Student Engagement Forum Coordinators in OURS

Joe Wirgau, Director
Maggie Pate, Associate Director
Amanda Melvin, Administrative Assistant
Madison Ferst, Graduate Assistant
Brooklynn Ham, Graduate Assistant
Sierra Felty, Executive Student Assistant
Maia Grove, Executive Student Assistant
Skylar Roberson, Executive Student Assistant

The following individuals are acknowledged for their contributions:

Bud Bennett, Archives Supervisor
Robin Dowdy, Director, Creative Services
Jeff Greenough, University Photographer
Connie Leathers, Support Specialist & Trainer, IT
Jonathan Mayer, Assistant Manager, Printing Services
Lydia McCallister, Operations Manager, Archives
Jeanne Mekolichick, Associate Provost, Academic Programs
Foster Sheppard, Graphic Design Manager, University Relations
Josh Wimmer, Graphic Production Tech, Printing Services

The following individuals are acknowledged for Organizing Previous Student Engagement Forums:

Rick Slavings 1992-2002
Orion Rogers 2003
Joe King 2004-2013
Niels Christensen 2011-2013

The artwork for this program is a collaborative effort between Foster Sheppard, Madison Ferst, and the library archivists. It is inspired by the 1992 Radford University Beehive yearbook cover. For the timeless popularity and relevance, Polaroids were chosen to highlight the development and progress of Radford University in research across the past 30 years.
30th Radford University Student Engagement Forum

Schedule at a Glance

Please note that this event is occurring virtually through a combination of D2L and Zoom. All of the live Zoom links are included below for your ease of navigation and listed with the session titles throughout the program. Anyone with a Radford email can add themselves to "RU Student Engagement Forum" D2L page by self-enrolling by following the instructions linked here.

Monday, April 12th: All Zoom Passwords: SEF2021

- **Environmental Sociology Research Session 1**
  - 11:00-11:50am
  - Zoom: [https://radford.zoom.us/j/99887924433](https://radford.zoom.us/j/99887924433)
  - pp 5

- **Commodities, Value and History**
  - 11:00-11:50am
  - Zoom: [https://radford.zoom.us/j/95601821308](https://radford.zoom.us/j/95601821308)
  - pp 5

- **Summit on Environmental Justice and History**
  - 1:00-1:50pm
  - Zoom: [https://radford.zoom.us/j/95601821308](https://radford.zoom.us/j/95601821308)
  - pp 5

Tuesday, April 13th: All Zoom Passwords: SEF2021

- **Geospatial Science Session 1**
  - 9:30-10:45am
  - Zoom: [https://radford.zoom.us/j/99921848091](https://radford.zoom.us/j/99921848091)
  - pp 6

- **Geospatial Science Session 2**
  - 3:30-4:45pm
  - Zoom: [https://radford.zoom.us/j/99921848091](https://radford.zoom.us/j/99921848091)
  - pp 6

- **Hip Hop Showcase Session 1**
  - 11:00am-12:15pm
  - Zoom: [https://radford.zoom.us/j/93907944190](https://radford.zoom.us/j/93907944190)
  - pp 7

- **Biology Virtual Poster Session 1**
  - 4:00-4:50pm
  - Zoom: [https://radford.zoom.us/j/95642799778](https://radford.zoom.us/j/95642799778)
  - pp 7-8

- **Chemistry Research Session 1**
  - 2:00-2:50pm
  - Zoom: [https://radford.zoom.us/j/98522690790](https://radford.zoom.us/j/98522690790)
  - pp 8

- **Chemistry Research Session 2**
  - 3:00-3:50pm
  - Zoom: [https://radford.zoom.us/j/98522690790](https://radford.zoom.us/j/98522690790)
  - pp 8-9

- **Chemistry Research Session 3**
  - 4:00-4:50pm
  - Zoom: [https://radford.zoom.us/j/98522690790](https://radford.zoom.us/j/98522690790)
  - pp 9

- **Highlander Research Rookie Showcase**
  - 4:00-6:00pm
  - Zoom: [https://radford.zoom.us/j/99672287552](https://radford.zoom.us/j/99672287552)
  - pp 9-11

- **Honors Capstone Recap - Session 1**
  - 4:00-5:00pm
  - Zoom: [https://radford.zoom.us/j/92709281532](https://radford.zoom.us/j/92709281532)
  - pp 11

- **Psychology and Gender Research**
  - 4:00-6:00pm
  - D2L Interactive Discussion Boards
  - pp 12-16

- **Doctor of Physical Therapy Research**
  - 5:00-6:00pm
  - Zoom: [https://radford.zoom.us/j/95576031039](https://radford.zoom.us/j/95576031039)
  - pp 17

- **Citizen Leader Showcase**
  - 5:00-7:00pm
  - Zoom: [https://radford.zoom.us/j/99417904138](https://radford.zoom.us/j/99417904138)
  - pp 17
**Wednesday, April 14th: All Zoom Passwords: SEF2021**

- **Environmental Sociology Research Session 2** 11:00-11:50am  
  Zoom: [https://radford.zoom.us/j/99887924433](https://radford.zoom.us/j/99887924433)  
- **Commodities, Value and History** 11:00-11:50am  
  Zoom: [https://radford.zoom.us/j/95601821308](https://radford.zoom.us/j/95601821308)  
- **Summit on Environmental Justice and History** 1:00-1:50pm  
  Zoom: [https://radford.zoom.us/j/95601821308](https://radford.zoom.us/j/95601821308)  
- **Biology Virtual Poster Session 2** 1:00–3:00pm  
  Zoom: [https://radford.zoom.us/j/95988708508](https://radford.zoom.us/j/95988708508)  
- **Accelerated Research Opportunities Showcase** 2:00-2:50pm  
  Zoom: [https://radford.zoom.us/j/95096942830](https://radford.zoom.us/j/95096942830)  
- **HHP Biomechanics Showcase 1** 2:00-2:50pm  
  Zoom: [https://radford.zoom.us/j/98259618683](https://radford.zoom.us/j/98259618683)  
- **HHP Biomechanics Showcase 2** 3:00-3:50pm  
  Zoom: [https://radford.zoom.us/j/98259618683](https://radford.zoom.us/j/98259618683)  
- **Interdisciplinary Research Session** 4:00-4:50pm  
  Zoom: [https://radford.zoom.us/j/98477606396](https://radford.zoom.us/j/98477606396)  
- **Honors Capstone Recap - Session 2** 5:00-6:00pm  
  Zoom: [https://radford.zoom.us/j/92709281532](https://radford.zoom.us/j/92709281532)  
- **Honors Education Panel** 6:00-6:30pm  
  Zoom: [https://radford.zoom.us/j/92709281532](https://radford.zoom.us/j/92709281532)  
- **Honors Science Panel** 6:30-7:00pm  
  Zoom: [https://radford.zoom.us/j/92709281532](https://radford.zoom.us/j/92709281532)  
- **Honors Social Science Panel 1** 7:00-7:30pm  
  Zoom: [https://radford.zoom.us/j/92709281532](https://radford.zoom.us/j/92709281532)  
- **Honors Social Science Panel 2** 7:30-8:00pm  
  Zoom: [https://radford.zoom.us/j/92709281532](https://radford.zoom.us/j/92709281532)  
- **Korean Pop Showcase** 5:30-6:00 pm  
  Zoom: [https://radford.zoom.us/j/94848191056](https://radford.zoom.us/j/94848191056)  
- **Lightning Research Competition** 6:00-7:30pm  
  Zoom: [https://radford.zoom.us/j/99672287552](https://radford.zoom.us/j/99672287552)

