



CENTRAL ILLINOIS CHAPTER



PEORIA CHAPTER ASM



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2009-2010 Yearbook



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ASM INTERNATIONAL MISSION STATEMENT

ASM International is a society whose mission is to gather, process, and disseminate technical information. ASM fosters the understanding and application of engineered materials and their research, design, reliable manufacture, use and economic and social benefits. This is accomplished via a unique global information-sharing network of interaction among members in forums and meetings, education programs, and through publication and electronic media.

PEORIA



CHAPTER

AFS INTERNATIONAL MISSION STATEMENT

AFS assists member companies and individuals to effectively and efficiently manage all production operations, to profitably market their products and services, and to equitably manage their employees. AFS also promotes the interests of the foundry industry before the legislative and executive branches of the federal government. With the direction of its volunteer committee structure, the professional staff of AFS provides support in the areas of technology, management and education to further activities that will enhance the economic progress of the metal casting industry.

The mission of the American Foundry Society today is “to provide and promote knowledge and services that strengthen the metal casting industry for the ultimate benefit of its customers and society”

The American Foundry Society is members working together through committees-Members identify the future technological and management needs of the industry; recommend the acceptance of AFS research proposals; sponsor technical and management conferences and the Government Affairs Conference;determine the annual Congress program, including the review of papers; and provide staffing for educational coursed through the Cast Metals Institute.



MESSAGE FROM THE CHAIRMAN

It's been my great pleasure to serve as the Chairman of the Peoria chapter of ASM and the Central Illinois AFS chapter over the past year. Once again, our ASM/AFS chapter was faced with a challenging year in terms of how we would fund our initiatives on a long-term basis given the economic downturn. After initially projecting a large budget



deficit, I am pleased to report that we ended up at an almost break-even point. Best of all, we were able to do this without compromising on the scholarships and other activities we use to promote materials throughout the area and beyond. In addition, we were once again given the 5-star chapter award from ASM.

Of course, this wouldn't be possible without the continued support from the many volunteers that our chapter is lucky to have. Our committee chairmen and members have put in many hours to make the committees like MEI and Education so successful (just to name a few). Because of their efforts, we were able to once again provide or help fund activities like the following:

- Materials Camp for High School Students (Held at Bradley and Caterpillar Inc.)
- Materials Camp for High School Teachers (Held at University of Illinois, Urbana-Champaign)
- Corrosion Education Seminar
- Material Properties Education Seminar
- 3 MEI Courses - all taught by local members
- Engineering Week Materials Demos at Lakeview Museum
- Bradley University Manufacturing Eng. Student Scholarship

We also had eight technical meetings during the year with three focused on foundry topics. The other five were a broader range of materials topics including coatings for replacement of hexavalent Cr-plating and materials for national security applications. They were all very informative and interesting.

Finally, the guidance of the Executive Committee helped us keep focused on providing these activities and scholarships that are part of our mission. It would have been easy to cut some of these and wait for better times, but I think we made the right decision to keep moving forward.

I'd like to express my gratitude to all those that participated this year and made it another successful year despite all the challenges we faced. Thanks!

