



**\*\* Tuesday, October 25, 2011 \*\***

**Canada Council M. Brian Ives Lecture:**

***"A Gritty Proposition - An Introduction to the Alberta Oil Sands Industry and Related Materials Issues"***

**John Wolodko Ph.D., P.Eng.  
Alberta Innovates - Technology Futures**



**Presented By: ASM International *The Materials Information Society***

**Abstract:**

The Alberta Oil Sands constitute the second largest reserves of oil in the world, and represent a significant resource for Canada and North America. While people have heard about these "tar sands" in the news, relatively few know what oil sands are and how the oil is extracted. This presentation provides an overview & history of the oil sands industry including the different methods used to produce the oil (bitumen), and the wide range of materials issues encountered in this very aggressive environment.

Assiniboine Gordon Inn on the Park  
1975 Portage Avenue

Reception: 6:00pm  
Dinner: 6:30pm  
Presentation: 7:30pm

**Cost:** Members: \$15  
Non-members: \$20  
Students: \$10

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**John Wolodko, Ph.D., P.Eng.**

**Alberta Innovates – Technology Futures  
(formerly Alberta Research Council)**

Dr. John Wolodko is Manager of the Advanced Materials Portfolio at Alberta Innovates – Technology Futures (AITF) in Edmonton, Canada (formerly the Alberta Research Council). He has over 20 years research & development experience in the areas of advanced materials, mechanical & structural testing, polymer & composite processing, and product design. Dr. Wolodko is also the Director of the Materials and Reliability in Oil Sands research program (also known as MARIOS) which is a 30 member consortium focused on applied R&D and technology development for the oil sands industry. Prior to joining AITF, he was a Senior Research Engineer with C-FER Technologies, and has worked in both academia and as a consulting engineer in a variety of sectors. He currently holds an adjunct professor position in the Department of Chemical and Materials Engineering at the University of Alberta, with a research focus on “green” materials, and utilization of agricultural based feedstocks in composite applications.



Dr. Wolodko has been an active member of ASM International over the past decade. He is currently Chair of ASM Canada Council and a Past Chair of the ASM Volunteerism Committee. He has also participated in various roles at both the local and national levels which includes being a former Chair of the ASM Edmonton Chapter and a member of the ASM Nominating Committee. In addition to his committee roles, he has also been involved in a number of outreach programs including ASM Materials Camps, the Edmonton Regional Science Fair and the Alberta Teachers Association Science Conference.