Detroit Materials

*Developing Advanced Nanotechnology Steels*

**Thursday – February 19, 2015**

Speakers: Pedro Guillen and Nick Moroz, Detroit Materials

**Topic:** The Development of High-Strength Low-Alloy Castable Steels for Lightweighting Applications

Detroit Materials is a start-up firm which is developing bainitic steels and austempered ductile irons, based on technology developed at Wayne State University. Their portfolio of patented steels show high strength, good elongation, and wear resistance achieved with low alloying element additions, meaning they can be highly cost effective. Pedro and Nick will discuss the properties and applications of these materials, and perhaps even the highs and lows of being a startup in a traditional Rustbelt industry.

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

**Time: Social Hour 5:30-6:15 p.m. (Cash Bar)**
Dinner 6:30 p.m.
Presentation will follow dinner

**Dinner Choices:** Chicken Cordon Bleu OR Stuffed Shells OR London Broil with Sherried Mushrooms

**Cost:**
- Members/Guests $25.00
- Students $10.00

**Reservations:** Stan Biernat, sbiernat@moog.com, 716-805-2285
Please make reservations by Monday – February 16, 2015
Chapter Update

In November ASM – Buffalo sponsored the annual Vendor appreciation night. The meeting was well attended and including 9 tables displaying the vendor’s literature, products and handouts. I would like to thank our venders for their supporting our chapter. ASM-Buffalo could not be sustained without your support.

The speaker was Britt Konczyk -Regional Sales Manager for H.C.Starck Fabricated Parts Division who spoke about Technology metals, also known as refractory metals. This was a very interesting topic and we thank Britt for her time and well done presentation.

We look forward to the February 19th meeting featuring speakers Pedro Gullen and Nick Moroz from Detroit Material speaking on "Bainitic Steels: High Strength, High Toughness and Inexpensive". Detroit Materials, Inc. is an advanced materials firm focused on the commercialization of ultrahigh performance structural materials. Detroit Materials has portfolio customizable high-strength low-alloy structural ferrous materials for demanding applications in the defense, off-highway, tooling, and transportation industries. Their materials provide cost and performance advantages over current high alloy materials. The combination of material chemistry and manufacturing process creates steel with an average 40% lower material cost and similar properties to exotic alloys such as boron, nickel and cobalt steels.

If you are unable to attend, please post the newsletter and encourage your colleagues to attend.

Kira Berent our Website chair continues to work on the ASM-Buffalo Website for the membership and others interested in learning more about ASM-Buffalo. ASM National is providing more website support and we will continue to grow this website in order to serve the membership and the WNY community. We hope to have links to our sponsor’s websites available soon. Please visit the website when you have time. [http://Buffalo.asminternational.org](http://Buffalo.asminternational.org).

We hope you find the remaining meetings and tours interesting.

Please let us know if you are interested in becoming an ASM-Buffalo Chapter Officer or Director.

Volunteers are welcome.