**Thursday, April 15th: All Zoom Passwords: SEF2021**

- **Current Research in Forensic Science** 8:00am-12:00pm  
  Zoom: [https://radford.zoom.us/j/99954677331](https://radford.zoom.us/j/99954677331)  
- **Hip Hop Showcase Session 2** 11:00am-12:15pm  
  Zoom: [https://radford.zoom.us/j/93907944190](https://radford.zoom.us/j/93907944190)  
- **Art History Showcase: Unfamiliar Russian Art** 2:00–3:30pm  
  Zoom: [https://radford.zoom.us/j/9831849180](https://radford.zoom.us/j/9831849180)  
- **Geospatial Science Session 3** 3:30-4:45pm  
  Zoom: [https://radford.zoom.us/j/99921848091](https://radford.zoom.us/j/99921848091)  
- **OURS CARES Awards** 6:00-6:30pm  
  Zoom: [https://radford.zoom.us/j/99672287552](https://radford.zoom.us/j/99672287552)  
- **Graduate Criminal Justice Showcase 1** 6:30–8:00pm  
  Zoom: [https://radford.zoom.us/j/97259662209](https://radford.zoom.us/j/97259662209)
Friday, April 16th: All Zoom Passwords: SEF2021

Commodities, Value and History 11:00-11:50am pp 33
Zoom: https://radford.zoom.us/j/95601821308

Summit on Environmental Justice and History 1:00-1:50pm pp 33
Zoom: https://radford.zoom.us/j/95601821308

Asynchronous: Accessible on D2L

Art History Showcase pp 33
Biology Virtual Session pp 34
Graduate Criminal Justice Showcase 2 pp 34-35
Interdisciplinary Asynchronous Presentations pp 35-36
Production Technology Showcase pp 36
Undergraduate Criminal Justice Showcase pp 37-38
Welcome and Retrospective

30 years of the Radford Student Engagement Forum (SEF). Thirty years! They say the only constant is change, and although this event has changed names multiple times and grown from a mere 30 student presenters to nearly 400 this year (despite a pandemic), it has been a constant that Radford University has been committed to engaging our students in projects that challenge them to grow and find answers to questions that matter in our modern society. The “Annual Undergraduate Forum” (cover art for the 3rd program pictured, right) started with big objectives. Every year our students and faculty continually meet the eight original goals that range from the first, “encouraging awareness and recognizing exemplary student accomplishments” to the last, “showcasing and celebrating what is best in undergraduate education at Radford University.” Building off of this proud tradition, and in support of the founding goals for the now Student Engagement Forum, I am excited to include the first annual OURS CARES Awards Showcasing the Best in Undergraduate Research during the traditional Thursday evening conclusion to the forum—as many call it. Maybe we shouldn’t have changed the name so many times. But the name changes are a great segue into the history of the forum and how those changes are representative of changes across campus. The SEF would not exist without passionate professors like Moira Baker who found a way to mentor students and find funding to present at the first ever National Conference at Undergraduate Research in Asheville, NC in 1987. Enthusiasm for bringing these experiences to more students was championed by Warren Self and brought into existence by Rick Slavings in 1991. I consider myself indebted to their vision for our university. In the early years the title changed to the Undergraduate Graduate Forum to include all of our students and a growing graduate degree portfolio and then to Undergraduate/Graduate Student Engagement Forum in support of our QEP. In this same time period, the Honors Academy became the sponsor under the guidance of Orion Rogers and then for many years grew under the vision of Joe King. I have had the privilege of managing the Student Engagement Forum, since taking over from Niels Christensen in 2004. Niels was extremely gracious in offering advice, examples, and answering my questions in those early years. OURS has tried to bring new ideas every year to the SEF and this year we added the Lighting Research Competition and live virtual presentations. We continually push researchers across campus to think of the audience member and how we can best deliver information in a meaningful way. I like to think I’ve come a long way since my first research poster in 1999 (pictured left, for your amusement at the insistence of our GA Madison Ferst).

Etched in stone on the front of the Bonnie is the phrase Investing In Lifetimes. Throughout the last three decades, the Student Engagement Forum has been an investment in our students. This investment is well captured in quotes from longtime participants such as Melinda Wagner: “The Student Engagement Forum acts as a springboard to professional pursuits” and Susan Kwilecki “The Student Engagement Forum pushed already excellent students to higher standards.” My hope is that each of you capture that spirit from interacting with the myriad of students presenting this week. Thirty years! As I look to the future, this past year of mastering—well ok, becoming accustomed to—zoom, wearing masks, and knowing precisely how far apart six feet is has made it clear I have no idea what is in store for the SEF, Radford University, or each of you. However, in seeing Radford University faculty and student teams find solutions to challenges, such as a way to adapt and carry out every funded SURF proposal where the majority of planned summer research projects across the nation were canceled, I know that the future is bright for the highlander family. I cannot wait to see what the 40th and 50th renditions bring!

