



METALLAGRAM

LONG ISLAND CHAPTER



Volume 59 Issue 1

Chapter website: <http://www.matscieng.sunysb.edu/asm/>

WELCOME TO THE 2017-2018 YEAR

Next Meeting Wednesday, September 20, 2017

Where Pollo Rico Latin Bistro, Centereach, NY

Topic: Infrastructure and heavy machinery restoration enabled via additive manufacturing spray processing: Lifecycle design, structural reclamation, and methods for evaluation

**Speaker: Gregory M. Smith, Center for Thermal Spray Research,
Stony Brook University**

Social hour ... 6:00 pm Dinner ... 7:00 pm Meeting ... 8:00 pm

Members ... \$25 Guests ... \$27 Students ... \$15

(New and recently transferred-in members free)

Reservations appreciated – call Peter Indrigo at 631-589-6666

WELCOME TO THE CHAPTER!

Christian Bauer, Oerlikon Metco Vadim Ergardt, Parabit Systems Inc. Gavin Fischer, Cold Spring Harbor
David Hawley, Kings Park Lenny Marotta, MDS Cranial Facial Eng.

All new members, including those who have transferred in from another Chapter, are invited to dine free at a regular meeting of their choice. Please take us up on this offer - come along to the meeting and introduce yourself. This is an excellent way to meet with other Chapter members and to establish new business and social relationships in the area.

The Topic

Additive manufacturing and 3D printing have been heavily used in the recent vernacular as innovative and cutting edge processes, yet full implementation always seems to be just a few more years away. However, there are many highly successful additive materials and deposition technologies that are less well known to the general public and materials community, but in critical use all around us. In addition to additive processes such as laser cladding and welding, high velocity deposition processes like thermal spray and cold spray are currently used for restoration of worn out components in heavy machinery, military assets, and power generation equipment. These same spray processes have also been evaluated for use in infrastructure repair – a potential lifeline for the state of disrepair of infrastructure across the US. This talk will provide an overview of these spray processes, examples of successful applications, and a number of novel evaluation and characterization techniques that we hope will enable successful development and advanced applications.

Our Speaker

Originally from Philadelphia, PA, Gregory M. Smith graduated from Stony Brook as an undergrad with a BE in Engineering Science and a double major in Marine Science. At Stony Brook, Greg worked in two engineering focused research laboratories, and upon graduation undertook a year-long position in Sweden with a global aerospace company. He returned to Stony Brook, to the Center for Thermal Spray Research (CTSR) to pursue a PhD in Materials Science and Engineering, where he is currently supported through an Army TARDEC partnership, focusing on diesel engine coatings for enhanced efficiency, durability, and life. Various industrial projects at CTSR have enabled Greg to pursue research in understanding damage buildup and failure of thin coating structures, offering guidelines for future development. Greg is looking to expand his ability to interface with a broad community to enable technological developments through both academic and industrial partnerships.



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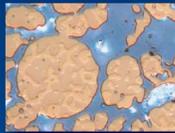
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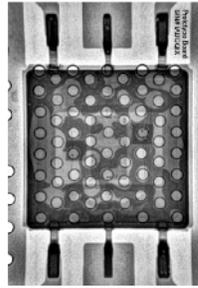
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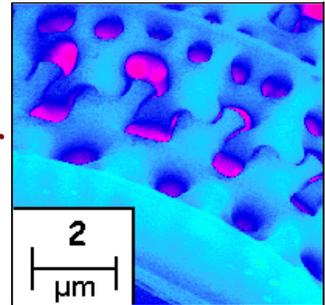
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Metro NY-NJ Chapter

<http://www.asminternational.org/web/metro-nynj-chapter/home>

Sept. 26, 2017 **Speaker, Topic: tbd**
Place: Meson Madrid, Palisades Park, NJ

Long Island Chapter Meeting Schedule

Oct. 18, 2017	Speaker: Mike Hemphill, DTB Topic: Contemporary Failure Analysis Study Place: Pollo Rico, Centereach
Nov. 15, 2017	Student Night Place: tbd
Dec. 13, 2017	Speaker: Jeff Brogan Topic: Bowling, surfaces and materials Place: Pollo Rico, Centereach