A Note From Dr. James Boileau
Our New 2018-2019 ASM Detroit Chapter Chair

Summer brings changes – the days get warmer, the weekends get better, and family times get longer. And with these changes also comes the start of a new year for the ASM Detroit Chapter.

I have the good fortune of becoming the new chair of our chapter after years of strong leadership that has positioned us well for the future. I would like to thank and recognize Kae Trojanowski for all of her efforts in 2017-2018, especially in terms of her dedication to the chapter after taking a job in Grand Rapids in December. I would also like to thank and recognize both Mike Blaziejewski, for his many years of service as our chapter treasurer, and Dan Baker, who is our new treasurer. Alyn Gray, Jason Coryell, JP Singh, Thomas Kozina, Tim Stachowski, Manish Mehta, Eric McCarty, Carlos Prado, and Alex Preisser provided great support by heading our chapter committees. And, we welcome our newest members, Angella Sell and Alison Kuelz, to the board as well. The complete list of your board members and their committee positions can be found on page 2 of this newsletter.

The ASM Detroit chapter is proud to again recognize and support Kathy Hayrynen and Peg Jones. For the past 13 years, these ladies have grown and developed the Ann Arbor Materials’ Camp for Teachers into the premier experience it is today. The camp lets teachers learn about material science and provides them with laboratory experiments they can take back to their classrooms and develop future material scientists. This is part of ASM’s vision to increase awareness of materials science in the high school classroom. Our chapter is very pleased to support their efforts with a $2,500 grant to help run the camp and $1250 in grants to teachers for classroom supplies.

Two key events are coming up to get on your calendar. The joint ASM/AFS Golf Event is quickly approaching. Our most anticipated summer event, it will be held on Saturday, August 11th at Fellows Creek in Canton, MI. Sponsorship opportunities and registration information can be found in the following pages. On Thursday, September 20th, we will again have our annual ASM Student Night at Conor O’Neill’s in Ann Arbor. This is a casual evening, with the focus being on networking with the future of our profession.

The value of ASM membership lies in our chapter meetings. It provides us with an understanding of our industry, its challenges, and its advancements. Our Program Committee takes great effort to choose relevant topics that will interest our members. We have an exciting program planned for the coming year, including presentations on materials selection, high temperature alloys, biocomposite materials and more. Keep joining us this year; bring a friend or a potential new member as well! The list of meeting dates can be found on page 2 of this newsletter and on our website: http://www.asminternational.org/web/detroit-chapter/home.

Enjoy the summer!
James Boileau

ASM/AFS Joint Golf Outing
Saturday, August 11, 2018 • Fellows Creek Golf Course, Canton
Registration: 8:30 a.m. • Shotgun Start: 9 a.m.
Complete reservation form on pg 9 and email to asmDetroitChapter@gmail.com or mail paper copy to: ASM Detroit Chapter, PO Box 1398, Warren, MI 48090-1398.
All proceeds directly fund student scholarships and ASM Teacher’s Camp.
It’s Not Too Late to Join Us for the ASM/AFS Joint Golf Outing, August 11, 2018!

The Detroit Chapter of ASM International along with our friends at the Detroit-Windsor AFS Chapter invite you to join us for our Annual Joint Golf Outing, Saturday, August 11th. Registration - 8:30 am Shotgun start 9:00 am Fellows Creek Golf Course in Canton Cost: $100 per player. This Price Includes: *18 HOLES *GOLF CART *COURSE CONTESTS *BEVERAGES *LUNCH *DINNER *PRIZES *BASKET OF CHEER RAFFLE.

This outing is a great opportunity to have some fun on the links and help support the future of engineering here in Michigan. Proceeds from this event directly fund student scholarships and ASM Teacher’s Camp, so we encourage you to come out and bring a friend, client or colleague for a great day! For golf reservations, or to become a sponsor, please fill out the attached form and return it by email to the ASM Detroit Chapter office at asmdetroitchapter@gmail.com. You may also mail a paper copy of the form to ASM Detroit Chapter, P.O. Box 1398, Warren, MI 48090-1398.

2018-2019 Chapter Season Dates and Locations

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September 20, 2018 Professional/Student Mixer at Conor O’Neill’s

The ASM Detroit Chapter announces the 2018 Professional/Student Mixer on September 20, 2018 at Conor O’Neill’s in Ann Arbor, MI. This is a great event where Chapter Members can meet the up and coming talent in Materials Science from local universities and colleges in a casual environment. It also provides an opportunity for students to interact with professional leaders to discuss the various networking and scholarships opportunities ASM has to offer. Mark the day! Please plan on joining this social event, which provides a unique social opportunity for students and professionals and to discuss various carrier paths as Materials Engineers. To register, please email asmndetroitchapter@gmail.com.
May 14th Meeting Re-cap

Dr James Boileau, and FASM, Dr. Ronald Gibala, FASM, present Dr. Susan Hartfield-Wünsch, FASM, with an ASM Detroit Chapter Speaker Award.

