“The Evolution of Austempered Ductile Iron”
Tuesday, May 13, 2014

Minnesota Chapter ASM joins with the Twin Cities Chapter American Foundry Society on Tuesday, May 13th for its final monthly meeting of the 2013-2014 program year. Dr. Kathy Hayrynen, FASM, Director of Research and Development for Applied Process, Inc., will be the guest speaker presenting “The Evolution of Austempered Ductile Iron.” The Green Mill in Shoreview, Minnesota is the location for the joint meeting.

About the Topic
The first commercial ADI components in the US were produced in 1972, but it wasn’t until 1990 that the ASTM A897 Standard Specification for Austempered Ductile Iron was issued. The growth in application of this material continues as the database of its properties continues to develop. This presentation will discuss a brief history of ADI, its application and new developments in the ADI property database.

About the Speaker
Kathy Hayrynen has a BS, MS and PhD in Metallurgical Engineering – all from Michigan Technological University. Her graduate degrees focused on the production of ductile iron and ADI. She joined the Applied Process group in 1995 where she currently serves as the Director of Research & Development. The Applied Process companies are a group of commercial heat treaters that specialize in the Austempering process with locations in Livonia, MI and Oshkosh, WI as well as licensees in the United Kingdom, China and India. Kathy’s professional activities include:

- Fellow of ASM International
- Organizer of the annual ASM Teachers’ Camp in Ann Arbor
- Recipient of an AFS Award of Scientific Merit
- Immediate Past Chair of the AFS Cast Iron Division
- Immediate Past Chair of the Foundry Educational Foundation
- Director of the Detroit-Windsor AFS Chapter

(Meeting Information on Page Two)
Meeting Information

**Reservations:** It’s important to make reservations and equally important to make reservations **EARLY** for planning and catering. Reservations for the meeting are due on **Thursday, May 8th at 5:00 PM**, and they can be made by going to either [www.mnasm.org](http://www.mnasm.org) or [www.afstwincities.org](http://www.afstwincities.org).

**Refunds:** Refunds are not provided after the reservation due date because we are charged for it. If payment is not made online at the time the reservation is made, you will be invoiced for the reservation.

**Payment:** When you arrive, you or your company may pay by **credit card,** **cash,** or **check** made payable to "**AFS TC Chapter**." Discover, Master Card, Visa, and American Express are accepted. Payment is due at check-in.

**Hotel Information:** If you are planning an overnight stay, make your room reservation on your own by calling 651-482-0402 (The Hampton Inn is connected to the meeting area.).

**Membership:** For ASM Minnesota Chapter membership, contact one of the board members, email **joyclifford@comcast.net,** or go to [www.asminternational.org](http://www.asminternational.org). It is equally important to keep your profile updated and to not let your membership lapse.

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**Directions**

The Green Mill/Hampton Inn in Shoreview is located north of St. Paul off of Highway 694 and Lexington Avenue, off of the front-age road.

![Map of Green Mill/Hampton Inn](image)

Green Mill Restaurant
1000 Gramsie Road
Shoreview, MN 55126
www.greenmillshoreview.com

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- 3M
- MED-TEK, INC.
- Evans Analytical Group
- WINONA STATE UNIVERSITY

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MN ASM Materials Camp

Can you help?  We are looking for people who are able to donate time, talents, consumables, and money!  This year’s Minnesota ASM Materials Camp will be held on the University of Minnesota Campus from June 17-20.  The camp introduces the exciting field of materials science to students who have completed their sophomore and junior years of high school. More information about the camp is on line at www.mnasm.org/camp. If any members are interested in helping out with the camp, please contact Margaret Bush at  Margaret.Bush@gmail.com or cell 906-281-0861.

Dewar Needed for U of M Materials Advantage Chapter

The University of Minnesota Materials Advantage Chapter is looking for a 2 - 4 L dewar to use for transporting liquid nitrogen to outreach events/demonstrations.  Either a used dewar or the money to purchase a dewar is acceptable.  Estimated costs for a dewar are $600 - 800.

Materials Advantage is a student program that is a collaboration of ASM, TMS, ACerS, and AIST.  Effectively, the student chapters for each of these societies have combined.  Thus, the Materials Advantage chapter serves as our chapter’s tie to the University of Minnesota.

For more information, please contact Elin LaBreck at either 651-212-1744 or labre029@umn.edu.
<table>
<thead>
<tr>
<th>Meeting Date</th>
<th>Topic</th>
<th>Speaker</th>
<th>Meeting Location</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Wednesday</strong></td>
<td><strong>September 18th</strong></td>
<td><strong>TOUR of Pace Industries</strong></td>
<td><strong>Pace Staff</strong></td>
</tr>
<tr>
<td><strong>October 16th</strong></td>
<td><strong>Student - Industry Networking Event</strong></td>
<td><strong>Professor Mykoyan</strong></td>
<td><strong>U of M</strong></td>
</tr>
<tr>
<td><strong>November 13th</strong></td>
<td><strong>“Rotary Friction Welding” (Joint ASME)</strong></td>
<td><strong>David Hoel</strong></td>
<td><strong>Green Mill</strong></td>
</tr>
<tr>
<td><strong>December 4th</strong></td>
<td><strong>Transportation Materials Holiday Party</strong></td>
<td><strong>Kevin Western</strong></td>
<td><strong>Green Mill</strong></td>
</tr>
<tr>
<td><strong>January 15th</strong></td>
<td><strong>“Patent Law Changes”</strong></td>
<td><strong>Rakhi Nikhanj</strong></td>
<td><strong>Green Mill</strong></td>
</tr>
<tr>
<td><strong>February 26th</strong></td>
<td><strong>Annual Full Day Seminar “What’s New in Materials”</strong></td>
<td><strong>Various Speakers / Professional Dev. Hours Cert. Available (5)</strong></td>
<td><strong>Hennepin Technical College</strong></td>
</tr>
<tr>
<td><strong>March 27</strong></td>
<td><strong>Annual MinnTS (Technical Symposium)</strong></td>
<td><strong>Dr. Alexander Khoruts, U of M Dr. Donald Dengel, U of M</strong></td>
<td><strong>Medtronic Headquarters</strong></td>
</tr>
<tr>
<td><strong>April 16th</strong></td>
<td><strong>Past Chair Night / Scholarships / Awards</strong></td>
<td><strong>Dr. James C. Foley, ASM Trustee Los Alamos National Laboratory</strong></td>
<td><strong>Green Mill</strong></td>
</tr>
<tr>
<td><strong>May 13th</strong></td>
<td><strong>“The Evolution of Austempering Ductile Iron” (Joint American Foundry Society)</strong></td>
<td><strong>Dr. Kathy Hayrinen, FASM AP Westshore</strong></td>
<td><strong>Green Mill</strong></td>
</tr>
</tbody>
</table>

**2013-2014 MN Chapter Program Schedule**

**ASM INTERNATIONAL**