## 31st Annual Radford University Student Engagement Forum

### Tuesday, April 19th:

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td>Creativity and Innovation Poster Session 1</td>
<td>2:00 pm – 3:15 pm</td>
<td>Heth 014</td>
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<tr>
<td>Criminal Justice Poster Session 1</td>
<td>2:00 pm – 3:15 pm</td>
<td>Heth 014</td>
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<tr>
<td>Advertising Strategy Poster Session 1</td>
<td>3:30 pm – 4:45 pm</td>
<td>Heth 014</td>
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<tr>
<td>Honors Capstone Showcase:</td>
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<tr>
<td>Posters</td>
<td>2:30 pm – 3:15 pm</td>
<td>Kyle 340</td>
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<tr>
<td>Oral Session</td>
<td>3:15 pm – 4:30 pm</td>
<td>Kyle 340</td>
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<tr>
<td>Posters</td>
<td>4:30 pm – 5:30 pm</td>
<td>Kyle 340</td>
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<tr>
<td>Oral Session</td>
<td>5:30 pm – 6:30 pm</td>
<td>Kyle 340</td>
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<tr>
<td>Psychology and Gender Research Symposium</td>
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<tr>
<td>Posters</td>
<td>5:00 pm – 6:00 pm</td>
<td>Heth 014</td>
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<tr>
<td>Oral Session</td>
<td>6:00 pm – 6:30 pm</td>
<td>Heth 022</td>
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<tr>
<td>Posters</td>
<td>6:15 pm – 7:15 pm</td>
<td>Heth 014</td>
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<tr>
<td>Production Technology Showcase</td>
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<td>5:30 pm – 7:00 pm</td>
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### Wednesday, April 20th:

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<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td>Innovations in Forensic Science</td>
<td>8:00 am – 9:50 am</td>
<td>Heth 022</td>
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<tr>
<td>Environmental History Showcase</td>
<td>11:00 am – 11:50 am</td>
<td>Heth 022</td>
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<tr>
<td>Exhibiting Ethics</td>
<td>11:00 am – 11:50 am</td>
<td>Heth 016</td>
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<tr>
<td>Creative Writing in Place</td>
<td>1:00 pm – 1:50 pm</td>
<td>Heth 022</td>
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<tr>
<td>Interdisciplinary Research Showcase</td>
<td>1:00 pm – 1:50 pm</td>
<td>Center for the Sciences Lobby</td>
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<tr>
<td>Geospatial Science Poster Session</td>
<td>1:00 pm – 1:50 pm</td>
<td>Reed Hall Artis Atrium</td>
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<tr>
<td>New Beginnings in Modern Art</td>
<td>2:00 pm – 2:50 pm</td>
<td>Heth 022</td>
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<tr>
<td>Preparing to Teach Diverse Women Writers in Hostile Times</td>
<td>4:00 pm – 5:15 pm</td>
<td>Heth 022</td>
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<tr>
<td>Arctic Geophysics Oral Session</td>
<td>6:00 pm – 9:30 pm</td>
<td>Center for the Sciences Planetarium</td>
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### Thursday, April 21st:

<table>
<thead>
<tr>
<th>Event</th>
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<th>Location</th>
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<tbody>
<tr>
<td>Health and Human Performance Research Methods Showcase</td>
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<tr>
<td>Posters</td>
<td>12:30 pm – 1:45 pm</td>
<td>Kyle 340</td>
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<tr>
<td>Posters</td>
<td>2:00 pm – 3:15 pm</td>
<td>Kyle 340</td>
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<tr>
<td>Posters</td>
<td>3:30 pm – 4:45 pm</td>
<td>Kyle 340</td>
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<tr>
<td>Biomechanics Research Showcase 1</td>
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<td>Posters</td>
<td>2:00 pm – 3:15 pm</td>
<td>Kyle 340</td>
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<tr>
<td>Posters</td>
<td>3:30 pm – 4:45 pm</td>
<td>Kyle 340</td>
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<tr>
<td>Topics in Asian Art</td>
<td>2:00 pm – 3:15 pm</td>
<td>Heth 022</td>
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<tr>
<td>Creativity and Innovation Poster Session 2</td>
<td>2:00 pm – 3:15 pm</td>
<td>Kyle 340</td>
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<tr>
<td>Criminal Justice Poster Session 2</td>
<td>2:00 pm – 3:15 pm</td>
<td>Kyle 340</td>
</tr>
<tr>
<td>Advertising Strategy Poster Session 2</td>
<td>3:30 pm – 4:45 pm</td>
<td>Kyle 340</td>
</tr>
<tr>
<td>Interdisciplinary Oral Presentations</td>
<td>3:30 pm – 4:45 pm</td>
<td>Heth 022</td>
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<tr>
<td>Chemistry Oral Session</td>
<td>3:30 pm – 4:45 pm</td>
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<tr>
<td>Chemistry Poster Session</td>
<td>5:00 pm – 6:15 pm</td>
<td>Center for the Sciences Lobby</td>
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<tr>
<td>Biology Poster Session</td>
<td>5:00 pm – 6:15 pm</td>
<td>Center for the Sciences Lobby</td>
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<tr>
<td>Flash Talks</td>
<td>6:00 pm – 6:50 pm</td>
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Friday, April 22nd:
Fresh Fruit Friday: Genetics Edition
8:45 am – 10:00 am  Reed Hall Artis Lobby

Monday, April 25th:
Citizen-Leader Showcase
4:00 pm – 6:00 pm  Virtual on Zoom
Interdisciplinary Virtual Presentations
5:00 pm – 5:30 pm  Virtual on Zoom

Wednesday, April 27th:
Social Entrepreneurship Student Success Challenge
11:00 am – 12:15 pm  McConnell Library
2:00 pm – 3:15 pm  McConnell Library

Student Engagement Forum Coordinators in OURS
Joe Wirgau, Director
Jennifer McDonel, Associate Director
Keishaun Williams, Administrative Assistant
Abby Hardbower, Graduate Assistant
Yasmine Tyler, Graduate Assistant
Leah Ellis, Executive Student Assistant
Maia Grove, Executive Student Assistant
Skylar Roberson, Executive Student Assistant

The following individuals are acknowledged for their contributions:
Charley Cosmato, Director, Center for Innovative Teaching and Learning
Mary Beth Kegley, Graphic Design Manager, University Relations
Jonathan Mayer, Assistant Manager, Printing Services
Jeanne Mekolichick, Associate Provost, Provost Office
Norma Riggins, Event Planning Manager, University Services
Josh Wimmer, Graphic Production Tech, Printing Services
Welcome

It with great pleasure I can say welcome to the 31st Annual Radford University Student Engagement Forum! And not only a welcome to the student presenters and audience members, the faculty mentors and staff that support, empower, and develop our highlanders, the friends and family that support us all when trying to create new knowledge (it is not linear, nor easy), but also a welcome back to campus as an in-person event to the Student Engagement Forum itself.

This program contains over 350 presentations by over 400 unique students and nearly 100 faculty. There is a student-faculty team working on solving about every problem imaginable. It is inspiring and needed to help navigate the unprecedented times we find ourselves locally, nationally, and globally. I hope you are able to interact with many of our presenters and find inspiration from their research, their stories, and their future directions. It is not easy to start let alone finish a research project, so I need to thank everyone who once or twice (or daily) offered a word of encouragement, a shoulder to lean on, a friendly ear to listen to venting or brainstorming or maybe a bit of both at the same time. A huge thank you and a bit of awe to all of the faculty mentors, all of these projects needed to navigate the impacts of covid and provide our students with the Career Readiness Competencies needed to be successful in the workforce.

And like research, it takes a team to run an event like the Student Engagement Forum and I am blessed to work with a tremendous group at the Office of Undergraduate Research & Scholarship. I am excited every day to come to work and burst through the door to Whitt 111 and thankful Keishaun is never put off by my energetic entrances and even seems happy to see me during them. Keishaun has also to my amazement been on top of poster printing, travel, the budget, and still makes time to personally connect to everyone in the office each day. It is an honor to work with him. It is with joy I have watched Dr. Jennifer McDonel absorbing and learning everything that we try to support across campus, adding value to our enterprises, and getting comfortable enough with us in her own words to let her “goofiness” come out. I am so excited to see her be able to use her obvious leadership skills in advancing research and creative inquiry in the coming years. And I would be remiss not to mention the role Dr. Jeanne Mekollichick plays advancing the research enterprise on and beyond campus, which is greatly appreciated, but not nearly as much as her mentorship of me over the past seven plus years. I learn from every one of our meetings. And now to refocus on the students who are central to everything we do. We have amazing students supporting OURS. Our GAs, Abby Hardbower and Yasmine Tyler, have managed poster printing, pick up, messaging, and all of the odd jobs associated with running a conference with 500 students and faculty with grace and humor. It is not uncommon to hear laughter in the office, even on stressful days. Maia Grove, as a sophomore is the only member in the office to go through two full forum planning cycles and is a successful researcher and mentor to new researchers. One of those new researchers is Leah Ellis. Her ability to absorb and apply information in a thoughtful manner, be it informational or strategic, is astounding. And lastly, I cannot bee-lieve Skylar Roberson, who I think of as a ray of sunshine, is already graduating. I will miss her love of puns, ability to reflect strategically on the impact of our messaging and programs with students, and caring spirit. The OURS team is made up of very different personalities but all of them are caring, wonderful people, and I am truly lucky to get to work with them. Thank you and enjoy the “forum”!

