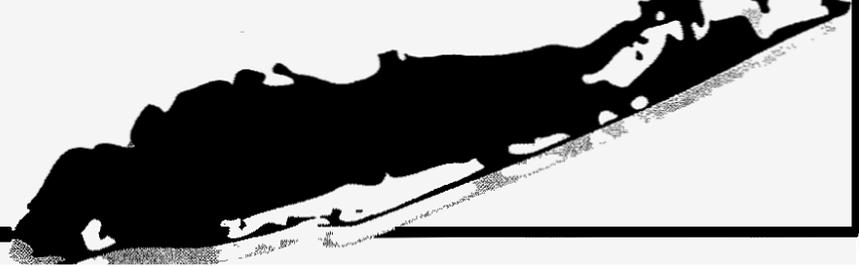




The Materials Information Society

LONG ISLAND CHAPTER

METALLAGRAM



Volume 60 Issue 7

Chapter website: <http://DoL1.eng.sunysb.edu/asm/>

SUSTAINING MEMBERS NIGHT

Next Meeting Wednesday, March 13, 2019

Where Pollo Rico Latin Bistro, Centereach, NY

Topic: Additive Manufacturing for the Department of Defense

Speaker: Matthew Wittlinger, BAE Systems

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

Directions to Pollo Rico Latin Bistro

Pollo Rico is located at 2435 Middle Country Road (Rte. 25), Centereach. Probably the simplest way to get there from the LIE is to take Exit 62 (Nicolls Road) and go north on CR 97 (towards Stony Brook). Continue north for about 3 miles then take the exit to Rte. 25. At the traffic signals at the end of the ramp go left and head west (Smithtown). The restaurant will appear after about 1.5 miles, on the right side of the highway. Their telephone number is 631-471-0585. Their website is: <http://www.polloricolatinbistro.com/>

Our Speaker

Matthew Wittlinger graduated with a B.S. in System Science and Industrial Engineering from Binghamton University. He is a manufacturing engineer at BAE Systems in Greenlawn, NY. BAE Systems is a multinational defense, security, and aerospace company. He provides engineering support for an aerospace transponder assembly line as well as being the site subject matter expert on Additive Manufacturing (AM). He has designed and built AM parts used in the factory as masking fixtures, poke-yoke fixtures, forming fixtures, manufacturing assembly aids, and concept/fit check models.

The Topic

Additive manufacturing, also referred to as 3D Printing, has proven that it can assist the Department of Defense (DoD) in many exciting ways. According to recent reports, the aerospace and defense 3D printing market is expected to surpass 4 billion by 2023 and is projected to increase 23.2 percent annually over the next five years. This emerging technology has enhanced capabilities in the warzone, in depot repair areas, in manufacturing facilities supplying the DoD, as well as in military part warehouses. In the war zone, 3D Printing has been used by the war fighter to print mission customized parts at the point of need, cutting down lead times needed for mission readiness. In repair depots, new repair capabilities are available thanks to the cold spray additive process. In manufacturing facilities, engineers use additive manufacturing to rapidly develop/enhance weapons systems and improve their repair capability. In military part warehouses, additive processes have minimized logistical footprints. Additive manufacturing is another tool for the DoD to leverage for the war fighter but it does have challenges to face that have slowed its progress, including material part and process validation & qualification. Standards and training in AM for DoD personnel are in development to ensure quality AM parts for DoD use.



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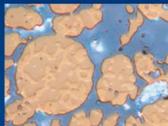
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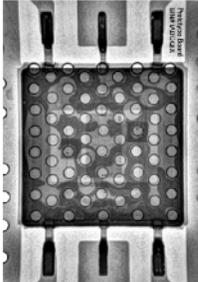
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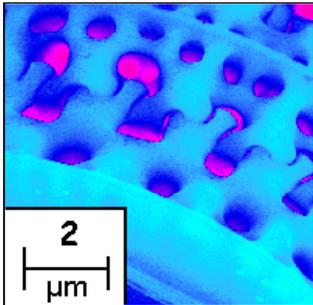
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Robert Harmon, Oerlikon Metco David Karayof, Ronkonkoma. Lisa Ann Prayor, Hempstead
 Marcin Kielkerwicz, Oerlikon Metco Patricia Reid, AMETEK Colin Rojas, Oerlikon Metco

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.



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March, 2019	TBA
April, 2019	Family Night Speaker: Susan Kazan Topic: Forensics of Material science
May, 2019	Plant tour (TBA)

Long Island Chapter Meeting Schedule

April 17, 2019	Student Night Oral and poster presentations Place: Old Field Club, East Setauket
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