



SoFlacs



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South Florida Section American Chemical Society

February 2020

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

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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:

1. Word Count Limit: 350. Format: Microsoft Word, Times New Roman, font size 12
2. Submission deadline: Friday, March 27, 2020
3. Poster size max 4' high x 6' wide
4. Registration and submission: <http://ularkin.org/SoFLACSymposium2020> (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

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