-With Highlander Pride, Joe Wirgau, Director of OURS
Environmental Sociology Research Session 1
Monday, April 12th, 11:00 – 11:50 am
Zoom: 99887924433 Password: SEF2021

Incentive Driven Recycling Machine
Ashley Lambert  Amber Evers  Connor Elsasser
Mariah Hicks
Faculty Mentor(s): Aysha Bodenhamer

Mountain Valley Pipeline Environmental Hazard
Jalen Mink  Olivia Gilliam  LeeAnne Bryant-Doyle
Cynthia Alfaro
Faculty Mentor(s): Aysha Bodenhamer

Dining Hall Plastic & Styrofoam Waste
Monica Tobaldo  Cole Lambert  Justin Davis
Faculty Mentor(s): Aysha Bodenhamer

Commodities, Value and History
Monday, April 12th, 11:00 – 11:50 am
Zoom: 95601821308 Password: SEF2021

The Sport of Kings: From Pastime of Royalty to Global Superpower
Laura deStanley
Faculty Mentor(s): Brock Cutler

The Important of Rare Earth Metals in Our Every Day Life
Grace Ferrara
Faculty Mentor(s): Brock Cutler

An Opening Dive Into The Labor and Development of Pearls As A Commodity
Blake Newton
Faculty Mentor(s): Brock Cutler

The Changes Gunpowder Brought To Warfare
Louis Rossi
Faculty Mentor(s): Brock Cutler

Gum As a Commodity and Its History
Evan Walker
Faculty Mentor(s): Brock Cutler

Summit on Environmental Justice and History
Monday, April 12th, 1:00 – 1:50 pm
Zoom: 95601821308 Password: SEF2021

Water and Justice in the United States
Dion't'e Hadden  Juston Carter  Amanda Dean
Blake Newton  Nathan Frazier  Anne Jenkins
Faculty Mentor(s): Brock Cutler
Geospatial Science Session 1
Tuesday, April 13th, 9:30 – 10:45 am
Zoom: 99921848091 Password: SEF2021

Northern Virginia Flood Analysis Model
Rand Bohnert
Faculty Mentor(s): Charles Manyara

Estimating Losses from Hurricane Harvey Using FEMA’s HAZUS-MH Model
Aaron Fuentes Pasasi
Faculty Mentor(s): Charles Manyara

Geospatial Science Session 2
Tuesday, April 13th, 3:30 – 4:45 pm
Zoom: 99921848091 Password: SEF2021

River Management of Impaired Streams in the Wolf Creek watershed in Fayette County, West Virginia.
Brandon Stanish
Faculty Mentor(s): Charles Manyara

Collection and Management of Zoning Data by Local Governments.
Jeff Brennan
Faculty Mentor(s): Charles Manyara

Opioid Overdose Deaths in Rural Virginia
Brandon Miskell
Faculty Mentor(s): Charles Manyara

Habitat Fragmentation and Animal Collisions in Virginia National Forests and Parks
Nicholas Francis
Faculty Mentor(s): Charles Manyara Andrew Foy
Hip Hop Showcase Session 1  
Tuesday, April 13th, 11:00 am - 12:15 pm  
Zoom: 93907944190 Password: SEF2021

This Hip Hop Showcase will feature a live session during which we will share pre-recorded presentations on: 1) Sociology of Hip Hop, 2) Origins/History, and 3) The Four Elements. The live sessions will be moderated and attended by Sociology of Hip Hop students who welcome attendees to engage in organic conversation during and at the end of each event.

Faculty Mentor(s): Stephanie Bradley  
Moderators:  
LeeAnne Bryant-Doyle  
Tarrah Nida

Sociology of Hip Hop  
Jade Hayes  
Quinton Morton-Robertson  
Dana Taylor

Origins & History  
Rochelle Ellis  
Mia Hermans  
Monica Tobaldo

The Four Elements  
Lew Djonkam  
Amber Funderburg  
Miles Jones  
Heavon Ratcliff

Biology Virtual Poster Session 1  
Tuesday, April 13th, 4:00 - 4:50 pm  
Zoom: 95642799778 Password: SEF2021

Continued Use of DNA Barcoding to Identify Bird-Window Collision Carcasses at Radford University  
Justin McLaughlin  
Faculty Mentor(s): Karen Powers  
Robert Sheehy
**Biology Virtual Poster Session 1**
Tuesday, April 13th, 4:00 – 4:50 pm
Zoom: 95642799778 Password: SEF2021

**Using A Baci Design to Assess the Effects of a Natural Gas Pipeline installation Through Mill Creek, VA: Reporting on the Pre-installation Stream Structure**
Donya Mohamed
Faculty Mentor(s): Jamie Lau

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**Chemistry Research Session 1**
Tuesday, April 13th, 2:00 – 2:50 pm
Zoom: 98522690790 Password: SEF2021

**Organic Chemistry Educational Spectra**
Sydney Fisher
Faculty Mentor(s): Christine Hermann

**Photocatalytic Degradation of Model Pollutants using LbL-Fabricated Nanocarbon/TiO2 Thin Film Coatings in a LED-based Mini-Photo-Reactor**
Jesse Newman
Faculty Mentor(s): H. Francis Webster

**Self-assembly of Functionalized Carbon Nanoparticles on Polyurethane Sponges for Enhanced Oil Absorption**
Hannah Worrell
Faculty Mentor(s): H. Francis Webster

**Where Has All the Mass Gone? Quantifying TSS in Headwater Streams**
McKenzie Harpine
Faculty Mentor(s): Jamie Lau Kristina Stefaniak

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**Chemistry Research Session 2**
Tuesday, April 13th, 3:00 – 3:50 pm
Zoom: 98522690790 Password: SEF2021

**Counterfeit Cosmetics Compared to Name Brand**
Katelyn Bishop
Faculty Mentor(s): Kristina Stefaniak
Chemistry Research Session 2  
Tuesday, April 13th, 3:00 – 3:50 pm  
Zoom: 98522690790 Password: SEF2021

Examination of Lead Toxicity in Field Samples and Relationship to the Development of Neurodegenerative Disease  
Maci Keaton  
Faculty Mentor(s): Joe Wirgau, Kristina Stefaniak

Chemistry Research Session 3  
Tuesday, April 13th, 4:00 – 4:50 pm  
Zoom: 98522690790 Password: SEF2021

Determination of Caffeine in Black Tea  
Ahyana Calloway  
Faculty Mentor(s): Cindy Burkhardt

Neon Impressions: Developing a Method for Microplastic Detection Using an Ultraviolet Light-Sensitive Dye  
Lucas White  
Faculty Mentor(s): Amy Balija

Highlander Research Rookie Showcase  
Tuesday, April 13th, 4:00 – 6:00 pm  
Zoom: 99672287552 Password: SEF2021

Relationships Among Human Trafficking Survivors  
Dana Ours  
Faculty Mentor(s): Maggie Pate

Do COI Primers, Environmental Variables, and Variation in Lab Techniques Affect the Biodiversity Measures or the Quality and Quantity of Environmental DNA?  
Camryn Williford  
Faculty Mentor(s): Tara Pelletier

Brecht and Eliot: Overtness and Subtlety  
Frey Bendele  
Faculty Mentor(s): David Beach

Online, Fully Autonomous Advising Program for Radford University  
Grant McDonel  
Faculty Mentor(s): Caleb Bradberry
Highlander Research Rookie Showcase
Tuesday, April 13th, 4:00 – 6:00 pm
Zoom: 99672287552 Password: SEF2021