Your Proud Chapter Chairperson,
Michael Pollard

OFFICERS AND EXECUTIVE COMMITTEES

2009 – 2010 Officers



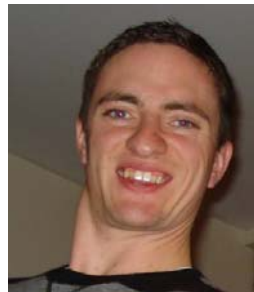
Chair: Michael Pollard



Vice-Chair: Chad Siebenaler



Treasurer: Patrick Zhao



Secretary: Eric Morgan

Executive Committees

2008 – 2011

Ken Burris
Tom Clements
Darrell Davis
Jennifer Mager
David Akers

2009 – 2012

Mike Pershing
Scott Avis
Jackie Earle
Alexey Sverdlin
Michael Johnson

2010 – 2013

Mike Pollard
Bud Harvey
Ric Woldow
Gary Biltgen
Dave Lugari

ASM PEORIA CHAPTER COMMITTEE MEMBERS

2009 – 2010 Chairs

Finance: Scott Wiseman/Mike Pershing

Membership: Zack Birky

Publicity / Newsletter: Craig Habeger

Program: Jennifer Mager

Arrangements: Bob Bierman

Reception: Ryan Dusheke

Student Outreach: Chirayu Garud / Ally Stahl

Education: Olly Rowan

Long Range Planning: Chad Siebenaler

MEI: Jon Soole / Jeff Werner

Sustaining Members: Jim Barlow

Social Young Members: Maggie Leinberger

Social Young Members: Wade Ballinger

Golf Outing: Ryan Boerger

Materials Camp: Zayna Connor / Karen Raab

Web Page: Jeff Jensen

Historian: Wally Hines / Bud Harvey

Nominating: Dave Akers

Bradley University: Iqbal Shareef

Yearbook: Nate Philips / Joshua Bero

ASM Peoria Chapter

**2009 – 2010
Year in Review**



***ASM Five Star Chapter
Award Recipient***

2009 – 2010 YEAR IN REVIEW

THE SEPTEMBER 2009 MEETING

The first meeting hosted by the chapter was a AFS-ASM technical meeting.

Dr. Doru M. Stefannescu from Ohio State University gave a technical talk on the effect of mould/metal interface phenomena on the surface quality of castings. The presentation covered the main findings of Dr. Stefannescu's research in the field of casting skin management in iron castings. The talk also covered the physical and chemical interactions active at the mould/metal interface, their effect on the casting surface and subsurface, and the associated microstructure and mechanical properties

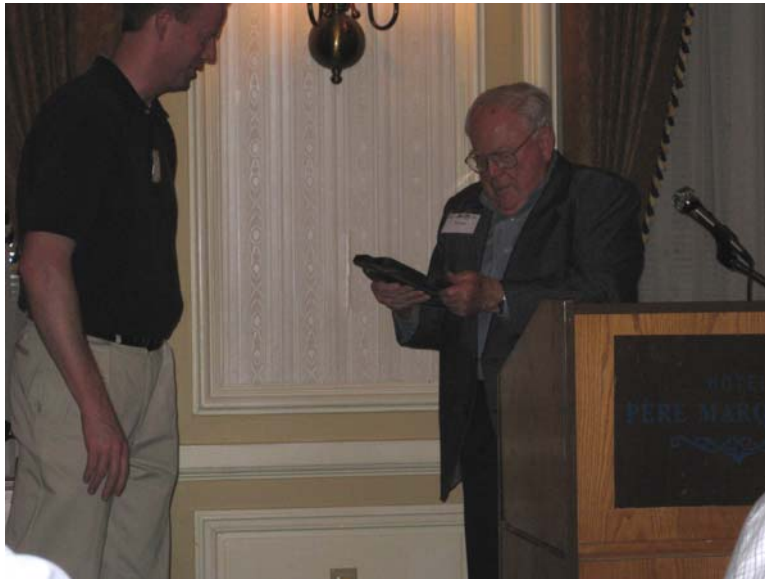


2009 – 2010 YEAR IN REVIEW

THE OCTOBER 2009 MEETING

The October 5th meeting hosted by Durabar was a AFS-ASM technical meeting.

Dr. Carl R. Loper, Jr. retired from his position as Professor of Materials Science and Engineering at The University of Wisconsin-Madison, gave a technical talk on graphite morphology in cast iron and its affects on physical and mechanical properties. The talk also covered graphite crystal structure as it relates to the development of various forms of graphite. An understanding of the factors influencing graphite shape, size and distribution is essential for optimum control of iron castings.



2009 – 2010 YEAR IN REVIEW

THE NOVEMBER 2009 MEETING

The November 9th meeting hosted by the chapter was a AFS-ASM technical meeting.

Dr. M. Brad Beardsley joined Caterpillar Inc. in 1977 and has worked in the areas of heat treat, gear technology, casting, fatigue, fracture and thermal spray technology. He has been responsible for developing applications of thermal spray coatings for Caterpillar applications. Some of these applications include coatings for remanufacturing as well as coatings for chrome plating replacement. The technical talk covered hexavalent chrome replacement using HVOF and the integration of thermal spray technology into the manufacturing process. The cost of thermal spray technology compared to traditional surface engineering treatments is a significant barrier even though it may provide superior performance.



