

TRIAD CHEMICAL TIMES



Central North Carolina Section American Chemical Society

January Local Section Meeting

Dr Rigoberto Hernandez: "Nanoparticle models, macroscale impacts"

When: Thursday, January 30, 2020

Social: 6:00 pm, Meeting: 7 pm

Where: Joint School of Nanoscience and Nanoengineering, 2907 East Gate City Blvd, Greensboro, NC 27401



Upcoming Events

February 25, 2020: Local Section Meeting, site TBD

March 9, 2020: Senior Chemist Meeting, location TBD

March 27, 2020: Local Section Meeting, "Scientists who were Masons." Greensboro Masonic Temple, Greensboro.

April 2, 2020: 20th Annual Poster Vendor Night, Syngenta Auditorium, 3-7 pm

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CNC-ACS Website: <https://cnc-acs.org/>

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January Speaker Biography:

Dr. Rigoberto Hernandez is the Gompf Family Professor of Chemistry at Johns Hopkins University. His theoretical and computational chemistry advances in transition state theory, multi scale molecular dynamics far from equilibrium, Janus particles, steered protein dynamics, and diversity equity has received numerous awards including the ACS Award for Encouraging Disadvantaged Students into Careers in the Chemical Sciences, Research Corporation for Science Advancement Cottrell Scholar TREE Award, and the Herty Medal. He has served as the Director of the Open Chemistry Collaborative in Diversity Equity (OXIDE) since 2011, and was on the ACS Board of Directors from 2014 to 2019. He was born in Havana, Cuba, and was raised in Hialeah, FL. He has a PhD in theoretical chemistry from the University of California (Berkeley, CA) a BSE in chemical engineering and mathematics from Princeton University (NJ). Follow him on twitter at @EveryWhereChem and read more at rh.jhu.edu.

January Speaker Abstract:

The nanoparticles we make today to address problems in energy and human health will enter the environment tomorrow. Will they be benign or will they lead to deleterious downstream effects to our environment? The Center for Sustainable Nanotechnology is developing and benchmarking design principles for making sustainable nanoparticles. Our group contributes the theoretical and computational tools bridging molecular scale structure and motion to mesoscale behavior of nanoparticles in heterogeneous environments typical of bacteria and other organisms. I will also share my origin story as a first-generation low-income student and how it helped me to succeed in science, diversity and society leadership.

2020 Letter from the Chair

Welcome to our First Newsletter of the Year 2020! As we Look Forward into the New Decade, we hope to use the 20/20 analogy for our ACS Local Section. 1. We want to look back (hindsight being 20/20) to see where we came from and how we have developed over the past decade. 2. We want to look ahead (with excellent 20/20 vision) to see where we aspire to go in the years ahead and set a course of action on how to get there. We are assessing a Strategic Plan and Goals for the Central NC Section. In doing so, we NEED your (our constituents') INPUT!

I am both delighted and humbled to have been asked to serve as the chair of the CNC Section. I had served as chair of the section in the late 1970's and now have come back into the area to see the new and exciting events that are underway. My main focus this year will be "Build Bridges" within our local area. This includes three major Goals: 1. The local section needs to continue to determine How we may serve our current members Effectively and Efficiently. 2. We need to continue to expand our support and involvement in our ACS Student Chapters. 3. We need to support and engage our Local Secondary School Teachers, especially in the STEM areas (Science, Technology, Engineering and Math). Chemistry is an integral part of all of the sciences and as such the ACS encompasses many interdisciplinary fields. The local ACS chapters follow the national lead and extend their scope of support to these interdisciplinary sciences. This being the 50th Anniversary of the ACS Division of Agrochemicals, some special emphasis and events are being scheduled.

Our local section meeting programs this year will be a mix of technical and social/intellectually engaging themes. Hopefully, you will find some items particularly interesting and definitely "worth your time and effort" to participate in the local ACS meetings and functions. We are looking at various platforms which include the traditional lecture as well as the group experience. Some tours and as always some "Chatting and Chewing" are planned! Networking is Fun! Please take a moment to review our website: <https://cnc-accs.org/>

I especially want your feedback and suggestions on the meetings, training sessions, poster events and other activities in which you will participate this year and those activities that you would like to see the local section include in our programming. Send all comments to: rodbennett@aol.com. Thank you in advance for your support! Let's Enjoy A Great Year!! Sincerely,

Rod

Results of the Senior Chemists Group Planning Meeting (13 January 2020)

By Robert Yokley

Attended by Bruce and Carol McKillican, David Pollard, Jill Keith, Cliff Bell, Ralph May, Mark Grunenwald, Andrea Alemanni, and Robert and Phyllis Yokley

Continue with Monday evening meetings.

Meetings for 2020

March 9– TBD

May 11 – Tyler Harp will speak on “Answers to Pesky Pesticide Questions You’re Afraid You’ll get Asked” (organized by Mark Grunenwald)

July 13 – Speaker Cliff Bell will discuss old photo restoration using the C14 technique

September 7 – Dr. Bob Patsiga will talk about the life of astronomer Edwin Hubble.

November 9 – Guest speaker Rob Leonard will discuss Medicare, transition to Medicare, and other issues related to retirement (organized by Andrea Alemanni).

Cliff Bell will contact Juanita Staton as a potential speaker about family members (see item 6)

Activities for 2020

April or May – Visit Hunter Williard car restoration shop in Walnut Cove. Ladies may shop in antique stores if uninterested in cars. Lunch in town

September or October – TBD (may depend on results of survey) –item 8.

Group breakfast or lunch – continue quarterly.

Speaker topics? Financial Planning

SC Group speakers on career or hobbies? Ralph suggested SC Group members talk about their families. Robert will contact membership for volunteers

SC Group Table at NCW? Bruce – need PR announcements much further in advance. We will also try to get more SC involved in NCW. Various members will contact science teachers to determine if this list can be expanded to reach as many science teachers as possible. This should help student attendance at NCW. Robert will discuss with Cynthia, Dennis, et al.

Other items or recommendations?

Carol recommended a survey to find out if the membership would be interested in a weekend activity. Perhaps a trip to Shatley Springs (near Jefferson NC) or one of the aquariums at the beach. She also suggested a picnic in either September or October (usually good weather) and visit a Botanical Garden or other interesting site.

Also, in survey, as per Jill’s recommendation, assess interest in a trip to the Barn Dinner Theatre in Greensboro.

We will try to recruit more SC Group members to assist with T.J. Mayer’s stream clean-up in April. Robert will contact T.J.

CNC-ACS Executive Committee

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