



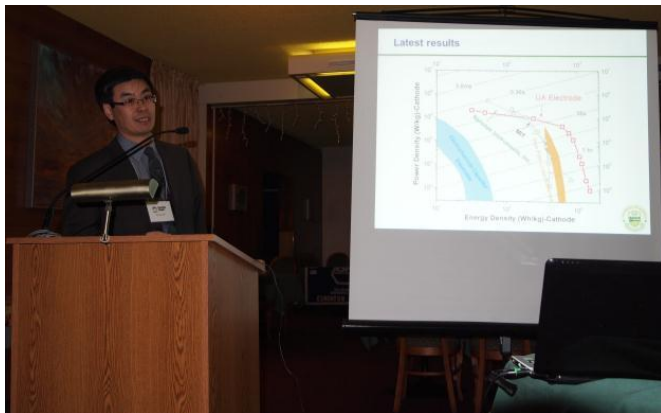
Edmonton Chapter News

Last Month

ASM October Dinner Meeting Recap Patrick Lysz

Greetings and Salutations!

The October 27th dinner at the University of Alberta Faculty Club on the topic of Advanced Hybrid Super capacitors was presented by Dr. Weixing Chen. The event was attended by 29 guests from industry and academia making for a cozy and personal atmosphere. Dr. Chen gave a background of his research from his work on the growth of carbon nanotubes and the development of the hybrid supercapacitor technology. The discussion of the technology in comparison to existing energy storage solutions such as Li-ion batteries was also covered. Dr. Chen and a member of his research group Dr. Xinwei Cui answered many questions from the audience after the presentation. The door prizes for the event were ASM gift certificates and a special donation from Tom Hunter of Buhler, a Fe-C phase diagram poster. We would like to thank the members of ASM Edmonton for their continuous support. Hope to see you all at the next dinner meeting, with Dr. Wolodko presenting on the history and materials challenges of the Alberta Oilsands on November the 22nd.



Dr. Weixing Chen discussing how his hybrid supercapacitors compare to existing technology

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ASM Edmonton Vice Chair, Patrick Lysz, handing the coveted Fe-C Phase Diagram (Courtesy of Tom Hunter from Buhler) to a very excited Sherman Chan

November Events

Technical Dinner Meeting

For our second technical dinner meeting of the season, we will be welcoming Dr. John Wolodko, from Alberta Innovates: Technology Futures. Dr. John Wolodko will be discussing *A Gritty Proposition: An Introduction to the Alberta Oilsands Industry and Related Materials Issues*.

Abstract:

The Alberta Oil Sands constitute the third 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 and 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.

About the speaker:

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 and development experience in the areas of advanced materials, mechanical & structural testing, polymer and 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 in industry as a consulting engineer in a variety of sectors.

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 include being a former Chair of the ASM Edmonton Chapter

Upcoming Events

2011-2012 Events

November 17th - Joint Dinner Meeting with EATS
Speaker: Daryl Foley, Group Ten Engineering Ltd.
Location: 250 Karl Clark Rd

November 22nd - Dinner Meeting
Speaker: Dr. John Wolodko, AITF
Location: U of A Faculty Club

January 26th - Dinner Meeting
Speaker: J. J. Letcavtis, ASM International
Location: U of A Faculty Club

March 1st - Joint Dinner Meeting with AWS

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.

Dates and Times:

Date: November 22, 2011
Registration: 6:00 PM
Dinner: 6:30 PM
Technical Program 7:30 PM
Location: University of Alberta Faculty Club

RSVP by November 20, 2011 to asm.edmonton@gmail.com

Costs:

Students: \$10
Professional Members: \$25
Non-Members \$35

Payment can be made by cash or cheque. If you would like to pay by credit card, there will be a nominal fee of \$1.50 to cover processing cost. For more details regarding this payment option please contact us at asm.edmonton@gmail.com.

Joint Dinner Meeting

In addition to our normal technical dinner meeting, ASM Edmonton is also supporting a joint dinner meeting with the Edmonton Association of Technical Societies (EATS). The speaker will be Mr. Daryl Foley from Group Ten Engineering Ltd., who will be speaking about *In Situ Oil Sands Operations*.

Dates and Times:

Date: November 17, 2011
Registration: 6:00 PM
Dinner: 6:30 PM
Technical Program: 7:15 PM
Location: 250 Karl Clark Rd

Preregister by November 14, 2011 for dinner.