-With Highlander Pride, Joe Wirgau, Director of OURS
Creativity and Innovation Poster Session 1
2:00 pm – 3:15 pm  Heth 014

How Might We Improve Student Food Security?
Student Presenter(s): Ed Quainoo, Ryan Yates, Jo Jeffers
Faculty Mentor(s): Jane Machin

How Might We Help Student Athletes Succeed?
Student Presenter(s): Jack Campbell, Tommy Costello, Rachael Cullop, Ashlyn Grogan, Jayden Williams
Faculty Mentor(s): Jane Machin

How Might We Help Women Feel Safe When Alone?
Student Presenter(s): Adyson Huff, Sarah Ibrahim, Anna Wilson
Faculty Mentor(s): Jane Machin

How Might We Improve Fast Food Safety?
Student Presenter(s): Caitlin Chi, Cody Parker
Faculty Mentor(s): Jane Machin

How Might We Improve Student Mental Health?
Student Presenter(s): Elijah Jefferies, Lisa Lindstrom, Marykel Ozolins
Faculty Mentor(s): Jane Machin

How Might We Reduce Social Media Addiction?
Student Presenter(s): Alex Fargis, Scotty Paniagua, Nathaniel Smith
Faculty Mentor(s): Jane Machin

How Might We Improve Female Gym Safety?
Student Presenter(s): Deja Cotmon, Ashton Diehl, Keaunna Jones, Aidan Keegan
Faculty Mentor(s): Jane Machin

How Might We Reduce Student Burnout?
Student Presenter(s): Hannah Walters, Zylonis Cannon
Faculty Mentor(s): Jane Machin

How Might We Increase Child Sport Participation?
Student Presenter(s): Christopher Felty, Hunter Howery, Trevor Williams
Faculty Mentor(s): Jane Machin

How Might We Improve Student Mental Health?
Student Presenter(s): Kristina Burry, Cesar Diaz, Alison Stuedemann
Faculty Mentor(s): Jane Machin

How Might We Reduce Texting While Driving?
Student Presenter(s): Ashley Jennings, Callan Phillips
Faculty Mentor(s): Jane Machin

How Might We Improve Student Work Life Balance?
Student Presenter(s): Easton Forbes, Daniel Tyree
Faculty Mentor(s): Jane Machin
Creativity and Innovation Poster Session 1
2:00 pm – 3:15 pm  Heth 014

How Might We Prevent Drunk Driving in Rural Areas?
Student Presenter(s): Hannah Thompson
Faculty Mentor(s): Jane Machin

Criminal Justice Poster Session 1
2:00 pm – 3:15 pm  Heth 014

Should Victims of Child Pornography Undergo Therapy Until the Age of 18?
Student Presenter(s): Kasey Johnston
Faculty Mentor(s): Eric Snow

Lethal Injection and its Ethical Problems
Student Presenter(s): Hannah Anglin
Faculty Mentor(s): Eric Snow

Issues In Correctional System
Student Presenter(s): Makira Bond
Faculty Mentor(s): Eric Snow

Law Enforcement Mental Health
Student Presenter(s): Matt Domin
Faculty Mentor(s): Eric Snow

Human Trafficking In Relation To Child Pornography
Student Presenter(s): Tatianna Footman
Faculty Mentor(s): Eric Snow

Police Officers and Medical Training
Student Presenter(s): David O’Flaherty
Faculty Mentor(s): Eric Snow

Overcrowding In Prisons: Parole
Student Presenter(s): Victoria Roggenbuch
Faculty Mentor(s): Eric Snow

Marijuana Legalization
Student Presenter(s): Kayla Thomas
Faculty Mentor(s): Eric Snow

Cryptocurrency
Student Presenter(s): Nicholas Townsend
Faculty Mentor(s): Eric Snow

Human Trafficking: A Proposal of Policy for Virginia
Student Presenter(s): Cade Fisher
Faculty Mentor(s): Eric Snow

The Mental Health of Law Enforcement Officers
Student Presenter(s): Jamey Bocompani
Faculty Mentor(s): Eric Snow
Criminal Justice Poster Session 1
2:00 pm – 3:15 pm Heth 014

Drug Courts Efficacy
Student Presenter(s): Samantha Huffman
Faculty Mentor(s): Eric Snow

Mental Health within Prisons
Student Presenter(s): Finley Miers
Faculty Mentor(s): Eric Snow

Advertising Strategy Poster Session 1
3:30 pm – 4:45 pm Heth 014

Brand Positioning, Marketing Communications and Media Plan for Budweiser
Student Presenter(s): Emily Brandt
Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for Miller Lite
Student Presenter(s): Sam Filler
Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for Draft Kings
Student Presenter(s): Bryan Bunner
Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for Subaru
Student Presenter(s): Alex Welch
Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for Mercedes Benz
Student Presenter(s): Clara Defazio
Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for Audi
Student Presenter(s): Taylor O’Neal
Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for Ford F-150
Student Presenter(s): Walker Franklin
Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for Toyota Tacoma
Student Presenter(s): Callahan Cochran
Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for Dodge
Student Presenter(s): Evan Blakey
Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for Snickers
Student Presenter(s): Jaquan Perkins
Faculty Mentor(s): Jane Machin
Advertising Strategy Poster Session 1
3:30 pm – 4:45 pm  Heth 014

Brand Positioning, Marketing Communications and Media Plan for M&Ms
Student Presenter(s): Ryan Neil
Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for M&Ms
Student Presenter(s): Samantha Rodriguez
Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for M&Ms
Student Presenter(s): Trevor Williams
Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for YETI
Student Presenter(s): Reid Londeree
Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for YETI
Student Presenter(s): Terrel Smith
Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for L’Oreal
Student Presenter(s): Jaclyn Carpenter
Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for Kylie Cosmetics
Student Presenter(s): Kayla Brown
Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for CoverGirls Cosmetics
Student Presenter(s): Lindsey Haun
Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for XBox
Student Presenter(s): Rye-ail Lewis
Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for Xbox
Student Presenter(s): Shane McCarthy
Faculty Mentor(s): Jane Machin

Honors Capstone Showcases: Poster Session 1
2:30 pm – 3:15 pm  Kyle 340

The Effects of Plantar Self-Myofascial Release on the Flex-Relax
Student Presenter(s): Kirbie Conner
Faculty Mentor(s): David Sallee
31st Annual Student Engagement Forum
April 19th

Honors Capstone Showcases: Poster Session 1
2:30 pm – 3:15 pm    Kyle 340

Changes in Torque with and without an Ankle Brace
Student Presenter(s): Haley Highsmith
Faculty Mentor(s): David Sallee

Student Workers’ Gendered Communication at the Workplace: An Ethnographic study of Radford University Student Workers
Student Presenter(s): Grace Hurst
Faculty Mentor(s): Zehui Dai

Finding Fingerprints
Student Presenter(s): Emily Shelton
Faculty Mentor(s): Eric Snow

Student Choice in Reading
Student Presenter(s): Katrina Todd
Faculty Mentor(s): Kristan Morrison

Flood Model Risk in Dade County, FL
Student Presenter(s): Rand Bohnert
Faculty Mentor(s): Stockton Maxwell

Creative Communication
Student Presenter(s): Janelle Woods
Faculty Mentor(s): Jimmy Ward

Honors Capstone Showcases: Oral Session 1
4:15 pm – 4:30 pm    Kyle 340

Things Not Said Aloud: American Female Confessional Poetry Tradition
Student Presenter(s): Emily Wheeler
Faculty Mentor(s): Sean Keck

Playing for Barry: Personal Narratives on Grief
Student Presenter(s): Kaitlyn Gorodnick
Faculty Mentor(s): Katie Garahan

Stress and Sociality: Exploring the Interface Between Sociality and Stress Response in a Captive Avian Population
Student Presenter(s): Peter Neville
Faculty Mentor(s): Jason Davis

How Curious are You: Effects of Curiosity on Learning
Student Presenter(s): Madison Presley
Faculty Mentor(s): Katie Arnold

Effects of Maternal Separation on Oxytocin Expression in Rats
Student Presenter(s): Lauren Seedlock
Faculty Mentor(s): Dayna Hayes
Honors Capstone Showcases: Poster Session 2
4:30 pm - 5:30 pm    Kyle 340

**Gene Annotation of the Insulin Signaling Pathway in Model Organisms**
Student Presenter(s): Isabella Armstrong
Faculty Mentor(s): Tara Pelletier

**Impact of Mobility Dog Assistance on Gait Patterns**
Student Presenter(s): Emma Bradley
Faculty Mentor(s): David Sallee

**How Courts in Southwest Virginia are Responding to the Opioid Crisis**
Student Presenter(s): Oak Brandshaw
Faculty Mentor(s): Allyson Yankle

**Lean on Me: A Qualitative Exploration of Academic Peer Support Systems at Radford University**
Student Presenter(s): Abby Fulop
Faculty Mentor(s): Stirling Barfield

**Relating Gen Z’s Distrust in Government to Racial Diversity**
Student Presenter(s): Cali Jacobs
Faculty Mentor(s): Allison Wisecup

