Section Meeting

Friday, January 31, 5:00 PM

Holmes Hall 222
Florida Gulf Coast University
10501 FGCU Blvd South, Fort Myers
followed by refreshments at 6:00 PM

Daniel Lambrecht, PhD

Department of Chemistry & Physics
Florida Gulf Coast University

Non-Covalent Interactions in the Computational Design of Organometal Catalysts and Organic Materials

Non-covalent interactions such as electrostatics, induction effects, and London dispersion forces impact molecular structures and reactivities to varying degrees. This talk features examples where tailoring molecules to optimize specific non-covalent interactions facilitates the emergence of interesting molecular and materials properties. Specifically, we will explore: 1) catalysts whose activity is dominated by non-covalent effects – breaking with common lore of organometal catalysts, 2) novel polymer structures facilitated by non-covalent interactions, and 3) stimulus-responsive materials with tunable interactions for gas separation and nano-force sensing. The talk briefly discusses contemporary computational approaches for analyzing non-covalent interactions and predictive models to rationally design improved molecules and materials for the applications discussed here.

Daniel Lambrecht is an Assistant Professor at Florida Gulf Coast University in the Department of Chemistry and Physics. His work focuses on the theoretical and computational chemistry of non-covalent interactions as applied to the design and molecular understanding of catalysts as well as organic and biological materials. Dr. Lambrecht earned his undergraduate and graduate degrees in Germany and received postdoctoral training at the University of California at Berkeley.

SoFL-ACS Executive Committee Meeting

3:00 – 5:00 pm, Friday, February 1, Whitaker Hall Room 227, Florida Gulf Coast University (open to all SoFL-ACS members)

2020 SoFL-ACS Officers

Chair – Jesse Bernstein, 440-821-4623, Jbern0309@gmail.com
Past Chair – Orlando Acevedo, University of Miami, 305-284-5662, orlando.acevedo@miami.edu
Chair-Elect – John Reilly, Florida Gulf Coast University, Ft. Myers 239-590-1881, johnreilly@fgcu.edu
Treasurer – David Riusech, Noven Pharmaceuticals, 305-964-3477 driusech@aol.com
Councilor and Secretary – Milagros Delgado, 305 919-5966, FIU-Biscayne Bay Campus, degadom@FIU.edu

Councilor – George Fisher, 305-899-3430; Barry Univ., gfisher@barry.edu
Councilor – Zaida Morales-Martinez, 305-386-3206, moralesz@fiu.edu
Alternate Councilor – Jesse Bernstein, 440-821-4623, Jbern0309@gmail.com
Alternate Councilor – Lisa Milenkovic, 754-321-2119, lisa.milenkovic@browardschools.com
Alternate Councilor – Vic Shanbhag, Nova Southeastern University, 954-262-3931, Shanbhag@nova.edu
Chemical Sciences Symposium

Saturday, April 4, 2020
8:30 AM to 4:30 PM

Nova Southeastern University
Health Professions Division, Terry/Assembly Building,
Room 2104 (Finkelstein Auditorium)
3200 South University Drive, Ft. Lauderdale

Theme: Evolution of Immunity

Call for Abstracts
Cash prizes for best student poster presentations. High school, undergraduate and graduate students are encouraged to present posters on their research (does not have to be related to the symposium theme)

Abstract Instructions:
2. Submission deadline: Friday, March 27, 2020
3. Poster size max 4’ high x 6’ wide
4. Registration and submission: http://ularkin.org/SoFLACSSymposium2020 (Submission can start anytime from Jan, 31-2020 and submission closes at 5 PM on Friday, March 27, 2020)
5. For questions please contact: Dr. K.V. Venkatachalam (Dr. Venk) at venk@nova.edu or Dr. Rudi Ettrich at rettrich@ularkin.org