

32ND ANNUAL

STUDENT
ENGAGEMENT
FORUM 2023

APRIL
18-25TH

RADFORD
UNIVERSITY

Undergraduate Research
and Scholarship

32nd Annual Radford University Student Engagement Forum

Sunday, April 16th:

Honors Capstones 4:00 pm - 6:45 pm Kyle Hall 340

Tuesday, April 18th:

Medieval Art History Presentations
11:00 am - 12:15 pm Heth Hall 022

The Influence of Literature on Subsequent Art
12:00 pm - 1:50 pm McConnell Library Ross Art Gallery

Confessional Poetry in the Modern World
2:00 pm - 2:30 pm McConnell Library Ross Art Gallery

Asian Art History Presentations
2:00 pm - 3:15 pm Heth Hall 022

Interdisciplinary Oral Session I
4:00 pm - 4:50 pm Heth Hall 022

Psychology and Gender Research Poster Session
5:30 pm - 6:45 pm Heth Hall 014 & 016

Production Technology Showcase
5:30 pm - 6:30 pm Hemphill Hall 1006

Wednesday, April 19th:

Native American Arts
9:00 am - 9:50 am McConnell Library Ross Art Gallery

Perspectives on World War II
10:00 am - 10:50 am McConnell Library Ross Art Gallery

Guitar in Composition: Adaptations in Technique and Instrumentation
11:00 am - 11:50 am McConnell Library Ross Art Gallery

The Art of Scientific Illustration to Enhance Anatomy & Physiology Education
10:50 am - 12:00 pm Reed Hall Artis Atrium

Interdisciplinary Oral Session II
12:00 pm - 12:50 pm McConnell Library Ross Art Gallery

Reclaiming Contemporary Art History
2:00 pm - 2:50 pm McConnell Library Ross Art Gallery

Health and Human Performance Research Posters
2:00 pm - 2:50 pm Heth Hall 014

Criminal Justice Poster Session
4:00 pm - 4:50 pm Heth Hall 014 & 016

Interdisciplinary Poster Session
4:00 pm - 4:50 pm Center for the Sciences Lobby

Thursday, April 20th:

Innovations in Forensic Science Oral Presentations
9:30 am - 11:50 pm Heth Hall 022

Geospatial Poster Session
12:00 pm - 1:15 pm Reed Hall Artis Atrium

Archaeological Research Methods Poster Session
2:00 pm - 3:15 pm Reed Hall Artis Atrium

Biology Poster Session
3:30 pm - 4:45 pm Center for the Sciences Lobby

Chemistry Oral Presentations
3:30 pm - 4:45 pm Center for the Sciences M070

Chemistry, Geology, Physics Poster Session
5:00 pm - 6:15 pm Center for the Sciences Lobby

Monday, April 24th:

Occupational Therapy Virtual Session
Zoom: 91704443488

12:00 pm – 12:30 pm
Password: OURS2023

Student Engagement Forum Coordinators in OURS

Joe Wirgau, Director

Jennifer McDonel, Associate Director

Keishaun Williams, Administrative Assistant

Abby Harbower, Graduate Assistant

Kate Mullins, Graduate Assistant

Cora Burt, Executive Student Assistant

Leah Ellis, Executive Student Assistant

Abbi Green, Executive Student Assistant

The following individuals are acknowledged for their contributions:

Beth Johnson, Head of Access Services, Library

Jonathan Mayer, Manager, Printing Services

Evan Musgrave, University Photographer, University Relations

Norma Riggins, Event Planning Manager, University Services

Josh Wimmer, Supervisor, Printing Services

Emily Woods, Graphic Design Student

Welcome

It is with great pleasure I can say welcome to the 32nd Annual Radford University Student Engagement Forum! This is my tenth year having the privilege to support our student-faculty teams creating new knowledge across campus, in the local rivers, on stage, overseas, and wherever else our students' boundless curiosity takes them. It is the best of Radford University on display over the course of the week of the "Forum" as many shorten the name across campus. We get to see the tangible results of our faculty's high level of engagement with students, investing in them as future colleagues in various forms of experiential learning, research and creative inquiry. It is inspiring to see students rise to the occasion when given the chance for leadership roles, to represent the University and Departments with their work, and I hope you have the chance to talk with as many of the nearly 500 unique students delivering over 200 presentations while being mentored by nearly 100 faculty.

Every year I think it is important to acknowledge how difficult it is to work on these types of projects. I had a wonderful student in my office this week fairly lightheartedly explaining about some international data coding inconsistencies between countries' data that hindered his results and how excited he was to continue the work next fall. The enthusiasm to get to the heart of his work was great. And I loved even more how he explained as his heart dropped when he realized his results were not statistically significant because of the data that his mentor said "it's a miracle if your first attempt works" and validated his work, encouraged him to continue and normalized the experience. I still vividly remember the moment I realized a minor error had made three months of my work in graduate school worthless and I needed to start over, it is not easy and it helps to have a team of support. And we are now to my yearly thank you to our outstanding faculty who support our students, the roommates, classmates, family members, and everyone else who provides a safe space to vent, a shoulder to lean on, a word of encouragement and all the other small acts we do each day that makes this campus a better place for all of us. Thank you.

Equally difficult to creating new knowledge is for me to in a paragraph explain and capture how wonderful the team is in the Office of Undergraduate Research & Scholarship. All of the professional development on campus and research nationally speaks to the importance of having a person and purpose to what you do. In twenty years at Radford University and 10 years in OURS I have seen time and time again the transformative impact of undergraduate research, especially with new students. Being responsible for bringing that experience to students is a purpose I cherish and the people in OURS are extraordinary. I lean on the young people in the office for projects I don't know how to accomplish and can have real impacts across campus. They never let me down, I am tearing up as I type this. Most days I burst into the office in Whitt (yes, I tend to burst in) and am met with Keishaun Williams's smiling face. Keishaun is excellent on team building, checking in with everyone as they come in and that carries over to his extraordinary professional, positive and calm demeanor dealing with printing 300 posters in April, working on the budget closeout, getting SURF paperwork in order, closing out travel and providing a welcoming front of the house for OURS. I wish I could keep his steadiness and grace under stress. Dr. Jen McDonel, thank you for all of the help on details, deadlines, interviewing high school students, occasional song, and your ability to keep smiling and going throughout a difficult year. Dr. Jeanne Mekolichick continues to be a mentor to me and I am so much better at this job from her leadership, forever thankful for all that you do behind the scenes to support all of the work at OURS.

And now to refocus on the students who are central to everything we do. Our GAs, Abby Hardbower and Kate Mullins, have managed all of the odd jobs associated with running a conference with 600 students and faculty with grace and humor. It is not uncommon to hear laughter in the office, even on stressful days. I appreciate Abby taking time to teach and play daily puzzles with Keishaun and Kate leaving doodles on our white boards with messages of support. Leah Ellis, as our most experienced undergraduate student, is finishing her time with OURS after two incredible years. I could talk about specific accomplishments, and instead I just want to publicly state how incredibly reflective and thoughtful she is. Her ability to synthesize all types of data and interactions is as good as anyone I've ever met. Thank you for letting me pick your brain over and over again. Abbi Green, your smile never disappears no matter how complicated, serious, or frustrating the topic we are working through is. I have thrown graphic design, public relations, business analysis, coding, recruiting, and more at you starting as a new freshman. You've figured it all out and excelled at everything, even though you had no experience with most of it, please know there is nothing you cannot do in this world. Finally, our newest member Cora Burt who I had to find a way to hire, as she enjoyed the spirit and work of the office so much she was basically volunteering there by the end of her first semester at Radford. She's another true believer in our mission and I am convinced would not be working with us without Leah and Abbi giving back to the next generation of researchers on campus. Cora has overhauled the OURS website and continues to produce a wide array of materials for the office in her first few months with us. I look forward to continuing to collaborate with her ideally for years and many more cups of tea at the end of an eclectic day. I know I can lean on every member of the team and I hope they feel the same way about me. Lastly, I've taken some recent quotes about what research means to our students to fill the space below. I hope you find it inspires you to become a researcher, deal with setbacks as part of the process and reaffirms your current efforts on our beautiful campus.