Costs:

Presentation with dinner:
Students: \$15
Professional Members: \$35
Non-Members: \$40

Presentation Only: \$10

Location: U of A Faculty Club

April 5th - Dinner Meeting
Speaker: TBA, Sintra Engineering
Location: U of A Faculty Club

May 6th - Industry Tour
Location: AlleyKat Brewery

June 7th - Annual General Meeting
Location: U of A Faculty Club

Chapter Sustaining Members

Please take a moment to visit the websites of our chapter sustaining members

[Altasteel Ltd.](#)
[Argus Machine Co. Ltd.](#)

Upcoming ASM Edmonton Course

The next ASM Edmonton Course will begin on January 12, 2012. This course will focus on Failure Analysis and is intended for Materials Engineers and Technologists who are new to the subject as well as those who want an update. The course instructors are prominent failure analysts from the Edmonton Materials Community including Drs. Ted Hamre and Kioumars Poorhaydari from Acuren Group Ltd. and more.

This course will run for 14 weeks on Mondays from 6 to 9 pm. The program fee will be \$800 for ASM members and \$900 for non-members and includes a professional membership to ASM International. If you took this course at ASM headquarters in their 5 day format it would cost over \$2000! Register now as space is limited to 25 students!

For more details including how to reserve your spot please see the document linked below or contact [Dr. Reg Eadie](#).
[Failure Analysis](#)

ASM Edmonton Executive

2011-2012 ASM Edmonton Executive

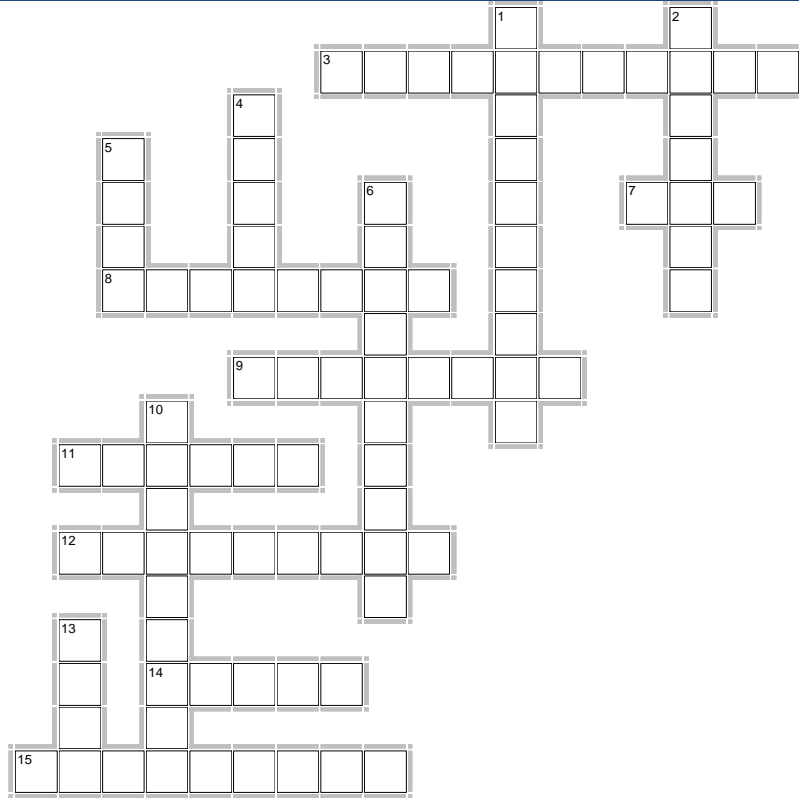
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Monthly Trivia



EclipseCrossword.com

Across

- Heat treatment commonly used for pressure vessel plates
- What is the crystal lattice of iron at room temperature?
- The lowest melting point in a phase system
- It is the most common iron ore found on earth
- Common test for finding transition temperatures
- Term for metals that change from one crystalline structure to another and back again.
- This liquid is a faster quenchant than water
- Another name for FE3C?

Down

- BCC Crystal lattice that is hard and brittle
- A non-metal used for deoxidizing in steel making
- Name of "point" where steel becomes non-magnetic
- Type of dislocation
- term for instilling directional properties in a metal by cold working
- This kind of cast iron is made by heat treating white cast iron.
- The name of distilled coal used in a blast furnace

(Courtesy Mike Powley)

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Trivia Answers

