Welcome to December! As with previous years, we will not be having a December or January Technical meeting with so many people busy with the holidays, end of year travel and possible inclement weather. Our next meeting will be February 12, 2018 at the Livonia Marriott. Dr. Steve Shaffer from Bruker will be speaking at that event on “Friction Wear.” We hope to see you there!

On November 6th and 7th, we had a visit from Dr. Frederick Schmidt, our current ASM international President. On Monday, Dr. Schmidt held a workshop on Failure Analysis with over 60 attendees. Later, he spoke at our Technical Dinner meeting. Both events were held at the Gazebo Banquet Center in Warren. Many thanks goes to our workshop sponsors, Element Materials Technology, United Technical Incorporated, and RTI Laboratories. Also thanks to our Dinner Social Hour Sponsor, Schoolcraft College. On Tuesday, Dr. Schmidt and ASM Detroit Chapter Board members toured Materialise, a 3D printing facility in Plymouth. Next, they attended a Pizza Luncheon with UoFM MMS Students and faculty which Dr. Schmidt discussed advantages of ASM Membership. Finally, they toured Joyworks in Ann Arbor. We were glad to make his visit a very enjoyable and successful one. Photos of the tours and events are on page 3.

Based on feedback from the November 6th workshop with Dr. Schmidt, there is a definite interest for the ASM Detroit chapter to offer more workshops and seminars in the future. Future topics of interest include Additive Manufacturing Basics, Welding Basics and Failures, Hydrogen Embrittlement and Degradation, DLC/WC Coating technologies, Metallography Details and More Corrosion Workshops. If you would like to offer any additional input on future seminars, please email Julie at asm_detroitchapter@gmail.com.

I am pleased to announce our newest member of the ASM Detroit Chapter Board, Angella Sell, who will be joining as Young Members/Student Affairs Chair. She received her bachelors and master’s degrees in Metallurgical Engineering in 2010 from Missouri University of Science & Technology. She is currently a Research and Development Engineer for Applied Process – Technologies Division in Livonia, MI. We look forward to her participation on the ASM Detroit Chapter board, being a fairly recent graduate herself! Also, please see the articles in the newsletter about two upcoming YM/SA events in 2018, Future Cities and the Science Fair. We are looking for volunteers for both!

I hope everyone has a wonderful Holiday Season and look forward to seeing everyone in February!
EVENT: Monday, January 22, 2018
Chapter Members Needed to Judge “Best Use of Materials” Award

Please join the members of the ASM Detroit Chapter as we again judge the annual Future City Competition. As part of National Engineers’ Week, Future Cities gives middle school students a chance to envision a city in the year 2050, and to address the challenges that face it. This year’s theme is “The Age-Friendly City” and challenges student teams to identify an age-related challenge that exists in today’s urban environments and engineer two innovative solutions that allow their future city’s senior citizens to be as active and independent as they want to be.

The Future City Competition is being held on Monday, January 22, 2018 at the Suburban Collection Showplace in Novi, MI. The ASM Detroit Chapter has a judging team that awards the “Best Use of Materials” to one of the competing schools. In the past, we have had a judging team with 8 people; with this number, the judging goes quickly and smoothly for everyone. The judging begins with an orientation at 8 AM and will be finished by 11:30 AM. A complimentary breakfast and lunch are offered to each judge.

Please take the time to mark your calendar and volunteer be an ASM judge for this program; to do so, please email Angella Sell (asell@appliedprocess.com) or Julie Nimer (asmdetroitchapter@gmail.com).
November 6th Workshop & Dinner Meeting with Dr. Schmidt

Failure Analysis Workshop

Past ASM Detroit Chapter Chairs in Attendance from left to right: Dr. Frederick Schmidt (2017 ASM International President), Dr. John Tartaglia (05-06 Chair), Thomas Kozina (09-10 Chair), Dr. Susan Hartfield-Wunsch (14-15 Chair), Jason Coryell, (11-12 Chair), JP Singh (16-17 Chair), and Eric McCarty (15-16 Chair).

Visit to UofM with MMS Students and Faculty

Visit to Materialise, Plymouth, MI

November 7th Events with Dr. Schmidt

From left to right: Susan Tyner (ASM Detroit Chapter Teacher Scholar Winner), Dr. James Boileau (17-18 ASM Detroit Chapter Vice-Chair), William Cheeks (Ray and Mary Decker Community Scholarship Winner), Dr. Ray Decker, Alex Neal (Ray and Mary Decker Community Scholarship Winner), Michelle Compton (ASM Detroit Chapter Teacher Scholar Winner), Dr. Frederick Schmidt (ASM International President) and Kae Trojanowski, (17-18 Detroit Chapter Chair).

From left to right: JP Singh (Tech Chair for November 6th) and Kae Trojanowski (17-18 Detroit Chapter Chair) present Dr. Frederick Schmidt and ASM Detroit Chapter Speaker Award.
Two Scholarships Available to College and University Students in Materials

Our chapter is happy to announce that it will be offering two scholarships to students pursuing a degree in materials science and engineering.

