

December Dinner Meeting Recap

Greg Nelson

In the third technical dinner meeting of the 2014 – 2015 season, ASM Edmonton welcomed Dr. Federico Rosei who spoke on *What Type of Energy for the Future of Humanity*. Dr. Rosei has given this talk to every ASM chapter in Canada as the recipient of the ASM International – Canada Council Brian Ives Lectureship. The talk was extremely well attended with an audience of 72 including approximately 45 industry members. Dr. Rosei's talk was very engaging and garnered many good questions for the audience on subjects varying from geothermal energy to politics.



Dr. Federico Rosei (left) and Patrick Lysz (ASM Edmonton Chapter Chair, right)

If you have any ideas for future technical speakers or topic please don't hesitate to contact us at ASM.Edmonton@gmail.com

Student Award Presentations

Greg Nelson

During the January technical dinner meeting, ASM Edmonton presented two sets of student awards to senior materials engineering students from University of Alberta and materials engineering technology students from NAIT. These awards are awarded based on student presentations given for the U of A Materials Process Design Course and the NAIT Welding Project.



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The first award was the ASM International – Edmonton Chapter Materials Engineering Process Design Award inaugurated in 2014. This award was presented to Hayley Penner, Krista Boddez, Johanna Meier, and Amanda Marchak for their project on production of glass shot from recycled bottles.

The second award was the ASM International – Best Welding Project Presentation Award, also inaugurated in 2014, and was presented to Elena Balueva, Thomas Nguyen, Levi Sutherland, Hubert Hua, Turner Wyard-Scott, and Liancong Yu for their presentation on flux core arc welding on ASTM A516 Grade 70 plate using an ASME Boiler and Pressure Vessel Code Section VIII and IX.

February Event

ASM Technical Dinner Meeting

For the next technical dinner meeting of the season, ASM Edmonton will be welcoming Dr. Gary Fisher who will be speaking on *Protective Overlays: New Solutions for Old Problems*.

Abstract

Tungsten carbide-based overlays are commonly used to help combat the rigours of both downhole and oil sands production environments. In general, these composites perform well, however there are a number of material and economic limitations intrinsic to the technology that can limit their deployment and overall performance. This presentation will give an overview of a number of fresh approaches to improve the reliability and durability of composite overlays. Topics will include the improved selection of materials, the use of alternative carbides, corrosion resistant overlays and the potential of nanostructure materials.

About the Speaker



Dr. Gary Fisher is the Manager of the Surface Engineering group at Alberta Innovates – Technology Futures (AITF) in Edmonton. He attended the University of Sheffield (UK) and received his PhD in 1998 from Cranfield University (UK) in Advanced Materials. His areas of expertise include wear and corrosion-resistant materials and protective coatings for aerospace, petrochemical, energy and mining applications. Dr. Fisher is co-

inventor on three US patents for coatings used in the petrochemical industry and is an adjunct Professor at the University of Alberta. His current research is focused on developing protective composites and overlays for the Energy industry.

Upcoming Events

2015 Events:

ASM Educational Seminar:

Friday, March 20, 2015

Speaker: Gilberto Lunardi and TBA

Topic: Gaskets, Seals, and Flanged Joints in the Oil and Gas Industry

Technical Dinner Meeting:

Thursday, March 23, 2015

Speaker: Thomas Bachand

Topic: Welding Symbols

Location: U of A Faculty Club

Technical Dinner Meeting:

April, 2015

Speaker: Joint AWS Technical Talk

Location: U of A Faculty Club

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Dates and Times:

Date: Thursday, February 24, 2015

Registration: 6:00 PM

Dinner: 6:30 PM

Technical Program 7:30 PM

Location: University of Alberta Faculty Club

RSVP by February 22, 2015, to: ASM.Edmonton@gmail.com

Costs:

Students: \$10

Professional Members: \$25

Non-Members \$35

Payment can be made by cash or cheque. Payment by credit card can only be made in advance of the meeting and there will be a nominal fee of \$1.50 to cover the processing cost. For more details regarding this payment option please contact us at ASM.Edmonton@gmail.com

Feedback

The ASM Edmonton Executive is continually working to improve this newsletter in order to better serve our members. If you have any suggestions or comments regarding the newsletter or if you would like anything included please contact us [here](#).

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