**Radford University Brain Injury (RUBI) Center Needs Assessment**
Student Presenter(s): Briana Litton
Faculty Mentor(s): Terry Shelor

**Vestibulo- Ocular Reflex Testing of the Collegiate Athlete**
Student Presenter(s): Louisa Peet
Faculty Mentor(s): Lauren Flora

**The Impact of Nonverbal Behavior on Communicative Competence**
Student Presenter(s): Meghan Stinnette
Faculty Mentor(s): Diane Millar

Honors Capstone Showcases: Oral Session 2
5:30 pm - 6:30 pm    Kyle 340

**What’s in your wallet?” A Survey of Federal Prosecution of Credit Card Schemes in Virginia and How Businesses Respond to the Challenge**
Student Presenter(s): Courtney Streeby
Faculty Mentor(s): Robert Warren

**Comparing Chromatography Methods for Quantitative Analysis of Epinephrine Degradation**
Student Presenter(s): Rayshell Torres-Santana
Faculty Mentor(s): Kristina Stefaniak

**Effects of Infant Maternal and Sibling Separation on Development in Rats**
Student Presenter(s): Shane McClaferty
Faculty Mentor(s): Thomas Pierce
Honors Capstone Showcases: Oral Session 2
5:30 pm – 6:30 pm  Kyle 340

The Fragments of Me
Student Presenter(s): Kamaree Ward
Faculty Mentor(s): Sean Keck

Psychology and Gender Research Symposium 1
5:00 pm – 6:00 pm  Heth 014

A Qualitative Exploration of Motivation and Procrastination in College Students during COVID-19
Student Presenter(s): Asaijah Clements, Makyla Edmond, Shanel Henderson, Gracie McDonald, DeJah Wright
Faculty Mentor(s): Stirling Barfield

Strategic Learning: Testing and Feedback on Value-directed Remembering
Student Presenter(s): Ryan Taylor, Madison Presley
Faculty Mentor(s): Kathleen Arnold

The Effects Of Structure Building Ability On Essay-Enhanced Learning
Student Presenter(s): Hannah Benz, Saleena Lynch, Makayla Dulaney, Ryan Taylor
Faculty Mentor(s): Kathleen Arnold

Contribution of Psychological Factors on Predicting Academic Success in First Year College Women
Student Presenter(s): Katelynn LaCombe, Haley Cashwell, Abby Rutigliano
Faculty Mentor(s): Jeffery Aspelmeier, Ann Elliott

Ready or Not?: A Qualitative Exploration of the College Student Experience with Campus Related Mental Health Resources During the COVID-19 Pandemic.
Student Presenter(s): Alexander Altice, Ashley Frederiksen, Kyla Hughes, Kayla Owens, Amanda Radcliffe, Heavon Ratcliff, Abby Rutigliano, Olivia Spencer, Kaylyn Wertz
Faculty Mentor(s): Stirling Barfield

"She’s Hysterical!" The Diagnosis of Hysteria as a Representation of Misogyny and Misunderstanding During Ancient Greece, the Middle Ages, and the Early and Late Modern Period
Student Presenter(s): Brittney Gray, Caitlyn Thelen
Faculty Mentor(s): Ann Elliot

Casting a Long Shadow (in a Good Way): Jung’s Legacy in Media
Student Presenter(s): Jacob Eirich
Faculty Mentor(s): Ann Elliott

Using the Zeitgeist Approach to Study the History of Psychology: Homosexuality as a Diagnosis in the DSM-I
Student Presenter(s): Amanda Pentiah, Hadley Brochu
Faculty Mentor(s): Ann Elliott

Alterations in Orexin Expression Following Cannabinoid Exposure in Rats
Student Presenter(s): Brooklynn Mulholland, Zoe Hannabass, Jewellen Adams
Faculty Mentor(s): Dayna Hayes, Pamela Jackson
Psychology and Gender Research Symposium 1
5:00 pm - 6:00 pm Heth 014

Investigating Bias Towards People With Parasocial Relationships
Student Presenter(s): Hailey Scherer
Faculty Mentor(s): Nicole Iannone

What Was That Word? Investigating The Effects Of Positive, Negative, And Neutral Words On Working Memory Capacity
Student Presenter(s): Kera Ford
Faculty Mentor(s): Erin Kerfoot

The Relationship Between EEG Frequency Components and Reaction Time
Student Presenter(s): Kaylyn Wertz, Hannah Benz, Annemarie Giles, Talia Neal
Faculty Mentor(s): Thomas Pierce

Effect of Job Demands on Cardiovascular Health Outcomes
Student Presenter(s): Alyssa Bardin
Faculty Mentor(s): Jenessa Steele

Cross-Cultural Differences in Age Estimation and Age Bias
Student Presenter(s): Hannah Benz, Hailey Scherer, Gustavo Rodriguez
Faculty Mentor(s): Jenessa Steele

Illusion of Universality and Video Comments
Student Presenter(s): Tiange Dai
Faculty Mentor(s): Jenessa Steele

The Social Effects of Prenatal Exposure to Benzodiazepines in Adolescent Rats
Student Presenter(s): Raegan Forbes
Faculty Mentor(s): Jenessa Steele

P-O Fit And Its Role In Organizational Commitment And Employee Emotional Well-being: The Moderating Effect Of Mask Mandates
Student Presenter(s): John Lees
Faculty Mentor(s): Jenessa Steele

Intergenerational Inheritance of N-methyl-D-aspartate (NMDA) receptors alterations in the Brain of rats.
Student Presenter(s): Claudia Paniagua-Ugarte
Faculty Mentor(s): Jenessa Steele, Pamela Jackson, Dayna Hayes

Developmental Opportunities for Low-level Non-professional Employees in Manufacturing: A Research Proposal
Student Presenter(s): Christina Sanders
Faculty Mentor(s): Jenessa Steele

A Research Proposal Study on Curiosity and Learning Across the Lifespan
Student Presenter(s): Kaylyn Wertz
Faculty Mentor(s): Jenessa Steele
Psychology and Gender Research Symposium 1  
5:00 pm – 6:00 pm  Heth 014

A Qualitative Study on African American Males: The Impact of Stuttering in Educational Settings  
Student Presenter(s): Becca Madgwick, Briana Barnett, Christian Worley  
Faculty Mentor(s): Antonio Ellis

Psychology and Gender Research Symposium: Oral Session  
6:00 pm – 6:30 pm  Heth 022

RU Nurses-in-Training During Covid-19  
Student Presenter(s): Kennedi Johnson, Coleman Gentry  
Faculty Mentor(s): Nora Reilly

Psychology and Gender Research Symposium 2  
6:15 pm – 7:15 pm  Heth 014

William James and Pragmatism  
Student Presenter(s): Kara Doughtie  
Faculty Mentor(s): Ann Elliott

The First Female Presidents of The American Psychological Association: An Overview  
Student Presenter(s): Phoebe Dubois, Hailey Scherer  
Faculty Mentor(s): Ann Elliott

The Effect of Curiosity on Prior Knowledge and Learning  
Student Presenter(s): Ryan Taylor, Madison Presley  
Faculty Mentor(s): Kathleen Arnold

Student Presenter(s): Kaylyn Wertz, Hannah Benz, MaKayla Dulaney  
Faculty Mentor(s): Kathleen Arnold

Pluralistic Ignorance and COVID-19 Behaviors, Vaccination Confidence, and Mask Wearing  
Student Presenter(s): Phoebe Dubois, Hailey Scherer, Tiange Dai, Mia Purcell  
Faculty Mentor(s): Jeff Aspelmeier

Pluralistic Ignorance and Environmental Attitudes: The Moderating Role of Religiosity  
Student Presenter(s): Mia Purcell, Tiange Dai  
Faculty Mentor(s): Jeffery Aspelmeier

A Pandemic Platform: A Qualitative Exploration of College Students and Social Media Use During COVID-19  
Student Presenter(s): Jocelyn Guerrero, Natalie Marcil, Alexis Shelor, Jaden Streeter, Kayleigh Turner, Kaylyn Wertz  
Faculty Mentor(s): Stirling Barfield
Psychology and Gender Research Symposium 2
6:15 pm – 7:15 pm  Heth 014

Psychology During Desegregation
Student Presenter(s): Tiange Dai
Faculty Mentor(s): Ann Elliott

Implicit Racial Bias & Disproportional Discipline Rates Within the K-12 System
Student Presenter(s): Talia Neal
Faculty Mentor(s): Ann Elliott

Chomsky’s Criticisms of Skinner: A Catalyst of the Cognitive Revolution
Student Presenter(s): Ryan Taylor
Faculty Mentor(s): Ann Elliott

Development of a Potential Animal Model of Addison’s Disease
Student Presenter(s): W. Joshua Peadan
Faculty Mentor(s): Dayna Hayes

The Effect of Mortality Salience on FOMO and YOLO
Student Presenter(s): Phoebe Dubois
Faculty Mentor(s): Nicole Iannone

Effectiveness of MindMatters School Mental Health Program in Elementary Schools
Student Presenter(s): Ashley Tysinger
Faculty Mentor(s): Jennifer Mabry

