GM Performance and NASCAR

At the Joint AFS/ASM Meeting on April 19th, 2018 Chris will discuss why and where GM races as well as highlights of the 2017 race season results. He will also discuss casting requirements for race engine hardware.

Chris Cogan is currently the Engineering Group Manager of Race Engine Programs at the Global Propulsion Systems Performance and Racing Center based in Pontiac, Michigan.

Chris has been with General Motors for nearly 18 years, and has held various positions within Manufacturing, Manufacturing Engineering, Product Engineering and now Advanced Engineering. Most of his experience has been within the metal casting sector.

He earned a Bachelor’s degree in Electrical Engineering Technology from Kent State University, and a Master’s of Science in Manufacturing Operations from Kettering University. Chris has a wife, Cecilia, and three daughters.

American Polish Cultural Center

ASM/AFS Joint Dinner Meeting
Thursday, April 19, 2018 • 5:30 – 8:00 p.m.
Speaker: Chris Cogan  Topic: GM Racing
Location: American Polish Cultural Center (see map above)
2975 E. Maple Rd., Troy, MI 48083
Social Hour: 5:30 pm • Dinner: 6:30 pm • Announcements: 7 pm • Speaker: 7:15 to 8 pm
$35 Members and Non-Members; $25 Retirees/Unemployed/Students.
For reservations contact the Chapter Office at 586-944-5656 or e-mail to asm.det.ro@ms.com before Thursday, April 12th.
A Note from Chair Kae Trojanowski

Spring is here! In Michigan, there are many subtle indicators such as the days growing longer or the temperature warming slightly but it is the arrival of Girl Scout Cookies that shouts spring has arrived. The chapter is pleased to announce that this May we will be partnering with the Girl Scouts of Southeastern Michigan (GSSEM) to offer an opportunity to earn a Materials Girl Patch. This is the first time the Detroit Chapter has worked with GSSEM. The program will be held at the Ford R&D facility and it is estimated that over 75 girls will attend. The girls will have the opportunity to learn about Material Sciences and perform several materials related experiments. Registration information will be posted on the GSSEM site. We are excited that this program is being offered here in the Detroit area. As with any program, we could use a few volunteers. In order to provide a great experience for the girls we need to find about 10 more volunteers. If you’d like to offer your time on Saturday May 12th please let us know by emailing asmdetroitchapter@gmail.com

With sadness, I’m relaying the news that on March 7, 2018 Tom Mackie passed away. Tom had been a member of ASM since 1958 and was a chapter treasurer for over 10 years. At our March meeting, we observed a moment of silence to honor him.

The next opportunity for us to gather as a society will be at the joint AFS/ASM meeting. Each year we take turns hosting the event. This year the event was planned by the AFS team. The meeting will be on April 19 at the American Polish Cultural Center. The speaker will be Chris Cogan speaking about the GM racing Program. Registration information can be found on page 1.

In closing, if you haven’t had the opportunity to renew your membership please click this link. Completing your renewal is easy and only takes a few minutes. I look forward to seeing you at the joint AFS/ASM meeting on Thursday April 19th.

Safe Travels,
Kae Trojanowski
ktrojanowski@pridgeonandclay.com

2017-18 Season
ASM Detroit Chapter Schedule

April 19, 2018: ASM/AFS Joint Meeting
Chris Cogan - GM racing program
American Polish Cultural Center

May 14, 2018: Woodside Lecture
Susan Hartfield-Wünsch
Burton Manor, Livonia *please note location change

August 11, 2018: ASM/AFS Joint Golf Outing
Fellow Creek Golf Course - Canton

Volunteer Opportunities
May 12, 2018
Materials Girl Patch – Girl Scout Stem Outreach
Thank You to Our Social Hour Sponsor

We are pleased to announce that RTI Laboratories will sponsor the social hour event for our April 19th ASM/AFS joint meeting. We sincerely appreciate their support.

RTI Laboratories is one of the largest independent testing labs in the Midwest, specializing in chemical, materials and environmental testing. The laboratory was founded in 1986 by the publicly traded Detrex Corporation and was acquired by management in 1999. The laboratories are accredited by the American Association of Laboratory Accreditation (A2LA) per ISO/IEC 17025:2005. The company is organized in two divisions, Environmental Sciences and Materials Testing. The Environmental Laboratory has capabilities to analyze soil, water and air matrices for a wide range of organic and inorganic analytes.

