Joint ASM/AFS Meeting

Introduction to Powder Metallurgy Applications, Engineering and Careers

ASM-Detroit is pleased to welcome John Engquist, Manager New Business Applications at Burgess Norton Manufacturing Company in Geneva, Illinois which is a division of Amsted Industries.

Mr. Engquist has spent 39 years in Powder Metallurgy with experience in Manufacturing Management, Quality Control, Engineering Management, Technology and Applications Development.

Mr. Engquist studied Powder Metallurgy at Hennepin Technical College in Minneapolis, MN. He holds a BA in Management and Organizational Leadership from North Central College in Naperville, IL. He also holds patents in Soft Magnetic Composite material applications and methods including powder metal part manufacturing for Transmissions and Powder Metallurgy Gear finishing.

Mr. Engquist was presented the 2007 Distinguished Service to Powder Metallurgy Award and is President & member of the Center for Powder Metallurgy Technology. He has been at presenter at the Metal Powder Industry Federation (MPIF) giving basic short course and seminars. He also serves on the MPIF Technical Board and has served on the editorial review committee for the International Journal of Metallurgy.

This presentation briefly illustrates how Powder Metallurgy (PM) touches many common applications. A broad spectrum of technologies using metal powders will be presented. A brief discussion of the mechanisms for developing strength in uni-axial compaction and sintering along with engineering roles and career opportunities are offered. A collection of case studies demonstrates current applications for the technology. There is a serious but light-hearted look at some of the roles and skill sets engineers need to be successful and effective.

Meeting: Monday, March 11, 2013

Venue: Vladimir's, 28125 Grand River Ave., Farmington Hills
For reservations contact the Chapter Office at: (586) 573-0700 or email to asmdeetroitchapter@gmail.com before Friday, March 8.
Dinner tickets are $25 for members with reservations; $30 for non-members or those without reservations; $20 for retirees or the unemployed and $5 for students.
5:30 p.m. Social Hour • 6:30 p.m. Dinner • 7:00 p.m. Meeting
Chairman’s Message

As I sit here in early February composing my message to you, a bit sooner than normal to meet a number of deadlines, I am trying to predict if salutations of an early Spring would be appropriate or should I send out condolences on a typical Michigan winter lingering on? I have been told that we have 4 seasons: Almost winter; winter; still winter and road construction. Either way, I trust this Micro-Examiner edition finds that all is well with our Detroit Chapter members.

This March, we will have our first Student Mixer on March 28th in Ann Arbor. This will be our replacement, at least for the time being, for University Night. More information on the meeting is included in this newsletter.

We will also be hosting our annual joint ASM/AFS meeting on March 11th at Vladimir’s featuring Mr. John Engquist from Burgess Norton Manufacturing. Prior to our meeting, Mr. Engquist will have a half day seminar on Powder Metallurgy, details within this publication and on our website, asminternational.org/portal/site/detroit.

Just a reminder that our application deadline for student scholarship is available on our ASM-Detroit web site with an extended deadline. Please be sure to download this information for submission or contact our Chapter Administrator at asmddetroitchapter@gmail.com.

I am pleased to be serving as your Chapter Chairperson and welcome any comments or suggestions you may have to better serve the chapter membership. You may contact me anytime at asmdetroit.chair@gmail.com or through our Chapter Administrator, Caryn Ruzich at asmdetroitchapter@gmail.com.

The ASM-Detroit Chapter Thanks Our Social Hour Sponsor for Our March Meeting - AFC-Holcroft!

AFC-Holcroft has one of the most diversified product lines in the heat treat equipment industry. We are fully equipped to design, manufacture, ship, install, and service all types of custom and standard heat treat systems.

AFC-Holcroft is a privately held company, headquartered in Wixom, Michigan, USA. Our state-of-the-art facility is not only our engineering hub for global business, but also has a large manufacturing facility, custom built for the construction of heat treatment equipment.
Educational Seminar

On Monday, March 11th, the Detroit Chapter of ASM will present a half-day seminar on Powder Metallurgy to be conducted by Mr. John Engquist of Burgess-Norton and President of the Center for Powder Metallurgy Technology.

The half-day seminar will be an introduction in powder metallurgy (PM) with an applications focus showcasing the capability of the PM process for making intricate and functional designs. The seminar will be immediately followed by the ASM Technical Meeting in which Mr. Engquist will be the guest speaker and will discuss career opportunities in the Powder Metallurgy industry.

