonton. During her carrier as a bridge engineering consultant, Jadwiga has designed and managed construction of numerous infrastructure projects, such as highway and railway and pedestrian bridges and other civil engineering projects.

Her research and successful engineering projects have been published in over 20 publications. The most recent (co-authored) publication on "Sustainability of Transportation Infrastructure" has been accepted by ASCE's Journal of Bridge Engineering for publication in 2016.

Jadwiga's particular interests include advancement of innovative methods and materials for extending of bridge structures' life cycle and durability, bridge aesthetics and sustainability. She is a member of the Transportation Agency of Canada (TAC), Structures Standing Committee. Through her participation in TAC, Jadwiga has lead development of TAC guides such as "Guide to Bridge and Combination Barriers" and "Guide to Sustainability Considerations for Bridges" and the "Guide to MSE Walls". Jadwiga is a chair of Section 2 "Durability and Sustainability" of the Canadian Highway Bridge Design Code. She is also a Past President of ACI and CSCE, Alberta Chapters.

Andrew Lischuk, M.Eng., P.Eng., LEED® AP, Associate, Structural Engineer

Andrew is an Associate with Stantec Consulting, one of the largest design firms in Canada. He has earned his undergraduate and graduate degrees at the University of Alberta. Over the past 8 years, Andrew has worked on projects at his alma mater including the Paw Centre and St. Joseph's College Women's Residence, as well as projects in the ICE District including the Edmonton Tower and the Stantec Tower. Andrew has experience in all materials including Steel, Concrete, Wood and Masonry. He also has experience in geotechnical engineering and construction.

Steven Weinbeer, MBA, M.Eng., P.Eng., Associate, Structural Engineer

Steven is very excited to share learnings and design complexities that he and his team overcame on the Stantec Tower. As a Structural engineer at Stantec, he continues to have the opportunity to work on a wide variety of projects. Taking advantage of Stantec's presence in markets across Canada, Steven has worked on projects in Alberta, Saskatchewan, and BC including the West Kelowna Medical Center, Potash Corp Office Building, Edmonton Tower, and the Stantec Tower to name a few. Steven has earned his Meng. as well as his MBA from the University of Alberta.

Upcoming Site Tours

Calgary - BonnyBrook WWTP

Edmonton - the LRT project in Edmonton