The Marion Semchyshen and James A. Mansfield Scholarships will be given to two students selected for their high scholastic achievement and their activities in the field of materials science or metallurgy. The scholarships are for students that are sophomores, juniors, and first-year seniors.

Each scholarship consists of a $1,500 cash award and certificate, and will be presented at an ASM-Detroit Chapter meeting in March or April.

If you know of a college or a university student in materials science or metallurgy, please let them know of this opportunity.

The scholarship applications will be mailed to university advisors and posted on the ASM-Detroit website by January 7, 2018. In order to be considered, the applicants need to complete the form and return it to the ASM Detroit Chapter before midnight on Sunday, January 28, 2018.

Please take a moment and think of that outstanding co-op or student intern you know; send them email and encourage them to apply!

EVENT: Wednesday, March 14, 2018

Chapter Members Needed To Judge “Best Materials” Projects at the Science and Engineering Fair

Come see the Materials Scientists of the future.

The 61st annual Science and Engineering Fair of Metro Detroit will be held at Cobo Hall on Wednesday, March 14, 2018.

Each year, our chapter has sponsored a “Best Materials Project” award for both the Junior (6th – 8th grade) and Senior (9th – 12th) categories. To choose the awardees, a team of chapter members are needed to visit and judge the projects. The judging begins with an orientation at 8 AM and will be finished by 11:30 AM. A complimentary breakfast is offered to each judge.

Please take the time to be an ASM judge for this program; to do so, please email Angella Sell (asell@appliedprocess.com) or Julie Nimer (asmdetroitchapter@gmail.com).
As part of its Student Outreach Program, the ASM Detroit Chapter has created the Teacher Scholar Program to assist Materials Camp alumni in demonstrating Materials Science to their students. The Scholar Award consists of a $250.00 grant to the teacher to be used for the purchase of equipment and supplies needed to perform materials-related experiments.

The ASM-Detroit Chapter is proud to announce fourth class of Teacher Scholars; they are:

**Michelle Compton**  
(Cristo Rey HS, Detroit)  
Kathy Hayrynen Scholar

**Cody Thompson**  
(Franklin Height HS, Columbus, OH)  
Peggy Jones Scholar

**Daniel Davis**  
(Wayne Career Center, Smithville, OH)  
Detroit Chapter Scholar

**Martha James**  
(Elder HS, Cincinnati, OH)  
Detroit Chapter Scholar

**Laura Moore**  
(Hartland HS)  
Detroit Chapter Scholar

**Sue Tyner**  
(St. Joseph School, Lake Orion)  
Detroit Chapter Scholar

Their intended uses of the grants include the purchase of materials for studying phase transformations and copper crystal growth to casting Tin/Bi alloys.

The Chapter is also proud to name two of the Scholarships for Dr. Kathy Hayrynen and Dr. Peg Jones. Both ladies have greatly contributed to the formation, organization, and operation of the Materials Camp for Teachers in Ann Arbor for many years. In recognition of their extra effort and time given, the named Scholars are presented to the two teachers that are most determined to aid their students.

All of our recipients attended the Year 2 Materials Camp this past July in Ann Arbor, MI. This is for teachers that attended the Year 1 camp, put that experience into practice, and found that it worked so well they wished to return for additional training. The Ann Arbor camp drew teachers from a multitude of locations across the US.

Because of the Year 2 Camp, we have three winners from outside our chapter area. They teach in school districts with many challenges. The scholarship committee agreed that they should also be rewarded for their dedication to their students with a grant.

The ASM Detroit Chapter is proud of its Teacher Scholars and of our chapter members, who contribute to make such grants possible.

**Teacher Thank You:**

_Dear ASM Detroit Chapter,_

_I would like to thank everyone for the 2017 ASM Detroit Chapter Teacher Scholar Award. I am looking forward to making the giant clothespins learned at the materials camp this summer. The presentation by Dr. Schmidt was very informative. I enjoyed meeting and talking with the members and the meal was great. Pictures of students making the giant clothespins will be shared as soon as possible. Thank you again for your generosity._

_~ Sue Tyner_
2017-18 Season
ASM Detroit Chapter Schedule

February 12, 2018
Membership Night
Dr. Steve Shaffer - Bruker; Topic: “Friction Wear”; The Livonia Marriott

March 12, 2018
Sustaining Members Night
Dan Risner - Hitachi Metals; Southfield
St. John’s Banquet & Conference Center

April 2018
AFS/ASM Joint Meeting; TBD

May 14, 2018
Woodside Lecture; Farmington Hills Manor

Volunteer Opportunities

Future Cities: Chapter Members Needed to Judge “Best Use of Materials” Award on Monday, January 22, 2018.

Science Fair: Chapter Members Needed to Judge “Best Use of Materials” Award on Wednesday, March 14, 2018.
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