

December Dinner Meeting Recap

December Meeting Recap - Greg Nelson

In the third technical dinner meeting of the 2015 – 2016 season, ASM Edmonton and AWS Edmonton welcomed Kimberly Meszaros who spoke on *Temper Bead Welding Connecting the Codes*. Kimberley discussed the role of temper bead welding in various codes from ASME Sect VIII, Sect IX, API 510, to the National Board Inspection Codes. Kimberley gave this talk to an audience over 50 attendees. The talk was very engaging and gathered many good questions from the audience.

Student Award Presentations

During the December technical dinner meeting, ASM Edmonton presented student awards to senior materials engineering students from the University of Alberta. This award was based on student presentations given for the U of A Materials Process Design Course. Congratulations to Caitlin Guzzo, Graeme Pletz, Lily Ren, and Haobo Wang.

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

February 2016 Event

ASM Edmonton Education Course: Materials Selection

ASM Edmonton will be hosting a two day educational seminar on February 25th-26th, 2016 on Materials Selection. The key note speaker will be Dr. John Nychka of the University of Alberta.

COURSE CONTENT AND BROAD OBJECTIVE

Why is it that improper materials selection and processing are the largest contributors to physical failures? Simply put, there is inadequate knowledge of materials and process selection in many design teams. Couple such a gap with the thousands of possible material choices, new performance challenges, codes and standards, and it is no wonder we tend to favour the same old materials for new designs due to our familiarity – often with mixed results.

This course aims to inform attendees about the process of materials selection coupled with the design process to permit smarter, more cost effective, more reliable, and safe design. Learn how to critically think about the origins of materials properties when selecting materials, and incorporate materials and process selection at the “right time” in the design process.

The course will comprise of short lectures, discussions, case studies, examples, demos, and hands-on activities. The first day will be comprised of theory, and the second will include a practical session on the CES EduPack software used for materials selection. Attendees have the option to attend either the first day only or both days.

COURSE OUTLINE

Day 1: Theory

1. Introduction: Why do more people need to deepen their materials knowledge?
2. The Design Process
3. Criteria and Concepts in Design
4. Design Tools
5. The Materials Selection Process

Sponsors Section

Please feel free to contact any of our sponsors directly:

CASTI Publishing



IRISNDT



Alberta Innovates Technology Futures



Qualimet



Acuren



MetLab



Camber Technology



Upcoming Events

ASM and AWS Joint Dinner Meeting

Wednesday, December 16, 2015

Location: University of Alberta Faculty Club

ASM Educational Seminar on Materials Selection

February 25 - 26, 2016

Location: Alberta Innovates - Technology Futures

250 Karl Clark Road, Edmonton

6. Effects of Composition, Processing, and Structure on Materials Properties
7. Properties vs. Performance of Materials
8. Manufacturing Aspects of Design

Day 2: CES EduPack Training & Practice (completion of Day 1)

1. Design Tool in Depth: CES EduPack – Materials Selection Software
2. Who, What, Where, When, Why, How?
3. The Ashby Method in Mechanical Design
4. Using CES EduPack (combination of lecture and hands-on exercises and discussion)
5. Examples
6. Case Studies
7. Hands-on Exercises

WHO SHOULD ATTEND?

This course is designed for engineers, technical staff, designers, non-materials specialists, and materials people wanting a refresher.

PREREQUISITES:

No prerequisites are required; however, some prior knowledge of materials science is advantageous.

ADDITIONAL INFORMATION:

The seminar includes breakfast, lunch, snacks and coffee/tea.

PRICING:

		Day 1 only	Both days
ASM or Affiliate Society Member	Before January 31st, 2016	\$345	\$550
Non-member	Before January 31st, 2016	\$395	\$600
Student	Before January 31st, 2016	\$100	\$150
ASM or Affiliate Society Member	After February 1st, 2016	\$395	\$600
Non-member	After February 1st, 2016	\$445	\$700
Student	After February 1st, 2016	\$150	\$225

DATES AND TIMES:

Date: February 25th-26th, 2016, 8:00 am - 4:30 pm
Location: Alberta Innovates - Technology Futures (Formally: Alberta Research Council), 250 Karl Clark Road, Edmonton, Alberta

Register now through [Eventbrite](#). For further questions contact 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](#).

Executive Members

Greg Nelson – Chair

IRISNDT
gmnelson@ualberta.ca

James Derksen – Vice Chair and Webmaster

IRISNDT
TrustyJAID@gmail.com

Patrick Lysz – Past Chair

Black Cat Blades
psylsz@gmail.com

Matthew Bell – Treasurer

IRISNDT
mbell@irisndt.com

Dr. Chinnia Subramanian – Education Seminar Chair

Volant
chinnias@hotmail.com

Connie Williams – Secretary and Technical Dinner Meeting Chair

University of Alberta
cwilliam@ualberta.ca

Dr. John Nychka – U of A Faculty Liaison Student Outreach

University of Alberta
jnychka@ualberta.ca

Jason Li – Communications Chair

GE Oil & Gas
lijing8704@gmail.com

Dr. Leijun Li – Education Course Chair

University of Alberta
leijun@ualberta.ca

Dr. John Wolodko – Teacher’s Camp Outreach and Canada Council

Alberta Innovates Technology Futures
John.Wolodko@albertainnovates.ca

Mike Powley – NAIT Faculty Liaison

NAIT
mpowley@nait.ca

Mike Hazelton – Sponsorship Chair

hazelton@ualberta.ca

Jason Lohner – NAIT Student Representative

NAIT
jmlohner@telus.net

Matthew Lomas – U of A Student Representative

University of Alberta
lomas@ualberta.ca

Katherine Jonsson – Member-at-Large

IRISNDT
katherine.jonsson@irisndt.com

Sherman Chan – Member-at-Large

Qualimet
sherman@qualimet.ca

Beth Sterling – Member-at-Large

bethsterling@gmail.com