



# SoFlacs



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## In-Person and Virtual Section Meeting

Friday, February 2, 4:00 PM

Holmes Hall 330

refreshments afterwards Holmes Hall 406

Florida Gulf Coast University, Ft. Myers

Or join via Zoom meeting

<https://fgcu-edu.zoom.us/j/99539749579?pwd=WEhLYzJBmVxYkZnajcwVDJuTHpvUT09>

## Dr. Durgesh Wagle

Department of Chemistry and Physics, FGCU

## Computational Insights into Interactions in Sugar-Based Deep Eutectic Solvents

This seminar will provide an introduction to Deep Eutectic Solvents (DES) and their importance as a modern class of solvents with wide ranging applications in various aspects of chemistry. The core of the talk will include comparison between two sugar-based DESs that will encompass the influence of a small modification in sugar on the over physical properties of the DESs. Finally, we will touch on the interactions between the DESs and the nitrogenous bases in the nucleic acids to elucidate the fundamental interactions between them. This insight can potentially provide a fundamental basis for developing non-aqueous solvents for long-term preservation of nucleic acid-based vaccines.

Dr. Wagle studied chemistry at the University of Mumbai, India, and completed his graduate work in materials chemistry with Prof. Gary A. Baker at the University of Missouri, Columbia. He did his postdoctoral research with Prof. Jerry L. Atwood at the University of Missouri in Supramolecular Chemistry. Dr Wagle is an assistant professor of chemistry at Florida Gulf Coast University, where he performs research in chemistry with applications to environmental, materials, and biological/medicinal chemistry.

### SoFL-ACS Executive Committee Meeting

2-4 PM, Friday, February 2, Seidler Hall 441, Florida Gulf Coast University, Ft. Myers

All are welcome

### 2024 SoFL-ACS Officers

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