-With Highlander Pride, Joe Wirgau, Director of OURS

“Presenting allowed me to see that I should be confident in what I know and that I should embrace when I mess up and keep moving forward”

“Failure is not the end of a project nor an idea. Sometimes our research works out, sometimes it doesn't, and that's all part of the process. Each time we conduct research, we learn more about ourselves, too!”

“...taught me how to take setbacks and continuing pushing and moving forward.”

“My research made me realize what voices and experiences still need to be heard.”

“Research has molded me to be a more curious and observant student, one who's not afraid to ask questions in class, and truly a researcher at heart.”

Dr. Jeff Aspelmeier Recognized with 2023 OURS Outstanding Mentor Award

It is with great excitement that the Office on Undergraduate Research & Scholarship (OURS) recognizes the pivotal role of faculty mentors in providing transformative learning opportunities to our students through undergraduate research and creative inquiry. The OURS Outstanding Mentor Award recognizes demonstrated excellence in mentoring and supporting undergraduate researchers through a commitment to student development, creating opportunities, dissemination, equity and inclusion, and career development.



Dr. Jeff Aspelmeier was selected by the OURS Advisory Committee for an OURS Outstanding Mentor Award based on student nominations. From the student nominations it was abundantly clear that Dr. Aspelmeier has a profound impact on his research students in the Department of Psychology, forming a “team dynamic” among his mentees. **“Dr. Aspelmeier wants to create an inclusive environment and show that research and academia is for anyone and everyone.”**

Congratulations to Dr. Jeffery Aspelmeier on behalf of Radford University for providing inclusive and transformational research experiences for our Psychology students.



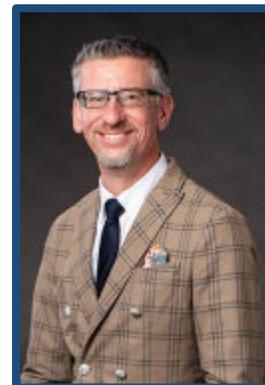
“Dr. Aspelmeier helps me grow my experience and knowledge, all to make my time at Radford worthwhile... I will truly cherish my mentee relationship with him, and know it is one of the greatest things to come out of my time at Radford University.”
-Brittle Williams

Previous Winners:

- 2022** Dr. Chet Bhatta, Department of Biology
 Dr. David Sallee, Department of Health and Human Performance
- 2021** Dr. Sarah Foltz, Department of Biology
 Dr. Maggie Pate, Department of Criminal Justice

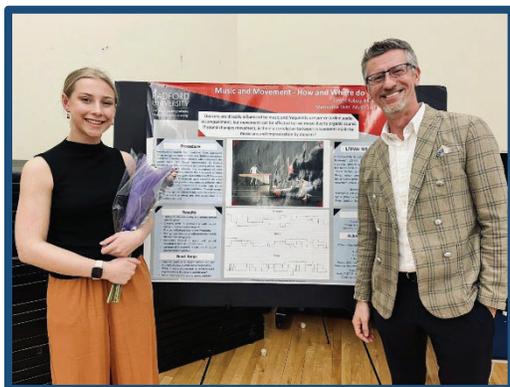
James Robey Recognized with 2023 OURS Outstanding Mentor Award

It is with great excitement that the Office on Undergraduate Research & Scholarship (OURS) recognizes the pivotal role of faculty mentors in providing transformative learning opportunities to our students through undergraduate research and creative inquiry. The OURS Outstanding Mentor Award recognizes demonstrated excellence in mentoring and supporting undergraduate researchers through a commitment to student development, creating opportunities, dissemination, equity and inclusion, and career development.



Professor James Robey was selected by the OURS Advisory Committee for an OURS Outstanding Mentor Award based on student nominations. From the student nominations it was abundantly clear that Professor Robey has a profound impact upon students within the Department of Dance at Radford University. **James “encourages his students to become better dancers, educators, and choreographers.”** Professor Robey has worked with the Department of Music on multiple performances to develop choreography and create unique experiences for all of his students.

Congratulations to Professor James Robey on behalf of Radford University for providing incredible research experiences for our students!



“Professor Robey is very generous and willing to provide resources for the knowledge necessary to complete my project. He constantly works to accelerate my career development by using his previous research to guide by example. Professor Robey has offered me nothing but encouragement, empathy, and crucial resources to contribute to my academic success of today.”

-Meridythe Whitt

Previous Winners:

- 2022** Dr. Chet Bhatta, Department of Biology
 Dr. David Sallee, Department of Health and Human Performance
- 2021** Dr. Sarah Foltz, Department of Biology
 Dr. Maggie Pate, Department of Criminal Justice

Honors Capstone Showcase Poster Session I

4:00 pm – 4:45 pm

Kyle Hall 340

The British Pub: The Meaning of Food, and Changes amid Covid

Student Presenter(s): Jenna Mitchell

Faculty Mentor(s): Roby Page

Dyslexia, Learning Disabilities, and Struggling Readers: An Analysis of Variability in the Intervention Literature

Student Presenter(s): Nora Mills

Faculty Mentor(s): Eric Mesmer

Characterization of Xenophilic Metal Clusters

Student Presenter: Guy Fortney

Faculty Mentor(s): George Harakas

Exploration of Role and Function of School Psychologists through an Analysis of Job Descriptions

Student Presenter(s): Jeannie Tene

Faculty Mentor(s): Eric Mesmer

Using Mixed Methods to Develop a Relational Approach to Social Media Marketing

Student Presenter(s): Sydney Hopkins

Faculty Mentor(s): John Brummette, Sam Jennings

The Effect of a Sling on Balance and Gait

Student Presenter(s): Claire Martin

Faculty Mentor(s): Dave Sallee

'The Impact of Arch Taping on Arch Mechanics and Lower Leg Muscle Activation

Student Presenter(s): Rachel Bird

Faculty Mentor(s): Dave Sallee

“La Ropa Sucia Se Lava En Casa”: A Qualitative Exploration of Mental Health Among Latino Undergraduate Students

Student Presenter(s): Michelle Valencia

Faculty Mentor(s): Stirling Barfield

A Dirty Planet: the Effect of Gut Microbiomes on Anthracite Metabolization

Student Presenter(s): Gabriel Hessler

Faculty Mentor(s): Jason Davis

AmeriCorps Benefiting All Ages

Student Presenter(s): Ally Brown

Faculty Mentor(s): Amanda Bozack

The Sky is the Limit

Student Presenter(s): Fallon Bursey

Faculty Mentor(s): Luke Liska

Honors Capstone Showcase Speaker Series

5:00 pm – 6:10 pm

Kyle Hall 320

The Sky is the Limit

Student Presenter(s): Fallon Bursey

Faculty Mentor(s): Luke Liska

The Effects of Various Bags on Arch Mechanics

Student Presenter(s): Brandi Clemons

Faculty Mentor(s): Laura Newsome

Challenges of the Conservation of Playing Cards as Art Objects

Student Presenter(s): Dan Tyler

Faculty Mentor(s): Carlee Bradbury

Honors Capstone Showcase Speaker Series

5:00 pm – 6:10 pm

Kyle Hall 320

Evaluation of Blunt Force Trauma Mechanism Interpretations Inferred From Skeletal Fracture Morphology and Patterning

Student Presenter(s): Tori Pate

Faculty Mentor(s): Donna Boyd

Marketing Mental Health: The Use of Mental Health Initiatives As A Branding Tool

Student Presenter(s): Stephanie Sheline

Faculty Mentor(s): Jane Manchin, John Brummette

Honors Capstone Showcase Poster Session II

6:00 pm – 6:45 pm

Kyle Hall 340

The Effect of Pregnancy on the Arch Mechanics of the Foot

Student Presenter(s): Katie Davison

Faculty Mentor(s): Laura Newsome

Influence of Vegetation Metrics in Bird-Window Collisions at Radford University

Student Presenter(s): Tori Raulerson

Faculty Mentor(s): Karen Powers

Things Not Said Aloud: American Female Confessional Poetry Tradition

Student Presenter(s): Emily Wheeler

Faculty Mentor(s): Sean Keck

The Radford University Student Body's Readiness to Adopt a Vegetarian Eating Pattern

