

# SYMPOSIUM OF Student Scholars

**ORAL PRESENTATIONS**

## **SOUTHERN POLYTECHNIC COLLEGE OF ENGINEERING & ENGINEERING TECHNOLOGY**

**WEDNESDAY, APRIL 17TH, 1:00 PM  
PRILLAMAN HALL, INDOOR PLAZA**

**ENHANCED STATE-OF-HEALTH AND STATE-OF-CHARGE ESTIMATION FOR BATTERIES  
VIA INTERNAL RESISTANCE VARIATIONS AND USABLE CAPACITY CORRELATIONS**

**PI(S): BEIBEI JIANG**

**STUDENT(S): YAN CHEN, TAYLOR SHURNS, MICHAEL WOODALL, BRAEDEN ARNOLD, TANYA MUDRIK, &  
TARA JOSHI**

**DEVELOPMENT OF INTUITIVE MECHANISM FOR POSITION CONTROL OF SOFT  
ROBOT**

**PI(S): AMIR ALI AMIRI MOGHADAM & TURAJ ASHURI**

**STUDENT(S): KYRA S MAGEE, JASON YU, PRANEETH RAYAPUDI, JACOB RIAD, SAMA ABBADI, &  
STEPHAN SELLERS**

**AN ORDINARY DIFFERENTIAL EQUATIONS MODEL TO ASSESS THE IMPACT AND  
COST-EFFECTIVENESS OF FLUORIDE VARNISH FOR YOUNG CHILDREN**

**PI(S): CHRISTINA SCHERRER & GLENN YOUNG**

**STUDENT(S): MAHDIYEH SOLTANINEJAD**

**CLASSIFYING ROAD DEBRIS USING DEEP LEARNING TECHNIQUE IN ARTIFICIAL  
INTELLIGENCE**

**PI(S): SATHISH GURUPATHAM**

**STUDENT(S): JOSHUA DANIEL, DEVON HULSE, & ARYA SHAH**