2022 AVS Prairie Chapter Symposium

University of Notre Dame Conference Center (McKenna Hall) Auditorium

215 McKenna Hall

215 McKenna Han	
8:30	Registration (Reyes Family Boardroom Pre-Function Area) and Breakfast (205/206/207 McKenna Hall)
9:25	Opening: Alex Kandel, University of Notre Dame
Session 1	Moderator: Alex Kandel, University of Notre Dame
9:30	Neha Mehra , <i>University of Notre Dame</i> , "Interrogation of Single-Site, Oxide-Supported Metal Ions for Ethylene Oligomerization By Density Functional Theory and Microkinetic Modeling"
9:50	Nileema Sharma, University of Notre Dame, "Molecular Quantum Simulator"
10:10	Kevin DePope , Loyola University, "Using Surface Reactions of TPBi and Propylene Oxide to Reduce Metal Penetration and Metal-Induced Photoluminescence Quenching"
C	Coffee Break: 10:30 – 10:50 (Reyes Family Boardroom Pre-Function Area)
Session 2	Moderator: Sarah Pate, University of Notre Dame
10:50	Jason Kawasaki , <i>University of Wisconsin</i> , <i>Madison</i> , "Mechanisms and Applications for Remote Epitaxy of III-V Semiconductors and Heusler Compounds"
11:30	Siying Yu , <i>University of Illinois, Urbana-Champaign</i> , "Control over Particle Size and Uniformity of Pt-based Intermetallic Nanoparticles in Thermal Treatment"
11:50	Jason Gross , <i>University of Illinois, Chicago</i> , "The Competition between Formation of Black Silicon Nanostructures vs. Craters during Subnanosecond Laser Ablation in Atmosphere"
Lunch ((205/206/207 McKenna Hall)) and Poster Session (216 McKenna Hall): 12:10–2:00 Chapter Business Meeting, Room 202 (Open to All AVS Members)	
Session 3	Moderator: Ayanna Culmer-Gilbert, Indiana University
2:00	Shelley Claridge , <i>Purdue University</i> , "To Flatland and Back Again: Monolayers as a Foundation for Nanostructured Material Design"
2:40	Emily Smith , <i>Iowa State University</i> , "Single Particle Imaging of Cell Membrane Proteins and Confined Viscous Liquids"
3:20	Adam Jaffe , <i>University of Notre Dame</i> , "Hybrid Bronzes: Organic-Inorganic Metal Oxides with Tunable Structural and Electronic Properties"
	Coffee Break: 3:40–4:00 (Reyes Family Boardroom Pre-Function Area)
Session 4	Moderator: Adam Jaffe, University of Notre Dame
4:00	Michael Trenary , <i>University of Illinois</i> , <i>Chicago</i> , "Infrared Spectroscopy as a Surface Science Technique"
4:40	Sarah Pate, University of Notre Dame, "Elucidating the Role of Water in Amine-Facilitated CO ₂ Transport via Operando Transmission FTIR Spectroscopy"
5:00	Ayanna M. Culmer-Gilbert, <i>Indiana University</i> , "Ligand-coordinated, Supported Pd Catalysts for Selective Hydrogenation: Investigating the Effects of Ligand

Reception: 6:00–8:00 (Reading Room, Jordan Hall of Science)

Allison H. Squires, University of Chicago, "Photoswitchable Fluorophores for

Functionalization on Activity and Loading"

Liquid Media-Based Detection of Radiation"

5:20