



**2018/2019 Executive Committee**

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2018 CGS-SOS Christmas Lecture

**Tailings Failure Case Studies, Statistics and Failure Modes – Where Are We? Where Are We Going?**

Monday, December 10, 2018

Pearson Convention Centre, 2638 Steeles Ave E, Brampton, ON, L6T 4L7 ([Google Maps](#))

**Evening Program:**

**5:30 PM**

**Cocktails and Socializing**

**6:30 PM**

**Dinner**

**7:45 PM**

**Lecture**

**Abstract:** Public concern over the safety of tailings dam facilities is growing as recent tailings dam failures in British Columbia (Canada) in 2014, Buenavista del Cobre, Sonora (Mexico) in 2014 and Bento Rodrigues (Brazil) in 2015, have had resulted in significant impact to people and the environment. Breaching of tailings dams often results in the sudden release of water and sediments (tailings). These recent events, while highly publicized, are not isolated or particularly unique occurrences. Global record of historical events shows that consequences following these failures have been significant and in some instances catastrophic. Consequences of historical events included loss of life, changes in fluvial geomorphology and slope stability, widespread contamination resulting in loss of terrestrial and aquatic habitat, as well as legal repercussions and lack of public confidence. This presentation will give an overview of several case studies, the empirical statistics of tailings dam failures as well as the root causes of failure. Finally, the author will present some thoughts on the state of practice, our responsibilities as practitioners, and some lofty goals for the future.



**Speaker: Mr. D Chad LePoudre, P.Eng.,** is Vice-President of Geoscience & Materials Testing at SNC-Lavalin (previously MDH Engineered Solutions). He has 15 years' experience overseeing many geotechnical and geo-environmental projects, and 10 years of non-technical roles in construction, sales, management and finance, which contributed to his experience in business and project management. Mr. LePoudre is also a board member and Past President of the Canadian Dam Association, actively involved in several committees working to advance guidance for dams and tailings dams. Mr. LePoudre also teaches many workshops on dam inspection, dam and tailings safety management systems, slope stability analysis, and conducting Dam Safety Reviews in compliance with CDA guidance.

CGS Members - Early Bird:	\$65.00	<b>Sponsorships:</b>  <b>Gold: \$400</b> <b>Silver: \$300</b> <b>Bronze: \$200</b>
Non-Members – Early Bird:	\$75.00	
CGS Members - Regular:	\$85.00	
Non-Members – Regular:	\$95.00	
Student and Government Employees:	\$30.00	

**Please confirm your attendance by Sunday, November 25, 2018, 11:30 PM to qualify for the Early Bid price or by Wednesday, December 5, 11:30 PM, using [Eventbrite](#).**

This event will be booked solely through Eventbrite.

**If you have difficulties using Eventbrite, please contact Veronica Ayetan ([Veronica.Ayetan@ontario.ca](mailto:Veronica.Ayetan@ontario.ca)) for assistance.**