

SUMMER 2025

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Rajan Bhambroo
Materials Engineer
Tenneco Inc

Rajan Bhambroo, ASM Detroit Chapter Chair, 2025-26

YES! Summer is finally here in Michigan (golf anyone?). And as summer arrives, this newsletter reflects back on the past year's activities and looks forward to the next. But first, I would like to thank and recognize our outgoing Chair, Mark Harper. He did an amazing job in managing/overseeing numerous projects and activities of 2024/2025 Chapter year. Under his leadership, we've introduced innovative technical programs that honor our chapter's rich history while embracing the technologies of the future. In addition, many thanks to our chapter officers, Maxwell Mayhew, our new Vice Chair, Yi Liu, our new Secretary, Dan Baker, our current treasurer, and all the individuals heading up our chapter committees. A complete list of your board members and their committee positions can be found on page 4 of this newsletter.

This year's highlights includes the innovative programming where we explored new and interesting topics in the field of materials science and engineering. Of particular interest to the community was the presentation on application of Artificial Intelligence on battery material development. And finally, the increase in student attendance, a promising sign of ASM's future, was great to see and is worth noting. Thank you to all our faculty members from Wayne State University, Michigan State University, Schoolcraft, and University of Michigan for continuing to encourage and promote student participation in chapter meetings. We look forward to the continued improvement in student attendance in the upcoming chapter year.

Looking forward to the 2025/2026 year, we cannot help but recognize Kathy Hayrynen and Peg Jones for their continued efforts with the Ann Arbor Materials Camp for Teachers. This year Kathy and Peg will head up a camp with over 20 teachers learning about material science and performing laboratory experiments, with their newly gained knowledge to be presented in their classrooms to inspire future material scientists. Our chapter is very pleased to support their efforts with a \$2500 grant to help run the camp and \$1500 in available grants to teachers for classroom supplies.

In addition, the joint ASM/AFS Golf Event, our most anticipated summer event, is quickly approaching and will be on Friday, August 8th at Fellows Creek in Canton, MI. If you have attended before, we hope to see you again this year, and bring a friend! If you haven't had a chance to attend the annual golf outing yet, consider adding it to your calendar—it promises to be an enjoyable event.

And on Tuesday, September 18th, 2025, our annual ASM Student Night will be at Conor O'Neill's in Ann Arbor. This is a relaxed evening centered around connecting with the emerging professionals in our field.

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 makes great effort to choose relevant topics that will interest our members. We have an exciting program planned for the coming year, including presentations on "The Bay Bridge Bolt Failure Investigation" and more. The list of meeting dates can be found on page 3 and on our WEBSITE. See you soon and have a great summer!

AFFILIATED WITH



Annual ASM Detroit & DWAFS Golf Outing
Friday, August 8, 2025

2025-2026 ASM-Detroit Chapter

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Kathy Hayrynen
ASM Teacher's Camp

Peg Jones
ASM Teacher's Camp

You're Invited... ASM Materials Camp – Teachers @ Ann Arbor

The ASM Materials Education Foundation invites you to visit our Materials Camp – Teachers Open House. ASM Materials Camp is a powerful way to connect local educators with materials science and engineering (MSE) careers and industry. Your visit helps us support teachers in bringing real-world MSE applications and career exploration into their classrooms.

OPEN HOUSE DATES:

- Location: University of Michigan
- Tuesday, **July 15** from 1:00 – 5:00 PM
- Wednesday, **July 16** from 12:00 – 3:30 PM
(Join us for lunch at 12:00 PM and meet the teachers)

Please **RSVP** by contacting Kristie Maravalli, Campaign Director, to receive directions and event details for your visit to Materials Camp. Email kristie.maravalli@asminternational.org or call (440) 671-3813.



The ASM Materials Education Foundation team looks forward to introducing you to the dedicated educators who are making a real impact in advancing materials science education and building the future MSE workforce!

OTHER LINKS: [Video](#) [Website](#)

Join us for the Annual ASM Detroit & DWAFS Golf Outing – Aug. 8, 2025

Come and participate in the annual golf outing organized by DWAFS and ASM Detroit! The event will take place at Fellows Creek in Canton, Michigan on Friday, **August 8, 2025**. We'll begin at **9AM sharp** with a Shot-Gun Start, enjoy a delightful lunch on the course, and conclude the day with dinner, prizes, and a raffle in the afternoon. It's always a fantastic occasion, and we sincerely hope that you can join us this year!

To secure your spot, kindly send your completed golf outing form (page 8) to asmdetroitchapter@gmail.com by July 21, 2025. If you're interested in becoming a sponsor to support our mission of raising funds for Scholarships and Teachers Camps, or if you prefer to prepay for your golf tickets, please [CLICK HERE!](#)

ASM Professional/Student Mixer is back at Conor O'Neill's, Ann Arbor!