The Materials Testing Division specializes in metallurgy and industrial chemistry. The analytical team has experience with metals, plastics, polymers, oils, paints and lubricants. Testing capabilities range from mechanical testing and metallography to failure analysis and more. The group has worked with the U.S. Military, major automotive companies, and several tier one suppliers.

For further information, please contact information@rtilab.com or visit www.rtilab.com

The ASM Detroit Chapter
Thanks It’s Sustaining Members for Their Continued Support!

Abtrex Industries Incorporated
AFC Holcroft
Ajax Tocco Magnethermic Inc.
AK Steel Corporation
ALD Vacuum Systems
Applied Process Incorporated
Atmosphere Heat Treating Incorporated
Bjerke Forgings Incorporated
Dinsmore & Shohl
Duplicate Corporation
Element Materials Technology
Engineered Heat Treat Incorporated
GM Global R&D Laboratories
Heatbath Park Metallurgical
Heat Treating Services
Induction Services
Inductoheat
Industrial Steel Treating
JEOL USA Incorporated
Kolene Corporation
Mager Scientific
Materials Technologies Consulting LLC
MetLab Corporation
Metro Weighing & Automation Incorporated dba Dura Pack Inc.
Michigan Metrology
MSU Libraries/Serials Acquistions
National Element Incorporated
Nitro-Vac Heat Treating Inc.
OMNI Metals Laboratory Incorporated
PARK THERMAL INTERNATIONAL (1996)
RTI Laboratories, Inc.
Sun Tec Corporation
Surface Combustion Incorporated
United Technical Inc.
United Testing Systems
Upton Industries Incorporated
Vac-Met Incorporated
SCHOLARSHIP WINNERS
College and University Scholarship Recipients

Our chapter is happy to announce that it awarded three $1500 scholarships to students pursuing a degree in materials science and engineering this year. The scholarships were presented at the March meeting. The Marion Semchyshen, James A. Mansfield, and Chapter Membership Scholarships were given to three students selected for their high scholastic achievement and their activities in the field of materials science or metallurgy.

Alexander Bonn received the James A. Mansfield Scholarship. Alexander is a junior at Michigan State University who has interned with the Illinois DOT and enjoys working with the SEM on campus.

Katherine Russell received the Chapter Membership Scholarship. Katherine is a junior at Michigan Tech and has interned for Neenah Foundry and ArcelorMittal. She wants to work in Quality or Process Control as a metallurgist after graduation.

Rachael Zarger received the Marion Semchyshen Scholarship. Rachael is a junior at Michigan State University who has interned with FCA and will do so again this summer. Rachael and her parents were able to attend the March meeting and we were happy to have them!

Angella Sell (17-18 Student Affairs Chair) presents Rachael Zarger with The Marion Semchyshen University Scholarship Award at the March 12th ASM Detroit Chapter Dinner Meeting

Help support ASM-Detroit and advertise!
CARBURIZE SOOT FREE

- Carburize faster, & more efficient at 1.50% C
- Save time, fuel, & energy with higher quality
- Run payloads instead of soot burnout time.
- Any furnace builder can install this system.
- New furnaces being built or old furnaces in operation. Just request the Endocarb System.

Heavy Carbon Co. will supply any company with equipment & patented technology to install & operate this system. Contact: heavycarbon@frontiernet.net

COMMERICAL Steel Treating Corporation

Providing the Best in Heat Treating and Metal Finishing Services.
Continuous & Batch Heat Treating - Age Hardening
Neutral Hardening - Case Carburizing - Carburizing
Solution Treat - Stress Relieving - Induction Hardening
Phosphating - Electrodeposition - Dip/Spin Coatings
248 588-3300
31440 Stephenson Highway, Madison Heights, MI 48071
www.commercialsteel.com

Surface and Tribology Testers
Christopher Getz
Midwest Sales Manager
Phone: +1.952.905.8775
Bruker.com/tribology

A special section for Detroit Chapter's members on the ASM International website.
asminternational.org/web/detroit-chapter/home | 586)944-5656 | asm detroitchapter@gmail.com
Science and Engineering Fair 2018

The 2018 Science and Engineering Fair of Metropolitan Detroit was held on Wednesday, March 14, 2018, at Cobo Hall in Detroit. Celebrating its 61st year, SEFMD had 2000 students from 125 middle and high schools prepare and present their research projects to over 500 professionals. ASM volunteers judged those projects focused upon the creation, development, and application of materials. The fair is divided into a Senior division (students in grades 9 – 12) and a Junior division (students in grades 6 – 8.)