Internet Of Things (Smart home) Device Security
Sam Williams
Faculty Mentor(s): Premchand Uppuluri

Exploring QR Code Error Correction and the Role of Reed-Solomon Codes
Adam Downs
Faculty Mentor(s): Neil Sigmon

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

Examining Differing Mortality Rates for Black and White Americans in Small Metropolitan Counties of Virginia
Maia Grove
Faculty Mentor(s): Iuliia Hoban

Studying the Benefits of Retrieval Practice for High and Low Structure Builders
Jeannie Tene  Mykaela Hagen  Nina Houston
Morgan Shumaker
Faculty Mentor(s): Kathleen Arnold

Trends in Outdoor Spending: How Much is too Much?
Jeremy Armentrout
Faculty Mentor(s): Anja Whittington

How In-School Physical Therapy Is Important
MegAnne Gilmore
Faculty Mentor(s): Karen Douglas  Mary Evans

Can We Improve Well-being? A literature review of recent research on Well-being Intervention
Stephanie Annis  Allison Love  Ashley Nesmith
Caitlyn Thelen  Calla Zane
Faculty Mentor(s): Pei-Chun Tsai

Judicial Indiscretion: Legitimacy and Accountability through Judicial Conduct Enforcement
Michaela Baker
Faculty Mentor(s): Allyson Yankle
**Highlander Research Rookie Showcase**
Tuesday, April 13th, 4:00 – 6:00 pm
Zoom: 99672287552 Password: SEF2021

**Bridging Musical Worlds: Arranging Chopin's Preludes for Solo Percussion**
Hudson Crowe
Faculty Mentor(s): Matt Cataldi

**Mapping Hip Hop Studies and Pedagogy**
Coleen Maloney
Faculty Mentor(s): Stephanie Bradley

Honors Capstone Recap - Session 1
Tuesday, April 13th, 4:00 – 5:00 pm
Zoom: 92709281532

**Thinking Hard: Measuring Physiological and Neuroendocrine Responses to Problem-Solving Challenges in a Captive Avian Social System**
Drew Myers
Faculty Mentor(s): Jason Davis

**The Effects of Microplastics on Mealworms (Tenebrio molitor)**
Matt Shuma
Faculty Mentor(s): Sara O'Brien

**Synthesis of Gallium Containing Organometallic Compounds**
Mary Elizabeth Demmin
Faculty Mentor(s): George Harakas

**Heroin Rehabilitation Programs in Virginia**
Jackson Clayton
Faculty Mentor(s): Riane Bolin

**Preventing Child Abuse: A Look Inside the System**
Rachel Rogers
Faculty Mentor(s): Randy Matney
Psychology and Gender Research
Tuesday, April 13th, 4:00 – 6:00 pm
D2L Interactive Discussion Boards

Sound and Psychology: Psychoacoustics
Cortney Busick
Faculty Mentor(s): Ruth Riding-Malon

How Fear of Missing Out Relates to Electronic Ostracism
Cortney Busick
Faculty Mentor(s): Nicole Iannone

Pluralistic Ignorance and College Drinking: Parents’ Attitudes toward Alcohol as a Moderator
Zahra Al-shimary Kamron Body Farah Sorokin
Faculty Mentor(s): Jeff Aspelmeier

Behind Closed Doors: Is Pluralistic Ignorance For Interpersonal Violence Moderated By Political Attitudes?
Gabriela Avalos Bailey Graham
Faculty Mentor(s): Jeff Aspelmeier

A Missing Piece in Mainstream History of Psychology? How Do We Include Cultural Humility in Narrating a History of Psychology?
Hanako Baker
Faculty Mentor(s): Ruth Riding-Malon

College Students and Gratitude: The Impact of Professor Characteristics on College Students in the “Thank-a-Professor” Campaign
Brayden Bradbury Mariam Abedrabbo Lauren Gwyn
Faculty Mentor(s): Stirling Barield

Is Pluralistic Ignorance within Fear of Rejection Moderated by Greek Life Affiliation?
Kaitlyn Brinkley Linda Chu Jack Clay
Faculty Mentor(s): Jeff Aspelmeier

The Association Between Music Listening & Workplace Performance in an Organizational Environment
Matthew Brotherton
Faculty Mentor(s): Jenessa Steele

Emotional Labor and Negative Affect: When the Show Must Go On
Caden Bullen Coleman Gentry
Faculty Mentor(s): Nora Reilly
Psychology and Gender Research
Tuesday, April 13th, 4:00 – 6:00 pm
D2L Interactive Discussion Boards

College Students and Gratitude: A Qualitative Exploration of Emotion in the “Thank-a-Professor” Campaign Before and During the COVID-19 Pandemic.
Caden Bullen Arianna Burnette Dakota Langford
Faculty Mentor(s): Stirling Barfield

Job Control as a Mediator between Job Demands and Job Stress
Shanya Chandel
Faculty Mentor(s): Jenessa Steele

How Young Adults May Employ Spiritual Support to Overcome Religious Doubt: Does Older Mean Wiser?
Kara Doughtie
Faculty Mentor(s): Jenessa Steele

Are Atheists Immoral? How Students View Atheists in Public Versus Private Settings
Phoebe Dubois
Faculty Mentor(s): Jenessa Steele

R.U. Masking up? Pluralistic Ignorance within Attitudes and Intentions toward COVID-19
Phoebe Dubois Caelan King Carly Pullen
Hayley Grossman Hailey Scherer Danielle Fleenor
Faculty Mentor(s): Jeff Aspelmeier

The Roles of Testing and Feedback in Value-Directed Remembering
Felix Frost Morgan Shumaker Madison Presley
Faculty Mentor(s): Kathleen Arnold Catherine Middlebrooks

The Voices of Peer Support
Coleman Gentry Nina Houston
Faculty Mentor(s): Stirling Barfield

Robot Therapists: Artificial Intelligence Machines and the Future of Psychotherapy
Daniel George
Faculty Mentor(s): Ruth Riding-Malon

College Students and Gratitude: A Qualitative Exploration on the Impact of Teachers Characteristics on Students Before and During the Pandemic Using the “Thank-A-Professor” Campaign at Radford University
Morgan Greene Bailey Vaughan Sydnie Wheeler
Faculty Mentor(s): Stirling Barfield
Psychology and Gender Research
Tuesday, April 13th, 4:00 – 6:00 pm
D2L Interactive Discussion Boards

Effects of Schizophrenic Symptoms on Dopamine and Affective Responses to Music in Rats
Laura Griffith
Faculty Mentor(s): Jenessa Steele