Student Presenter(s): Zachary Andrews

Faculty Mentor(s): Kathleen Poole

Gendered Social Knowledge: Women Report Lower Social Connectedness in Response to Novel Counter-Normative Information

Student Presenter(s): Olivia Smith

Faculty Mentor(s): Niels Christensen

Effects of Kinesiology Tape on Ehler's Danlos Syndrome

Student Presenter(s): Trinity Haynes

Faculty Mentor(s): Dave Sallee

How to Fall

Student Presenter(s): Sarah Lambert

Faculty Mentor(s): Virginia Weisz

Filling in the Gaps with States of Emergencies

Student Presenter(s): Connor Harper

Faculty Mentor(s): Allyson Yankle

The Differences Between the Gastrocnemius and Soleus While Walking with Shoes on and Shoes off

Student Presenter(s): Kate Strong

Faculty Mentor(s): Dave Sallee

An Investigation on the Impact of Curiosity on the Testing Effect

Student Presenter(s): Grace Chaffin

Faculty Mentor(s): Katie Arnold

Medieval Art History Presentations

11:00 am - 12:15 pm Heth Hall 022

Medieval Art History Presentations

Student Presenter(s): Sarah Ayuso, Nina DiPasquale, Nicole Edmonds, Kelli Fraley, QuiShon Gomez, Tori Hale, Hannah Higby, Elijah Hilliard, Lee Ingram, Anna Johnston, Maddison Kunkel, Maggie Lilly, Kenny Nguyen, Benjamin Owings, Addie Parcell, Jenna Repass, Courtney Stultz,

Faculty Mentor(s): Carlee Bradbury

The Influence of Literature on Subsequent Art

12:00 pm - 1:50 pm McConnell Library Ross Art Gallery

The Influence of Literature on Subsequent Art

Student Presenter(s): Hilal Dagdevir, Phillip Lockey, Isaiah Joyner, Lakyn Ellis, Hilal Dagdevir, Madison Sowers, Sydnie Papenfuss, Cayden Guinther

Faculty Mentor(s): Peter Laws

Confessional Poetry in the Modern World

2:00 pm - 2:30 pm McConnell Library Ross Art Gallery

Confessional Poetry in the Modern World: Instapoetry and Confessional Poetry

Student Presenter(s): Carli Wadas

Faculty Mentor(s): Sean Keck, Justine Jackson Stone

Asian Art History Presentations

2:00 pm - 3:15 pm Heth Hall 022

Asian Art History Presentations

Student Presenter(s): Kiera Adens, Sarah Ayuso, Grace Carroll, Simon Carter, Anne Cassett, Marlet Castillo, Jake Conner, Jackson Fuhrer, Tori Hale, Bella Halko, Elizabeth Hamilton, Lee Ingram, Monica Jennings, Anna Johnston, Haylee Keck, Madeline Lane, Owen Lindsay, Sam Mazzrillo, Harley Reynolds, Arvid Rutledge, Nyland Smith, Davis Smith-Corbin, Awa Tapsoba, Liz Webb, LeAnna Whitlow

Faculty Mentor(s): Carlee Bradbury

Interdisciplinary Oral Session I

4:00 pm - 4:50 pm Heth Hall 022

Marketing Mental Health: The Use Of Mental Health Initiatives As A Branding Tool

Student Presenter(s): Stephanie Sheline

Faculty Mentor(s): Jane Machin, John Brummette

Managing Consumer Expectations: A Values-driven and Strategic Issues Management Approach to Organizational Legitimacy

Student Presenter(s): Mercedes Loescher, Peyton Mills

Faculty Mentor(s): John Brummette

Psychology and Gender Research Poster Session

5:30 pm - 6:45 pm Heth Hall 014 & 016

A Cross-Cultural Comparison: Psychometric Properties of the Fraboni Scale of Ageism

Student Presenter(s): Hannah Benz, Tiange Dai, Enriqueta Calderon

Faculty Mentor(s): Jenessa Steele, Kathleen Arnold, Thomas Pierce

Psychology and Gender Research Poster Session

5:30 pm - 6:45 pm

Heth Hall 014 & 016

Pluralistic Ignorance Within Abortion Attitudes: Does it Depend on Trimester of Abortion?

Student Presenter(s): Brett Bowman, Jamar Banks

Faculty Mentor(s): Jeffery Aspelmeier

Rat Ninja Warrior: The Impact of Sex

Student Presenter(s): Samaia Brown, Nora Mills, Sky Pollard, Ember Ward, Claudia Paniagua-Ugarte

Faculty Mentor(s): Dayna Hayes

Clinical Hypnosis: Historical Perspectives from 1773 to 1890

Student Presenter(s): Aaron Cain

Faculty Mentor(s): Ann Elliott

The Power of Well Being

Student Presenter(s): Rachel Cayton, Alexis Parker, Carolyne Browe

Faculty Mentor(s): Michaela Clark

40 Years Later: How the Civil Rights Movement Changed Research Ethics

Student Presenter(s): Amanda Chung

Faculty Mentor(s): Ann Elliot

Do Political Attitudes Moderate Pluralistic Ignorance in Environmental Attitudes?

Student Presenter(s): Kayla Clark, Spencer Wright

Faculty Mentor(s): Jeff Aspelmeier

Does Pluralistic Ignorance Within Academic Self-Efficacy Predict Academic Performance?

Student Presenter(s): Tiange Dai

Faculty Mentor(s): Jeffery Aspelmeier

Rat Ninja Warrior: The Impact of ReinforcerStudent Presenter(s): Khristine Hurst, Maddie Mays, Janae Palmer, Atlas Wray,
Brooklynn Mulholland

Faculty Mentor(s): Dayna Hayes

Hitler and Nazism's Influence on Social Psychology Research

Student Presenter(s): Cheyenne James

Faculty Mentor(s): Ann Elliott

Suicidality and Suicide Prevention Among Older Adults

Student Presenter(s): Sara Johnson

Faculty Mentor(s): Ruth Riding-Malon

Pluralistic Ignorance Within Relationship Satisfaction: The Role of Self-esteem as the Moderator

Student Presenter(s): Halle Kozlowski, Bruna Capela

Faculty Mentor(s): Jeff Aspelmeier

Effects of Cannabinoid Antagonism on Sucrose Preference in RatsStudent Presenter(s): Brooklynn Mulholland, Claudia Paniagua-Ugarte, Jenna Blanchette,
Shad Hannabass

Faculty Mentor(s): Matthew Eckard

Effects Of FAAH Inhibition on Anxiety-like Behavior in Rats

Student Presenter(s): Claudia Paniagua-Ugarte, Brooklynn Mulholland

Faculty Mentor(s): Matthew Eckard

Psychology and Gender Research Poster Session

5:30 pm – 6:45 pm

Heth Hall 014 & 016

Assessing the Effects of Ketamine on the Temporal Gene Expression of N-Methyl-D-Aspartate (NMDA) Receptors in the Brains of Rats

Student Presenter(s): Claudia Paniagua-Ugarte, Abi Naughton

Faculty Mentor(s): Dayna Hayes

Impact of Spirituality, Self-esteem, and Social Support on Well-being

Student Presenter(s): C'erra Rhodes, Qu'shad Petty, Marisa Sloan-Mercado, Lexi Brown

Faculty Mentor(s): Michaela Clark

Pluralistic Ignorance Within Attitudes Towards Environmentalism Moderated By the Individual's View on Fairness