Improving Caretaker Interactions Using the Montessori Approach: How Activities of Daily Living Impact Engagement, Affect, and Stress in Caretaker Interactions with Dementia Patients
Student Presenter(s): Hannah Benz
Faculty Mentor(s): Jenessa Steele

Social Media and Job Strain: The Moderating Effects of Social Media Usage on the Relationship Between Job Demands and Job Strain
Student Presenter(s): William Charnock
Faculty Mentor(s): Jenessa Steele

The Immersive Contact Hypothesis: Can Playing LGBTQ+ Video Games Reduce Transgender Bias?
Student Presenter(s): Jacob Eirich
Faculty Mentor(s): Jenessa Steele

COVID-19 Pandemic Impacts on Frontline Workers’ Emotional Labor and Job Satisfaction
Student Presenter(s): Coleman Gentry
Faculty Mentor(s): Jenessa Steele

Family Supportive Supervisor Training and Work Family Conflict: The Moderating Effect of Family-Supportive Policies
Student Presenter(s): Kirsten Pack
Faculty Mentor(s): Jenessa Steele
Psychology and Gender Research Symposium 2
6:15 pm – 7:15 pm  Heth 014

Impact Of Knowledge On Colonialism On Puerto Rican Mental Health
Student Presenter(s): Gustavo Rodriguez, Hannah Benz, Hailey Scherer
Faculty Mentor(s): Jenessa Steele

The Impact of Filters: Face Aging Technology and Death Salience
Student Presenter(s): Hailey Scherer, Hannah Benz
Faculty Mentor(s): Jenessa Steele

Imposter Feelings and Well-Being: The Roles of Needs Satisfaction, Curiosity, Cognitive Flexibility, and Personality
Student Presenter(s): Stephanie Annis, Allison Love, Ashley Nesmith, Calla Zane, Caitlyn Thelen, Emily Siebach
Faculty Mentor(s): Pei-Chun Tsai

Production Technology Showcase
5:30 pm – 7:00 pm  Hemphill 1006

Faculty Mentor(s):  Matthew R. Turner, West Bowers, and Michael J. Meindl

News Package
Student Presenter: Eloise Sumner

Public Service Announcement
Student Presenter: Hunter Grobosky

Special Effects Project
Student Presenter: Devin Turner

Special Effects Project
Student Presenter: Shawn Banks

Public Service Announcement
Student Presenter: Clay (James) Owens

This Lucky Life
Student Presenter: Madison Hillenberg

This Scary Life
Student Presenter: Nate Torrino

Short Film
Student Presenter: Makayla Stepnowski

Short Film
Student Presenter: Tyrese Hallums

Short Film
Student Presenter: Adam Cox
Innovations in Forensic Science
8:00 am – 9:50 am    Heth 022

The Effect of Manner of Death on the Value of Imaging and Virtopsy in the Medical Examiner’s Office
Student Presenter(s): Kaitlyn Edwards
Faculty Mentor(s): Donna Boyd

Advancements in Forensic Science Research and Their Implications for the Admissibility of Mitochondrial DNA Heteroplasmy in Court
Student Presenter(s): Cassandra Hash
Faculty Mentor(s): Donna Boyd

The Effect of Time Since Death on Forensic Reconstruction of Decedents in a Funerary Context
Student Presenter(s): Andrea Beverley
Faculty Mentor(s): Donna Boyd

Development of Forensic Nursing Standards
Student Presenter(s): Brittany Rakes
Faculty Mentor(s): Donna Boyd

Successful Collection of Fingerprints Through Tape Lifting
Student Presenter(s): Jonah Kennedy
Faculty Mentor(s): Donna Boyd

How Our View of Forensic Photography is Shaped by the Media
Student Presenter(s): Payton Folwer
Faculty Mentor(s): Donna Boyd

Environmental History Showcase
11:00 am – 11:50 am    Heth 022

Environment and Justice: Zayandon Roud Dam, Iran
Student Presenter(s): Naomi Manns, William Dairymple, Daniel Polen, Adam Harrison
Faculty Mentor(s): Brock Cutler

Environment and Justice: Deforestation in Brazil
Student Presenter(s): Gabriel Hessler, Andrew Peck, Madison Meade, Erin Patterson
Faculty Mentor(s): Brock Cutler

Environment and Justice: Three-Mile Island
Student Presenter(s): Cali Jacobs, William Carpender, Kelsey Lander, Cosmo Richmond
Faculty Mentor(s): Brock Cutler

Environmental Justice: Water Crisis in Flint, Michigan
Student Presenter(s): Daniela Rocha, Bryce Davis, Kasey Day, Aiden Hatch
Faculty Mentor(s): Brock Cutler
Exhibiting Ethics
11:00 am – 11:50 am  Heth 016

When social justice issues become the theme of museum exhibitions, does this create ethical issues for the museum? Is it ethical to display the work of artists who have harmed other people? Join us for a discussion.

Student Presenter(s): Maichal Valentine, Heather Dawson, Ian Lupisella, Mina Hatami
Faculty Mentor(s): Roann Barris

Creative Writing in Place
1:00 pm – 1:50 pm  Heth 022

Creative Writing on Place
Student Presenter(s): Casey Cockrum, Kaitlyn Gorodnick, Kris Martin, Emilee Reynolds, Sydni Smith
Faculty Mentor(s): Rick Van noy

Interdisciplinary Research Showcase
1:00 pm – 2:00 pm  Center for the Sciences Lobby

Recovery of Fingerprints on Non-porous Hard Surfaces
Student Presenter(s): Lexi Cobb
Faculty Mentor(s): Eric Snow, Riane Bolin

Sustainable Fashion Practices of Himachal Pradesh
Student Presenter(s): Ryan Coleman
Faculty Mentor(s): Rebecca Dias

The Sexual Assault Continuum and The Reporting Process at Radford University
Student Presenter(s): Lauren Craddock
Faculty Mentor(s): Michele Ren

Records Recovery For The Christiansburg Institute
Student Presenter(s): Victoria Dean, Katie Bellomo, Aly Carneal, Dravon Mangum, Shaquan Jules
Faculty Mentor(s): Joanna Hunter

Analysis of E. coli Beta-Glucuronidase
Student Presenter(s): Ashton Ennis
Faculty Mentor(s): Kimberly Lane

A Survey on Sustainability
Student Presenter(s): Abbi Green, Amber Stovall, Erica Williams, Mandi Gills
Faculty Mentor(s): Josh Nease

The Ethics of Clean Water
Student Presenter(s): Gabrielle Spennacchio-Parker
Faculty Mentor(s): Heather Keith, Joe Wirgau

The Life from Death
Student Presenter(s): Gabriel Tieskotter
Faculty Mentor(s): Jamie Lau
Imposter Feelings and Well-Being: The Roles of Needs Satisfaction, Curiosity, Cognitive Flexibility, and Personality
Student Presenter(s): Stephanie Annis, Allison Love, Ashley Nesmith, Calla Zane, Caitlyn Thelen, Emily Siebach
Faculty Mentor(s): Pei-Chun Tsai

Trends In Outdoor Spending
Student Presenter(s): Jeremy Armentrout
Faculty Mentor(s): Anja Whittington

Analyzing the Presence and Concentration of Airborne Microplastics Using Python and Photo Analysis Techniques
Student Presenter(s): Julia Buccola
Faculty Mentor(s): Rhett Herman

Blueberries as an Anti-Inflammatory: How do they Effect IL-6 in Mice Susceptible to Atherosclerosis?
Student Presenter(s): Leah Ellis
Faculty Mentor(s): Melissa Grim

Cybercrime with Focus on Youth
Student Presenter(s): Lauren Griffin
Faculty Mentor(s): Kyshawn Smith
During my experience as a highlander research rookie, I had the opportunity to focus on my critical thinking skills, analytical skills, and social skills. I have also learned the importance of networking with peers. There is an abundance of knowledge to gain when surrounded by other research rookies!

~Jayla R, Sophomore Criminal Justice Major
Interdisciplinary Research Showcase
1:00 pm – 2:00 pm    Center for the Sciences Lobby

Disparities in Healthcare Services for Black Women
Student Presenter(s): Shamani Jackson
Faculty Mentor(s): Matthias Naleppa

The Impact of College Students on Eastern Grey Squirrel Foraging Behavior
Student Presenter(s): Damaris Forkey
Faculty Mentor(s): Allison Wisecup

Mental Health In Southeast Asia
Student Presenter(s): Jeffrey Jenkins
Faculty Mentor(s): Paige Tan

Analysis Of Function Of Pottery Sherds Found At The Carroll Cabin Site
Student Presenter(s): Haley Osborne
Faculty Mentor(s): David Anderson

Unknown Object from The Carroll Cabin Site
Student Presenter(s): Tana Vance
Faculty Mentor(s): David Anderson

Discovering New Functions of Tortellini Bacteriophage
Student Presenter(s): Melissa Ifidzhen
Faculty Mentor(s): Amanda Raimer

Impact of Undergraduate Research on Student Engagement
Student Presenter(s): Riley Petroski
Faculty Mentor(s): Joe Wirgau

Geospatial Science Poster Session
1:00 pm – 2:00 pm    Reed Hall Artis Atrium

Relationship Between Land Use/Land Cover Trends and Flood Risk In Miami-Dade County
Student Presenter(s): Rand Bohnert
Faculty Mentor(s): Stockton Maxwell