Pluralistic Ignorance within Attitudes toward Transgender Individuals is Moderated by Religious & Political Conservatism
Hayley Grossman  Carly Pullen  Phoebe Dubois  Kyla Hughes
Kailynn Harris  Caelan King
Faculty Mentor(s): Jeff Aspelmeier

Organizational Commitment: The Relationship Between Tenure And Absenteeism
Amy Ha
Faculty Mentor(s): Jenessa Steele

Darwin’s Contributions in Shaping Psychology
Mykaela Hagen
Faculty Mentor(s): Ruth Riding-Malon

Perception of Crime in Protest Cities, BLM, and Police Reform
Mykaela Hagen
Faculty Mentor(s): Nicole Iannone

Office Annoyance: Noise, Speech, And Effects On Memory and Recall Performance
Seth Hall
Faculty Mentor(s): Jenessa Steele

A Qualitative Exploration of Gratitude and Personal Growth in College Students Using the “Thank-a-Professor” Campaign
Kimberlee Hall  Brooke Johnson  Daniel Parker
Faculty Mentor(s): Stirling Barfield

How Changes in Organizational Commitment (due to COVID-19) has Affected Anxiety and Depression Levels in Remote Workers.
Rachel Hopp
Faculty Mentor(s): Dr. Jenessa Steele

Trait Activation Theory: Its Role in the Validity of Personality-Based Selection Methods
Jacob Lamparella
Faculty Mentor(s): Jenessa Steele
A Meta-Analysis Comparing Persons with Normal and High Blood Pressure on Measures of Cardiovascular Reactivity to Stress
Talia Neal
Faculty Mentor(s): Thomas Pierce

Group Chats and Peer Mentoring: An Investigation into The Use of GroupMe in a Peer Support Instruction Model at Radford University
Nikolas Porterfield
Faculty Mentor(s): Stirling Barfield

Celebrity Social Media Influence on Mask-Wearing Behavior
Carly Pullen Hailey Scherer Salena Diaz
Faculty Mentor(s): Nicole Iannone

The Impact of Media on the Endorsement of Aging Stereotypes
Carly Pullen
Faculty Mentor(s): Jenessa Steele

Is Pluralistic Ignorance within Attitudes toward seeking Mental Health Counseling Moderated by Conservatism?
Jacob Scales Caroline Salvant Daniel Ferguson
Faculty Mentor(s): Jeff Aspelmeier

“Let Me Tell You About My Best Friend:” How Sharing a Parasocial Relationship with Others Relates to Parasocial Relationship Connection and Belonging
Hailey Scherer
Faculty Mentor(s): Nicole Iannone

The Effects of Different Types of Parasocial Relationships on Ostracism
Hailey Scherer
Faculty Mentor(s): Jenessa Steele

How and When JOLs Facilitate Inductive Learning
Morgan Shumaker Nina Houston
Faculty Mentor(s): Kathleen Arnold

Prior Knowledge as a Mediator of Curiosity on Learning
Ryan Taylor
Faculty Mentor(s): Jenessa Steele

Presence of 1/f Frequency Across Reaction Time Tasks & Age Groups
Talia Neal
Faculty Mentor(s): Jenessa Steele
Psychology and Gender Research
Tuesday, April 13th, 4:00 – 6:00 pm
D2L Interactive Discussion Boards

Can Outlines Enhance Essay Writing and Retention?
Ryan Taylor         Morgan Shumaker         Madison Presley
Jeannie Tene
Faculty Mentor(s): Kathleen Arnold

A Qualitative Exploration of Gratitude and Emotion, before and during the COVID-19 Pandemic, Using the “Thank-a-Professor” Campaign
Joi Taylor          Olivia Sims           Kendra Gilbert
Faculty Mentor(s): Stirling Barfield

Curiosity’s Effect on Study Time and Learning
Ryan Taylor         Mia Purcell             Morgan Shumaker
Faculty Mentor(s): Kathleen Arnold

Studying the Benefits of Retrieval Practice for High and Low Structure Builders
Jeannie Tene        Mykaela Hagen          Nina Houston
Morgan Shumaker
Faculty Mentor(s): Kathleen Arnold

Pluralistic Ignorance For Premarital Sex: Is Religion A Contributor?
Darynn Via          Brianna Figgins
Faculty Mentor(s): Jeff Aspelmeier

The Effects of Boundary Perspectives on Job Satisfaction and the Prevalence of Organizational Citizenship Behaviors
Dane Wurster
Faculty Mentor(s): Jenessa Steele

The Role of Employee Tenure on the Relationship Between Organizational Commitment and Job Performance.
Calla Zane
Faculty Mentor(s): Jenessa Steele

How Empathy Relates to Future Mask-Wearing Behavior Following Social Media Examples
MaKayla Dulaney     Carley Pullen           Hailey Scherer
Faculty Mentor(s): Nicole Iannone

Effects of Early Maternal and Sibling Separation on Behavior in Rats
Shane McClafferty   Laura Griffith          Claudia Paniagua-Ugarte
Sarahbeth Roberts   Zoe Hannabass
Faculty Mentor(s): Pamela Jackson
Doctor of Physical Therapy Research
Tuesday, April 13th, 5:00 – 6:00 pm
Zoom: 95576031039 Password: SEF2021

Cost of Obstructive Sleep Apnea as a Comorbidity for Congestive Heart Failure
Leonardo Quiroga  Quentin Pitts
Faculty Mentor(s): Adrian Aron

Project Management to Develop Leadership in Physical Therapy Education
Gregory Crotser  Caitlin Wynings  Nikki Turner
Lane Wildman  Kristen Vogelbein
Faculty Mentor(s): William Kolb

A Literature Review of Pain Management Education Across Healthcare Preparation Programs
Madison Noel
Faculty Mentor(s): Wil Kolb

A review of physical therapy practice in the Roanoke and New River Valley of Virginia
Caitlin Wynings  Nikki Turner  Greg Crotser
Anne Russell Moore  Alina Shockley
Faculty Mentor(s): William Kolb

Citizen Leader Showcase
Tuesday, April 13th, 5:00 – 7:00 pm
Zoom: 99417904138 Password: SEF2021

Destiny Goodwyn
Faculty Mentor(s): Jean Mistele  Jessica Twiest

Jordan Spence
Faculty Mentor(s): Jean Mistele

Bailey Elkins
Faculty Mentor(s): Ann Hutchens
Environmental Sociology Research Session 2

Wednesday, April 14th, 11:00 – 11:50 am
Zoom: 99887924433 Password: SEF2021

Dining Hall Food Waste
Affiba Beke       Marah Cheek       Makyla Edmond
Raine Wright     Markayla Johnson
Faculty Mentor(s): Aysha Bodenhamer

