



Akron Chapter

Established in 1947

ASM Akron Chapter Meeting Date: January 15, 2020

Sponsor: TBA

Joint Akron ASM International and Akron ASME Meeting

Next Meeting: March 18, 2020 (Feb. Program is the 2020 Akron Area Engineer's Banquet, 02/20/2020)

Please contact David P. Houser, davidhouser519@gmail.com or phone: 330-414-7687 for reservations.

Reservations are requested no later than 3:00 pm on Monday, January 13, 2020.

Speaker: Jennifer Lillard PhD, Assistant Professor and Program Director of the Corrosion Engineering Technology program at the University of Akron.

Dr. Lillard earned her PhD in Materials Science and Engineering from the University of Virginia where she researched corrosion of aluminum beer cans (seriously). She also researched hydrogen cracking of nickel-based superalloys. Dr. Lillard was involved at Los Alamos National Laboratory for 15 years studying corrosion of uranium and developing models for material aging in nuclear weapons.

Topic: Drones Detecting Corrosion

How do you detect corrosion hotspots on an aircraft carrier? Or, how do you identify corrosion under miles and miles of pipe insulation at a refinery? Until recently, those inspections normally required that the inspection area was physically open to access for the inspection team and their inspection system devices. Now unmanned aerial systems (drones) and remotely operated vehicles are being used in conjunction with optical remote sensing and non-destructive evaluation techniques to generate three-dimensional corrosion models. If you add artificial intelligence analysis of the 3-D model, you can monitor the evolution of corrosion damage and carry out remediation activities before corrosion causes an unplanned shutdown or an accident. This presentation will cover advances in remote corrosion detection using a variety of examples from military, oil and gas industry, and energy sector.

Location: New Era Café, 10 Massillon Rd. Akron, OH 44312, 330-784-0087. Networking begins at 5:30 p.m., Dinner at 6:15 p.m. Presentation 7:15 p.m.

Cost: \$25 Members & Spouses, \$30 Non-Members/Guests, \$20 ASM Retirees, \$10 ASM Life Members & Students. Please note: Only cash or checks will be accepted, NO Credit Cards.

Dinner Buffet: Chicken Paprikas, Stuffed Pork Chops, Potatoes, Vegetables, Salad, Coffee/Soda/Iced Tea and Dessert. Please specify if you require a vegetarian dinner when you make reservation.



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ASM Akron Sustaining Members

[ASB Industries, Inc.](#)

[Akron Steel Treating Co.](#)

[Allied High Tech Products, Inc.](#)

[Solar Atmospheres of Western PA](#)

ASM Akron Chapter Officers 2019 – 2020:

Chair: Lou Cseko Jr. American Friction Technologies, Inc. lou.cseko@americanfriction.net

Vice Chair: Dave Houser, P.E. Babcock & Wilcox – Retired davidhouser519@gmail.com

Secretary: Deborah Curtis ASB Industries, Inc. deborah@asbindustries.com

Treasurer: Gene Homer P.E. Babcock & Wilcox – Retired ghomer@neo.rr.com

Executive Committee:

Education: Dr. Robert Shemenski, FASM RMS Consulting Inc. bobski646@gmail.com

Membership: Amit (AP) Pandey, PhD amitpandey02@gmail.com

Awards/Hospitality/Nominations: Dave Houser, P.E. davidhouser519@gmail.com

Student Affairs: Wayne Niehoff BWXTechnologies wayne.niehoff@sbcglobal.net

Engineers Week: Lou Cseko Jr. lou.cseko@americanfriction.net

Contributing Advisors: Dr. Rajeev Gupta University of Akron rgupta@uakron.edu

Materials Advantage Chapter: Benjamin Blazek University of Akron bb97@zips.uakron.edu

Robert Giebrel University of Akron rag81@zips.uakron.edu

NOTE: Make the January 2020 Meeting a success by inviting a co-worker to join us for the meeting. We need to continue to grow our attendance and to support our speakers.



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2020 Programs

February 20, 2020 – Engineer’s Week

March 18, 2020 – Thermal Spray Night

April 15, 2020 – Member & Student Appreciation Night

May 16, 2020 (11 am) - Stan Hywet Hall & Gardens

Stan Hywet is a notable country estate with gardens located at 714 North Portage Path in Akron, Ohio. It is one of the largest homes in the United States. A National Historic Landmark, it is nationally significant as the home of F. A. Seiberling, co-founder of the Goodyear Tire and Rubber Company.

Our tour will start at the Manor House with a short talk by their staff architect followed by a guided tour of the house. We will then be free to explore the grounds and gardens at our leisure for the rest of the day. The cost will be \$15 for adults and \$10 for youths 17 and under. Reservations can be made at any regular meeting or email ghomer@neo.rr.com



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