Student Presenter(s): Giovanni Ruiz, Makenzie Robinette

Faculty Mentor(s): Jeff Aspelmeier

Shell Shock to PTSD: A Brief History of The Effect of War on The Mind

Student Presenter(s): Emily Siebach, Allison Love

Faculty Mentor(s): Ann Elliott

The Interrelations of Sleep, Social Support, Self Esteem, and Well Being

Student Presenter(s): Dominique Tompkins, Carly Riggs, Maddie Mohler, Tasia

Faculty Mentor(s): Michaela Clark

Gender Differences in Hikers' Attitudes and Experiences on the Appalachian Trail

Student Presenter(s): Robin Walker, Brittle Williams, Mason Starcher, Kelsey Wilson, Tiange Dai

Faculty Mentor(s): Jeffery Aspelmeier, Anja Whittington

Measuring Brain States of Curiosity Through Electroencephalography Signals

Student Presenter(s): Kaylyn Wertz, Hannah Benz, Brett Bowman, Jacklynn Jackson, Luke Reynolds

Faculty Mentor(s): Thomas Pierce, Katie Arnold, Jenessa Steele

Pluralistic Ignorance in Sexually Transmitted Infection (STI) Attitudes as Moderated by STI Knowledge and Condom Use Attitudes

Student Presenter(s): Kelsey Wilson, Brittle Williams

Faculty Mentor(s): Jeffery Aspelmeier

Applicability of Non-pharmacological Activities for Persons with Advanced Dementia

Student Presenter(s): Hannah Benz, Enriqueta Calderon, Jackson Ludwig, Angel McCleese, Emerson Mills, Kaylyn Wertz, Shyheim Woods, Michaela Clark

Faculty Mentor(s): Jenessa Steele

Daily Social Support Impacts the Link Between Stress and Physical Health

Student Presenter(s): Enriqueta Calderon

Faculty Mentor(s): Jenessa Steele

Exploring the Types of Coping Strategies Used by Currently Practicing EMS providers to Mitigate the Effects of Occupational Stressors

Student Presenter(s): Troy Stallard, Keagan Henegar, Jose Piriz, Bethany Mills, Ben Clark, Ethan Hoover, Hunter Rae

Faculty Mentor(s): Elliot Carhart

Perpetuated Microaggressions Within Professional Environments

Student Presenter(s): Aaron Gardner

Faculty Mentor(s): Ruth Riding-Malon

Production Technology Showcase
5:30 pm – 6:30 pm Hemphill Hall 1006

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

Before the End

Student Presenter(s): Ameek Batth

This Scary Life

Student Presenter(s): Seth Carico

This Lucky Life

Student Presenter(s): Jessica Groft

This Scary Life

Student Presenter(s): Mitchel Hamm

Golden Deceit

Student Presenter(s): Madison Hillenberg

The Search for Spongy Downer

Student Presenter(s): Caleb Perdue

Prom Night

Student Presenter(s): Dorian Starr

This Lucky Life

Student Presenter(s): Nathan Starr

This Lucky Life

Student Presenter(s): Oliver Wahl

Native American Arts

9:00 am – 9:50 am

McConnell Library Ross Art Gallery

We have spent the semester exploring as many native cultures as possible, focusing on different geographic regions of the United States and Canada. Our preferred terminology for these artists is the phrase “Native American” rather than indigenous, and an indication of the tribe to which the artist belongs. The tribe is often more important as with older work, we may not have a record of the artist’s name. If Canadian, they are referred to as First Nations. The term project for this class included exploration and recreation of an object associated with a particular tribe. Each student has documented the process of attempting to make this object using materials and techniques that would have been used by the original tribal members, whenever possible.

Student Presenter(s): Elizabeth Henry, Doug Johnston, Sierra Kanak, Melanie Kenney, Olivia Miller, Brigitta Paulson, Suzanne Poirier

Faculty Mentor(s): Roann Barris

Perspectives on World War II

10:00 am – 10:50 am

McConnell Library Ross Art Gallery

Perspectives on World War II

Student Presenter(s): Wyatt Kirk, Justin Little, Zofia Witkowski

Faculty Mentor(s): Suzanne Ament

Guitar in Composition: Adaptations in Technique and Instrumentation

11:00 am – 11:50 am

McConnell Library Ross Art Gallery

Composer Presentation (John Dowland And José Luis Merlin)

Student Presenter(s): John Colgan

Faculty Mentor(s): Robert Trent

Presentation on Two Classical Guitar Pieces

Student Presenter(s): Anthony Del Grosso

Faculty Mentor(s): Robert Trent

Francesco Corbetta and the Baroque Guitar

Student Presenter(s): Nicholas Pool

Faculty Mentor(s): Robert Trent

The Art of Scientific Illustration to Enhance Anatomy & Physiology Education

10:50 am – 12:00 pm

Reed Hall Artis Atrium

Student Presenter(s): Sofia Stallard, Jessica Stevens

Faculty Mentor(s): Chet Bhatta

Interdisciplinary Oral Session II

12:00 pm – 12:50 pm

McConnell Library Ross Art Gallery

The Purpose of Freedom of Speech within the German Democracy

Student Presenter(s): Sean Mahan

Faculty Mentor(s): Paige Tan

Podcast

Student Presenter(s): Jodi Allen, Anthony Burnett, Devante Mosley

Faculty Mentor(s): Joanna Hunter

Black Mental Health at RU

Student Presenter(s): Tyanna Davis, Kaya Myers, Mia Scott

Faculty Mentor(s): Joanna Hunter

Reclaiming Contemporary Art History

2:00 pm - 2:50 pm

McConnell Library Ross Art Gallery

Some historians argue against the influence of style categories and emphasize the individual goals of artists at taking precedence. Other historians argue that history has long favored certain genders and races and made it difficult for other individuals to be taken seriously in the art world. We broke with both of these traditions, attempting to study artists either in the context of styles or outside of those styles, not limiting our decisions to the best known and most familiar artists. Each student will be focusing on a different artist chosen for personal reasons. In some cases, a recreation of an art work will be included in the presentation; in other cases it will be a short power point presentation.

Student Presenter(s): Marlet Castillo, Mark Crittenden, Sophia Davis, Heather Dawson, Dylan Deluca, Ephraim Fitta, Niko Hargis, Dale Hayden, Rianna Henry, Tijon James, Maggie Lilly, Isabella Linkous, Tori McCary, Nora Murphy, Kenny Nguyen, Hannah Odum, Jacob Petty, Jason Petty, Hanna Phipps, Heidi Pinnix, Raven Showalter, Dan Tyler, Kortney Williams

Faculty Mentor(s): Roann Barris

Health and Human Performance Research Posters

2:00 pm - 2:50 pm

Heth Hall 014

The Relationship Between Muscle Activities in Pre-activation

Student Presenter(s): Kristen Chick

Faculty Mentor(s): David Sallee

Leveraging Existing Transportation Networks to Improve Access to Exercise for Alzheimer's Patients in Southwestern Virginia

Student Presenter(s): Kristen Chick, Brandon Martin, Melayna Stone, Genevieve Valliere

Faculty Mentor(s): David Brock

Effects of Various Bags on Arch Mechanics

Student Presenter(s): Brandi Clemons, Katie Davison

Faculty Mentor(s): Laura Newsome

The Impact of Diaphragmatic Breathing on the Flex Relax Cycle in the Spine

Student Presenter(s): Rhonda Cook

Faculty Mentor(s): David Sallee

The Effect of Pregnancy on the Arch Mechanics of the Foot

Student Presenter(s): Katie Davison, Brandi Clemons

Faculty Mentor(s): Laura Newsome

The Impact of Ankle Mobility on Gait

Student Presenter(s): Jacqueline Dorsey

Faculty Mentor(s): David Sallee

Dietary Restricted Students: An Exploratory, Needs-based Assessment of Radford University's Dining Options

Student Presenter(s): Leah Ellis, Ashton Kincer, Kennedy Morse, Zachary Hostetter

Faculty Mentor(s): David Brock

The Effects of a Peer-led Nutrition and Physical Activity Program on Clinical Competency and Nutrition Knowledge at Radford University