**Powder Metallurgy 101 “Shaping Value Added & Creative Solutions”**

Abstract: This presentation briefly illustrates how Powder Metallurgy (PM) touches many common applications. A broad spectrum of technologies using metal powders are presented. Detailed emphasis on mechanisms for developing strength in uni-axial compaction and sintering are presented. Design features and methodologies unique to PM are presented. PM Industry material standards (Standard 35) are discussed along with a variety of case studies and applications.

When: ..................... March 11, 2013
Time: ...................... 1:00 PM – 4:30 PM
Technical Dinner Meeting: ............................... 5:00 PM – 8:00 PM ET
Location: ........................ Vladimir’s
28125 Grand River Avenue
Farmington Hills, Michigan 48336

Cost: .......................... Pricing includes the Seminar, Technical Meeting, Social Hour & Dinner
$15 for Students; $50 ASM Members;
$60 for Non-Members

Reservations are required. E-Mail Caryn Ruzich at asm detroit chapter @ gmail.com or contact the chapter office at (586) 573-0700 by March 4th. Payment should be mailed to ASM-Detroit Chapter, P.O. Box 1398, Warren, Michigan 48090-1398. For more information please contact Eric McCarty at (248) 520-3009 or eric.mccarty1 @comcast.net.
Annual Past Chair’s Night (l to r)  
Gary Witt, Kathy Hayryanen, Ph.D.,  
Dale Wetzel, Thomas Kozina, James  
Coryell, Ronald Radzilowski, Ph.D.,  
Jason Coryell, Gern Maurer, Ph.D.,  
and current Chair, Phil Huber.

ASM-Detroit Hosts ASM International President (l to r)  
Phil Huber, ASM-Detroit Chapter Chair; Gern Maurer, Ph.D., ASM  
International President and Jason Coryell, immediate past Chair.

Student Mixer

Please join the Detroit chapter and students as we host our first ever student mixer! The mixer will be held on Thursday, March 28 at 7:30pm at Conor O’Neils in Ann Arbor, MI. It is the hope that this event will better allow students and professionals to network in a more relaxed and social setting. Drinks and appetizers will be served in lieu of a sit-down dinner. Reservations are $20 for members and $5 for students. Your reservation includes two drink tickets and appetizers.

We are in need of sponsors for this event. If you or your company is interested in sponsoring a portion of this evening, please contact Meghan Oaks (meghan.oaks@gmail.com) or Kac Trojanowski (ktrojanowski@rtlab.com). Sponsorship levels start at $150. Come ready to network with other chapter members as well as students from nearby universities.

ASM-Detroit Scholarships Available

The Young Members/Student Affairs committee is proud to announce that we have extended the deadline for scholarship applications to March 7, 2013!

The scholarships are available to current students at a Michigan university studying a materials science-related field or those graduating from high school and are interested in materials science. If you know anyone who fits this description, please encourage them to apply! For more information, email Meghan Oaks (meghan.oaks@gmail.com) or Kac Trojanowski (ktrojanowski@rtlab.com).
Micro-Examiner
Joint ASM/AFS Meeting
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5:30 p.m. Social Hour
6:30 p.m. Dinner
7:00 p.m. Meeting
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28125 Grand River Ave., Farmington Hills
For reservations contact the chapter office at (586) 573-0700 or email asmdetroitchapter@gmail.com before Friday, March 8th

ASM-Detroit Chapter 2012-2013 Officers & Executive Committee

Phil Huber...........Chair
Susan Hartfield-Wünsch.........Vice Chair
Manish Mehta, Ph.D............Secretary
Thomas Mackie.............Treasurer

James Boileau, Ph.D..........Attendance/Publicity
Eric McCarty...........Education/MEI/Round Table
Thomas Kozina.........Awards & Recognition & National Affairs
Jason Coryell...........Finance/Council of Fellows
Roger Pryor..........Membership/Sustaining Members
J.P. Singh.........Papers & Programs
Meghan Oaks.........Co-Chair, Young Members/Student Affairs
Kae Trojanowski........Co-Chair, Young Members/Student Affairs
Michael Blazejewski..........Entertainment

ASM-Detroit Chapter Office
Caryn Ruzich, Administrator
asmdetroitchapter@gmail.com
www.asminternational.org/portal/site/detroit
(586)573-0700

Calendar of Events

March 11, 2013
Educational Seminar on Powder Metallurgy - Afternoon
Joint ASM/AFS Meeting – Evening
Mr. John Engquist
Burgess Norton Manufacturing, Co.
Vladimir’s, Farmington Hills

March 28, 2013
Student Mixer
7:30 p.m.
Conor O’Neils, Ann Arbor

April 8, 2013
Dr. Drzal
Michigan State University
Vladimir’s