

## Poster Presentations

*Poster Session and Interfacing Hour Sponsored by Clemson  
University Research Foundation*

4:30 – 5:30 p.m.

### **Poster Presenter Name:**

Satyanarayana Lagishetty

Jonathan Beecher Field

Tao Hong

Rachel Mayo

Anjali Joseph

Kara Powder

Ying Yang

### **Poster Title:**

“Investigation of Crucial Virulent Metabolic Pathways during Cryptococcus Pathogenesis”

“The Ordering Of Towns: Settler Nationalism in Colonial New England”

“Doped bismuth oxide membrane as high performance oxygen pump”

“Early Treatment for Neonatal Abstinence Syndrome: A Palliative Approach”

“Using a systems approach to designing a safer and more ergonomic operating room”

“Understanding the genomic basis of craniofacial development, disease, and evolution using cichlid fishes”

“Dynamic Responsive Materials”

Betsy Charron	"County-Level Factors Associated with Average Neonatal Abstinence Syndrome Birth Rates By County in South Carolina"
Lea Jenkins	"Water Resource Allocation in Agricultural Regions"
Barbara Campbell	"Seasonal and spatial effects on aquatic microbes"
Weitian Wang	"Robot Action Planning in Human-robot Collaborative Assembly Tasks"
Vincent Blouin	"New developments in Geothermal Systems"
Yann Ferrand	"Correlation of Microbial Load and Movement within the Operating Room"
Jennifer Mason	"Separating the function of RAD51 in DNA repair and replication"
Yunyi Jia	"Automatic Sensor Correction of Autonomous Vehicles by Human-Vehicle Teaching-and-Learning"
Mary Beth Steck	"Assessing Awareness and Integration of the Genetic Information Nondiscrimination Act of 2008 (GINA) Among Nurse Practitioner Faculty"
Rutali Joshi	"Understanding the Built Environment of Shelter Homes for Survivors of Domestic Violence"
Kevin Taaffe	"Simulation-based design improvements to the operating room"

Heather W. Dunn	"Transcriptomic analysis of early mammary gland development and cancer"
Joseph B. Ryan, Ph.D.	"Using Assistive Technology to Promote Employment and Independent Living for Individuals with Intellectual Disabilities"
Puskar Khanal	"Complexity of forest management decisions"
David Allison	"EBD in action: Moving from research to design innovation in the Architecture studio"
Modi Wetzler	"Peptides as Potential Drugs and Practical Tools"
Chandan Kumar Choudhury	"Designing Thermally Stable Enzyme-Copolymer Conjugates."
Steven Pellizzeri	"Computationally-Driven Design of Cation-Based Catalysts for Ethene Dimerization"
Nishanth Tharayil	"Multi-User Analytical Lab and Metabolomic Core: the one-stop-shop for all small molecule and oligomer analyses."
Tiffany Pellizzeri	"Strontium Manganese Vanadates Synthesized from Hydrothermal Brines"
Yuan Li	"Single Crystal fiber Applications: Laser and Amplifier"
Ali Mirzakhani Nafchi	"Development of an Electro-Mechanical Controller for Adjusting Pump Stroke On-the-Go"
Jose Payero	"Response of Decagon EC-5 and Watermark 200ss soil moisture"

	sensors for twelve soil texture classes”
Keith Miller	“Underwater Laser Communication using Orbital Angular Momentum”
Lawrence D. Fredendall	“Integrating simulation modeling and mobile technology to improve day-of-surgery patient care”
Bin San CHAN	“Chitin facilitated mineralization in the Eastern oyster”
John Majsztrik	“Expanding Specialty Growers Water Treatment Toolboxes”
Kathleen Valentine	“Building International Capacity for Transforming Healthy Aging Care Delivery”
Chelsea LeNoble	“The Impact of Leadership Development on Team and Individual Burnout and Resilience in the Healthcare Industry”
Victoria Charles, Kristie Marr, & Matthew Jordan	“Online Health Information: Blessing or Burden?”
Lu Shi	“A Review of Mindful Walking and Walking Meditation”
MD Arifuzzaman	“Detecting pH on implanted medical device surfaces with a hydrogel swelling based sensor read in plain film radiography”
Paul W. Millhouse	“Early Passive Radiographic Detection of Cervical Pseudarthrosis”
Brian W. Booth	“Cancer Cell Redirection Biomarker Discovery Using a Mutual Information Approach”

Dennis S. Taylor and Kathy Edwards

"Unbuilt Clemson: a Story of Institutional Resilience"

Phillip Williams

"Sensor-based Nitrogen Management for Cotton in Coastal Plain Soils"

Ali Mirzakhani Nafchi

"Construction of automatic weighing lysimeters to measure evapotranspiration of individual plants"

Wei-zhen Liang

"Estimation of Soybean Leaf Area, Edge, and Defoliation Using Color Image Analysis"

Ksenija Gasic

"Peach breeding in 21st century"

Jessica Britt

"Altered mRNA expression in placental tissues of ewes exposed to ergot alkaloids during gestation"

Qiushi Chen

"Regolith-based material innovation for Mars exploration"

S. Prakash and J. A. Baeza

"Unraveling cryptic species complex of coral reef associated 'marbled shrimp' *Saron marmoratus* and *S. neglectus* (Caridea: Thoridae) – An integrative taxonomy approach"

Suchitra Chavan

"Spatial and Temporal Resolution of mRNA Profiles During Early Nodule Development"

David Ladner

"CFD simulation of fluid and fouling profiles for membranes with engineered surface features"

Mohammadreza Eslami

"Development Of Vapor Cloud Explosion Tool"

Nathanael Martin

“What makes a brand a heritage brand?”

Shanna E. Hirsch

“Faculty-in-Residence:  
Understanding and Closing the  
Research-to-Practice Gap”