Student Presenter(s): Kaitlynn Fulcher, Elizabeth Fontana, Angel Wood, Zachary Andrews

Faculty Mentor(s): David Brock

Health and Human Performance Research Posters

2:00 pm - 2:50 pm

Heth Hall 014

Suicide Prevention in College Athletes: The Development of a Novel, Peer-led Surveillance and Support Program

Student Presenter(s): Wyatt Hage, Camryn Wilson, Jay Beck, Hallie Garrison

Faculty Mentor(s): David Brock

Strength Training and Early Onset Dementia: A Pilot to Explore the Impact on Cognitive Function

Student Presenter(s): Trinity Haynes, Emma Young, Coty Shelton, D'enicia Hall

Faculty Mentor(s): David Brock

An Investigation of the Impact of Narcolepsy Medication on Mechanics and Muscle Activation in Movement

Student Presenter(s): Kayleigh Heath

Faculty Mentor(s): David Sallee

Effects of Dietary Patterns on Mental Health and Attendance at a Mid-sized College Campus

Student Presenter(s): Dori Hicks, India Bagsby, Caitlyn Peters, Joel Songui

Faculty Mentor(s): David Brock

Implementing Sweden's Försäkringskassan in Southwestern Virginia: A Pilot Study Examining the Impact on Mother and Infant Hospitalization Rates

Student Presenter(s): Nija Hunter, Kayleigh Heath, Morgan Pence, Tierra Banks

Faculty Mentor(s): David Brock

Analyzing Jump Squats

Student Presenter(s): Jordyn Johnson

Faculty Mentor(s): Laura Newsome

The Impact of Unstable Surfaces on Abdominal Muscle Activation

Student Presenter(s): Kelsey Moseley

Faculty Mentor(s): David Sallee

Student Engagement with The Center for Accessibility Services: An Exploratory Pilot Study to Assess Prevalence and Ecological Attributes

Student Presenter(s): Jordan Rozell, Cara Joseph, Ghyta Dorgbadzi, Mitchell Quinn

Faculty Mentor(s): David Brock

Impact of Pelvic Tilt on Arch Mechanics

Student Presenter(s): Kennedy Thomas

Faculty Mentor(s): David Sallee

The Impact of a Curated Social Media Experience on Eating Disorders in Young Women

Student Presenter(s): Kennedy Thomas, Mia Gilley, Kenleigh Gunter, Kennedy Dunnings

Faculty Mentor(s): David Brock

Contingency Management to Reduce the Prevalence of Binge-Drinking on Radford University's Campus

Student Presenter(s): Emerie Edwards, Jacob Matheny, Rhonda Cook, Wayne Henry

Faculty Mentor(s): David Brock

Criminal Justice Poster Session

4:00 pm – 4:50 pm

Heth Hall 014 & 016

Gender and Eyewitness Testimony

Student Presenter(s): Sara Allen, Carly Riggs, Hunter Nicodemus, Sarah Schafer

Faculty Mentor(s): Shawn Smith

Discrimination and the Death PenaltyStudent Presenter(s): Hannah Foster, Isabelle Stephens, Hailey Rodriguez, Deangelo Nicholas,
Ariana Carson

Faculty Mentor(s): Lori Elis

The Legalization of MarijuanaStudent Presenter(s): Skyler Bailey, Noah York, Kenton Whitteker, Rachel Woolard, Ryan Linkous,
Khari Rucker

Faculty Mentor(s): Lori Elis

Inequity of The Cash Bail System in AmericaStudent Presenter(s): Ian Wilson, Adam Hamze, James Waller, III, Gavin Brown, Gabrielle Ancrum,
Kyle Blanchard

Faculty Mentor(s): Lori Elis

The Effects of Juvenile Waivers on RecidivismStudent Presenter(s): Mallory Rhodes, Kaylee Sloss, Walter Wouvala, Breyonia Needham,
Jalisa Harris

Faculty Mentor(s): Lori Elis

Do an Individual's Characteristics Influence the Intent of Authorities to Search Them?

Student Presenter(s): Jazmia Glasgow

Faculty Mentor(s): Lori Elis

The Criminal Justice Systems Approach to Intimate Partner ViolenceStudent Presenter(s): Briana Brammer, Adrian Dalton, Allyson Gallagher, Riley Sharrett,
Aniya McGill

Faculty Mentor(s): Lindsay Semprevivo

Salem Witch Trials

Student Presenter(s): Morgan Pepper, Elizabeth Wolf, Alexis Kidd, Eddie Nevglowski, Rebecca Ford

Faculty Mentor(s): Lindsay Semprevivo

Mental Health in CourtsStudent Presenter(s): Alayna Thomas, Kyndall altamirano, Taylor Sarver, John Stinson,
Isabella Atwell

Faculty Mentor(s): Lindsay Semprevivo

Mass Homicide: Case Profiles and Synthesis of Victim, Offender, and Place

Student Presenter(s): Grace Reynolds

Faculty Mentor(s): Rachel Santos

Impact of Drugs in Prison

Student Presenter(s): Annessah Ballou, Erika Anderson, E'Qwahjamere Tisdale, Geronimo Moleno

Faculty Mentor(s): Stacey Clifton

Criminal Justice Poster Session

4:00 pm – 4:50 pm

Heth Hall 014 & 016

Solitary Confinement and Mental Health

Student Presenter(s): Natalie May, Jayla Robinson, Allison Sparks, Matthew Nasatka, Chance Morris
Faculty Mentor(s): Stacey Clifton

How Does the CSI Effect Influence the Juror's Experience

Student Presenter(s): Bradley St.Clair, Jamori Harris, Liam Valvo, Summer Rowland, Aaliyah Hall
Faculty Mentor(s): Stacey Clifton

How does Police Training Influence Use of Force?

Student Presenter(s): Hannah Jancewicz, Nathan Swisher, Devyn Crisco, Ashely Davis
Faculty Mentor(s): Stacey Clifton

How Political Bias Affects Supreme Court Decisions Overtime

Student Presenter(s): l'yonah Cartwright, Daniel Huff, Zoe Higley, Landen Seiders
Faculty Mentor(s): Stacey Clifton

How Does Solitary Confinement Affect Prisoners With Depression/Anxiety?

Student Presenter(s): Lauren Markowski, Ashley Smith, Gabriel Belcher, Christopher Persaud
Faculty Mentor(s): Stacey Clifton

How Does the Population Difference of Rural Areas Compared to Urban Areas Affect Police Relations?

Student Presenter(s): Lexie Cobb, Hayden Gulsby, Walker Bourne, Quasym Cotto
Faculty Mentor(s): Stacey Clifton

How Does the Perception of Police Militarization Change With Generational Age?

Student Presenter(s): Crystal Parrish, Trena Garland, Deon Cooper, Jaxon Turner, William Dalrymple
Faculty Mentor(s): Stacey Clifton

Drugs and Violent Crime

Student Presenter(s): Cailin Johnson, Haley Lee, Marquis Brown, Jessica Valero-Molina
Faculty Mentor(s): Shawn Smith

The Effects of CPTED on New River Valley Schools

Student Presenter(s): Hannah Lynch, Jaxon Turner, Malik Robinson, Jessica Martinez,
Chandler Heiser
Faculty Mentor(s): Shawn Smith

Safety Precautions on Radford Campus and the Effects it Has on Crime

Student Presenter(s): Cameryn Paczosa, Isabelle Mazariego, Madison Mays, James Denfeld,
Sixto Rincon
Faculty Mentor(s): Shawn Smith

Are African Americans More Likely to be Victims of Excessive Force?

Student Presenter(s): Sophie Paspal, Grace Cleary, Lexie Roberts, Heaven Reyes, Cora Ciarcia,
Sydney Monachelo
Faculty Mentor(s): Lori Elis

Criminal Justice Poster Session

4:00 pm – 4:50 pm

Heth Hall 014 & 016

Defunding the Police

Student Presenter(s): Haley Goldin, Jacob McKinney, Sean Adkins, Jc Callaham, Alyssa Wilson

Faculty Mentor(s): Lindsay Semprevivo

Organized Crime- Prohibition

Student Presenter(s): Callahan Tully, Tori Reeves, Cameron Davison, Domonic Bourgeois, Alyssa Jamison

Faculty Mentor(s): Lindsay Semprevivo

How Does Incident Exposure Influence Police Mentality?