Land Use and Land Cover Change Due to the Syrian Civil War in the Idlib Region
Student Presenter(s): Zachary Dolan
Faculty Mentor(s): Stockton Maxwell

Power Outage Prediction in Southwest Virginia
Student Presenter(s): Jeremy Meraz
Faculty Mentor(s): Stockton Maxwell

Wetland Importance in Coastal Virginia
Student Presenter(s): Andrew Will
Faculty Mentor(s): Stockton Maxwell
Geospatial Science Poster Session
1:00 pm – 2:00 pm  Reed Hall Artis Atrium

How Peru’s Highway 30C Affects Deforestation in the State of Madre de Dios
Student Presenter(s): Andrew Richmond
Faculty Mentor(s): Stockton Maxwell

Habitat Suitability Model on Common Brass Buttons in California
Student Presenter(s): Erin Rittenhouse
Faculty Mentor(s): Stockton Maxwell

More Than Controlling A River
Student Presenter(s): Patrick Schrader
Faculty Mentor(s): Richard Maxwell

Comparing Hurricane Katrina and Hurricane Ida Using Change Detection Analysis
Student Presenter(s): Baylor Godfrey
Faculty Mentor(s): Stockton Maxwell

Investigating Deer-Vehicle Collisions in Southwest Virginia using a Habitat Sustainability Model and Collision Data
Student Presenter(s): Bruce DeMars
Faculty Mentor(s): Stockton Maxwell

New Beginnings in Modern Art
2:00 pm – 2:50 pm  Heth 022

When did modernism begin in art? Can we point to a particular art work or event as the start of modernism?

Student Presenter(s): Makayla Brooks, Allison Cooper, Heather Dawson, Gracie Hogan, Bryce Holland, Christopher Piper, Cal Reiter, Emma Stamper, Zach Stone, Maichal Valentine
Faculty Mentor(s): Roann Barris

Preparing to Teach Diverse Women Writers in Hostile Times
4:00 pm – 5:15 pm  Heth 022

Preparing to Teach Diverse Women Writers in Hostile Times
Student Presenter(s): Samantha Conner, Colton Heitzman-Breen, Hannah Kennedy, Jamie Morgan, Kali Smith, Summer Speach
Faculty Mentor(s): Michele Ren

Arctic Geophysics Oral Session
6:00 pm – 9:30 pm  Center for the Sciences Planetarium

Analyzing the Presence and Concentration of Airborne Microplastics Using Python and Photo Analysis Techniques
Student Presenter(s): Julia Buccola
Faculty Mentor(s): Rhett Herman

Exploring the Ever Changing Conditions of Arctic Sea Ice
Student Presenter(s): Logan Dovidio
Faculty Mentor(s): Rhett Herman
Arctic Geophysics Oral Session
6:00 pm – 9:30 pm  Center for the Sciences Planetarium

Cryoseismic Study of the Arctic Sea Ice
Student Presenter(s): Jonathan Halferty
Faculty Mentor(s): Rhett Herman

Observation of Arctic Sea Ice's Boundary Layer at Surface Level
Student Presenter(s): Julian Miller
Faculty Mentor(s): Rhett Herman

Water Pressure of the Arctic Sea Ice and Sea Level Changes
Student Presenter(s): Deanna Perales
Faculty Mentor(s): Rhett Herman

The Effect of Water Velocity on Water Turbidity Under Alaskan Sea Ice
Student Presenter(s): Grace Psenicska
Faculty Mentor(s): Rhett Herman

Arctic Atmospheric Diode Laser-Based Particle Detector
Student Presenter(s): Sami Reitz
Faculty Mentor(s): Rhett Herman
Arctic Geophysics Oral Session
6:00 pm – 9:30 pm  Center for the Sciences Planetarium

Quantifying Environmental DNA in Arctic Sea Ice and Water Column
Student Presenter(s): Gabriella Richards
Faculty Mentor(s): Rhett Herman

Measuring Vertical Thermal Gradient of Arctic Sea Ice off the Coast of Utqiagvik, Alaska
Student Presenter(s): Jasmine Rollins
Faculty Mentor(s): Rhett Herman

The Effect of Terrain on Local Fluid Dynamics
Student Presenter(s): Nick Terehoff
Faculty Mentor(s): Rhett Herman

Measuring Flexural Strength of Sea Ice in the Field with a Homemade Apparatus
Student Presenter(s): Matthew White
Faculty Mentor(s): Rhett Herman

Correlation of Planetary Seismic Activity with Increased Frequency of Cryoseismic Activity and Acceleration of Anthropogenic Climate Change
Student Presenter(s): Samuel Williams
Faculty Mentor(s): Rhett Herman
Impact of 8-week Physical Activity Program Control on Glucose Control on Diabetic Patients
Student Presenter(s): Denesha Harris
Faculty Mentor(s): Melissa Grim

Do Structural Abnormalities Increase the Likelihood of a Labral Hip Tear Over Time?
Student Presenter(s): Siena Barnes
Faculty Mentor(s): Melissa Grim

Risks and Prevention of Falling Among Older Community Dwelling Adults
Student Presenter(s): Armonte Carter
Faculty Mentor(s): Melissa Grim

Impact of Helmet Designs and Shape on Concussions in High School Football Players
Student Presenter(s): Chasity Eacho-Cooper
Faculty Mentor(s): Melissa Grim

Impact of Hydration on Muscular Performance in Collegiate Wrestlers
Student Presenter(s): David Galloway
Faculty Mentor(s): Melissa Grim

Effects of Cognitive Function on NFL Players
Student Presenter(s): Casey Kramer
Faculty Mentor(s): Melissa Grim

The Effect of Olympic Weightlifting Shoes Versus Flat-soled Training Shoes on the Power Output of a Back Squat
Student Presenter(s): Joseph Majewicz
Faculty Mentor(s): Melissa Grim

Effectiveness of an Eight Week Healthy Eating Program vs an Eight Week Physical Activity Program in Reducing Body Composition in Children With Autism Spectrum Disorder
Student Presenter(s): Caroline Mullins
Faculty Mentor(s): Melissa Grim

Return on Investment for Athletic Trainers: A Correlative Analysis
Student Presenter(s): Kimani Parker
Faculty Mentor(s): Melissa Grim

Evaluation And Benefits Of Mindfulness-Based And Acceptance-Based Interventions Of College Student-Athletes
Student Presenter(s): Jasmine Anderson
Faculty Mentor(s): Melissa Grim

Evaluation of a Mindfulness-Based and Acceptance-Based Intervention of College Student-Athletes
Student Presenter(s): Jasmine Anderson
Faculty Mentor(s): Melissa Grim
Comparison of Therapeutic Interventions Overall Effectiveness in Rehabilitation of Stroke Patients
Student Presenter(s): Claudia Jordan
Faculty Mentor(s): Melissa Grim

What Non-Medicinal Treatment is Best for Fibromyalgia Pain
Student Presenter(s): Hannah Morris
Faculty Mentor(s): Melissa Grim

Impact of a Professional-Led Rehabilitation Program for Baseball Pitchers After SLAP Tear Repair
Student Presenter(s): Kaylee Roberts
Faculty Mentor(s): Melissa Grim

Efficacy of Non-pharmacological Treatment Versus Pharmacological Treatment of Chronic Migraines
Student Presenter(s): Tiffany Dobbins
Faculty Mentor(s): Melissa Grim

Chronic Traumatic Encephalopathy
Student Presenter(s): Kyle Acree
Faculty Mentor(s): Melissa Grim

Comparing and Evaluating the Influences That Contribute to Disordered Eating in Female Gymnasts Ages 14-18
Student Presenter(s): Julianne Albury
Faculty Mentor(s): Melissa Grim

Change in Bone Density in Collegiate Steeplechasers After a Competitive Season of Running the 3000m Steeplechase
Student Presenter(s): Kayland Bond
Faculty Mentor(s): Melissa Grim

Dry Needling Versus Manual Therapy: Which is More Effective in Reducing Myofascial Trigger Point Pain?
Student Presenter(s): Olivia Hanawalt
Faculty Mentor(s): Melissa Grim

Are Adolescent Athletes Who Have Previous ACL Tear at Greater Risk for ACL Tear than Adolescent Athletes Who Have Not Had a Previous ACL Tear?
Student Presenter(s): Nigeria Hooker
Faculty Mentor(s): Melissa Grim

Reducing Sudden Cardiac Arrest in Athletes
Student Presenter(s): Kajesha Taylor
Faculty Mentor(s): Melissa Grim
Olympic Weightlifting vs Traditional Compound Lifts: Which is Better for Improving Athletic Performance?
Student Presenter(s): Matthew Roberts
Faculty Mentor(s): Melissa Grim

Impact of Mobility Dog Assistance on Gait Patterns
Student Presenter(s): Emma Bradley
Faculty Mentor(s): Melissa Grim

Comparing Recovery Time After Myositis Ossificans Surgery between Teens and Adult
Student Presenter(s): Rafael Laureano
Faculty Mentor(s): Melissa Grim

Effects Caffeinated Pre-workout has on Strength and Endurance in Female Strength Trainers
Student Presenter(s): Emily Moran
Faculty Mentor(s): Melissa Grim