Improving and Implementing Radford University’s Climate Action Plan
Alayna Carter  Emma Kegley
Faculty Mentor(s): Aysha Bodenhamer

Flint, Michigan Water Crisis
Sheridan Dean  Trudy Dalton  Shanel Henderson
Kortnie Bernard
Faculty Mentor(s): Aysha Bodenhamer

Energy in the New River Valley
Kimberlee Hall  Oak Bradshaw
Faculty Mentor(s): Aysha Bodenhamer

Commodities, Value and History
Wednesday, April 14th, 11:00 – 11:50 am
Zoom: 95601821308 Password: SEF2021

Smoke Gets in Your Eyes: The History of Tobacco Production and Consumption in the United States
Stephen Brumfield
Faculty Mentor(s): Brock Cutler

How Fiber Optic Cables Have Helped Shape the Information Age
Nathan Frazier
Faculty Mentor(s): Brock Cutler

Penicillin as a Commodity
Emily Mancini
Faculty Mentor(s): Brock Cutler

Insulin: The Difference Between Life and Death
Samantha Paxton
Faculty Mentor(s): Brock Cutler
Summit on Environmental Justice and History
Wednesday, April 14th, 1:00 – 1:50 pm
Zoom: 95601821308 Password: SEF2021

Corporations, Coal, and Threatened Rivers
Harry Guinivan  Victoria Cristwell  Alex Obisco
Camryn Reyburn  Cole Butler  Breanna Bell
Brian Currin
Faculty Mentor(s): Brock Cutler

Biology Virtual Poster Session 2
Wednesday, April 14th, 1:00 – 3:00 pm
Zoom: 95642799778 Password: SEF2021

Temperature's impact on the activity on birds and mammals at a birdfeeder in Radford, Virginia
Sierra Felty  Maya Anderson  Janet Ayiku
Ninja Bowers
Faculty Mentor(s): Sarah Foltz

Fear of the Hand that Feeds You: The effects of anthropogenic disturbances on foraging behavior in an avian social system
Drew Myers  Conner Fox  Peter Neville
James Utt
Faculty Mentor(s): Sarah Foltz

Why do different species of birds eat at different times of the day?
Makayla Countiss  Brenna Ankrum  Kortnie Brenard
Brooklyn Byrd
Faculty Mentor(s): Sarah Foltz

Behavioral analysis of white-tailed deer feeding patterns to determine potential sex-related hierarchical differences
Parker Edmonds  Sierra Bradley  Kylee Chitwood
Brandon Crawford
Faculty Mentor(s): Sarah Foltz

How Long Does It Take for a Squirrel to Return to a Communal Bird Feeder After Human Interaction?
Kayla Nelson Anderson  Savannah Lancaster  Conner McCollum
Brooklyn Muholland
Faculty Mentor(s): Sarah Foltz

Seasonal Differences in Mourning Dove Visitations to Bird Feeders
Tessa Vigilante  Damaris Forkey  Maggie Hall
Faculty Mentor(s): Sarah Foltz
Accelerated Research Opportunities Showcase

Wednesday, April 14th, 2:00 - 2:50 pm
Zoom: 95096942830 Password: SEF2021

To Barre or Not to Barre: Dance Movements with and without the Barre Analyzed
Skylar Roberson
Faculty Mentor(s): David Sallee

Internet Of Things (Smart home) Device Security
Sam Williams
Faculty Mentor(s): Premchand Uppuluri

Examining Differing Mortality Rates for Black and White Americans in Small Metropolitan Counties of Virginia
Maia Grove
Faculty Mentor(s): Iuliia Hoban

Can We Improve Well-being? A literature review of recent research on Well-being Intervention
Stephanie Annis    Allison Love    Ashley Nesmith
Caitlyn Thelen    Calla Zane
Faculty Mentor(s): Pei-Chun Tsai

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

Applied Improvisation And Police Training
Kiersten Dodson
Faculty Mentor(s): Stephen Owen

Effects of Early Maternal and Sibling Separation on Behavior in Rats
Shane McClafferty    Laura Griffith    Claudia Paniagua-Ugarte
Sarahbeth Roberts    Zoe Hannabass
Faculty Mentor(s): Pamela Jackson
Impact of Hip Lateral Rotation on Muscle Activation Patterns in the Squat  
Tylor Compton  
Faculty Mentor(s): David Sallee

The Impact Of Pelvic Tilt On Muscle Activation  
Bailee Cox  
Faculty Mentor(s): David Sallee

Swimming with Power  
Alexis Curto  
Faculty Mentor(s): Laura Newsome  Christopher Myers

The Effect of Strapping on Muscle Activation Patterns, Timing, and Magnitude in a Clean Pull  
Erin Hamaker  
Faculty Mentor(s): David Sallee

Torque Values in the Knee With and Without Bracing  
Cameron Sarver  
Faculty Mentor(s): Laura Newsome  David Sallee

Does Pre-Activation of the Quadriceps and Hamstrings Change with Ankle Bracing?  
Cameron Sarver  
Faculty Mentor(s): Laura Newsome  David Sallee

To Barre or Not to Barre: Dance Movements with and without the Barre Analyzed  
Skylar Roberson  
Faculty Mentor(s): David Sallee

Differences In Walking Patterns With Chiari Malformation Type 1 Versus Average Patterns  
Matthew Wall  
Faculty Mentor(s): David Sallee  Laura Newsome

Comparisons of Muscle Activation and Pelvic Movement in Toe-Walker and Non-Toe-Walker Gait Patterns with Calf Stretch  
Maci Keaton  
Faculty Mentor(s): Dave Sallee  Laura Newsome
HHP Biomechanics Showcase 2
Wednesday, April 14th, 3:00 – 3:50 pm
Zoom: 98259618683 Password: SEF2021

Pre-activation in Dancers
Megan Hodges
Faculty Mentor(s): David Sallee

Muscular Pre-activation Patterns Based On Gender
Regan Lynn
Faculty Mentor(s): David Sallee

The Impact of External Rotation of The Glenohumeral Joint on Force Production and Muscle Activation in the Deltoid and Triceps Brachi
Sam Nigra
Faculty Mentor(s): David Sallee

Interdisciplinary Research Session
Wednesday, April 14th, 4:00 – 4:50 pm
Zoom: 98477606396 Password: SEF2021

Arrivals and Departures: An Intern’s View of the Radford University and Floyd Story Center Partnership
Bailey Graham
Faculty Mentor(s): Melinda Wagner

Honors Capstone Recap - Session 2
Wednesday, April 14th, 5:00 – 6:00 pm
Zoom: 92709281532

