



Edmonton Chapter News

Last Month

October Technical Meeting Recap

Patrick Lysz

On October 25th, Andy Garner presented on the Corrosion of Carbon Steel and Stainless Steel Weldments as part of the annual Brian Ives Lectureship series. The Brian Ives Lectureship series award is given to outstanding lecturers in memory of Brian Ives, who was an instrumental member of ASM International and ASM Edmonton in particular. Andy's presentation was attended by a lively group of 46 guests. We had a wonderful opportunity to tap into Andy's vast experience to broaden our own knowledge and see what life is like in materials outside of Alberta. We wish Andy well in his journeys around Canada as he presents to the different local ASM chapters, and we would like to thank the members of ASM Edmonton for their continued support.



Andy Garner presenting on the corrosion of stainless steel weldments for the Brian Ives Lectureship

November Events

Technical Dinner Meeting

For our second technical dinner meeting of the season, we will be welcoming John Bringas from the Codes and Standards Training Institute. John will be discussing *ASTM A370-12 Standard Test Methods and Definitions for Mechanical Testing of Steel Products*

Abstract:

Tension, hardness, impact, and bend test methods and definitions of steels, stainless steels, and related alloys are covered in ASTM A370. These mechanical tests are used to determine properties

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required in ASTM product specifications and referenced in many other codes and standards, e.g., ASME VIII-1 and B31.3. There are occasions when the referencing standards (e.g., ASTM E18 and E23 referenced in CSA Z662) or the ASTM, CSA, API, etc., product specifications may have different requirements than A370. In those cases it is critical to understand which testing requirements shall control. This presentation will also introduce the use of ASTM A1058 which is the SI unit version of A370, as well as other ASTM terminology standards, such as E6 and A941, to guide you through the maze standards that are used for testing steels products. As a member of the ASTM committee responsible for A370, John will discuss upcoming changes to ASTM A370.

About the speaker:

John E. Bringas, P.Eng. is a professional engineer who has practiced metallurgical engineering and inspection for 37 years. He is a long time ASTM A370 committee member, as well as a member of ASTM A01 (Steels), A05 (Coated Steels), B02 (Nonferrous Alloys), NACE STG 32 (Oil and Gas Production-Metallurgy) and STG 34 (Process Refining and Gas Processing), and Canadian Representative on ISO TC 17-SC 4 (Steels). He is also certified as an API 510, 570, 653, 571, 577, and 580 inspector, an AWS Certified Welding Inspector, an Alberta In-Service Pressure Vessel Inspector, Alberta Welding Examiner, and former CGSB certified NDE examiner in UT and RT.

He is the author of the ASTM Handbook of Comparative World Steel Standards, ASTM Handbook of Steel Data, ASTM Passport to Steel Online Database, and the CASTI Metals Data Books. Mr. Bringas is the founder of Codes and Standards Training Institute and CASTI Publishing Inc.

Dates and Times:

Date: Tues, Nov 27, 2012
Registration: 6:00 PM
Dinner: 6:30 PM
Technical Program 7:30 PM
Location: University of Alberta Faculty Club

RSVP by November 20, 2012 to asm.edmonton@gmail.com

Costs:

Students: \$10
Professional Members: \$25
Non-Members \$35

Payment can be made by cash or cheque. If you would like to pay by credit card, there will be a nominal fee of \$1.50 to cover processing cost. For more details regarding this payment option please contact us at asm.edmonton@gmail.com.

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Upcoming Events

2012-2013 Events

Tues, Nov 27th – Technical Dinner Meeting
Topic: ASTM A370 Mechanical Testing of Steel Products
Speaker: John Bringas
Location: U of A Faculty Club

Thurs, Jan 24th – Technical Dinner Meeting
Topic: Differences and Limitations of Material Identification Techniques
Speaker: Ian Hewitt
Location: U of A Faculty Club

Wed, Dec 5th – AWS/NACE Meeting
Topic: Qualifying WPS and WPQ to CSA Z662 Annex 1 for Steam Pipelines
Speaker: John Bringas

Mon, Dec 10th – CINDE Course
Topic: Ultrasonics Level 2

Thurs, March 28th – Joint Technical Dinner Meeting with AWS
Topic: TBA
Speaker: TBA
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

(courtesy of Greg Nelson)

Upon heating most materials expand and this expansion is characterized through the various coefficients of thermal expansion. However, some materials actually continuously contract upon heating. What is an example of such a material?

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

One of the most commonly studied materials that exhibit contraction upon heating is Zirconium Tungstate (ZrW_2O_8) in its cubic form. This material contracts continuously over a range of 0.3 to 1050K! In contrast to other ceramics that exhibit this behaviour Zirconium Tungstate has a significant and isotropic negative coefficient of thermal contraction.

Source: Mary, T. A.; Evans, J. S. O.; Vogt, T.; Sleight, A. W. (1996). "Negative Thermal Expansion from 0.3 to 1050 Kelvin in ZrW_2O_8 ". Science 272 (5258): 90–92

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