Comparison of Recurring Shoulder Injuries Between Professional Football and Baseball Players
Student Presenter(s): Jalen Revell
Faculty Mentor(s): Melissa Grim

Effectiveness of Spinal Manipulation in the Treatment of Frequent Migraines
Student Presenter(s): Zachary Worthman
Faculty Mentor(s): Melissa Grim

The Impact of Injury Prevalence in Adaptive Athletes
Student Presenter(s): Cynthia Hinds
Faculty Mentor(s): Melissa Grim

Retired NFL Players Number and Severity of Concussions and the Risk for CTE
Student Presenter(s): Carter Mason
Faculty Mentor(s): Melissa Grim

Effect of Shoe Collar Height on Injury Risk
Student Presenter(s): Matthew Wall
Faculty Mentor(s): Melissa Grim

Impact of the COVID-19 Pandemic on the Mental Health of Female College Students
Student Presenter(s): Peyton Bailey
Faculty Mentor(s): Melissa Grim
Health and Human Performance Research Methods Showcase

2:00 pm - 3:15 pm  Kyle 340

The Effect of Prenatal Use of Selective Serotonin Reuptake Inhibitors on the Rate of Autism in Children
Student Presenter(s): Carly Griffith
Faculty Mentor(s): Melissa Grim

Training to Bend, Not to Break: An ACL Injury Prevention Training Program for Gymnasts
Student Presenter(s): Megan Hodges
Faculty Mentor(s): Melissa Grim

The Link Between Clinically Diagnosed Depression in Young Adults and a 6-week HIIT Program
Student Presenter(s): Anna Hopkins
Faculty Mentor(s): Melissa Grim

A Pilot Study: Body Weight Support Treadmill Training Effect on Trunk Control in Patients with Multiple Sclerosis
Student Presenter(s): Paige Hopkins
Faculty Mentor(s): Melissa Grim

Comparison of Pre and Post-Test Performance Indicators in NFL Players With ACL Tears
Student Presenter(s): Christian Storey
Faculty Mentor(s): Melissa Grim

Health and Human Performance Research Methods Showcase

3:30 pm - 4:45 pm  Kyle 340

The Effects of an 8-week Aerobic Training Program on Female Smokers Compared to Male Smokers
Student Presenter(s): Dylan Krantz
Faculty Mentor(s): Melissa Grim

Efficacy of Peer-Mediated Intervention Versus Traditional Support for Children Who Have Autism Spectrum Disorder.
Student Presenter(s): Jessica Powell
Faculty Mentor(s): Melissa Grim

The Long-Term Effects of an Achilles Tendon Tear in the National Basketball Association
Student Presenter(s): Kyuntya Ingram
Faculty Mentor(s): Melissa Grim

The Effectiveness of Preparticipation Screenings in Young Athletes
Student Presenter(s): Arlisha Boykins
Faculty Mentor(s): Melissa Grim

Identification Of Cognitive And Psychological Factors Associated With Concussion In NFL Players
Student Presenter(s): Hunter Howery
Faculty Mentor(s): Melissa Grim
The Factors of Anxiety in Transitioning College Students  
Student Presenter(s): Phoenix Norris  
Faculty Mentor(s): Melissa Grim

Health and Human Performance Research Methods Showcase  
3:30 pm – 4:45 pm  Kyle 340

Comparison of Methods to Assess Long-term Changes on the Brain After Concussion  
Student Presenter(s): Elizabeth Warren  
Faculty Mentor(s): Melissa Grim

Prevalence of Dyslexia in Premature Versus Full Term Kindergarten Students  
Student Presenter(s): Keidra Woodson  
Faculty Mentor(s): Melissa Grim

Biomechanics Research Showcase  
2:00 pm – 3:15 pm  Kyle 340

Flex Neck: An Examination of Cervical Spine Mobility in Relation to the Flex-Relax Cycle  
Student Presenter(s): Skylar Roberson  
Faculty Mentor(s): David Sallee

Shoulder Mobility and Posture  
Student Presenter(s): Gracie Davis  
Faculty Mentor(s): David Sallee

Comparison of Muscle Activation in the Flex Relax Cycle with Spinal Erector Activity in a Stacking Task  
Student Presenter(s): Meredith Miles  
Faculty Mentor(s): David Sallee

Gait Patterns and Postural Differences Between Non-Dancers and Dancers  
Student Presenter(s): Lily Perkins  
Faculty Mentor(s): David Sallee

The Impact of Knee Brace on Knee Torque  
Student Presenter(s): Kennedy Thomas  
Faculty Mentor(s): David Sallee

Biomechanics Research Showcase  
3:30 pm – 4:45 pm  Kyle 340

Rolling Through Port De Bras  
Student Presenter(s): Megan Hodges  
Faculty Mentor(s): Laura Newsome, David Sallee

The Impact of Arch Taping on Arch Mechanics  
Student Presenter(s): Rachel Bird  
Faculty Mentor(s): David Sallee

The Effects of Self-Myofascial Release on the Flex-Relax Cycle  
Student Presenter(s): Kirbie Conner  
Faculty Mentor(s): David Sallee
The Effect of Myofascial Release by Foam Rolling on the Quads and Hamstrings During the Gait Cycle
Student Presenter(s): Tiffany Dobbins
Faculty Mentor(s): David Sallee

Biomechanics Research Showcase
3:30 pm – 4:45 pm    Kyle 340

Impact of Ankle Taping on Arch Mechanics
Student Presenter(s): Makayla Felts
Faculty Mentor(s): David Sallee

Muscle Activation in the Conventional and Sumo Deadlift in Advanced Weightlifters
Student Presenter(s): Regan Lynn
Faculty Mentor(s): David Sallee, Dr. Laura Newsome

An Examination Of The Impact Of Ankle Surgery In A Softball Athlete.
Student Presenter(s): Lauren Stuart
Faculty Mentor(s): David Sallee

Topics in Asian Art
2:00 pm – 3:15 pm    Heth 022
Students will present key issues surrounding early Art from India and China. Short presentations followed by group discussion and questions and answers.
Student Presenter(s): Pigeon Burns, Jake Conner, Sofia Grochowski, Elija Hilliard, Tori McCary, Kevin Meredith, Kathryn Pond, Kayla Walker
Faculty Mentor(s): Carlee Bradbury

Creativity and Innovation Poster Session 2
2:00 pm – 3:15 pm    Kyle 340

How Might We Reduce Fast Fashion Waste?
Student Presenter(s): Eileen Barton, Sierra Brown, Skylar Brown, Arianna White
Faculty Mentor(s): Jane Machin

How Might We Reduce Student Debt?
Student Presenter(s): Levi China, Kent Clark
Faculty Mentor(s): Jane Machin

How Might We Improve Actor Mental Health?
Student Presenter(s): Eli Ayers, Reed Boschen
Faculty Mentor(s): Jane Machin

How Might We Reduce Infant Hot Car Deaths?
Student Presenter(s): Allison Faulkner
Faculty Mentor(s): Jane Machin

How Might We Help Stressed Students Succeed?
Student Presenter(s): Brenston Furr
Faculty Mentor(s): Jane Machin

How Might We Reduce Imposter Syndrome?
Student Presenter(s): Semra Mengistu
Faculty Mentor(s): Jane Machin
How Might We Improve Student Food Literacy?
Student Presenter(s): Stephen Semones
Faculty Mentor(s): Jane Machin

Creativity and Innovation Poster Session 2
2:00 pm – 3:15 pm  Kyle 340

How Might We Reduce Educational Inequality
Student Presenter(s): Casey Tiernan
Faculty Mentor(s): Jane Machin

How Might We Improve Student Mental Health?
Student Presenter(s): Leila Hamze, Tyler Jackson
Faculty Mentor(s): Jane Machin

How Might We Improve Retention of BIPOC Students?
Student Presenter(s): Jessica Rose, Demarius Thornton
Faculty Mentor(s): Jane Machin

How Might We Help Sick Students Succeed Academically?
Student Presenter(s): Marissa Gillenwater, Dylan Vincent
Faculty Mentor(s): Jane Machin

Criminal Justice Poster Session 2
2:00 pm – 3:15 pm  Kyle 340

The Approaches To Proactive Policing
Student Presenter(s): Jacob Cornelius
Faculty Mentor(s): Eric Snow

Gun Control Laws
Student Presenter(s): Karson Hawkins
Faculty Mentor(s): Eric Snow

Probation Reform
Student Presenter(s): Taylor Jamison
Faculty Mentor(s): Eric Snow

Prison Overcrowding
Student Presenter(s): DaniJo Neuman
Faculty Mentor(s): Eric Snow

The Reliability of Eyewitness Testimony
Student Presenter(s): Hannah Simpkins
Faculty Mentor(s): Eric Snow

Solitary Confinement
Student Presenter(s): Kasey Tolley
Faculty Mentor(s): Eric Snow

The Opioid Crisis
Student Presenter(s): Sarah Vinter
Faculty Mentor(s): Eric Snow
School Shootings  
Student Presenter(s): Hailey Flowers  
Faculty Mentor(s): Eric Snow

**Criminal Justice Poster Session 2**  
2:00 pm – 3:15 pm  Kyle 340

Body-Worn Cameras  
Student Presenter(s): Sadie Gallagher  
Faculty Mentor(s): Eric Snow