Tom Herdlelin - Chairman

ASM-Buffalo

---

**Buffalo Chapter Officers and Directors**

<table>
<thead>
<tr>
<th>Role</th>
<th>Name</th>
<th>Phone</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chairman</td>
<td>Tom Herdlelin</td>
<td>716-439-5308</td>
<td><a href="mailto:Tom.herdlein@ATImetals.com">Tom.herdlein@ATImetals.com</a></td>
</tr>
<tr>
<td>Vice Chairman - Program</td>
<td>Lee Gearhart</td>
<td>716-687-4475</td>
<td><a href="mailto:lgearhart@moog.com">lgearhart@moog.com</a></td>
</tr>
<tr>
<td>Treasurer</td>
<td>Herb Wilber</td>
<td>716-285-3833</td>
<td><a href="mailto:Herbert.Wilber@nah.com">Herbert.Wilber@nah.com</a></td>
</tr>
<tr>
<td>Secretary</td>
<td>Jayne Spanos</td>
<td>716-446-2269</td>
<td><a href="mailto:jayne.spanos@materion.com">jayne.spanos@materion.com</a></td>
</tr>
<tr>
<td>Web Page</td>
<td>Kira Berent</td>
<td>719-446-2299</td>
<td><a href="mailto:Kira.Berent@materion.com">Kira.Berent@materion.com</a></td>
</tr>
<tr>
<td>Director</td>
<td>Phil Aronica</td>
<td>716-282-6950</td>
<td><a href="mailto:phil@metlabcorp.com">phil@metlabcorp.com</a></td>
</tr>
<tr>
<td>Director</td>
<td>Mary Jane Hornung</td>
<td>716-560-8769</td>
<td><a href="mailto:mhornung@weldedtube.com">mhornung@weldedtube.com</a></td>
</tr>
<tr>
<td>Director</td>
<td>Tim Kosto</td>
<td>716-439-6570</td>
<td><a href="mailto:tkosto@milward.com">tkosto@milward.com</a></td>
</tr>
<tr>
<td>Director</td>
<td>Stan Biernat</td>
<td>716-805-2285</td>
<td><a href="mailto:sbiernat@moog.com">sbiernat@moog.com</a></td>
</tr>
<tr>
<td>Director</td>
<td>Tim Gelnett</td>
<td>716-542-5552</td>
<td><a href="mailto:tim@nsm-ny.com">tim@nsm-ny.com</a></td>
</tr>
</tbody>
</table>
Niagara Specialty Metals
www.nsm-ny.com
(716)542-5552
12600 Clarence Center Rd, Akron, NY

Robert Shabala, President bob@nsm-ny.com
Timothy Gelnert, Vice President tim@nsm-ny.com
Jeff Rich, Sales Manager jeff@nsm-ny.com

Niagara Specialty Metals is a manufacturer of hot rolled sheet and plate. We stock several grades of alloyed steel for immediate production. We also process customer owned material by hot rolling, flattening, cutting and heat treating.

We specialize in custom sizes and fast deliveries for any size order. Visit our website at nsm-ny.com for a complete list of grades and services as well as pricing.
Thank you to all our advertisers!!! Your advertising dollars are used to maintain the viability of the Buffalo Chapter of ASM International. They are used to support chapter activities such as defraying dinner meeting costs, speaker awards and to fund scholarships for outstanding students in the materials science field. The Buffalo Chapter could not exist without your support!!!

We encourage our membership to patronize our advertisers.

Mark you calendars for our advertiser appreciation night, November 13th.
Support our 2014 – 2015 Advertisers!

IMR Test Labs offers high-quality, accredited materials testing. We are fast and accurate, with most routine work turned in three days or less. Contact us today for a quote or more information!

- Chemical Analysis
- Corrosion Simulation
- Failure Analysis
- Fatigue Testing
- Mechanical Testing
- Metallurgical Analysis
- Polymer & Composite Testing
- Weld Qualification

1-607-533-7000
Ithaca, NY • Louisville, KY • Portland, OR
Singapore • Suzhou, China • Derby, UK

MetLab Corporation

METALLOGRAPHY www.metlabcorp.com TRUSTED SINCE 1968
Support our 2014-2015 Advertisers!

ThermoFisher
Scientific
1400 Northpoint Parkway
Suite 10
West Palm Beach, FL 33407

Brian Litteer
Sales Engineer, Northeast
Thermo Fisher Scientific
Bulk Elemental Products - X-Ray - OE

(978) 760-7314
brian.litteer@thermofisher.com
www.thermoscientific.com
2014 – 2015 PROGRAM
Below are the upcoming meetings tentatively planned for the upcoming program year.

September 16, 2014:
Plant Tour: ATI Specialty Metals

October 2014: TBA

November 2014:
Vendor’s Night- Talk: Refractory Metals – Britt Konczyk from HC Starck

December 2014: TBA

January 2015: TBA

February 2015: Detroit Materials

March 2015: TSC Joint Meeting – Buffalo Manufacturing Works

April 2015: Student Night

May 2015: Golf Outing

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