Student Presenter(s): Leah Shumate, Amanda Bishop, Kelby Edwards, Sixto Rincon

Faculty Mentor(s): Stacey Clifton

Finding Justice in Human Trafficking

Student Presenter(s): Kasey Lovelace, Haley morris, olivia cadora, cadence willis, cheyenne pruit

Faculty Mentor(s): Lindsay Semprevivo

Interdisciplinary Poster Session

4:00 pm – 4:50 pm

Center for the Sciences Lobby

Sex Estimation From the Scapula From a Contemporary US Population

Student Presenter(s): Hailey Argonis

Faculty Mentor(s): Cassidy Urista

Examining the Differences Between Public and Private Prisons

Student Presenter(s): Hayley Snow, Xavier Beard, Nate Shaffer, Isabelle Mohl

Faculty Mentor(s): Stacey Clifton

Attitudes, Beliefs, and Self-reported Practices of Currently practicing EMS Providers Regarding Pediatric Occupant Restraint Techniques During Ambulance Transportation

Student Presenter(s): Rachel Horkey, Rosemary Lavelle, Benjamin Kolman, Eric Johnson, Logan Ashlin, Jordan Helton

Faculty Mentor(s): Elliot Carhart

James and Brown Family Collection

Student Presenter(s): Elizabeth Webb

Faculty Mentor(s): Sharon Hepburn

Filling in the Gaps With States of Emergencies

Student Presenter(s): Connor Harper

Faculty Mentor(s): Allyson Yankle

Examining Healthcare Experiences in the New River Valley

Student Presenter(s): Maia Grove

Faculty Mentor(s): Aysha Bodenhamer

Understanding the Black Identity Development in Primary School in the NRV

Student Presenter(s): Jeannie Tene, Abby Austin, Qu'Shaud Petty

Faculty Mentor(s): Joanna Hunter

The Impact of Overtourism on the Tourist Experience in Tennessee and Nevada, Research Findings

Student Presenter(s): Nicole Hankins

Faculty Mentor(s): Anita Zatori

Attitudes Towards Evidence-Based Practice Among Currently Practicing EMS Providers within the U.S.

Student Presenter(s): Brent McCarthy, Ethan Wright, Logan Klepal, Bailey Hager, Joseph Whitesell

Faculty Mentor(s): Elliot Carhart

Interdisciplinary Poster Session – Highlander Research Rookies

4:00 pm – 4:50 pm

Center for the Sciences Lobby

**The Deceptiveness of Comorbidity: Investigating Comorbidity of Mental Health Diagnoses in Pediatric Clients**

Student Presenter(s): Skylar Gudmundsson

Faculty Mentor(s): Emily Dove, Jennifer Mabry

Assessing the Role of Neuropeptide Y in Cannabinoid-Exposed Adolescent Rats

Student Presenter(s): Hayat Khan

Faculty Mentor(s): Dayna Hayes

To Be Faithful or Not to Be Faithful: The Impact of Religious Devotion on Immigrants' Economic Success

Student Presenter(s): Owen Clark

Faculty Mentor(s): Petra Besenhard

Cybercrimes Committed Against Children

Student Presenter(s): Lauren Griffin

Faculty Mentor(s): Shawn Smith

Why The Stock Market?

Student Presenter(s): Charles Nickens

Faculty Mentor(s): Abhay Kaushik

Bats Abroad: Investigating Predictors of Global Phylogenetic Diversity in Bats

Student Presenter(s): Abbi Green

Faculty Mentor(s): Tara Pelletier

Music and Movement: How and Where do they Meet?

Student Presenter(s): Meridythe Witt

Faculty Mentor(s): James Robey

Interdisciplinary Poster Session – Highlander Research Rookies

4:00 pm – 4:50 pm

Center for the Sciences Lobby

**21st Century Makerspaces For All**

Student Presenter(s): Owen Tidd

Faculty Mentor(s): Margaret Carneal

Quantifying Nicotine in Commercial E-cigarette Liquids

Student Presenter(s): Michaela Lartey-Mingle

Faculty Mentor(s): Kristina Stefaniak

Scoping Review on Music Therapy and the Mental Health of the African American Community

Student Presenter(s): Ashley Glover

Faculty Mentor(s): Sekyung Jang

Health Assessment; an Interprofessional Approach

Student Presenter(s): Kendra Munsey

Faculty Mentor(s): Virginia Weisz

Searching for the Sound: Questioning Usability of the Instrument Timbre Preference Test for Determining Vocal Timbre Preference

Student Presenter(s): Autumn Langlois

Faculty Mentor(s): Jennifer McDonel

The Impact of Intermediate Fasting on Mood

Student Presenter(s): Maggie Bower

Faculty Mentor(s): Melissa Grim

"Functional Foods": How Phytochemicals Combat Cellular Damage

Student Presenter(s): Leah Ellis

Faculty Mentor(s): Melissa Grim

Analyzing Jump Squats

Student Presenter(s): Jordyn Johnson

Faculty Mentor(s): Laura Newsome

An Investigation of Mechanics and Muscular Activation in Fencing

Student Presenter(s): Maxwell McCurdy

Faculty Mentor(s): David Sallee

Interdisciplinary Poster Session – Accelerated Research Opportunities
4:00 pm – 4:50 pm Center for the Sciences Lobby

Native Trees at Glencoe Museum and the Mary Draper Ingles Trail

Student Presenter(s): Atlas Davies

Faculty Mentor(s): Christine Small

Beyond the Classroom: Workforce Readiness Through Experiential Learning

Student Presenter(s): Cora Burt

Faculty Mentor(s): Joe Wirgau

American Spiritualism: Hoaxes and History

Student Presenter(s): Bethany Pearsall

Faculty Mentor(s): Justine Jackson Stone

Walking in Stigmatized Shoes

Student Presenter(s): Joshua Shimp

Faculty Mentor(s): Jane Machin, Luke Liska

Anthropology And The Biomechanics Of Bipedal Locomotion

Student Presenter(s): Abigail Stuckey

Faculty Mentor(s): Cassidy Ursta



Innovations in Forensic Science Oral Presentations

9:30 am – 11:50 am

Heth Hall 022

Bilateral Asymmetry in the Scapula between the Sexes

Student Presenter(s): Hailey Argonis

Faculty Mentor(s): Donna Boyd

Differentiating Sharp Force Trauma and Carnivore Scavenging Impacts on Bone

Student Presenter(s): Megan Brown

Faculty Mentor(s): Donna Boyd

The Effect of Household Chemicals on Sharp Force Trauma Cut Mark Visibility in Bone

Student Presenter(s): Kaitlyn Edwards

Faculty Mentor(s): Donna Boyd

The Effect of Carnivore Body Weight on Postmortem Scavenging and Human Bone Modifications

Student Presenter(s): Cameryn Paczosa

Faculty Mentor(s): Donna Boyd

Interobserver Error in Classifying Skeletal Fractures

Student Presenter(s): Summer Rowland

Faculty Mentor(s): Donna Boyd

The Effects of Fatal Blunt Force Trauma Soft Tissue Injury on Skeletal Fractures

Student Presenter(s): Kyasya Seams

Faculty Mentor(s): Donna Boyd

Diversity and Inclusion in Forensic Anthropology: Its Effects and Applications for the Future

Student Presenter(s): Jaila Woodbury

Faculty Mentor(s): Donna Boyd

Geospatial Poster Session

12:00 pm – 1:15 pm

Reed Hall Artis Atrium

Hazus Estimation of Potential Damage and Economic Loss from a 7.3M: A case of Blacksburg, Virginia

