



AFS—BC Chapter APRIL NEWSLETTER

We're on the web!
<http://www.afsbc.ca>

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April Green Sand Seminar

This April we are very excited to be hosting a Green Sand Seminar. Vic LaFay, Manager of Research and Technical Development at S & B Industrial Minerals will be leading this highly anticipated seminar.



Seminar Outline:

- * Welcome
- * The Metal Casting Process and Understanding Green Sand Additives
- * Control Of Your Molding Sand Begins With Sand Testing
- * Casting Defects
- * Open Discussion

In 2009 Vic was presented with the Thomas W. Pangborn Gold Medal for leadership in the technical development of green sand molding methods that has propelled technology to meet the future demands of the metalcasting industry through improvements in environmental applications, sustainable raw materials and metalcasting education.

Topic:
Green Sand Seminar

Date: April 13, 2011

Time: 9am—2pm

Location:
Delta Town & Country

Cost: \$45

Contact: Crystal Lambert
sales@purityalloys.com

Please come out and join us for a great seminar!

March Technical Speaker Recap—Adv. in Treating Aluminum

Brian Began was an excellent guest speaker keeping us entertained for the afternoon covering the following topics:

- * Common Practices
- * Oxide Control – Fluxing
- * Recent Advancements – Fluxing, granular vs powder
- * Hydrogen Control – Rotary Degassing
- * The Need for Automation

During the talk Brian discussed a Flux Case Study. The experiment utilized a ladle on a scale with 2000 lbs of metal poured into it. This process was repeated a few times, once with no flux and the remaining pours with flux.

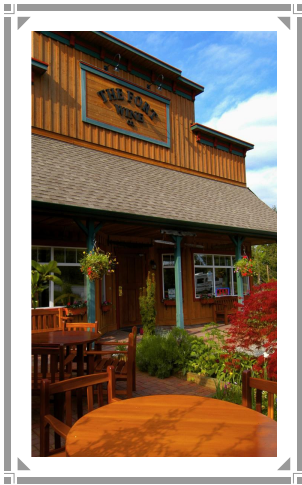


Here are some of the results:
 -No flux had a 40 lbs loss of metal (2%)
 -GR6512 flux had a 9 lbs loss of metal (0.46%)
 -Flux A had a 20 lbs loss of metal (1%)

Thank you to everyone who came out to make this event a success!

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May Annual General Meeting & Ladies Appreciation Evening

We are pleased to announce the date and time of the much anticipated May Annual General Meeting.

This year the Fort Langley Winery will be hosting us at their wonderful facility just outside of the village of Fort Langley!

This event will have a bbq, tour, pairing & mixing seminar and most importantly wine tastings!

Date: Saturday May 14, 2011

Time: 6:00pm cocktails;
7:00pm dinner

Location: Fort Langley Winery

Cost: TBA



Please join us for an fun evening of wine tasting in the Valley!

In space, if unprotected pieces of metal touch each other, they stick together permanently.

10 Rules For A Good Casting

Rule 9. Control Residual Stress

Avoid unknown or random residual stress by forbidding quenching of low ductility, light alloy castings into water following high temperature solution treatment. Boiling water is also not permitted since it represents a negligible improvement over cold water. However, polymer quenchant or forced air-quench

may be acceptable if casting stress is shown to be negligible. Planned residual stress may be beneficial if designed correctly into the quenching process.



AFS International News—AFS Releases New Handbook

AFS has released a new publication *Casting Defects Handbook: Aluminum & Aluminum Alloys*. The nonferrous publication highlights many of the common types of casting defects with a new approach and is categorized by production methods, including sand, permanent mold, high-pressure diecasting, low pressure, investment, plaster and lost foam casting.

David Neff, Eck Industries, Manitowoc, Wis., the book's technical editor, headed up this project along with thirteen metalcasting industry experts to compile this user friendly casting defects handbook. David has more than 35 years of experience in non-ferrous molten metal treatment technology.

The organization of the material is presented in an easy to review

format suitable for metalcasting floor operators, as well as process engineers, metallurgists and quality control personnel. The publication also provides a comprehensive visual atlas of the more common aluminum casting defects to enable metalcasting personnel to quickly identify the type of defect, address possible causes and establish corrective actions





AFS NW Regional—Portland, Oregon

The AFS NW Regional Conference is less than 2 months away!



This year the conference is hosted at the beautiful Hilton Tower Downtown in Portland, Oregon.

Do not miss on the Savings for

early registration!

Hotel early registration is \$139.00 and ends on February 26, 2011. After this date registration is \$189.00. Registration code: AMS

Conference early registration is \$285.00 and ends on February 28, 2011. After this date registration is \$315.00. One day registration is available.

The deadline to sign up for the Winery Tour is February 28. You

can sign-up for other March 31st tours by contacting Todd Schaaf at tschaaf@emsco.com

To find out more details & contacts please visit our web page: www.afsnwregional.com



Portland, Oregon Hilton Tower Downtown



Just-In-Time Education—AFS Headquarters—Webinars

AFS and CMI produce many educational opportunities to keep metalcasters abreast of the latest technical, environmental, health and safety and industry marketing trends. There are many internet courses and webinars that have been produced just in time for you to make your facility more productive. For

more information on internet courses contact Jennifer Head, CMI director of education, at jhead@afsinc.org. To inquire about webinars, contact Dave Krugman, AFS PR and marketing coordinator, at dkrugman@afsinc.org.

Current Upcoming Webinars:

Confirming Effectiveness of Corrective Action: How do you tell whether corrective actions are effective or not?

Foundry Sand Beneficial Use Toolkit: the tools and resources that you can use to begin the process.

"In the average 3,000-pound car there are 240 pounds of aluminum, 42 pounds of copper, 22 pounds of zinc, 250 pounds of plastics and 140 pounds of rubber"

Just-In-Time Education—AFS Headquarters—Internet Courses

CMI offers several options for on-demand, self-paced internet courses. Short-format courses range from 30 minutes to 2 hours, and full-length courses mirror the content taught in their live 2 and 3 days lecture courses. Most are taken through CMI's e-learning website located at <http://castmetalselearning.com>, while

a few are hosted by Banu Learning Systems. Individuals view narrated, PowerPoint-based presentations and complete assessments to test comprehension. PDF copies of the presentations are available for download, and certificates of completion become available for printing after passing the assessment.

Upcoming Internet Courses:

Introduction to Metalcasting: This introductory course presents a general overview of the metalcasting process. Topics covered include patternmaking, molding and coremaking processes, alloys poured, melting methods, gating and risering, cleaning and finishing, defects, and inspection techniques.



Sachsenhausen Concentration Camp was a Work Camp, and covered a vast area with much industry, including a brick works, machine manufacture, and a metal foundry

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Calendar Of Events

Date/Time	Event	Location
Thursday March 31–April 2	Oregon Chapter NW Regional	Portland, Oregon
Thursday March 17 Time: 3:30–6:30pm	March Meeting: Advancements in Treating and Monitoring Molten Aluminum	Delta Town and County Inn, Delta, BC
Wednesday April 13 Time: 9:30am–2:30pm	April Meeting: Green Sand Seminar presented by Vic Lafay	Delta Town and Country Inn, Delta, BC
Thursday May 12 Time: 11:00am	Spring Golf Tournament	Fort Langley Golf Course
Saturday May 14 Time: 6:00pm	Annual General Meeting and Ladies Appreciation Night	Fort Langley Wine Co.

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