



# ASM-AFS NEWSLETTER



September and October 2009

## WELCOME TO THE 1<sup>ST</sup> ASM-AFS NEWSLETTER OF THE 2009-2010 SEASON!

I hope you have been able to attend our first two meetings of the season. If you've missed them, a few pictures and notes from the meetings can be found below. Finally, look at the second page for a list of upcoming events and the 2009-2010 Meeting Schedule. Here's to another great season!

### ASM Steel Days

The 2008-2009 ASM season ended with a bang. The continuing education committee brought in seasoned experts in the area of steel manufacturing and processing for a 1½ day seminar. The event was held at the Caterpillar Inc. Technical Center Complex on August 12th and 13th of 2009. The purpose of the "Steel Days" event was to provide a learning opportunity to ASM members concerning steel making practices for both long and flat type products and the physical metallurgy and heat treatment of steel. A total of 3 interactive lectures were given as outlined below:

*"Modern Plate Production Technology"* by Steven S. Hansen, Vice President and Chief Technical Officer, SSAB North America.

*"Production of Special Quality Steels - Long Products"* by Richard Nebiolo, General Manager Metallurgical Operations (Retired), Republic Engineered Products Inc.

*"Heat Treatment, Microstructure, and Performance of Carbon and Alloy Steels"* by George Krauss, University Emeritus Professor, Colorado School of Mines and Metallurgical Consultant.

The "Steel Days event was "open to the public." Approximately 94 people attended the seminar including the speakers. The audience was composed mostly of engineers from the Materials disciplines from the ASM Peoria Chapter, but also contained a significant amount of Caterpillar staff from out of the local area as well as attendees from Bradley University, Komatsu, the University of Illinois, and Hickman.



Facilitator Patrick Zhao introduces Steve Hansen for his talk on Modern Plate Technology.



Prof. George Krauss talks about heat treatment of steels



Attendees mingle and talk with speakers and fellow attendees at a break during steel days.



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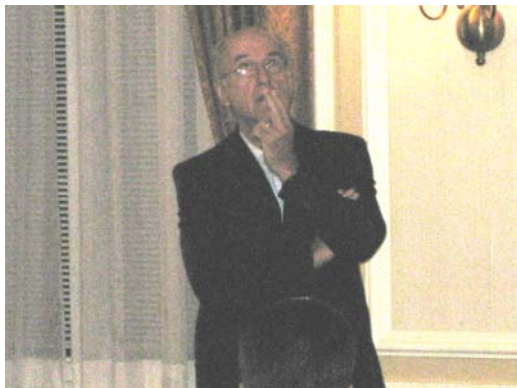
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## THE SEPTEMBER MEETING

Professor Doru M. Stefanescu from The Ohio State University was the main attraction at the September Technical Meeting. Professor Stefanescu spoke about The Effect of Mould/Metal Interface Phenomena on the Surface Quality of Castings. During the coffee talk Chris Richerson described the effort the chapter has been making in the Materials Camp and provided highlights from the summer 2009 session.



Chris Richerson illustrates how much "cool" helping with Materials Camp can be.



Professor Stefanescu ponders the answer to a question by the audience

## THE OCTOBER MEETING

For our October meeting, Carl Loper Jr. from the University of Wisconsin-Milwaukee discussed Graphite Configuration in Cast Iron. Bud Harvey invited the chapter to take a special ASM only Blacksmithing course during the coffee talk.



Bud Harvey describes his blacksmithing experience and encourages participation in his upcoming class.



Professor Loper discusses the importance of graphite morphology on the types of iron.



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## ANNOUNCEMENTS & UPCOMING EVENTS

### Educational Seminar Series

Strengthening of Materials through Microstructural Modification by Professor Satya Shivkumar, Worcester Polytechnic Institute

**Date:** Tuesday, October 20, 2009

**Location:** Marty Theater Auditorium in Bradley (Michel) Student Center, Bradley University

**Cost:** \$5, free admission for students. Non-ASM members are welcome.

For more information, please contact Bob Bierman or Olly Rowan.