Student Presenter(s): Ben Ramsey

Faculty Mentor(s): Charles Manyara

Coastal Change Detection in Outer Banks, North Carolina

Student Presenter(s): Jared Cico

Faculty Mentor(s): Stockton Maxwell, Charles Manyara

Assessing Wetland Health in Coastal Louisiana Using High-Resolution Satellite Imagery and Remote Sensing Indices

Student Presenter(s): Jonathan Antin

Faculty Mentor(s): Stockton Maxwell, Charles Manyara

Determining the Best Method to Delineate Forest Boundaries Using Geospatial Technologies

Student Presenter(s): Christian Barnard

Faculty Mentor(s): Stockton Maxwell, Charles Manyara

Predicted Sea Level Rise and Associated Damages in St. Augustine, Florida

Student Presenter(s): Levi Dalton

Faculty Mentor(s): Stockton Maxwell, Charles Manyara

Geospatial Poster Session

12:00 pm – 1:15 pm

Reed Hall Artis Atrium

Shipwreck Prediction in the Gulf of Mexico

Student Presenter(s): Jacob Johnson

Faculty Mentor(s): Stockton Maxwell, Andrew Foy

Using FEMA's Hazus to Model the Effects of Hurricane Hermine 2016 on Two Coastal Florida Communities

Student Presenter(s): Hannah Kocen

Faculty Mentor(s): Stockton Maxwell, Charles Manyara

Correlation of the Location of CAFOs and the Concentration of Nitrogen and Phosphorous Pollution in Virginia Watersheds

Student Presenter(s): Claire Mitchell

Faculty Mentor(s): Stockton Maxwell

Climatic Impact on Red Spruce Trees in Southwest Virginia

Student Presenter(s): Mira Smith

Faculty Mentor(s): Stockton Maxwell

Simulating the Causes of the 1958 Lituya Bay Tsunami using FEMA's HAZUS-MH

Student Presenter(s): Emily Spingarn

Faculty Mentor(s): Charles Manyara

An Ecological Prediction on the Spread of the Spotted Lanternfly

Student Presenter(s): Madigan Bright

Faculty Mentor(s): Stockton Maxwell, Andrew Foy

Detecting Wetland Transition in Duval County, Florida

Student Presenter(s): Ben Ramsey

Faculty Mentor(s): Stockton Maxwell, Charles Manyara

Archaeological Research Methods Poster Session

2:00 pm – 3:15 pm

Reed Hall Artis Atrium

Impact of Urbanization on the Environment in the Context of Climate Change

Student Presenter(s): Christian Barnard

Faculty Mentor(s): Naveen Joseph

Estimating Property Damage and Economic Loss using FEMA HAZUS, for Tampa Bay, Florida

Student Presenter(s): Christian Barnard

Faculty Mentor(s): Manyara Charles

Impacts of Dams on Land Use and Water Resources

Student Presenter(s): Ben Ramsey

Faculty Mentor(s): Naveen Joseph, Charles Manyara

Climate Response Analysis of Liriodendron tulipifera in Southwest Virginia

Student Presenter(s): Madigan Bright

Faculty Mentor(s): Stockton Maxwell

Looking at the Graveyard

Student Presenter(s): Jake Fox

Faculty Mentor(s): Jake Fox

Archaeological Research Methods Poster Session

2:00 pm – 3:15 pm

Reed Hall Artis Atrium

Written in Stone: What Can a Tombstone Tell Us About a Person's Life?

Student Presenter(s): Hailey Linder, Kysaya Seams

Faculty Mentor(s): Jake Fox

The Dead Still Talk: What Can Gravestones Tell You About People?

Student Presenter(s): Sarah Mullis

Faculty Mentor(s): Jake Fox

An Analysis of Tombstone Styles in the New River Valley

Student Presenter(s): Louisa Paulson, Sarah Klein

Faculty Mentor(s): Jake Fox

Average Life Expectancy in Wytheville

Student Presenter(s): Logan Taylor

Faculty Mentor(s): Jake Fox

Gravestone Decorations Used by Early Floyd County Residents

Student Presenter(s): Grey Wheeler

Faculty Mentor(s): Jake Fox

Limestone, Shells, and Knotted Nets: A Study of Eastern Woodland Pottery Sherds

Student Presenter(s): Thrasher Whitehurst

Faculty Mentor(s): Jake Fox

Mortality Trends and Socioeconomic Changes Shown in Radford's Cemeteries

Student Presenter(s): Zofia Witkowski

Faculty Mentor(s): Jason Fox

Biology Poster Session

3:30 pm – 4:45 pm

Center for the Sciences Lobby

Bugs and Bark: How Light, Temperature, and Bark Type Affect Boxelder Bug Density

Student Presenter(s): Brianna Aldridge, Myah Boyd, Sierra Benavidez

Faculty Mentor(s): Christine Small

Unusual Cases of Companion Animals at Natural Bridge Animal Hospital

Student Presenter(s): Catherine Bruffy

Faculty Mentor(s): Karen Powers

BilboSwaggins and the DNA Ring: Journey to Annotate The Genome

Student Presenter(s): Sophie Cain, Gabrielle Bailey, Elias Vance

Faculty Mentor(s): Amanda Raimer

BilboSwaggins: The Battle of the Five Phages

Student Presenter(s): Zachary Campbell, Christian Adkins, Alec Correa

Faculty Mentor(s): Amanda Raimer

The Effect of Disturbance on Sycamore Tree Size in Southwest Virginia

Student Presenter(s): McKenzie Cheynet, Morgan Cheynet, Emma Claire Seaney, Taylor Hackney

Faculty Mentor(s): Jamie Lau

Biology Poster Session

3:30 pm - 4:45 pm

Center for the Sciences Lobby

Annotating the Novel Genome of Bacteriophage BilboSwaggins

Student Presenter(s): Breonna Cox, Jack Koger, Caleb Smith, Acalia Carter-Martin

Faculty Mentor(s): Amanda Raimer

Comparing Magnolia Leaf Dimensions Across Radford University's Campus

Student Presenter(s): Atlas Davies, Jenna Glebocki, Kiara Salvador, Amber Gordon

Faculty Mentor(s): Jamie Lau

Predicting Redbud Fertility and Fecundity Using the Fruit CharacteristicsStudent Presenter(s): Jadyn Dekle, Markus Betigheimer, Carson Jernigan, Jada Andrew,
Jared Williams

Faculty Mentor(s): Jamie Lau

What is the Difference Between Water Quality for On- and Off-campus Housing?Student Presenter(s): Lauren Griffin, Jonathan Antin, Nathaniel Kromkowski, Abby Rice,
Justin Smith

Faculty Mentor(s): Jamie Lau

Ectoparasites of American Robins (*Turdus migratorius*) at Radford University

Student Presenter(s): Tessa Harmon, Liliana Dailey, Bianca Plowman

Faculty Mentor(s): Karen Powers, Robert Sheehy

Cloning and Classification of Bacteriophage Genome

Student Presenter(s): Emma Hendrix, Elizabeth Burrell, Emily Anderson

Faculty Mentor(s): Tara Pelletier, Amanda Raimer

How Does Bittercress Patch Size Affect Flower Versus Leaf Density?