Sexual Assault  
Student Presenter(s): Nicole Odvina  
Faculty Mentor(s): Eric Snow

The Opioid Crisis  
Student Presenter(s): Brianna Parker  
Faculty Mentor(s): Eric Snow

Alternatives to Juvenile Incarceration  
Student Presenter(s): Rachel Silverman  
Faculty Mentor(s): Eric Snow

Individuals Incarcerated For Crimes They Did Not Commit  
Student Presenter(s): Ariel Beltran  
Faculty Mentor(s): Eric Snow

Juvenile justice  
Student Presenter(s): Luis Martinez  
Faculty Mentor(s): Eric Snow

Theft and Burglary of Firearms from Vehicles and Residences: Translating Research to Practice  
Student Presenter(s): Dana Ours  
Faculty Mentor(s): Rachel Santos

**Advertising Strategy Poster Session 2**  
3:30 pm – 4:45 pm  Kyle 340

Brand Positioning, Marketing Communications and Media Plan for Tide  
Student Presenter(s): Christian Sims  
Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for Colgate  
Student Presenter(s): Morgan Kleene  
Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for CeraVe  
Student Presenter(s): Maddie Davis  
Faculty Mentor(s): Jane Machin

Brand Positioning, Marketing Communications and Media Plan for Reed Smith Guitars  
Student Presenter(s): Alyssa Brown  
Faculty Mentor(s): Jane Machin
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<th>Brand Positioning, Marketing Communications and Media Plan for Starbucks</th>
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<tr>
<td>Student Presenter(s): Kendra Johnston</td>
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<td>Faculty Mentor(s): Jane Machin</td>
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**Advertising Strategy Poster Session 2**

**3:30 pm – 4:45 pm**

**Kyle 340**

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<th>Brand Positioning, Marketing Communications and Media Plan for Chewy</th>
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<tr>
<td>Student Presenter(s): Olivia Wright</td>
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<td>Faculty Mentor(s): Jane Machin</td>
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<th>Brand Positioning, Marketing Communications and Media Plan for Doritos</th>
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<td>Student Presenter(s): Elijah Dunford</td>
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<td>Faculty Mentor(s): Jane Machin</td>
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<th>Brand Positioning, Marketing Communications and Media Plan for Pringles</th>
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<tr>
<td>Student Presenter(s): Katey Fruehauf</td>
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<td>Faculty Mentor(s): Jane Machin</td>
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<th>Brand Positioning, Marketing Communications and Media Plan for Adidas</th>
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<td>Student Presenter(s): Hunter Fasold</td>
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<td>Faculty Mentor(s): Jane Machin</td>
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<td>Student Presenter(s): Kevin Ward</td>
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<td>Faculty Mentor(s): Jane Machin</td>
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<th>Brand Positioning, Marketing Communications and Media Plan for Dr. Pepper</th>
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<td>Student Presenter(s): Esperanza Almeda</td>
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<td>Faculty Mentor(s): Jane Machin</td>
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<th>Brand Positioning, Marketing Communications and Media Plan for Pepsi</th>
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<tr>
<td>Student Presenter(s): Haley Holt</td>
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<td>Faculty Mentor(s): Jane Machin</td>
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<th>Brand Positioning, Marketing Communications and Media Plan for Gatorade</th>
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<tr>
<td>Student Presenter(s): Tyler Hull</td>
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<td>Faculty Mentor(s): Jane Machin</td>
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<th>Brand Positioning, Marketing Communications and Media Plan for Coca Cola</th>
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<td>Student Presenter(s): Helu Markos</td>
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<td>Faculty Mentor(s): Jane Machin</td>
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<th>Brand Positioning, Marketing Communications and Media Plan for Apple</th>
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<tr>
<td>Student Presenter(s): Evelyn Melvin</td>
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<td>Faculty Mentor(s): Jane Machin</td>
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<th>Brand Positioning, Marketing Communications and Media Plan for Alexa</th>
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<tr>
<td>Student Presenter(s): Karsen Powers</td>
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<td>Faculty Mentor(s): Jane Machin</td>
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<th>Brand Positioning, Marketing Communications and Media Plan for Garmin</th>
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<td>Student Presenter(s): Parker Heptinstall</td>
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<td>Faculty Mentor(s): Jane Machin</td>
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Brand Positioning, Marketing Communications and Media Plan for Stihl  
Student Presenter(s): Kyle Dant  
Faculty Mentor(s): Jane Machin

**Interdisciplinary Oral Presentations**  
3:30 pm – 5:00 pm  Heth 022

**Exploring Athletic Identity, Major Choice, and Career Aspiration Among College Athletes**  
Student Presenter(s): Benjamin Pinckney  
Faculty Mentor(s): Tiesha Martin

**Preserving Black Graves in Southwest Virginia Through Grant Writing**  
Student Presenter(s): Tyanna Davis, Nykira Taylor, Anderson Bonilla Ramirez, Jamar Banks, Eva Waddell  
Faculty Mentor(s): Joanna Hunter

**Digitizing Local History: Ernest Balarzs**  
Student Presenter(s): Katelin Hobbs, Michael Murn, Demiah Smith  
Faculty Mentor(s): Matthew Oyos

**Drone Pwn: Unmanned Arial Systems Security**  
Student Presenter(s): Sam Williams, Wes Noffsinger  
Faculty Mentor(s): Hwajung Lee

**Chemistry Oral Presentations**  
3:30 pm – 4:45 pm  Hemphill 3016

**The Determination of Metal, Enzyme, and Sugar Content in Pineapples**  
Student Presenter(s): Brandon Pitzer  
Faculty Mentor(s): Cindy Burkhardt

**Exploring Laccase and Its Involvement in the Degradation of Antibiotics**  
Student Presenter(s): Benjamin Dearborn  
Faculty Mentor(s): Sarah Kennedy

**Mountain Valley Pipelines Impact on the Water Chemistry of Surrounding Tributaries and Streams**  
Student Presenter(s): Patrick Galyean  
Faculty Mentor(s): Kristina Stefaniak

**Chemistry Poster Session**  
5:00 pm – 6:15 pm  Center for the Sciences Lobby

**Quantitation of Nicotine and Alkaloids in Tobacco**  
Student Presenter(s): Brooke Baumgarten  
Faculty Mentor(s): Cindy Burkhardt

**Molecular Orbital Study of a New Class of Large Cage Fullertube**  
Student Presenter(s): Kiersten Smith, Elizabeth Lee, Fiona Steinour  
Faculty Mentor(s): Timothy Fuhrer

**Analysis of E. coli β-Glucuronidase**  
Student Presenter(s): Ashton Ennis
Faculty Mentor(s): Kimberly Lane

**Desymmetrization of a 1,2-diol with Chiral Ketones**
Student Presenter(s): Keyvanta Watson
Faculty Mentor(s): Christopher Monceaux

**Chemistry Poster Session**
5:00 pm – 6:15 pm Center for the Sciences Lobby

**Investigation Of Organic Chemicals And Metals Found In The Roanoke River**
Student Presenter(s): Dalia Jafar
Faculty Mentor(s): Kristina Stefaniak

**Determining the Best Technique for Quantifying Caffeine in Energy Drinks**
Student Presenter(s): Sirmion Jenerette
Faculty Mentor(s): Kristina Stefaniak

**Development of a Nano-Carbon Based Solid Acid Catalyst for use in Esterification Reactions**
Student Presenter(s): Dorian Custer
Faculty Mentor(s): Francis Webster

**Multicomponent Layer-by-Layer Films of Nano-Carbon/Titanium Dioxide/Chitosan as a Platform for Photocatalysis**
Student Presenter(s): Drew Reavis
Faculty Mentor(s): Francis Webster

**Nano-carbon/Tungsten Trioxide Nanoparticle Self-Assembled Films for the Photocatalytic Degradation of Pollutants**
Student Presenter(s): Evan Wood
Faculty Mentor(s): Francis Webster

**Biology Poster Session**
5:00 pm – 6:15 pm Center for the Sciences Lobby

**Orphaned vs. Adult Care for Eastern Gray Squirrels (Sciurus carolinensis) and Virginia Opossums (Didelphis virginiana) at the Southwest Virginia Wildlife Center of Roanoke**
Student Presenter(s): Kendra Cattanach
Faculty Mentor(s): Karen Powers

**Secret Salamanders: Predicting Hidden Genetic Diversity in Salamanders Using Geographic, Climatic, and Life History Traits**
Student Presenter(s): Abbi Green
Faculty Mentor(s): Tara Pelletier

**Use of HepaRG Cells as an Experimental Model to Study Human Cytochrome P450s**
Student Presenter(s): Affiba M Beke, Camryn Williford
Faculty Mentor(s): Peter Christmas

**Using Unmanned Aerial Systems to Map a Stream Ecosystem Affected by the Mountain Valley Pipeline**
Student Presenter(s): Mandi Gills
Faculty Mentor(s): Jamie Lau, Matt White, George Stephenson
Green or Greenwashing?: A look into the Life Cycle of the Polylactic Acid Utensils Used At Radford
Student Presenter(s): Alayna Carter
Faculty Mentor(s): Jamie Lau, Sarah Kennedy