Exploration of the Spatial Relationships between Lead and Pesticide Exposures and Neurodegenerative Disease Age-Adjusted Mortality Risk in North Carolina
Maci Keaton
Faculty Mentor(s): Kathleen Poole

All About: Amazonian Mites and Bioluminescent Fungi
Hanna Jang
Faculty Mentor(s): Jason Davis

Engaging for Donations: How Nonprofit Organizations Survive in the Political Arena
Hannah White
Faculty Mentor(s): Lisa Baker-Webster
Honors Capstone Recap - Session 2
Wednesday, April 14th, 5:00 – 6:00 pm Zoom: 92709281532

What Do Graduated High Schoolers Think About Their Schooling Experiences and The Overall Secondary School System?
Alayna Johnson
Faculty Mentor(s): Kristan Morrison

Pluralistic Ignorance and Trans-Prejudice
Caelan King
Faculty Mentor(s): Jeffery Aspelmeier

Honors Education Panel
Wednesday, April 14th, 6:00 – 6:30 pm
Zoom: 92709281532

Addressing Attitudinal Barriers to Preschool Inclusion through Professional Development
Melanie Allen
Faculty Mentor(s): Elizabeth Altieri

Not Your Typical Kind of Homework
Alexis Epperly
Faculty Mentor(s): Boyoung Park

The Ideal Space: Physical Elements in Classrooms and their Effects on Students
Bobbi Ferguson
Faculty Mentor(s): Kristan Morrison

Surveying the Impact of Undergraduate Research Experiences at Radford University
Samantha Doncaster
Faculty Mentor(s): Amanda Bozack  Joe Wirgau  Maggie Pate

Resegregation: History of Race in Education and Its Effects Today
Alyssa Foster
Faculty Mentor(s): Kristan Morrison
Honors Science Panel
Wednesday, April 14th, 6:30 – 7:00 pm
Zoom: 92709281532

A Qualitative Study on the Components of e-Liquids Studied Using GC-MS
Allison McBride
Faculty Mentor(s): Kristina Stefaniak

Java Math Calculator
Nalani Story
Faculty Mentor(s): Shawn Brenneman

Exploring Reed-Solomon Codes and Their Role in Providing Reliable Communications
Sarah Church
Faculty Mentor(s): Neil Sigmon

Honors Social Science Panel 1
Wednesday, April 14th, 7:00 – 7:30 pm
Zoom: 92709281532

The Play of The Past
Angie Juodagalvis
Faculty Mentor(s): Johnny Moore

Radford University Student Preferences for Course Delivery Academic Year 2020-2021
Evans Thomspson
Faculty Mentor(s): Bienstock Carol

How Media Representations of Autism Affect Bias Towards Those with Autism
Alison Williams
Faculty Mentor(s): Nicole Iannone Laura Parker

Mental Health In Guyana
Erykah Vanier
Faculty Mentor(s): Ann Elliott
Honors Social Science Panel 2  
Wednesday, April 14th, 7:30 – 8:00 pm  
Zoom: 92709281532

Athletic Burnout: Measuring Gender Differences in College Athletes  
Tyler Blalock  
Faculty Mentor(s): Nicole Iannone

Effects of Media Misrepresentation of the Columbine Shooters  
Breanna Sharrett  
Faculty Mentor(s): Kyshawn Smith

America’s Attitude Toward Prisons: A Test of the Penal Escalation Hypothesis  
Noah Staples  
Faculty Mentor(s): Riane Bolin

Korean Pop Showcase  
Wednesday, April 14th, 5:30 – 6:00 pm  
Zoom: 94848191056 Password: SEF2021

Korean Pop: The Unique History and Culture Behind Its Popularity  
Mailey Paupore   Haleigh McEldowney   Jaylaysia Irizarry  
Jennifer Tabulov   Kim Bythewood   Lauryn Washington  
Prince Ewusie   Sarah Kadel  
Faculty Mentor(s): Ji-Eun Lee   Seok Jin Han (Korea National University of Arts)

We welcome you to our showcase that exhibits our findings on the Korean culture through our multimedia presentation.
Lightning Research Competition
Wednesday, April 14th, 6:00 – 7:30 pm
Zoom: 99672287552 Password: SEF2021

Come watch undergraduate students accomplish the challenging task of concisely communicating the importance and findings of their research to a general educated audience in the fastest three minutes in research. The winner’s will be selected by a panel of Radford University alumni.

Assessment of Nosema spp. parasitism in bumblebees of Roanoke and New River Valleys in Virginia Binuk Samarasinghe

Archaeopteryx: Looking Beyond The Bird Ling Jie Gu

Bridging Musical Worlds: Arranging Chopin’s Preludes for Solo Percussion Hudson Crowe

Creation of a “Plastic-Dye” Database to Determine Microplastic Types in Aquatic Environments Emily Cardoso

Don’t Touch My Data: Internet of Things Security Sam Williams

Exploration of the Spatial Relationships between Lead and Pesticide Exposures and Neurodegenerative Disease Age-Adjusted Mortality Risk in North Carolina Maci Keaton

Exploring QR Code Error Correction and the Role of Reed-Solomon Codes Adam Downs

How Young Adults May Employ Spiritual Support to Overcome Religious Doubt: Does Older Mean Wiser? Kara Doughtie

Impact of Undergraduate Research on Student Engagement Riley Petroski

Relationships Among Human Trafficking Survivors Dana Ours

To Barre or Not to Barre: Dance Movements with and without the Barre Analyzed Skylar Roberson

I was initially wary that a non-traditional research project would not be taken seriously by most. However, the OURS team absolutely proved me wrong, and it is because of their belief in my work that I have the opportunity to study things I otherwise couldn’t at Radford and share my work with the world.

-Hudson Crowe, Sophomore Music Major
Current Research in Forensic Science  
Thursday, April 15th, 8:00 am – 12:00 pm  
Zoom: 99954677331 Password: SEF2021

Metal Determination in E-liquids from 9 Commercial Brands by ICP-OES  
Allison McBride  
Faculty Mentor(s): Donna Boyd  Kristina Stefaniak

The Value of Histology in Forensic Autopsies  
Isabella Brothers  
Faculty Mentor(s): Donna Boyd

Sexual Dimorphism of the Lumbar Vertebrae  
Pearl Moore  
Faculty Mentor(s): Donna Boyd

Frequentist v. Bayesian Statistics in Forensic Science: The Differences Among Them and Recommendations for U.S. Practitioners  
Noah Staples  
Faculty Mentor(s): Donna Boyd

The Effect of Next Generation Sequencing on Cold Cases  
Stephanie Crouch  
Faculty Mentor(s): Donna Boyd

