

POSTER SESSION THREE Henry Hood Center for Health Research || Ground Floor 1:15-2:30 p.m.

#1 Amanda Pennett, Bucknell University Union County Solar Energy Awareness Categories: Arts, Humanities and Social Sciences / Life Sciences Mentor: Shaunna Barnhart

#2 Nicholas Sorkine, Bloomsburg University

Opposite Effects of Chronic Stress on Context-Induced Relapse to Palatable Food Seeking after Punishment-Induced Abstinence in Male versus Female Rats Categories: Arts, Humanities and Social Sciences / Studies of Health and Wellness across disciplines <u>Mentor</u>: Kevin Ball

#3 Gwen Conley & Hannah Needham, Susquehanna University

Developing an Aversive Stimulus Device using an Arduino Categories: Engineering, Computer Science and Natural Sciences / Arts, Humanities and Social Sciences Mentor: Carl Faust

#4 Amanda McLaughlin, Susquehanna University

Precision 3D Modeling Categories: Engineering, Computer Science and Natural Sciences / Arts, Humanities and Social Sciences Mentor: Adam Hansell

#5 Benjamin Shimer, Bucknell University

Visualizing Acid Mine Drainage in the Shamokin Creek Watershed: Environmental Injustices and Consequences from Coal Mining <u>Categories</u>: Arts, Humanities and Social Sciences / Engineering, Computer Science and Natural Sciences <u>Mentor</u>: Shaunna Barnhart

#6 Brandon Burkett, Bucknell University

Using Smartphone GPS Data to Analyze Athlete Performance Categories: Engineering, Computer Science and Natural Sciences / Studies of Health and Wellness across disciplines <u>Mentor</u>: Stu Thompson

#7 Jake Schaefer, Bucknell University

Leveraging Ovis Canadensis Horn Shapes for Impact Mitigation <u>Categories</u>: Engineering, Computer Science and Natural Sciences / Studies of Health and Wellness across disciplines <u>Mentor</u>: Benjamin Wheatley

#8 Mary Kuziak & Savannah Barton, Susquehanna University

The Role of Dm Ime4 in Drosophila melanogaster Spermatogenesis <u>Categories</u>: Engineering, Computer Science and Natural Sciences / Life Sciences <u>Mentor</u>: Antonio Rockwell

#9 Elena Marchetti, Bucknell University

Understanding the nucleation of 3D covalent frameworks using small molecule analogs <u>Categories</u>: Engineering, Computer Science and Natural Sciences / Life Sciences <u>Mentor</u>: Brian Smith

#10 Hannah Kim, Bucknell University

Building a Digital Twin: A Virtual Model of an Electric Vehicle Categories: Engineering, Computer Science and Natural Sciences / Life Sciences Mentor: Craig Beal

#11 Eleanor Lowe, Bucknell University

Melt Crystallization of the Elusive Form III Polymorph of Acetaminophen <u>Categories</u>: Engineering, Computer Science and Natural Sciences / Life Sciences <u>Mentor</u>: Brian Smith

#12 Cory Mabry, Susquehanna University Assembly of Muon-Specific Particle Detectors Categories: Engineering, Computer Science and Natural Sciences / Life Sciences

#13 Dmitri Yarczower, Geisinger

Medical Presentations of GRIN2B-Related Disorders <u>Categories</u>: Life Sciences / Studies of Health and Wellness across disciplines <u>Mentor</u>: Cora Taylor

#14 Ryan Walker, Aidan Sullivan & Sarah Townsend, Bucknell University

The Impact of Host Condition and Life-stage on Immune System Investment in Photinus pyralis <u>Categories</u>: Life Sciences / Engineering, Computer Science and Natural Sciences <u>Mentor</u>: Moria Chambers & Sarah Lower

#15 **Ding Zhang**, Bucknell University

Turbidity Estimation Based on Sampled Images of Reference and Test Water Samples <u>Categories</u>: Engineering, Computer Science and Natural Sciences / Life Sciences <u>Mentor</u>: Alan Marchiori

#16 Abby Gearhart, Bucknell University

Using temperature as a tracer to assess groundwater-surface water exchange in a forested headwater stream in Pennsylvania Categories: Engineering, Computer Science and Natural Sciences / Life Sciences Mentor: Ben Hayes

#17 Nuha Mohammed, Geisinger

Characterizing Familial Hypercholesteremia in the NIH AllofUS Cohort <u>Categories</u>: Engineering, Computer Science and Natural Sciences / Life Sciences <u>Mentor</u>: Matthew Oetjens

#18 Abigail Wagner, Susquehanna University

The Effect of Acute Stress on Context-Dependent Memory in Rats Categories: Life Sciences / Studies of Health and Wellness across disciplines Mentor: James Briggs

#19 Kate Strong, Bucknell University

Get-2-Goal Diabetes App: Estimating Risk and Remission Categories: Engineering, Computer Science and Natural Sciences / Studies of Health and Wellness across disciplines Mentor: Lea Wittie

#20 Julia Calderone, Bucknell University

Usability of the Get-2-Goal App Categories: Engineering, Computer Science and Natural Sciences / Studies of Health and Wellness across disciplines Mentor: Lea Wittie

#21 Matthew Kroen, Bucknell University

Comparison of Orientation-Specific and Traditional Measures of Subthalamic Nucleus Activation Categories: Engineering, Computer Science and Natural Sciences / Studies of Health and Wellness across disciplines Mentor: Karlo Malaga

#22 Keeler Thomas, Bucknell University

Optimal Tissue Activation During Thalamic Deep Brain Stimulation for Essential Tremor Categories: Engineering, Computer Science and Natural Sciences / Studies of Health and Wellness across disciplines <u>Mentor</u>: Karlo Malaga

#23 Mary Robinson, Bucknell University

Deep Brain Stimulation of the Subthalamic Nucleus and its Effect on Verbal Fluency in Parkinson's Disease Patients Categories: Engineering, Computer Science and Natural Sciences / Studies of Health and Wellness across disciplines <u>Mentor</u>: Karlo Malaga

#24 Rebecca Stinson, Bucknell University

Accessing Stability of Thalamic Segmentation using Diffusion Tensor MRI Categories: Engineering, Computer Science and Natural Sciences / Studies of Health and Wellness across disciplines Mentor: Karlo Malaga

#25 Jimmy Pronchick, Bucknell University

Collecting Language Production Data Online Categories: Arts, Humanities and Social Sciences / Engineering, Computer Science and Natural Sciences Mentor: Heidi Lorimor