



Akron Chapter

1947

Established in

ASM Akron Chapter Meeting Date: November 20, 2019: ASM Trustee Night

Sponsor: TBA

*Please contact **Deborah Curtis**,
deborah@asbindustries.com for reservations.*

*Reservations are requested no later than 3:00 pm on
Monday November 18, 2019.*

Speaker: ASM Trustee Prof. Diana A. Lados, FASM - Milton Prince Higgins II Distinguished Professor Director, Integrative Materials Design Center Worcester Polytechnic Institute

Dr. Diana Lados is the Milton Prince Higgins II Distinguished Professor at Worcester Polytechnic Institute (WPI), and the Founder and Director of the Integrative Materials Design Center (iMdc), an industry-government-university consortium established at WPI in 2007, dedicated to advancing the frontiers of sustainable materials-process-component design and manufacturing for high-performance and reliability.

Topic: Design of Cold-Spray 6061 Aluminum Alloys for Fatigue Crack Growth Resistance in Structural Components, Coatings, and Repairs

Improved cold-spray processing conditions have led to significant mechanical properties increases, making these materials suitable for both structural components and coatings/surface-repairs with enhanced corrosion, fatigue, and fatigue crack growth resistance. Systematic fatigue crack growth studies were performed on helium-processed 6061 free-standing parts and coatings in as-sprayed, annealed, and T6 conditions, at room temperature and various stress ratios. The interfacial behavior between 6061 cold-spray coatings and wrought substrates was examined. These developments will be discussed for optimized design of structural components and coating/repair applications with cold-spray materials.

Location: New Era Café, 10 Massillon Rd. Akron, OH 44312, 330-784-0087



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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 Retirees \$10 Life Members & Students. Note: Credit Cards are not accepted.

Dinner Buffet: Chicken Paprikas, Swiss Steak, Potatoes, Vegetables, Salad, Coffee/Soda and Dessert. **Please specify if you require a vegetarian dinner with your reservation.**

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 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 Shemensi, FASM RMS Consulting bobski646@gmail.com

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

Awards/Hospitality/Nominations: Dave Houser 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



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

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

Program Year 2019 – 2020

No meeting in December – Happy Holidays

January 15, 2020 – Joint Meeting ASM/ASME

February 20, 2020 – Engineer's Week

March 18, 2020 – Thermal Spray Night

April 15, 2020 – Member & Student Appreciation Night

May, 2020 – Social Outing