The Annual ASM Professional/Student Mixer Night is set for 6:00 PM on Thursday, **September 18th**, at Conor O'Neill's in the heart of downtown Ann Arbor. 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 scholarship opportunities ASM has to offer. Please plan on joining this social event, which provides a unique social opportunity for students and professionals to discuss various career paths as Materials Engineers.

AISI Announces Recipients of 2025 Market Development Industry Leadership Awards

Congratulations to JP Singh: An AISI 2025 Market Industry Leadership Award Recipient!

June 3, 2025, WASHINGTON, D.C. – The American Iron and Steel Institute (AISI) today presented two awards to recognize individuals who have made significant contributions to advancing the competitive use of steel in the marketplace — specifically in the construction and automotive markets. The awards were presented by Lourenco Goncalves, AISI Chairman and the Chairman, President and Chief Executive Officer of Cleveland-Cliffs Inc., at AISI's General Meeting held at the InterContinental Hotel-The Wharf in Washington, D.C. Goncalves presented the "2025 Market Development Industry Leadership Awards" to Dr. Michael Barker, professor of civil and architectural engineering at the University of Wyoming and J.P. Singh, technical integration engineer, steel, advanced manufacturing at General Motors.



"We are thrilled to celebrate Michael and J.P. for their outstanding leadership and steadfast dedication to championing the benefits of steel in the construction and automotive sectors. Their expertise is essential as we rise to meet modern challenges," said Goncalves. "Continuous innovation is vital for American steel producers to adapt to changing demands. We deeply value the enduring guidance and impactful contributions of these two remarkable individuals."

J.P. Singh is a technical integration engineer for steel and advanced manufacturing at General Motors (GM) and has played a vital role in advancing the use of steels in the U.S. automotive industry. Singh's career includes more than 15 years at GM and 13 years at Chrysler. His expertise has shaped material supplier development, manufacturing quality and specification advancements. Singh is an American Society for Metals International (ASM) fellow and has chaired the ASM Detroit Chapter. He also represents GM at the Colorado School of Mines' Advanced Steel Processing and Products Research Center, co-chairs the Society of Automotive Engineers (SAE) committee on advanced high-strength and hot stamped steels for SAE World Congress, holds four patents and is a trained Six Sigma Black Belt.

ASM Detroit Chapter 2025-2026 Program

- **September 18** – Student Mixer, Conor O'Neill's
- **October 13** – ASM & AFS Combined Meeting
- **November 10** – National Officers Night
- **February 9** – Membership Night
- **March 9** – Sustaining Members Night
- **April 9** – (Thursday) ASM & AFS Combined Meeting
- **May 11** – Woodside Lecture

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May 12th: Woodside Lecture



Seven of our past Woodside Lecturers attended the May 12th event. From L to R: Tom Prucha, FASM; Dr. Kathy Hayrynen, FASM; Dr. Manish Mehta, FASM; Dr. David Sponseller, FASM; Prof. Ronald Gibala, FASM; Dr. Ron Radzilowski, FASM; and Dr. Susan Hartfield- Wünsch, FASM.

Thanks to Dr. Don Cohen for speaking at the May 12, 2025 Woodside Lecture. From L to R: Dr. Mark Harper (24-25 Chapter Chair), Dr. Don Cohen, Speaker, and Dr. Ron Radzilowski, FASM, Tech Chair



IMAT/Heat Treat 2025 Minicamp at Huntington Place, Detroit!

The IMAT/Heat Treat 2025 Minicamp will be held at the Huntington Place on October 21st and 22nd in conjunction with IMAT and Heat Treat 2025. We will be demonstrating materials based experiments for over 200 high school students from around Metro Detroit.

We are looking for volunteers to help with getting the students to and from the busses, and helping with demonstrations. Please contact asmdetroit@gmail.com if interested!

The experiments in the past included:

- Foundry in a Box
- Polymer Powders
- Induction Heat Treating
- Hardness Testing
- Nitinol: A Shape Memory Alloy
- Brassing a Penny: Solid State Diffusion
- Lightweight Design through Materials Engineering Innovations
- Careers in Materials Science and Engineering

2024-2025 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 Detroit Chapter & AFS Detroit/Windsor Chapter



~&~



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.

Annual Golf Outing Friday, August 8, 2025

REGISTER YOUR TEAM TODAY!

DATE

Friday, August 8, 2025

TIME

Registration 8:30 am
Shotgun Start 9:00 am

PLACE

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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!