



Edmonton Chapter News

Last Month

January Technical Meeting Recap

Patrick Lysz

Happy New Year!

The January technical dinner meeting kicked off 2013 in style! Ian Hewitt of Inov-X Canada presented "An Introduction to Portable X-ray Fluorescence: A Productive Corrosion Management Tool" to an audience of 38 attendees. Before Ian's presentation started, we were treated to a presentation by Doug Hamre of Apollo Machine who received the John Conway Innovation Award from ASM Canada Council for their work with laser cladding and heat treatment. A quick overview of their work was shown, as well as cladding and laser heat treatment samples were passed around the room. Rob Roy was in attendance to present the award on behalf of ASM Edmonton.

Ian opened his presentation with a video showing the XRF and XRD units used on the Mars rover! He provided an overview of the various uses and some of the limitations of modern XRF technology and demonstrated the unit on various samples (including the Faculty Club cutlery). I am pleased to report that, as always, the audience was lively and engaged during the question period.

If you have any ideas on topics or speakers you wish to see at the technical dinners please feel free to let us know, you can contact myself Patrick.Lysz@Blackcatblades.com or ASM Edmonton at ASM.Edmonton@gmail.com. We would love to hear from you!

This Month

Educational Seminar

Nicole-Lee Robertson

February 22nd, 2013
250 Karl Clark Road

The focus of this one day seminar is to introduce the attendees to Environmental Stress Cracking (ESC) in piping and pressure equipment. ESC covers a wide umbrella of specific degradation mechanisms, including Stress Corrosion Cracking (SCC), Chloride Stress Corrosion Cracking (CSCC), and Hydrogen Embrittlement (HE). The theory behind each degradation mechanism will be explained and the non-destructive examination (NDE) crack detection methods will be presented from an industry perspective. Real-life case studies will illustrate the importance of ESC awareness and detection techniques.

Please contact us [here](#) for more information or to pre-register your seat!

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Patrick Lysz, vice chair, presenting Ian Hewitt with a token of appreciation for his presentation on portable X-Ray Fluorescence

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Awards

Congratulations to ApolloClad Rob Roy

Laurie Zarb, a director of ApolloClad (division of Apollo Machine and Welding), formally accepted the ASM Canada Council John Convey Innovation Award at the January ASM Edmonton Chapter meeting. The national ASM award was presented for their development of materials and processes for laser cladding of various complex alloys. The laser cladding process enables close tolerance buildup on internal and external surfaces with minimum material dilution and tailored properties. The company is continuing to expand their production capabilities in their Leduc facility



ApolloClad staff formally accepting the ASM Innovation award – (From left to right) Doug Hamre, Herald Sundar, Laurie Zarb (Director), Rob Roy (ASM Edmonton)

Upcoming Events

2012-2013 Events

Thurs, Feb 22nd – Educational Seminar
Topic: Environmental Stress Cracking in Metals
Location: Alberta Innovates Technology Futures

Thurs, March 28th – Joint Technical Dinner Meeting with AWS
Topic: TBA
Speaker:
Location: U of A Faculty Club

Thurs, Apr 25th – Technical Dinner Meeting
Topic: TBA
Speaker: Dr. Vilupanar Ravi
Location: U of A Faculty Club

Thurs, Jun 6th – Annual General Meeting
Location: U of A Faculty Club

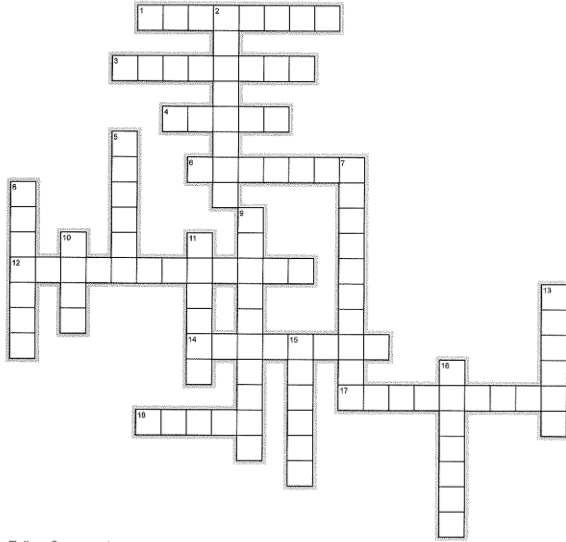
Chapter Sustaining Members

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

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

Trivia

Crossword puzzle



EclipseCrossword.com

Across

1. common refractory metal
3. cobalt alloy used for wear resistance
4. alloy prone to season cracking
6. similar to crevice corrosion
12. type of solid solution formed with iron and carbon
14. lowest melting temperature in a phase diagram
17. used as a nickel substitute for austenitic stainless steels
18. type of failure at elevated temperatures and stress

Down

2. corrosion mechanism sometimes called bi-metal
5. too much of this element was found in the steel from the titanic

7. rare earth metal that is ferromagnetic below 20 deg celcius
8. 80% of all equipment failures caused by this mechanism
9. directional mechanical properties in steel plate
10. welding process that uses a non-consumable electrode
11. fully deoxidized steel
13. family of stainless steels developed for SCC resistance
15. allotropic metal that is cph and fcc
16. common aluminum ore

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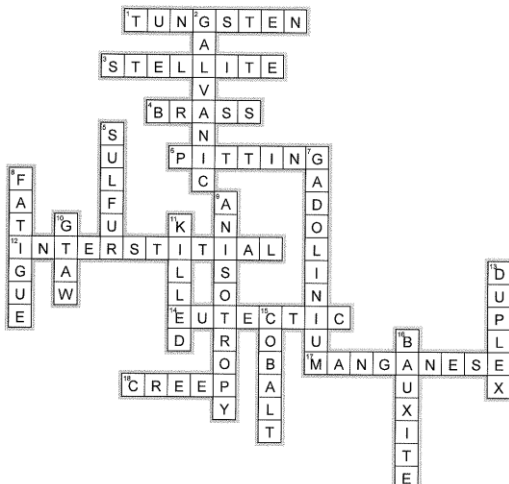
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Feedback

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](#).

Trivia Answer

Crossword puzzle



EclipseCrossword.com