**Biology Poster Session**
5:00 pm - 6:15 pm  Center for the Sciences Lobby

The Toxicity In Phage Genomes
Student Presenter(s): Derrick Sutton, Damaris Forkey
Faculty Mentor(s): Tara Pelletier

Effect Of Aspect On Bird-Window Collision Rates At Radford University
Student Presenter(s): Acalia Carter-Martin
Faculty Mentor(s): Karen Powers

Seasonal Surveys of Resident Bird Communities Around High-Impact Bird Collision Sites on Campus
Student Presenter(s): Damaris Forkey, Alyssa Dean
Faculty Mentor(s): Karen Powers

Techniques and Trends in Aging Carcasses of Bird-window Collisions in the New River Valley
Student Presenter(s): Savannah Lancaster, Rebecca Salen
Faculty Mentor(s): Karen Powers

Lyme Disease in Dogs and Trends in Positivity at a Local Animal Clinic
Student Presenter(s): Kayla Wines
Faculty Mentor(s): Karen Powers

Equine Rehabilitation at J&L Animal Rescue
Student Presenter(s): Bianca Plowman
Faculty Mentor(s): Karen Powers

Discovery of Genetic Functions in Bacteriophage Tortellini
Student Presenter(s): Emma Hendrix
Faculty Mentor(s): Amanda Raimer

Eastern Box Turtles Rehabilitation: Ailments, Treatments, and Success Rates
Student Presenter(s): Jadelyn Smith
Faculty Mentor(s): Karen Powers
31st Annual Student Engagement Forum

Flash Talks
6:00 pm – 6:50 pm   Center for the Sciences M073

Is the Power of Nature the New Cure?
Student Presenter(s): Cynthia Alfaro
Faculty Mentor(s): Christine Small

If Your Mouth Doesn’t Say It, Your Biopsy Will
Student Presenter(s): Kaliana Beard
Faculty Mentor(s): Christine Small

Are Your Hands Clean?
Student Presenter(s): Alannah Bratten
Faculty Mentor(s): Christine Small

Bundles of Atoms and Energy
Student Presenter(s): Gigi Burns
Faculty Mentor(s): Christine Small

RU Dining: Green or Greenwashing?
Student Presenter(s): Alayna Carter
Faculty Mentor(s): Christine Small

Buzz Off Convensional Farming
Student Presenter(s): Brian Currin
Faculty Mentor(s): Christine Small
**Flash Talks**

6:00 pm – 6:50 pm  Center for the Sciences M073

**Manatees in Mayhem**  
Student Presenter(s): Miranda Fatum  
Faculty Mentor(s): Christine Small

**Ticked Off: Ectoparasites of the Allegheny Woodrat**  
Student Presenter(s): Sierra Felty  
Faculty Mentor(s): Christine Small

**Light's On, No One's Home: Effects of Human Interference on Glow Worm Populations**  
Student Presenter(s): Damaris Forkey  
Faculty Mentor(s): Christine Small

**Repairing Our Damage: The Role of Top Predator Reintroduction in Ecosystem Restoration**  
Student Presenter(s): Haley Howerin  
Faculty Mentor(s): Christine Small

**A Pint for You and A Pint for Gluten Sensitive Friends**  
Student Presenter(s): Katarina McCann  
Faculty Mentor(s): Christine Small

**Blue Light Never Says Goodnight**  
Student Presenter(s): Carolyn Ogle  
Faculty Mentor(s): Christine Small

**Love, Hormones, and Divorce**  
Student Presenter(s): Jannet Ortiz  
Faculty Mentor(s): Christine Small

**You are What You Eat: How Diet Influences the Powerful Gut Microbiome**  
Student Presenter(s): Sarah Sabbagh  
Faculty Mentor(s): Christine Small

**The MVP is Not the MVP: Pipeline Construction Dangers to Local Waterways**  
Student Presenter(s): Elise Simmons  
Faculty Mentor(s): Christine Small

**Whipple Surgery: Don’t Let Whipple Whip You**  
Student Presenter(s): Hannah Stuart  
Faculty Mentor(s): Christine Small
Fresh Fruit Friday: Genetics Edition
8:45 am – 10:00 am  Reed Hall Artis Lobby

Finding Gene Functions Within a Novel Bacteriophage Genome.
Student Presenters: Alexander McVicker, Andrew Cardenas, Elizabeth Burrell, Sydni Smith
Faculty Mentor(s): Amanda Raimer

Nicole21, Who is she?
Student Presenters: Hannah Tuberson, Emily Spingarn, Sierra Stephens, Acalia Carter-Martin
Faculty Mentor(s): Amanda Raimer

Annotation of the Bacteriophage Nicole_21 Using Bioinformatic Techniques
Student Presenters: Emma Hendrix, Janita Lyde, Jordan Lockhart, Aalyssa Litts
Faculty Mentor(s): Amanda Raimer

Nicole 21 and the Undiscovered Functions of its Genes
Student Presenters: Kendra Earls, Cathy Bruffy, Kendra Cattanach
Faculty Mentor(s): Amanda Raimer

Nicole21, Am I Legally a Gene?
Student Presenters: Bianca Plowman, Ella Lockhart, Genesis Carter, Annalisa Twum
Faculty Mentor(s): Amanda Raimer
Citizen-Leader Showcase
4:00 pm - 6:00 pm  Zoom: 92323579837 Password: SEF2022

Citizen Leader Dissemination
Student Presenters: Dakota Hirmer
Faculty Mentor(s): Jean Mistele

Old Church Gallery’s Floyd Story Center: Migration Project Internship
Student Presenters: Russel Alvarez
Faculty Mentor(s): Melinda Wagner

Interdisciplinary Virtual Presentations
5:00 pm - 5:30 pm  Zoom: 92365562827 Password: SEF2022

Supporting Children’s Thinking Through Higher Level of Questions
Student Presenters: Marlie Mendoza
Faculty Mentor(s): Boyoung Park

Training Parents on Shared Book Reading Using an Online Module
Student Presenters: Kate Mullins
Faculty Mentor(s): Mariam Abdelaziz, Lauren Flora

“Research has made me realize my passion for helping further change important social problems.”
-Maia G, Junior Sociology Major
Social Entrepreneurship Student Success Challenge
11:00 am - 12:15 pm McConnell Library

How Might We Reduce Costs for Students?
Student Presenters: Joanna Crowe, Reese Myers, Megan Reed
Faculty Mentor(s): Samantha Steidle

How Might We Mobilize Resources to End Student Poverty?
Student Presenters: Brittney Bautista, Hannah Ferris, Maya Hickey, Riley Smith, Maia Grove
Faculty Mentor(s): Samantha Steidle

How Might We Reduce Inequality for College Students?
Student Presenters: Kiley Lewis, Trace Robinson, Jacob Stevens, Hiwot Andargie, Nadira Walker
Faculty Mentor(s): Samantha Steidle

How Might We Relieve Students of Mental Health Issues Caused by COVID-19?
Student Presenters: Bobby Dudeck, Channing Blevins, Levi Hylton, Adam Kamal
Faculty Mentor(s): Samantha Steidle

How Might We Better Support Mental Health and Well-Being in College Students?
Student Presenters: Jordyn Keenan, Alison Stuedmann, June Stevens, Typer Jackson, Dylan Howard
Faculty Mentor(s): Samantha Steidle

How Might We Find a Solution to Mental Health Issues Caused by Climate Change?
Faculty Mentor(s): Samantha Steidle

How Might We Reduce Student Hunger?
Student Presenters: Jalen Booker, Alyssa Chapman, Danielle Montelbano, Cole O’Connor
Faculty Mentor(s): Samantha Steidle
Social Entrepreneurship Student Success Challenge
2:00 pm – 3:15 pm McConnell Library

How Might We Better Support the Mental Health of College Students?
Student Presenters: Brian Hurley, Julian Rivera, Joshua Thompson, Aiyana Lopez, Christopher Oliver, Cole Slack, Stephanie Perez, Emily Hirshorn, Kira Feemster
Faculty Mentor(s): Samantha Steidle

How Might We Reduce Financial Stress Students Experience While Attending Higher Education?
Student Presenters: Quinn Bloom, Keymonne Brown, Jacob O’Brien, Renee Manning, Devin Cheatwood, Megan Porter, Karly Slaysman, Rachel Doyle
Faculty Mentor(s): Samantha Steidle

How Might We Improve Mental Health for College Students?
Student Presenters: Sean Hair, Bilal Diggs, Kayla Edwards, Iana Mitchell, Luke Vest, Cannon Zylonis
Faculty Mentor(s): Samantha Steidle

How Might We address the student mental health crisis for college students?
Student Presenters: Brent Himko, George Rebh, Virginia Buchanan, Calvin Shipman, Matthew Harrison, Clara Regan, Matt Rupert
Faculty Mentor(s): Samantha Steidle

How Might We Better Support International Students?
Student Presenters: Yuri Yanagida
Faculty Mentor(s): Samantha Steidle

Making the Medieval Modern: Editing Chaucer Using Digital Manuscripts
Student Presenters: Caitlin Myers
Faculty Mentor(s): Frank Napolitano

Whose land is it Anways?
Student Presenters: Gabrielle Spennacchio-Parker, Kyla Huges, Chloe Murdaugh
Faculty Mentor(s): Joanna Hunter