We were honored to have five previous Woodside Lecturers attend the May 14th, 2018 meeting. Standing with Susan Hartfield-Wünsch, from left to right, Dr. Ronald Gibala, FASM, Dr. Robert McCune, FASM, Dr. Steven Lebeau, FASM, Dr. Ronald Radzilowski, FASM, and John Keough, FASM.

Students at the Woodside Lecture with ASM Detroit Chair Kae Trojanowski (L), ASM Detroit Vice-Chair Dr. James Boileau (RF), and Robert Ruffini, President of Fluxtrol (RR). Fluxtrol was our Student/STEM Sponsor for the 17-18 Chapter Season which helped offset the student dinner costs at our ASM Detroit Chapter Meetings.

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

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2017-2018 ASM Detroit Chapter STEM Outreach Sponsor!

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Thanks to FluXtrol’s generous donation we are able to offset the dinner cost at our monthly chapter dinner meetings for our STEM Outreach attendees. These attendees include: Teacher Scholarship Winners, University Scholarship Winners, Community College Scholarship Winners, Metro Detroit Science Fair Winners, and ESD Future City Winners.

College and university students can also attend our ASM Detroit Chapter dinner meetings for just $5 thanks to this generous donation!
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ASM International Recognizes Weld Mold In Historical Landmark Award Presentation

On Thursday May 17th, ASM International presented Weld Mold Company its prestigious ASM Historical Landmark Award for 2017. Attending the event were ASM International dignitaries, distinguished representatives from the city of Brighton and the state of Michigan, members of the press, Weld Mold officials and employees, and other invited guests. Weld Mold Company was recognized for developing and innovating the flood welding process for weld die repair. Matt Kilunen (1905-1990), Weld Mold Company founder (1945), was personally responsible for innovating the process, which took die repair to the next level—increasing die life while reducing customer costs.

From the Iron Bridge to the Statue of Liberty to the Eifel Tower in Paris, the ASM Historical Landmarks Designation recognizes sites and events that have played a prominent role in the discovery, development and growth of metals, metalworking and all engineered metals. Familiar company recipients have included AT&T, Republic Steel and General Motors.

ASM International is the preeminent association to engage and connect materials professionals and their organizations to the resources necessary for solving problems, improving outcomes and advancing society. It is the largest and most established materials information society in the world, providing reference content and data, education courses, international events, and research.

Weld Mold Company is an internationally recognized manufacturer that delivers high-quality custom solutions for general welding applications and forge welding. That includes a full line of specialty high-alloy welding electrodes, cored wire and solid wire product solutions for welding and flood welding, with specially designed machinery to facilitate the flood welding process. Weld Mold has offices in Brighton, Michigan, as well as in China and Korea.

For more information about Weld Mold receiving ASM's prestigious Historical Landmark Award, contact:

Sales at Weld Mold Company
750 Rickett Road, Brighton, MI 48116 USA
Phone: 1-810-229-9521 / Fax: 1-810-229-9580
Email: sales@weldmold.com
Website: www.weldmold.com

ASM Detroit STEM Outreach Event
Inaugural Materials Girl Patch Event

The Materials Girl Patch is designed to introduce Girl Scouts to the world of Materials Science and Engineering (MSE). After hearing of the event at the 2017 Leadership Days event, the ASM Detroit Executive Council chose to pilot the program as part of the Detroit Chapter’s continuing STEM Outreach activities.

On Saturday, May 12, 2018, the Materials Girl Event was held at Ford Motor Company’s Research and Innovation Center. Over 40 Girl Scouts and troop leaders attended the event, which drew upon volunteers from the ASM Detroit and AFS Detroit-Windsor Chapters. The event was organized in four modules.

The morning began with “Choosing The Right Material,” a 30-minute presentation that explained what MSE is and how it creates the “stuff” we use every day. Examples of this were given, including how recycled plastic bottles are spun into fibers for auto trunk carpets, why the Titanic sank, and how steel alloys form a car’s safety cage.

The morning continued with everyone participating in “Foundry In A Box,” a 45-minute hands-on activity that allowed the scouts to create their own casting. Using a set of patterns created by the AFS DW Chapter, the scouts were able to create a mold, pack bonded sand into it, and pour molten tin into the mold. Following solidification, the sand was broken away, the gate removed, and the rough casting was filed to final shape by the volunteers.

Following the casting, a set of 3, 15-minute long hands-on activities were held. “Materials In Action” began with the measurement of friction using blocks and inclined planes. Next, the effect of temperature on material properties was examined. Using liquid nitrogen, flowers, and gummy worms, the transition from ductile behavior to brittle and back to ductile was examined. Finally, the scouts (Continued on page 8)
Materials Girl Patch Event
Continued from page 7

were transformed into carbon molecules and placed in a “beaker.” Using short lengths of knotted rope to represent the bonds that develop during polymerization, the scouts were progressively linked together to form longer and longer molecules.

The scouts were then divided into small groups, each of which was paired with a young professional woman for a 20-minute open discussion on STEM. The volunteers discussed a variety of topics from what interested them in a STEM career, good high school/college courses, their current jobs, and what they find interesting about technology.

The event concluded with each scout being given their patch (right) as well as a parting gift of a water bottle, T-shirt, pen, and headphones, courtesy of Ford Motor Company’s STEM program.
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.

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