

2025 ACS PHYSICAL CHEMISTRY EXPERIMENT AND THEORY GRADUATE STUDENT AWARD SYMPOSIUM



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FRIDAY, OCTOBER 3, 2025 • 2:00 – 5:00 P.M. EDT

Organizers: Experiment and Theory Subdivisions of ACS PHYS.

2:00 pm

Introductory Remarks

2:05 pm

Shiv Rekhi (Texas A&M University)

Advisor: Jeetain Mittal

Decoding the Molecular Language of Disordered Protein Phase Separation

2:25 pm

José L. Godínez Castellanos (University of Southern California)

Advisor: Stephen Bradforth

Illuminating the Photochemistry of Biomolecules with Multi-Octave Soliton Probing

2:45 pm

Benjamin Xu Shi (University of Cambridge)

Advisor: Angelos Michaelides

It's Not a S(KZ)CAM! Accurate Surface Chemistry at Low Cost

3:05 pm

Raiden Speelman (Northwestern University)

Advisor: Franz Geiger

Bridging Electrochemistry and Nonlinear Optics: Studying the Oxygen Evolution Reaction with Second Harmonic Generation

3:25 pm

Intermission (15 min)

3:40 pm

Bailey Nebgen (University of California, Berkeley)

Advisor: Michael W. Zuerch

Towards All-Optical Electronic Structure Characterization in Complex Environments: Solid-State High Harmonic Spectroscopy

4:00 pm

Mohammad Elious Ali Mondal (University of Rochester)

Advisor: Pengfei Huo

Scalable Quantum Dynamics for Exciton Polaritons

4:20 pm

Jesse Brown (Utah State University)

Advisor: Yi Rao

Vibrational Sum-Frequency Scattering from Airborne Droplet Surfaces

4:40 pm

Zhenling Wang (University of California Berkely)

Advisor: Martin Head-Gordon

A New Fast and Accurate Local Correlation Formalism: Life after DLPNO

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