To register, please contact Bob Bierman at 309-494-2588 or [Bierman\\_Bob@cat.com](mailto:Bierman_Bob@cat.com).

Please direct all questions to Olly Rowan at 309-675-7970 or [Rowan\\_Olga@cat.com](mailto:Rowan_Olga@cat.com)

### Blacksmithing Class

Bud Harvey will be conducting a blacksmithing class for ASM members. The registration deadline is October 23.

**Date:** Saturday October 31, 2009 from 8:30 am to 4 pm.

**Location:** 12000 N. Riverview Rd. Chillicothe. Located directly across Rt. 29 from Caterpillar Bldg AC. Cross Rt. 29 on Rench Rd., turn right on Riverview Rd., approx. 0.2 mile to green & white metal building on right side of street. Look for smoke and blacksmith tools.

**Cost:** \$65 (includes all materials); all tools provided. Lunch donation to cover cost bring your own.

Contact: Bud Harvey Ph. 309-258-2010 (cell); 579-2007 (home); email [hotironblacksmith@comcast.net](mailto:hotironblacksmith@comcast.net)

### Field Trip

ASM is planning a Field Trip to Rockford Products, LLC in Rockford IL on Wednesday November 4, 2009. Anyone interested in learning about the fastener technology, tooling and design considerations, required properties and processing tailored to performance of demanding components in a variety of automotive and non-automotive applications, as well as those who would benefit include materials and manufacturing engineers, mechanical engineers, quality and design engineers, should contact Olly Rowan. **To register, please contact Olly Rowan at 309-675-7970 or [Rowan\\_Olga@cat.com](mailto:Rowan_Olga@cat.com)**

### 2009-2010 SCHEDULE

Date/Location	Topic	Speaker
9/16/2009 Pere Marquette	The Effect of Mould/Metal Interface Phenomena on the Surface Quality of	Doru Stefanescu, The Ohio State University
10/5/2009 Pere Marquette	Graphite Configuration in Cast Iron	Carl Loper, Jr., University of Wisconsin
11/9/2009 Pere Marquette	Hexavalent Chrome Replacements Using HVOF	Brad Beardsley, Caterpillar, Inc.
1/11/2009 Pere Marquette	Aging and Machinability of Irons with Compact and Spheroidal Graphite	Dr. Von Richards, Missouri University of Science and
2/8/2010 Barrack's	Innovation: Firefly (Joint meeting with SWE)	
3/8/2010 Pere Marquette	Brush Wellman: Toughmet Alloys	
4/12/2010	ASM Officer?	
5/10/2010 Pere Marquette	TBD	

### ASM Officers

Position	2009-2010
Chair	Michael Pollard
ASM Vice Chair	Chad Siebenaler
Secretary	Eric Morgan
Treasurer	Patrick Zhao



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## ASM Committee Chairs

Committee	2009-2010 Chair(s)
Historian	Wally Hines
Historian	Bud Harvey
Bradley Student Chapter	Alexey Sverdlin
Membership	Zack Birky
Student Outreach	Jennifer Mager
Sustaining Members	Jim Barlow
Finance	Scott Wiseman/Mike Pershing
Long Range Planning	Chad Siebenaler
Nominating	Dave Akers
Materials Camp	Karen Raab
MEI	Jeff Werner
MEI	Jon Soole
Education	Ollly Rowan
Program	Jennifer Mager
Social (Young Members)	Wade Ballinger
Golf Outing	Ryan Boerger
Arrangements	Bob Bierman
Reception	Ryan Dusheke
Publicity	Craig Habeger
Web Page	Jeff Jensen
Yearbook	TBD

If you have colleagues who have not joined ASM or AFS, encourage them to do so! It is a great opportunity to make friends, identify mentors, and achieve your career goals. For more information on membership benefits and application procedures please see <http://www.asm-afs-peoria.org/>

As always, if there are events that you would like me to add, or if you have any general questions, please let me know. Thanks!

Craig Habeger  
 2009-2010 Publicity Chairman  
 ASM-AFS Central Illinois Chapter  
 Habeger\_Craig\_F@CAT.com