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2009 – 2010 YEAR IN REVIEW

THE JANUARY 2010 MEETING

The January 11th meeting hosted by the chapter was a AFS-ASM technical meeting.

Dr. Von L. Richards is an Associate Professor of Metallurgical Engineering at Missouri University of Science and Technology. He gave a technical talk on aging and machinability of irons with compact and spheroidal graphite. The talk covered the measurement methods used, the type of machining performed, and the effect age strengthening. It was shown that cutting forces are sensitive to precipitation hardening that takes place during natural aging.



2009 – 2010 YEAR IN REVIEW

THE FEBRUARY 2010 MEETING

The November 9th meeting hosted by the chapter was a AFS-ASM-SWE technical meeting.

Matthew Maroon received his BS in Mechanical Engineering from Bradley University and is the manager of applied engineering at Firefly Energy Inc. His talk focused on start up companies and innovation. Innovation must be cultivated and allowed to thrive, but must also be controlled and focused.

THE MARCH 2010 MEETING

The March 8th meeting hosted by the chapter was a AFS-ASM technical meeting.

Dr. Robert Kusner an Engineered Products Marketing Manger for Brush Wellman's Alloy Product group, gave a technical talk on metallurgy/property relationships in Cu-15Ni-8Sn spinodal alloy. The talk covered recent advances in the fabrication of large section components for use in wear components of heavy machinery. Testing and field operation of plain bearings manufactured form this alloy were found to outperform other copper alloys, bearing steels and rolling element bearings.

2009–2010 YEAR IN REVIEW

March Social Outing: Peoria Rivermen vs. Lake Erie Monsters

On March 6, 2010, a social outing was held at the Peoria Civic Center. Many ASM members came together to watch the Peoria Rivermen take on the Lake Erie Monsters. The Peoria Rivermen beat the visiting Monsters 3-1 at Carver Arena.



2009 – 2010 YEAR IN REVIEW

THE APRIL 2010 MEETING

The April 12th meeting hosted by the chapter was a AFS-ASM technical meeting.

Dr. Robert S. Averback is the Department Head for Material Science and Engineering at the University of Illinois Urbana-Champaign and a Donald W. Hamer Professor. He discussed how the forced chemical mixing of atoms during either ion irradiation or severe plastic deformation leads to composition patterning, and the implications of patterning for strength and radiation resistance in materials.





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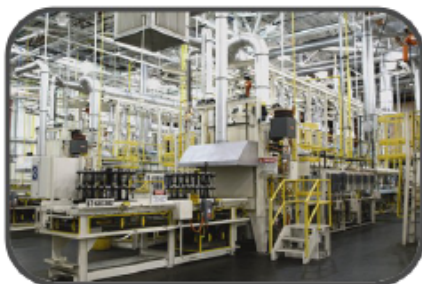


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2009 – 2010 YEAR IN REVIEW

THE MAY 2010 MEETING FINAL MEETING OF THE YEAR

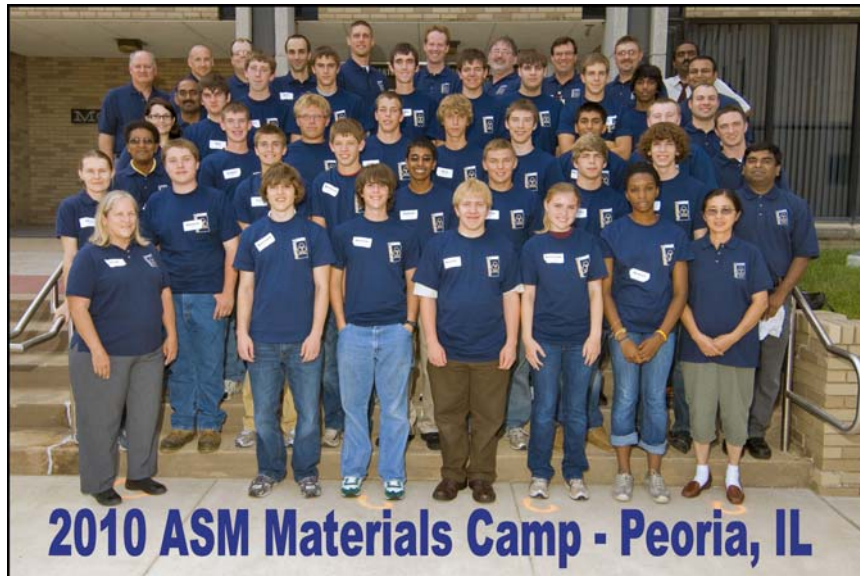
Last meeting of the year on May 10th was a AFS-ASM technical meeting hosted by the chapter.

