Technical Meeting  
Thursday – October 10, 2013

Speaker: Dr. Stewart Ballantyne, MeltMet Technologies
Dr. Stewart Ballantyne graduated from the University of British Columbia with a B.A.Sc. in Metallurgical Engineering. Following three years of employment in the Canadian uranium industry, Stew moved to England to pursue a M.Met. degree in Chemical Metallurgy at the University of Sheffield. Upon completion, he returned to U.B.C. to enroll in a Ph.D. programme studying heat transfer in the electroslag and vacuum arc remelting processes, in the course of which he developed one of the earliest mathematical models for heat transfer. In 1985, Stew joined Haynes International in Kokomo, IN as Group Leader in the Solidification Group. Following two years at the Allegheny Ludlum plant in Lockport, NY, the merger between Allegheny and Teledyne took Stew to Allvac where he served as Director and subsequently Manager of Melt Technology in the R&D and Technical departments. Throughout his career, Stew has published two dozen papers, patents, or presentations on superalloy melting, and has served on several melt-related committees. In 2006, Stew was accorded the honor of being elected Fellow of ASM International. After retiring from Allvac, Stew founded MeltMet Technologies.

Topic: Electroslag and Vacuum Arc Remelting
The electroslag and vacuum arc remelting processes are two secondary melting processes which are of critical importance to the production of the specialty alloys used in industry. While both processes represent relatively mature technologies having been in use for at least 50 years, advancements in understanding and applications continue to the present day. This presentation will compare the major features of the two processes giving a brief history of the development of each one. The attributes of each process, critical elements of process control, and potential defects resulting from each process will be discussed. Finally, some new developments and applications will be reviewed.

Location: Holiday Inn Buffalo Airport  
4600 Genesee Street, Cheektowaga, NY 14225

Time: Social Hour  5:30 p.m. (Cash Bar)  
Dinner           6:30 p.m.  
Presentation will follow dinner

Dinner Choices: Chicken Kiev, Baked Italian Haddock or Roast Top Sirloin Au Jus  
Please provide your dinner choice with your reservation

Cost:  
Members/Guests       $25.00  
Students               $10.00

Reservations: Stan Biernat, sbiernat@moog.com, 716-805-2285

Please make reservations by  Monday - October 7, 2013
Chapter Update

Hope everyone had a great summer! The last event we had was the annual ASM golf outing at Diamond Hawk Golf Course in Cheektowaga on June 18th. We had an excellent turnout for a beautiful golf course…and dinner was superb!

I had the opportunity to attend Leadership Days in Cleveland from July 18th till the 21st. This is an event that ASM International offers for their Chapter officers to help train and develop their staff. This included many roundtable discussions along with seminars and workshops with colleagues from around the world who are heavily involved with ASM International. This event gave me many different ideas of how we can keep our chapter as a “Five Star” chapter, along with many different ideas of help to pass along our materials influence to our students of Western New York.

Our next event is Thursday, October 10th. We’ll have Stewart Ballantyne from MeltMet Technologies giving a presentation on Electroslag and Vacuum Arc Remelting. We hope to see then!

Thank you for your support of the chapter. I look forward to seeing you at the next meeting.

Tim Gelnett
2013 - 2014 Chairman

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Buffalo Chapter Officers and Directors

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2013 – 2014 PROGRAM
Below are the upcoming meetings tentatively planned for the upcoming program year.

November 14, 2013
Advertiser Appreciation Night

January 2014
TBD

March 2014
TBD

April 2014
Student Night

May 2014
Annual Golf Outing

If you have an idea for a meeting or event please contact a Buffalo Chapter Officer or Director. All ideas are welcome!!!
METEORS!

This talk will review the history of meteors, their origins and their encounters with planet earth, (some incidental, and some earth-shaking), then consider a few ideas about the effects of large meteoric impacts on terrestrial animal development. "Iron" meteorites and their metallurgy is a subject that closely parallels the metallurgy of steels. The cooling rates for meteors are slower (about one degree per 10,000 years for example), and the microstructures are much coarser, but the familiar Widmanstaetten pattern is found in both. Modern techniques for metals characterization yield new insights into the development of these structures - and their earthly counterparts.

Speaker: Dr. Gary Purdy
Professor, McMaster University

Joining the McMaster’s Department of Materials Science and Engineering in 1963, Gary Purdy has had a distinguished career in materials research, has held the department chair and has been involved in Peace Studies initiatives. He has supervised the research of more than 100 graduate students and research fellows. As a fraction of the list of bestowed awards, he is a Fellow of the Royal Society of Canada, CIM, TMS, named as one of McMaster’s Distinguished Professors, a Foreign Associate of the U.S. National Academy of Engineering and holds a Doctorate "Honoris Causa“ from the Institut National Polytechnique de Grenoble. Most importantly, he’s a Fellow of ASM and we’re honored to have him speak again.

Date: Wednesday October 2nd, 2013
Location: Otello’s
2272 Royal Windsor Dr.
Oakville, ON L6J 7X8
Time: Networking 6:00 PM
Dinner 6:45 PM
Speaker To Follow

Cost: Member $40
Non-member $45
Students $25

Please register on-line: [http://r20.rs6.net/tn.jsp?e=001cQPwea4k0vcu8T8ZP6f7D2SIUKfMZ9s6lfebZO9YCaVlPp_JGbJbKRkzpp5dV8lDH69DlSbRYYyMUj17NqcqXVID3sPYUpQphOh4bkZVjQq6Fvp9wgDHbiEpNauQNN3Lf0Ir6MivCXPgMR=] (NEW!!) or by emailing register@asmontario.org [mailto:register@asmontario.org]

…before September 30th…
Online Metallurgy of Iron & Steel Program - New!

As a professional in the steel industry, you may be familiar with McMaster University's long-standing connection to the steel manufacturing industry. But did you know that as of January 2013, their five-course Metallurgy of Iron & Steel certificate program will be offered completely online to support learners across North America? Developed in collaboration with McMaster’s Faculty of Engineering, this comprehensive program offers a full introduction to the science and technology of making and using steel. Our program is the only academic certificate in Metallurgy of Iron & Steel in the country, and has been a gold standard in this field for over fifty years. Now, these interactive, instructor-led online courses bring together steel industry workers and make McMaster's well-known program more accessible than ever. Courses

1. Primary Production of Steel
2. Physical Metallurgy
3. Heat Treatment of Steel
4. Steels in Service
5. Steel Products Manufacturing

For more information on the program and courses, please visit our website at www.mcmastercce.com/metal

or contact us via phone at (905) 525-9140 extension, 24321.