The chapter is proud to recognize Anthony Pan, a senior at the University Liggett School, with the ASM-Detroit Chapter First Place Award. Anthony’s research focused on the feasibility of scalable inexpensive graphene supercapacitors. The chapter is also proud to recognize Alaina Hartford with an ASM-Detroit Chapter First Place Award. An eighth-grader at St. Patrick’s Catholic School, Alaina’s research focused on determining whether organic polymers could be created using bioactive compounds as a catalyst.

In addition to the first place awards, the judging team also awarded two second place awards to Alexander Mettler (Junior, Detroit Country Day Upper School) for his work on biodegradable, sustainable, and edible fishing lures to prevent the use of plastisol/petroleum lures in the Great Lakes and the “How the Concrete Crumbles” team (8th Grade, Orchard Lake Middle School) for their research into improving concrete strength for earthquake-resistant buildings. “How the Concrete Crumbles” Team members include: Corey Fein, Jacob Small, and Annika Kawabe. The two third place awards went to Nina Khaghany, Grace Endrud, and Akashi Bedi (Detroit Country Day HS) and Kayla Jones (Nolan Elementary-Middle School).

At our March 12th meeting, Ten ASM Detroit Chapter Sustaining Members were recognized. Front Row from Left to Right: Park Thermal International (Brian Reid), Materials Technologies Consulting (Eric Mccarty), Mager Scientific (Rodney Bentz), Element Materials (Nikki Tiernan), Omni Metals Laboratory (David Sponseller), General Motors (Dan Baker). Back Row from Left to Right: Michigan Metrology (Don Cohen), Dinsmore and Shohl, (Mark Harper), Applied Process (Angella Sell), and AK Steel, (Ron Radzilowski)

Alaina Hartford, An eighth-grader at St. Patrick’s Catholic School, received an ASM-Detroit Chapter First Place Award.

Anthony Pan, a senior at the University Liggett School, received the ASM-Detroit Chapter First Place Award.

Kae Trojansowski (17-18 Chapter Chair) and Alex Preisser (March 12th Tech Chair) Present Thomas Bell of Hitach with an ASM Detroit Chapter Speaker Award at our March 12th Dinner Meeting
ASM Detroit Chapter & AFS Detroit/Windsor Chapter
10th Annual Golf Outing
Saturday, August 11th, 2018

This year’s event will again be held Saturday, August 11th at the beautiful Fellows Creek Golf Course in Canton, Michigan.

The event is ASM-Detroit Chapter’s & Detroit Windsor AFS Chapter’s yearly fundraising project and is only made possible by our generous sponsors and golfers. This is a unique opportunity for local business owners and chapter members to promote their goods and services. It’s also a great place to network with others and have a great time.

RESERVE YOUR FOURSOME AND SPONSORSHIP NOW!!

**SIGN UP TODAY**

- $400 - FOURSOME ONLY
- $100 - SINGLE GOLFER

**PREMIUM SPONSORSHIP S**

- $500 – On Course Beverage Cart
- $500 – On Course Lunch
- $400 – Longest Drive Competition
- $400 – Closest to the Pin Competition
- $400 – Vegas Hole
- $250 – Hole Sponsorship

<table>
<thead>
<tr>
<th>PLAYER’S NAME</th>
<th>EMAIL</th>
<th>PHONE NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

MAIL TO:
Julie Nimer
ASM DETROIT CHAPTER
P.O. BOX 1398
WARRENT, MI 48090-1398

SCAN/EMAIL TO: asmdetroitchapter@gmail.com

MAKE CHECKS OUT TO: ASM - DETROIT

For General Questions & Comments, please contact:
Tim Stachowski
email: tjsilenus@yahoo.com
phone: 517-927-3637

ASM and AFS have a rich history in supporting the following: provide scholarships to university students; promoting career fairs, science fairs, and ASM’s annual teacher’s camp; visits to middle schools to encourage science and math careers.