Student Presenter(s): Miranda Howard, Contessa Haas, Angel McCleese, Allison Pitstick

Faculty Mentor(s): Christine Small

Relating Fish Catch Per Unit Effort to Depth of Lure

Student Presenter(s): Mariah Lineberry, Jayson Ashcraft, Janea Boyce

Faculty Mentor(s): Jamie Lau

Take It or Leaf It: Effects of Group Size on the Number of Flowers in Persian Speedwell (*Veronica persica*) Plants

Student Presenter(s): Sarah Mullis, Aerowen Bryant, JoJo Turcios, Maddie Mohler

Faculty Mentor(s): Christine Small

Mapping the Spatial Distribution of Spring Flowers in Wildwood Park

Student Presenter(s): Jackeline Nerro, Sara Johnson, Maliah Walker

Faculty Mentor(s): Jamie Lau

The Fellowship of the Phage: Annotation of Bacteriophage BilboSwaggins

Student Presenter(s): Will O'Neal, Sarah Ponce, Brooke Lampert

Faculty Mentor(s): Amanda Raimer

Comparing the Spicebush Flower Bud Size Over TimeStudent Presenter(s): Jaylen Rosser, Chantal Chinchilla-Romero, Andrea Tobar Barreno,
Carolyne Browe, Eryn Murphy

Faculty Mentor(s): Jamie Lau

Comparing Mushroom Fruiting Body Coverage on Decayed Logs

Student Presenter(s): Cara Rossmeisl, Kaley Hagan, Kayla Hudson, Raven Showalter

Faculty Mentor(s): Jamie Lau

Biology Poster Session

3:30 pm – 4:45 pm

Center for the Sciences Lobby

BilboSwaggins: An Unexpected Gene Annotation

Student Presenter(s): William Sadler, Gillian Linkous, Zoe Allen

Faculty Mentor(s): Amanda Raimer

Stability of the Physical Habitat in the Mill Creek Ecosystem Pre-pipeline Construction

Student Presenter(s): Jynna Harrell, Chantel Cook, Elise Simmons

Faculty Mentor(s): Jamie Lau

A Bug's Life: Box Elder Bug Group Size and Mating Behavior

Student Presenter(s): Hunter Schardt, Christian Cobbs, Wyatt NyfelerNseke

Faculty Mentor(s): Christine Small

Comparing the Spring Flower Diversity Over Time in Wildwood Park

Student Presenter(s): Sean Snead, Zion Ayer, Jacob Lehnen, Jasper Boyce

Faculty Mentor(s): Jamie Lau

Helicopter Seeds: Does Seed Size Affect Dispersal Distance Of Box-Elders Trees?

Student Presenter(s): William Viers, Ebenezer Mokreh, Damar Vacciana

Faculty Mentor(s): Christine Small

Comparing Red Maple Tree Growth Between High and Low Traffic AreasStudent Presenter(s): Emilee Waldrop, Marissa Church, Alana Williams, Joshua Daggett,
Chloe Brinkley

Faculty Mentor(s): Jamie Lau

Insects Working the Graveyard Shift: Comparing the Interior and Exterior Diversity

Student Presenter(s): Zoe Wetsel, Jack Cooper, Hilary Fangna, Sadie Stebbins, Summer Campbell

Faculty Mentor(s): Jamie Lau

CYP4F2 is a Potential New Marker to Assess Hepatotoxicity of Green Tea Extracts

Student Presenter(s): Camryn Williford, Bre Lane

Faculty Mentor(s): Peter Christmas

Big Grassy Bulbs, Why? A Look at Cluster and Crop Size in Onion Grass

Student Presenter(s): Michael Ziegenfus, Matt Post, Sam Sawyer, Nick Williams

Faculty Mentor(s): Christine Small

Heads in the Microscope: Describing the Diversity of Chironomidae in the Mill Creek Ecosystem

Student Presenter(s): Grace Turman

Faculty Mentor(s): Jamie Lau

Chemistry Oral Presentations

3:30 pm – 4:15 pm

Center for the Sciences M070

Synthesis of Fulvene-Derivatized Fullerenes

Student Presenter(s): Alyssa Jones, Kateri Schoettinger

Faculty Mentor(s): Timothy Fuhrer

The Correlation Between Chemistry Variables and Biodiversity in Streams

Student Presenter(s): Cole Presson

Faculty Mentor(s): Kristina Stefaniak, Jamie Lau, Tara Pelletier

Chemistry Poster Session

5:00 pm – 6:15 pm

Center for the Sciences Lobby

Protein Analysis via Dynamic Light Scattering

Student Presenter(s): Conan Basic, Ashton Ennis

Faculty Mentor(s): Kimberly Lane

Mushroom-based Advanced Materials for the Remediation of Polluted Water

Student Presenter(s): Genesis Carter, Ariel Barber

Faculty Mentor(s): Francis Webster

Synthesis and Characterization of Xenophilic Metal Clusters

Student Presenter(s): Guy Fortney

Faculty Mentor(s): George Harakas

Hair Analysis to Differentiate Dog Breeds

Student Presenter(s): Sierra Garrison

Faculty Mentor(s): Cindy Burkhardt

Determination of Triclosan in Household Products

Student Presenter(s): Cora Handy

Faculty Mentor(s): Kristina Stefaniak

Analysis of Whiskey by Gas Chromatography and Mass Spectrometry

Student Presenter(s): Emma Hendrix

Faculty Mentor(s): Christopher Monceaux

Presentation of Topoisomerase by Proteopedia

Student Presenter(s): Matt Hineline, Hunter Rogers, Jamison Reddy

Faculty Mentor(s): Kimberly Lane

Superhydrophobic Nanocarbon-based Materials for the Remediation of Oil-polluted Water

Student Presenter(s): Waitta Jarso

Faculty Mentor(s): Francis Webster

Presentation of Bacteriorhodopsin by Proteopedia

Student Presenter(s): Kaitlynn Leinberger, Jenna Blanchette

Faculty Mentor(s): Kimberly Lane

The Determination of Fluoride Content in Various Black Teas

Student Presenter(s): Ella Lockhart

Faculty Mentor(s): Cindy Burkhardt

Expression and Purification of E. Coli Beta Glucuronidase

Student Presenter(s): D. William O'Neal, Gabrielle Bailey

Faculty Mentor(s): Kimberly Lane

Spin-assisted Layer-by-layer Assembled Films for the Photo-degradation of Emerging Antibiotic Pollutants

Student Presenter(s): River Rupert

Faculty Mentor(s): Francis Webster

The Analysis of (+)-Catechin in Dark Chocolate Products

Student Presenter(s): Matthew Spitz

Faculty Mentor(s): Cindy Burkhardt

Chemistry Poster Session

5:00 pm – 6:15 pm

Center for the Sciences Lobby

Analysis of the Photocatalytic Degradation of Emerging Pollutants Using Quad-Layer Carbon:TiO₂:Chitosan Films

Student Presenter(s): Evan Wood

Faculty Mentor(s): Francis Webster

Analysis of Cannabinoids in Commercial Products Using Liquid Chromatography with PDA and MS Detection

Student Presenter(s): Jynna Harrell

Faculty Mentor(s): Christopher Monceaux

Geology Poster Session

5:00 pm – 6:15 pm

Center for the Sciences Lobby

Mapping Radford's Civil War History Using Unmanned Systems

Student Presenter(s): Kendra Bolen

Faculty Mentor(s): James Young, David Anderson

The Comparison of Topographic Data Twenty Years Apart

Student Presenter(s): Katelyn Harris

Faculty Mentor(s): James Young, Jonathan Tso

Rockfall Analysis Using Drones, 3-D Model Analysis, and a Rock Fall Simulation of Rockfalls in Montgomery County, Virginia

Student Presenter(s): Hannah Kocen

Faculty Mentor(s): Jim Young

UAV and Ground-based Photogrammetry Applications for Use in Boulder Mass Distribution Following Moraine-dammed Lake Failures in Northern Patagonia

Student Presenter(s): Garrett O'Hara

Faculty Mentor(s): Ryan Sincavage

Physics Poster Session

5:00 pm – 6:15 pm

Center for the Sciences Lobby

The Effect of Sea Ice Terrain on Local Air Speed and Temperature

Student Presenter(s): Nickolas Terehoff

Faculty Mentor(s): Rhett Herman

Investigating a Possible Link Between Cryoseismic Activity and Acceleration of Anthropogenic Climate Change

Student Presenter(s): Samuel Williams, Jonathon Halferty

Faculty Mentor(s): Rhett Herman

The Messier Marathon from Selu Observatory

Student Presenter(s): Dustin Kirby

Faculty Mentor(s): Sandra Liss

Occupational Therapy Virtual Session

12:00 pm - 12:30 pm

Zoom: 91704443488 Password: OURS2023

My Cultural Self

Student Presenter(s): Addison Panse

Faculty Mentor(s): Sarah Garrison

Notes: