Undergraduate Platform Award Winners 93rd Annual Meeting of the South Carolina Academy of Science Virtual Meeting, April 17, 2021

SESSION 1: CELL & MOLECULAR BIOLOGY

First Place: Kylie Tager, UofSC Aiken

DESIGN, CLONING, AND TESTING OF AN ANTI-HIV-I REV SMALL INTERFERING RNA

Mentor: William Jackson

Second Place: Madison Ryan, UofSC School of Medicine

REGULATORY ROLE OF MICRORNA-34A ON HUMAN MAST CELL INFLAMMATORY GENE

EXPRESSION

Mentor: Carole Oskeritzian

SESSION 2: ENGINEERING

First Place: Austin Locklear, UofSC Aiken

CREATION OF A CIP METHOD FOR THE HEAT EXCHANGERS AT ROLLS-ROYCE

Co-authors: Carly Dempsey and Melanie Howe

Mentor: Bethany Fralick

Second place: Matthew Beeler, UofSC Aiken

RELIABILITY CENTERED MAINTENANCE

Co-authors: Adam Harley, Cameron Bedenbaugh

Mentor: Bethany Fralick

SESSION 3: FIELD BIOLOGY, CLIMATOLOGY, PHARMACOLOGY, & PHYSIOLOGY

First Place: Mary Davidson, Converse College

DOES EXPOSURE TO SUBLETHAL CONCENTRATIONS OF GLYPHOSATE, 2,4-D AND THEIR

COMBINED FORMULATION INDUCE OXIDATIVE STRESS IN EISENIA FETIDA?

Co-author: Phylicia Allen Mentor: Edna Steele

Second Place: Korinne Swanson, Coastal Carolina University

PERCEIVED STRESS LEVELS AND BACTERIOPHAGE PRESENCE ON THE CAMPUS OF COASTAL

CAROLINA UNIVERSITY

Co-authors: Madaline Plank and Owen Smith

Mentor: Paul Richardson

SESSION 4: ASTRONOMY, CHEMISTRY, COMPUTER SCIENCE, & MATHEMATICS

First Place: Colette Sullivan, UofSC Aiken

PREPARING FUNCTIONAL POLYMER SURFACES BY SURFACE-INITIATED ALKENE METATHESIS

Mentor: Nicholas Marshall

Second Place: Kyla Bonikowski, UofSC Lancaster

IMPACTS OF TIME AND WEATHER ON THE FLORAL SCENT EMISSION OF GELSEMIUM SEMPERVIRENS

Co-authors: Haley Williams, Steven Weaver, and Annette Golonka Mentor: Bettie Obi-Johnson

SESSIONS 5 and 6: PHYSICS

First Place: Seth Zoppelt, College of Charleston
INVESTIGATING CRITICAL OXYGEN USING MAGNETIC LEVITATION
Mentor: Ana Oprisan

Second Place: Samuel Cathcart, Francis Marion University
USING MUSR WITH CDO TO DETECT HYDROGEN LIKE DEFECTS IN SEMICONDUCTORS
Mentor: Brittany Baker

BEST UNDERGRADUATE PRESENTATION AT THE 2021 ANNUAL MEETING

Colette Sullivan, UofSC Aiken Runner-up: Seth Zoppelt, College of Charleston

2021 DWIGHT CAMPER OUTSTANDING UNDERGRADUATE RESEARCH AWARD

Melanie Howe, UofSC Aiken