



# METALLAGRAM

LONG ISLAND CHAPTER



Volume 60 Issue 6

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

## PAST CHAIRS NIGHT

**Next Meeting . . . . . Wednesday, February 20, 2019**

**Where . . . . . Pollo Rico Latin Bistro, Centereach, NY**

**Topic: Synthesis Techniques for Generating  $ABO_3$  Nanoscale Metal Oxides**

**Speaker: Coray McBean**

*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

Coray McBean received his PhD from the Department of Chemistry at Stony Brook University and graduated with a BS in Chemistry from the City University of New York, Brooklyn College. Much of his graduate work was focused on developing novel methods for producing nuanced metal oxide nanoparticles, particularly for energy-related applications. Just prior to graduate school he worked as an Analytical Chemist at Country Life Vitamins, Inc. His most recent work has been as a Technical Sales Engineer at CVD Equipment Corporation.

## The Topic

In the context of research science and popular culture, terms and phrases that incorporate the morpheme, 'nano', have gained a substantial amount of attention in the last two decades. The fundamental rationale behind the general intrigue resides in the notion that materials may take-on a new, or potentially enhanced, setup of properties when its crystal domain or particle size is reduced to the 'nano' regime. Of the vast array of metal oxides,  $ABO_3$  (where A and B are different metals) metal oxides feature a panoply of oxide species, altogether possessing a far-reaching list of properties. The speaker will discuss the synthetic protocols developed to generate nanoparticles having distinct, tailored morphologies, without the use of sophisticated tools. These synthetic protocols are modular in that various morphologically-tailored  $ABO_3$  nanostructures can be attained by simply changing the metal precursor. Electro-catalytic lanthanum nickel oxide ( $LaNiO_3$ ) and multiferroic yttrium manganese oxide ( $YMnO_3$ ) serve as model compositions.



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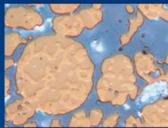
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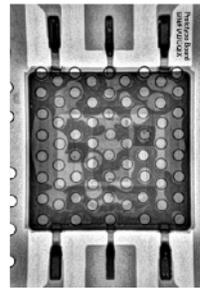
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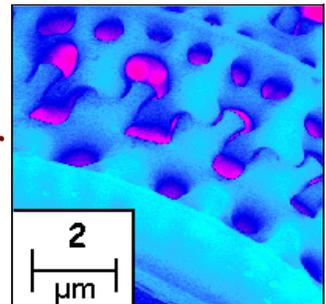
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## WELCOME TO THE CHAPTER!

Flavio Augusto dos Santos Serra, Sao Paulo      Alexandra Innes, Selden

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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**Long Island Chapter Meeting Schedule**

**March 13, 2019**     Sustaining Members Night  
Speaker: Matt Wittlinger, BAE Systems  
Topic: 3D Printing in the Aerospace Industry  
Place: Pollo Rico, Centereach

**April 17, 2019**     Student Night

**Metro NY-NJ Chapter**  
<http://www.asminternational.org/web/metro-nv-nj-hapter/home>

Feb. 7, 2019 – Garry Hoffman (3HTi) – 3D Metal Printing