Dr. Mark Smith is Deputy Director of Sandia National Laboratories' Materials Science & Engineering Center. He gave a talk on the advancements in science and technology and how they are playing an important role in the battle to enhance the safety and security of our nation. The presentation discussed some of the unclassified examples of national security related research and development activities at Sandia National Laboratories, with an emphasis on materials science and technology. The advances in materials and process science are enabling new high-technology local and remote sensors that will enhance our security by improving our ability to rapidly and inexpensively detect and identify potentially hazardous materials.

2009 – 2010 YEAR IN REVIEW

2010 ASM PEORIA CHAPTER MATERIALS CAMP

July 26-30, 2010



This was the fifth annual ASM Peoria Chapter Materials Camp. Highly motivated and inquisitive learners with an aptitude in math and science, along with energetic volunteers made this event a huge success. During this weeklong summer camp student utilized hands-on learning principles of applied math, physics, chemistry and materials science. Materials workshops, demonstrations, posters, field trips, a competitive game of Materials Jeopardy, and extensive involvement in laboratory facilities helped students to actively explore the principles of materials science and engineering. This camp was a very unique team-based and problem solving experience for students. The camp was highly appreciated and accepted. In fact, many students showed an interest to come back next year and participate again.

2009 – 2010 YEAR IN REVIEW

Materials Camp Agenda

Monday, July 26, 2010

Check In
Materials Engineering Workshops
Meet The Mentors

Tuesday, July 27, 2010

Arrive at assigned laboratory
Bradley vans drive students to lunch (Ming's, East Peoria)
Plant tour, CAT East Peoria BB Forge Shop

Wednesday, July 28, 2010

Arrive at assigned laboratory
Bradley vans drive students to lunch (Avanti's East Peoria)
Plant tour, CAT East Peoria SS Tractor Assembly

Thursday, July 29, 2010

Arrive at assigned laboratory
Bradley vans drive students to lunch (CiCi's Pizza, Peoria)
Plant tour, CAT Mapleton Foundry

Friday, July 30, 2010

Teams work on final presentations
Team Presentations and Graduation
Lunch for Students, Mentors, Parents

ASM Materials Camp-2010 Sponsors:

Caterpillar Foundation

ASM Materials Education Foundation

ASM Peoria Chapter

2009 – 2010 YEAR IN REVIEW

Materials Camp Teams & Mentors

Team: Mechanical Testing for Materials Selection

Mentor: Mike Pollard and Leonard Wheat

Michael Bodtke

Cody Durand

Slater Klien

Ahston Long

Griffin Polonus

Benjamin Roos



Team: CSI: Caterpillar Science Investigators

Mentors: Ryan Dusheke and Chris Richerson

Sameer Nagamiyan

Nathan Lorentz

Andrew Crank

Alec Gardner

James Leigh



2009 – 2010 YEAR IN REVIEW

Materials Camp Teams & Mentors

Team: Biopolymer Adhesives: Contact Angles v. Adhesion Forces

Mentors: Kim Ascherl, Girma Biresaw, Rick Haig, Linda Cao

Noris Akpan
Michael Clemons
Ben DeVore
Lochan Bellamkonda
Kaitlyn Holshouser



Team: Analysis of Debris from the Space Shuttle Columbia

Mentors: Xiadong Liu and Zach Birky

Nicholas Bjerke
Alex Arvizu
Nicholas Sekkema
Justin Hunter
Joseph Sydlowski
Joseph Muir



2009 – 2010 YEAR IN REVIEW

Materials Camp Teams & Mentors

Team: Are you “Tough” Enough?

