

EXPO 2024

April 19 - Day 2 - Setzer Student Center

Student Presentations

Session PL_2	Plenary 1 - Ballroom - Sponsored Research III Chair: Dr. Matthew Hoch	
10:15 AM	Caleb Gregory, Lamar University <i>"A Neutron Veto for Dark Matter Detection"</i>	Mentor: Dr. Rafael de la Madrid
10:30 AM	Tyler Stuck, Lamar University <i>"Generating the Curve of Dispersion for Silica Glasses using a Diode Laser and an Isotropic Source of Energy"</i>	Mentor: Dr. Cristian Bahrim
10:45 AM	Jiyeon Jeon, Lamar University <i>"The Effect of Stress and Pharmacology of CBD in the Progression of Alzheimer's Disease"</i>	Mentor: Dr. Maryam Vasefi
11:00 AM	Aaron Tabor, Lamar University <i>"Deaf Interactions within the First Responder World: The Communication Issue"</i>	Mentors: Dr. Vidisha Worley and Dr. Millicent Musyoka
11:15 AM	Kristin Herbert, Lamar University <i>"Landing Mechanics and Muscle Activation in Modern Dancers"</i>	Mentor: Dr. Shannon Jordan
11:30 AM	Philippine Brossard, Lamar University <i>"Limno-terrestrial tardigrades from lichen habitats on Quercus virginiana trees at different exposure to sea salt aerosols in Southeast Texas."</i>	Mentor: Dr. Matthew Hoch
11:45 AM	Chiagoziem Ngwadam, Rice University <i>"Sugar, Spice, and Everything Nice: Directed Evolution of Glucose-Dependent Enzymes via Growth Complementation of Glucose Non-Utilizing E. coli"</i>	Mentor: Dr. Caroline Ajo-Franklin

Session BO_3A	Breakout 3 - Ballroom - Sponsored Research IV Chair: Dr. Ian Lian	
2:00 PM	Haley Perkins, Lamar University <i>"Leveling Up: A Tri-state Exploration of BEI Interpreter Certification"</i>	Mentor: Dr. Zanthia Smith
2:15 PM	Zoe Griffin, Rice University <i>"Skin Color Development and CRISPR Genome Editing in the Brown Anole Lizard (Anolis sagrei)"</i>	Mentor: Dr. Richard Behringer
2:30 PM	Lois Armendariz, Rice University <i>"The Role of Lipids in Host Defense and Mitochondrial Surveillance"</i>	Mentor: Dr. Natasha Kirienko
2:45 PM	Qi Xu, Rice University	Mentor: Dr. Natasha Kirienko

	<i>"Cytotoxic Rhamnolipid Micelles Drive Acute Virulence in Pseudomonas aeruginosa"</i>	
3:00 PM	Hannah Li, Rice University <i>"Characterizing the Effects of Tumor-Resident Lactic Acid Bacteria on Cancer Cell Metabolism and Proliferation"</i>	Mentor: Dr. Lauren Colbert

Session BO_3B	Breakout 3 - Neches (120) - HASBSEB Research II Chair: Mr. O'Brien Stanley	
2:00 PM	Alexis Burnett, Lamar University <i>"The Female Gaze in Portrait of a Lady on Fire"</i>	Mentor: Mr. O'Brien Stanley
2:15 PM	Jack Hiatt, Lamar University <i>"There Are No Adults in Neverland"</i>	Mentor: Mr. O'Brien Stanley
2:30 PM	Keilah Baaheth, Lamar University <i>"Book Banning in School and Public Libraries "</i>	Mentor: Dr. Stephan Malick
2:45 PM	Daniela Contreras, Lamar University <i>"Dead Poet Society: An Eastern Western"</i>	Mentor: Mr. O'Brien Stanley
3:00 PM	Segio Mendez, Lamar University <i>"Analysis of the Auteur Theory in Tim Burton Films"</i>	Mentor: Mr. O'Brien Stanley

Session BO_3C	Breakout 3 - Cypress I (125) & II (127) Chair: Dr. Ozge Gunaydin	
2:00 PM	Rishi Bharadwaj, Lamar University <i>"The Influence of the Polarization of a Coupling Laser on a Probe Laser"</i>	Mentor: Dr. Cristian Bahrim
2:15 PM	Ailinh Tran & Ybinh Tran, Lamar University <i>"Conformational Studies of Perfluorooctanoic Acid (PFOA) in Presence of its Helicity "</i>	Mentor: Dr. Sylvestre Twagirayezu
2:30 PM	Rebecca Bundu, Lamar University <i>"Development of Sampling Methods based on Molecular Rotational Resonance (MRR) Technology for Petroleum Applications"</i>	Mentor: Dr. Sylvestre Twagirayezu
2:45 PM	Byanca McCray, Lamar University <i>"Direct Measurements of Ammonia in Zantac by a K-band Molecular Rotational Resonance (MRR) Spectroscopy"</i>	Mentor: Dr. Sylvestre Twagirayezu
3:00 PM	Sushma K.C., Lamar University <i>"Limitations of Asymptotic Methods in Predicting Radiation from a Monopole Antenna on a Conducting Convex Surface"</i>	Mentor: Dr. Cagatay Tokgoz

W_5	Workshop 5 location: Sabine I - room 123	Leader: Dr. Hellen Lou <i>Professor Chemical and Biomolecular Engineering</i>
2:00 to 3:00 PM	Landfill Gas Utilization/Upgrading & Community Sustainable Energy Engagement for Southeast Texas: A DOE funded Collaborative Project between AIChE and Lamar University	
	<p>Andrew Kolp, Dr. Jian Fang and Dr. Daniel Chen, <i>Chemical and Biomolecular Engineering, Lamar University</i></p> <p>Ms. Wendy Young, <i>American Institute of Chemical Engineers (AIChE)</i></p> <p><i>"Landfill Gas Utilization/Upgrading & Community Sustainable Energy Engagement for</i></p>	