



The Materials Information Society

LONG ISLAND CHAPTER

METALLAGRAM



Volume 58 Issue 1

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

WELCOME TO THE 2016-2017 YEAR

Next Meeting Wednesday, September 21, 2016

Where Pollo Rico Latin Bistro, Centereach, NY

Topic: From Laboratory Research to a Clinical Trial: Copper Alloy Surfaces

Kill Bacteria and Reduce Hospital-Acquired Infections

Speaker: Dr. Harold Michels, Copper Development Association

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!

Roxanne Conroy, Technical Search Group

Jorge Eduardo Peña Aguirre, CIMEX

James Weber, Sulzer Chemtech

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

There is strong body of evidence that bacteria, found on frequently touched environmental surfaces, play a role in infection transmission. In laboratory tests, greater than 99.9% of live bacteria were found to die quickly when placed on copper alloy samples. In a clinical trial, the amount of live bacteria on the surfaces of hospital components made of copper alloys, as well as those made from standard materials, was measured. It was found that the amount of bacteria seen on the copper alloy components was 83% lower, when compared to the bacteria levels found on surfaces made from standard materials. Finally, infection rates were tracked in the hospital rooms with the copper components and compared to those found in the rooms containing the standard components. It was found that the infection rates were reduced by a statistically significant 58% in patient rooms with components made of copper. In summary, bacteria die on copper alloy surfaces in both the laboratory tests and in the hospital rooms. Infection rates were lower in those hospital rooms containing copper components. Thus, based on the presented information, the widespread placement of copper alloy components in the built environment, may have the potential to reduce not only hospital-acquired infections and patient treatment costs but also save lives.

Our Speaker

Harold Michels is currently Advisor to the President, at the Copper Development Association in which he advocates the adoption of antimicrobial copper in healthcare. He initiated research that proved that copper surfaces kill harmful bacteria. He has authored and co-authored several papers published in peer-reviewed journals on antimicrobial copper and managed the US EPA registration of antimicrobial copper alloys. He also served as Principal Investigator for the US Department of Defense funded clinical trials that proved that antimicrobial copper alloys surfaces reduce infection rates.

Prior to joining the Copper Development Association, he held a variety of positions with Inco Limited, a leader in nickel mining. He started as a Research Metallurgist, and progressed through technical, marketing and management positions, including serving as President of the La Que Center for Corrosion Technology and Director of Corporate Strategic Planning reporting the President of Inco. He holds a BS in Mechanical Engineering from the City College of New York and MS and a PhD in Material Science from New York University. He is also a Registered Professional Engineer in New York and California. He has published 87 papers in on metallurgy, corrosion, and antimicrobial copper.



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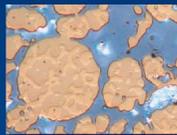
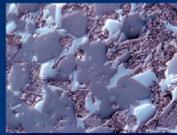


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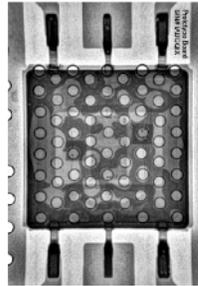
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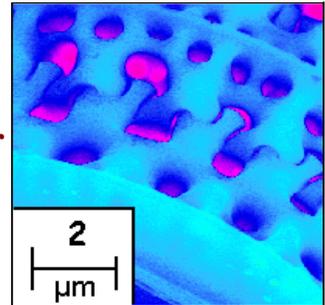
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Pollo Rico is located at 2435 Middle Country Road (Rte. 25), Centereach. Probably the simplest way to get there from the LIE is to take Exit 62 (Nicolls Road) and go north on CR 97 (towards Stony Brook). Continue north for about 3 miles then take the 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/>



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Long Island Chapter Meeting Schedule

Oct. 19, 2016 Topic: Sputter Materials
Speaker: Paul Gilman, PraxAir
Location: Pollo Rico, Centereach, NY

Nov. 16, 2016 Topic: Student Night
Posters and oral presentations
Location: Pollo Rico, Centereach, NY

Dec. 14, 2016 Companions Night
Topic: tbd
Speaker: tbd
Location: Pollo Rico, Centereach, NY

Metro NY-NJ Chapter

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

Sept. 20, 2016 Topic: Graduate Student Research
Speakers: Fei Chen, NYU Tandon School of Eng., and Ambar Deshkar, Rutgers Univ.
Location: Meson Madrid, Palisades Park, NJ

American Nuclear Society – Long Island Section

<http://local.ans.org/longisland>

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