

# 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