Mentors: Scott Magner and Chandrasen Rathod

Connor Carpenter

Connor Boyle

Eric Motyl

Mayuresh Gadgil

Luke Williams



Special Thanks to Mentors and Volunteers for their time and dedication to make this camp a success!

2009 – 2010 YEAR IN REVIEW

ASM Scholarship Winners

Richard Van Pelt Scholarship: The intent of the Richard Van Pelt scholarship is to recognize and financially assist talented and dedicated students interested in a career in metallurgy and/or materials. It was established to encourage qualified students to take an active role in promoting the field of materials through active participation in ASM and UIMS. For 2009-10 year, Donald To was awarded a scholarship for \$1000.

Gerald G. Hoefft Scholarship for Bradley Students: The Gerald Hoefft scholarship is awarded to recognize and financially assist talented and dedicated students interested in a career in Metallurgy and/or Materials. It was established to encourage qualified students to take an active role in promoting the field of materials through active participation in ASM. For 2009-10, a scholarship amount of \$1000 was given to Nicholas Najdanovich

2009 – 2010 YEAR IN REVIEW

2009 ASM/MEI Metallurgy for the Non-Metallurgists

<u>Week</u>	<u>Lessons Covered</u>	<u>Instructor</u>
1	Introduction to Class	Chad Siebenaler
	Ch. 1 – Metals: A History	
2	Ch. 2 – Extractive Metallurgy	Chad Siebenaler
	Ch. 3 – Solidification of Metals	
3	Ch. 4 – Metal Forming	Scott Magner
	Ch. 5 – Mechanical Properties	
4	Ch. 6 – Steels & Cast Iron	Scott Magner
	Ch. 7 – Heat Treatment of Steel	
5	Ch. 8 – Case Hardening of Steel	Scott Magner
	Ch. 9 – Strengthening Mechanisms	
6	Ch. 10 – Nonferrous Metals	John Truhan
	Ch. 11 – Joining	
7	Ch. 12 – Corrosion & Corrosion Prevention	John Truhan
8	Ch. 13 – Quality Control and Failure Analysis	Ken Burris
	Ch. 14 – Materials Characterization & Selection	

***Special Thanks to the Instructors For
Their Time and Dedication!***

2009 – 2010 YEAR IN REVIEW

**Students for 2009 ASM/MEI
Metallurgy for the Non-Metallurgist**

<u>Name</u>	<u>Employer: Work Location</u>
Shane Miller	Caterpillar: East Peoria, IL
Carl Li	Caterpillar: East Peoria, IL
Michael Bonk	Caterpillar: Decatur, IL
Richard Rodriguez	Caterpillar: Waco, TX
Maurice Greer	Caterpillar: Waco, TX
Justin Harper	Caterpillar: Waco, TX
Allison Labraaten	Caterpillar: Mossville, IL
Jamaal Maxey	Caterpillar: Waco, TX
Colm M. Flannery	Caterpillar: Mossville, IL
Dong Fei	Caterpillar: Mossville, IL
Felicia Lynette Fondren	Caterpillar: East Peoria, IL
Ruben Liogon	Caterpillar: East Peoria, IL
Jim Clark	Caterpillar: Decatur, IL

Congratulations To The Students!

2009 – 2010 YEAR IN REVIEW

2009 ASM/MEI Heat Treatment of Steels

<u>Week</u>	<u>Lessons Covered</u>	<u>Instructor</u>
1	Introduction to Class	Patrick Zhao
	Steel & Its Mechanical Properties	
2	Microstructure & Mechanical Properties	Patrick Zhao
	Austenite & Its Transformation	
3	Hardening of Steel	Gary Keil
	Quenching Media & Equipment	
	Tempering of Steel	
4	Types & Construction of Furnaces	Tom Clements
5	Surface Hardening	Gary Keil
6	Surface Hardening	Tom Clements
	Induction Heat Treatment	
7	Instrumentation & Controls	Randy Conklen
8	Difficulties & Imperfections	Mike Pershing
9	Furnace Atmospheres	Randy Conklen

