



Edmonton Chapter News

Last Month

April Technical Meeting Recap

Patrick Lysz

Geoff Wowk, P. Eng. CFEI from Sintra Engineering presented "ROOT OR MOOT? The Art and Science of Forensic Engineering" at the April 5th technical dinner meeting. Geoff walked us through the history of Sintra and an overview of the usual investigations they conduct. He also explained the forensic engineering methodology and how it applies to conducting an analysis of an accident scene. Geoff also provided several examples including the investigation of a fire in the historic Duncan block on Whyte Avenue where Albert's Pancake House was located. The meeting was well attended by a combination of students and industry members. I would like to thank Geoff and Sintra Engineering for the excellent presentation and a special thanks to all the attendees for coming out to our final technical presentation of the year.



ASM Edmonton Vice-Chair Patrick Lysz presenting a speaker gift to Geoff Wowk for his intriguing presentation on forensic engineering

Alley Kat Brewery Recap

Patrick Lysz

To lighten the tone of the formal technical dinner meetings, ASM Edmonton took a field trip from the Faculty Club to the Alley Kat Brewery off 99th street. Guests attended a guided tour of the local brewery facilities. We were led through the brewing process (including the low temperature brewing area) where we learned about the complete brewing process from the receiving hops to the final bottling and boxing of the finished product. The tour was followed by a beer tasting and casual pizza dinner. Members were then left to mingle and discuss the subtle intricacies of the different beers available on tap. A few more adventurous members tried some of the hops and barley used by the brewery. We would like to thank

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the Alley Kat brewery for being kind and gracious hosts and we hope to see you all at the Annual General Meeting on June 7, 2012 at the Faculty Club!

Edmonton Regional Science Fair Alyssa Shinbine

Representatives from the ASM Edmonton Executive and University of Alberta had the privilege of attending and judging the 2012 Edmonton Regional Science Fair (ERSF) to award one deserving student a \$300 Award in recognition of their contribution to the understanding and development of materials engineering and technology. Numerous contestants demonstrated scientific, thorough, fun and creative projects. "The reversibility of the Jello Reaction", "Microbial Fuel Cells", and "the Effect of Temperature on Hockey Pucks" were just a few of the outstanding projects presented at the ERSF. The winning project, "What can stop a magnet?", was carried out by an inquisitive and straightforward 4th grade student from Busby School. When asked why she chose this project, she grinned and enthusiastically replied "Well, I like magnets!" She then proceeded to explain that the earth is a magnet and that is where she drew much of her interest from, and explained that she really wanted to see which materials could stop a magnet from attracting metallic things such as a paperclip. Her fun and interactive demo consisted of a magnet and a metallic paper clip attached to a string. She then demonstrated how different items (a colorful bracelet of her mother's, a table spoon, a small wooden toy, etc) would interact with the magnet. Her ingenuity and passion for magnets was admirable, and her demonstration was simple, effective and very entertaining. The project selected for Honourable Mention was "The Effect of Temperature on Hockey Pucks", conducted by a junior high student from New Horizons School which provided an example of great experimental design and a thorough understanding of how both temperature and friction can affect a hockey puck. ASM Edmonton would like to acknowledge their judges: Robert Roy, Grant Firth, Nicole Lee Robertson, Alyssa Shinbine and Isis Meleshko for taking the time to learn from the young minds of tomorrow at the Edmonton Regional Science Fair.

June Events

Annual General Meeting

ASM Edmonton will be hosting its Annual General Meeting on Thursday, June 7th, 2012. This meeting is **free of charge** for all who attend! The executive invites all our members to come out and share their opinions and suggestions for next year's technical program, including education course topics, educational seminars, industry tours and technical dinner meeting subjects. There will be a brief presentation outlining chapter activities from 2011-2012 and the financial status of the Chapter. The 2012-2013 executive will also be voted and decided on at the meeting. We encourage members interested in joining the executive to express their interest. Once again this meeting is **free of charge** so please attend!

Dates and Times:

Date: Thursday June 7th, 2012
Registration: 6:00 PM
Dinner: 6:30 PM
Technical Program 7:30 PM
Location: University of Alberta Faculty Club
RSVP by June 5th, 2012 to asm.edmonton@gmail.com

Upcoming Events

2011-2012 Events

Thurs, June 7th - Annual General Meeting
Location: U of A Faculty Club
Wed, June 20th - Buehler, Instron, Wilson, and Millar equipment show
Location: U of A

Chapter Sustaining Members

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

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

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Conference Recap

ASM Edmonton recently sponsored an undergraduate student from the University of Alberta to attend the International Students Day on Metallurgy (ISDM) 2012 conference in Freiberg, Germany. We also invited her to share her experiences with our members.

ISDM Experiences

Karina Chevil

Thank you, ASM Edmonton, for supporting my visit to Germany to attend the ISDM student conference in Freiberg to celebrate the 9th student metallurgy day. The trip provided me with an opportunity to network with students from European universities while learning about their studies and research. The conference went on for three days at the Technical University of Freiberg, known for its mining research and discovery of the ledeburite structure. Being the only student from Canada, I was warmly welcomed by the conference organizers and fellow students, who gave me a private tour in their research facilities. The conference started off with a dinner and a fire show, where the students had the opportunity to introduce themselves and network. The second day of the conference included student presentations of their research, a tour at a local plant and a formal dinner banquet. My tour of choice was the Saxonia Galvanik electroplating plant, which specializes in metal coating of plastic parts for automotive, electronics and sanitary applications. The plant was a live demonstration of how theoretical concepts from our notebooks turn into large scale production processes. The third day concluded the event with additional presentations and a closing speech. I left the conference with one thought: "I better go home and stock-up on some books, because there is such a big world of Materials Engineering out there that I still need to explore!

Thank you for all of your support to attend this trip.

Karina Chevil

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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