Emily Moore
Director, Troost Institute for Leadership Education in Engineering (ILead)

Bringing a Multidisciplinary Approach to Mine Water Treatment

Thursday, February 21
Room 215, Wallberg Building
200 College Street
11am to 12pm

Abstract

Mine water treatment is a complex challenge which requires a combination of specialist chemical engineering knowledge with an integrated, multi-disciplinary approach. Tightening legislative requirements and emerging contaminants present new challenges which are driving more sites to tertiary water treatment systems. While new technologies show promise, there are considerable challenges to implementation resulting in significant operating and capital costs. Integrated water management (IWM) is a holistic approach to minimizing water use and contamination across the entire site, and when implemented well can reduce treatment requirements and costs. IWM presents a wonderful teaching opportunity for context-based decision making and introducing environmental considerations.

Bio

Emily Moore is the new Director of the Troost Institute for Leadership Education in Engineering (ILead), joining UofT after over 20 years in industry. Emily spent the first half of her career at the Xerox Research Center of Canada (XRCC) in scale-up engineering, then in 2008 joined Hatch Limited as director of technology development, later serving as managing director for water and for innovation. In 2011 Emily was elected president of the Canadian Society for Chemical Engineering and has served on numerous committees of the Natural Sciences and Engineering Research Council of Canada. Her leadership in industry has been recognized by the Society for Chemical Industry Canada, and by Women in Mining, who named her one of 100 Global Inspirational Women in Mining 2016.

Emily earned a bachelor's degree in engineering chemistry from Queen's University and is a licensed professional engineer. She was named a Rhodes Scholar and completed her doctorate in physical chemistry at Oxford University.