***Special Thanks to the Instructors For
Their Time and Dedication!***

2009 – 2010 YEAR IN REVIEW

**Students for 2009 ASM/MEI
Heat Treatment of Steel**

<u>Name</u>	<u>Employer: Work Location</u>
Shane Miller	Caterpillar: East Peoria, IL
James Barlow	Caterpillar: Mossville, IL
Troy Brown	Caterpillar: East Peoria, IL
Yongwei Zhu	Caterpillar: East Peoria, IL
Brent Fogal	Caterpillar: Pontiac, TX
Martin Ding	Caterpillar: East Peoria, IL
Donald Minga	Caterpillar: East Peoria, IL
Ronald Pierson	Caterpillar: East Peoria, IL
Tim Simonds	Caterpillar: Joliet, IL
David Blakeman	Caterpillar: Decatur, IL
Robert Bierman	Caterpillar: East Peoria, IL

Congratulations To The Students!

2009 – 2010 YEAR IN REVIEW

2010 ASM/MEI Failure Analysis

<u>Week</u>	<u>Lessons Covered</u>	<u>Instructor</u>
1	General Procedures for Failure Analysis	Ken Burris
2	Type of Failure and Stress	Tim McGreevy
3	Ductile and Brittle Fracture	Ken Burris
4	Fatigue	Ken Burris
5	Gear Failures	Ken Burris
6	Wear Failures	Padma Kodali
7	Corrosion Failures	John Truhan
8	Weld and Braze	Ken Burris

***Special Thanks to the Instructors For
Their Time and Dedication!***

2009 – 2010 YEAR IN REVIEW

Students for 2010 ASM/MEI Failure Analysis

<u>Name</u>	<u>Employer: Work Location</u>
Shane Miller	Caterpillar: East Peoria, IL
Shihong Zhang	Caterpillar: East Peoria, IL
David Blakeman	Caterpillar: Decatur, IL
Tim McGreevy	Caterpillar: East Peoria, IL
Jeremy Westrick	Caterpillar: Minneapolis, MN
Philip Burroughs	Caterpillar: East Peoria, IL
Joseph Lehtola	Caterpillar: Minneapolis, MN
Allyson Stahl	Caterpillar: Mossville, IL
Jon Soole	Caterpillar: Mossville, IL
Sarita Kuppili	Caterpillar: East Peoria, IL
Randolph Knight	Caterpillar: Decatur, IL
Emily Merrick	Caterpillar: Morton, IL
Kevin Dammann	Caterpillar: Mossville, IL
Steven Thompson	Caterpillar: East Peoria, IL
Rachel Dressler	Caterpillar: Joliet, IL
Jennie Garrison	Caterpillar: Mossville, IL
Robert Bierman	Caterpillar: East Peoria, IL
Chris Volle	Caterpillar: Decatur, IL
Justin James	Caterpillar: Decatur, IL
Adrian Catalina	Caterpillar: East Peoria, IL

Congratulations To The Students!

2009 – 2010 PROGRAMS

September 16, 2009

Technical Meeting

“The Effect of Mould/Metal Interface Phenomena on the Surface Quality of Castings”
Prof. Doru M. Stefanescu
Ohio State University

October 5, 2009

Technical Meeting

“Graphite in Cast Iron”
Prof. Carl R. Loper
University of Wisconsin-Madison

November 9, 2009

Technical Meeting

“Hexavalent Chrome Replacement Using HVOF”
Dr. M. Brad Beardsley
Caterpillar Inc.

January 11, 2010

Technical Meeting

“Aging and Machinability of Irons with Compact and Spheroidal Graphite”
Prof. Von L. Richards
Missouri University of Science and Technology

February 8, 2010

AMS-AFW-SWE Meeting

March 8, 2010

Technical Meeting

“Metallurgy-Property Relationships in Cu-15Ni-8Sn Spinodal Alloy”
Dr. Robert E. Kusner
Brush Wellman Inc.

April 12, 2010

Technical Meeting

“Mesoscopic Self-Organization in Driven Alloys: Materials for Extreme Environments”
Prof. Robert S. Averbach
University of Illinois at Urbana-Champaign

May 10, 2010

Technical Meeting

“Enabling Science and Technology for National Security Applications”
Dr. Mark F. Smith
Sandia National Laboratories



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