Application of Using Raman Spectroscopy for the Discrimination of Cannabis and Hemp  
Emily Whealton  
Faculty Mentor(s): Donna Boyd

DNA Recovery from Deteriorating Hair Samples  
Hannah Roberts  
Faculty Mentor(s): Donna Boyd

Skull-to-camera distance for use in facial approximation  
Branham James  
Faculty Mentor(s): Donna Boyd

Quantitative Forensic Analysis of Lipsticks Through Gas Chromatography-Mass Spectrophotometry  
Rayshell Torres-Santana  
Faculty Mentor(s): Cindy Burkhardt  Donna Boyd

Examining the effects of scavengers on the concealment of skeletal trauma and decomposition rate  
Katie Hewlett  
Faculty Mentor(s): Donna Boyd

The Effects of Alcoholism on Bone Repair Rates  
Taylor Sharpe  
Faculty Mentor(s): Donna Boyd
Current Research in Forensic Science
Thursday, April 15th, 8:00 am – 12:00 pm
Zoom: 99954677331 Password: SEF2021

The Effects of Varied Ecological Diversity on the Rates of Animal Scavenging in the Appalachian Mountain Region: A comparative study of animal scavenging patterns in Selu Conservancy and Radford University
Victoria Pate
Faculty Mentor(s): Donna Boyd

Sex and Gender Estimation in Forensic Anthropology and the Identification of Transgender Individuals
Dakota Taylor
Faculty Mentor(s): Donna Boyd

A Comparative Study of Prehistoric Dental Wear and Modern Dental Wear
Sarah Klein
Faculty Mentor(s): Donna Boyd

Accuracy and Precision of Using Humerus Length for Stature Estimation
Kimber Duke
Faculty Mentor(s): Donna Boyd

Skeletal evidence of slavery
Kamaiah Jamieson
Faculty Mentor(s): Donna Boyd
Hip Hop Showcase Session 2
Thursday, April 15th, 11:00 am - 12:15 pm
Zoom: 93907944190 Password: SEF2021

This Hip Hop Showcase will feature a live session during which we will share pre-recorded presentations on: 4) Evolution, 5) Sociological Observations, and 6) Professional Application. The live sessions will be moderated and attended by Sociology of Hip Hop students who welcome attendees to engage in organic conversation during and at the end of each event.

Faculty Mentor(s): Stephanie Bradley  Moderators: LeeAnne Bryant-Doyle
          Tarrah Nida
Evolution
    Marah Cheek
    Deon Colton-Bell
    Kelsey Morgan
Sociological Observations
    LeeAnne Bryant-Doyle
    Bryonna Ferebee
    Bryan Hart
    Tarrah Nida
    Riane Wright
Professional Application
    Allie Phillips
    Joey Selwaeh

Art History Showcase: Unfamiliar Russian Art
Thursday, April 15th, 2:00 – 3:30 pm
Zoom: 98311849180 Password: SEF2021

Faberge Imperial Eggs: Construction and Meaning
    Carter Baugh
Faculty Mentor(s): Roann Barris

Larionov: Neo-Primitive or Fauve?
    Kate McFarland
Faculty Mentor(s): Roann Barris

Russian Women Artists: Fashion, Design, and More
    Mbaida Nying
Faculty Mentor(s): Roann Barris

The Ballets Russes: Epitome of Russian Theatre?
    Eddie Sheffield
Faculty Mentor(s): Roann Barris
Emerald Ash Borer  
Andrew Lemmon  
Faculty Mentor(s): Charles Manyara

Regional Predictive Gis Model for Maya Settlements in the Greater Petén Region  
Aaron Fuentes Pasasi  
Faculty Mentor(s): Charles Manyara

Environmental Justice and Low Birth Weight  
Katy Mayo  
Faculty Mentor(s): Charles Manyara

Drone 3D Elevation Profile  
Andrew Lemmon  
Faculty Mentor(s): Charles Manyara

The Rookies Program is more than just research, it’s a community, and its one I’m lucky to be a part of.  
– Julia Buccola, Freshman Physics Major
We welcome everyone to the inaugural OURS CARES (Office of Undergraduate Research & Scholarship Creative Arts and Research Excellence: Scholar) Awards: Showcasing the Best in Undergraduate Research! This virtual event will recognize students and faculty who have had significant achievements in undergraduate research throughout the past year.

**OURS CARES Awards Schedule**

**Opening Remarks**: by Joe Wirgau, Director of OURS

**Summer Undergraduate Research Fellowship Program**: Join us announcing and congratulating this year’s recipients of the prestigious multidisciplinary student written grants at Radford University.

**Lightning Research Competition**: Join us in recognizing the winners of the fastest three minutes in research and a repeat performance of the winning entry.

**Outstanding Undergraduate Research Mentor Award**: Join us in the announcement of the two inaugural award recipients, each of whom have demonstrated their commitment to Student Development, Creating Opportunities, Dissemination, Equity and Inclusion, and Career Development.

**Highlander Research Rookies**: The Highlander Research Rookies Program was created to encourage and promote opportunities for research-based engagement and learning. Join us in sharing in their reflections on their growth, and accomplishments from this past year.

**Excellence in Mentored Research & Creative Inquiry**: Join us in celebrating the Faculty-student teams that reached the highest levels of dissemination in the 2020 AY. Keynote address by Maci Keaton, Allied Health Science, Class of 2021.

**Accelerated Research Opportunities– Living Learning Community**: Join us in reflections of these awesome freshmen who found a way even during a global pandemic to create new knowledge.

**Research Scholar Transcript Designation**: All of the recipients being celebrated have created new human understanding of the world, across a rich and diverse set of research areas. They have also spent at least two semesters persevering to find answers to “wicked” problems and sharing their findings with the larger community.
Graduate Criminal Justice Showcase 1
Thursday, April 15th, 6:30 – 8:00 pm
Zoom: 97259662209 Password: SEF2021

The Effects of Community Policing on Public Satisfaction Rates with Law Enforcement
   Allen Minnick
Faculty Mentor(s): Maggie Pate

The Influence of Race and Age on Police Use of Force
   Preston Bussey
Faculty Mentor(s): Margaret Pate

The Influence of Race and Media on Police Misconduct
   Kyle Cardenas
Faculty Mentor(s): Margaret Pate

Islamic Hate Crimes and Their Relation to Geographic Location Following 9/11
   Abigail Collins
Faculty Mentor(s): Margaret Pate

The Impact of Experiencing Child Abuse as it Relates to Adult Offending Behaviors
   Megan Graybill
Faculty Mentor(s): Margaret Pate

Influences On Adolescents
   Tayler Hover
Faculty Mentor(s): Margaret Pate

Do Community Policing Efforts Improve Police Legitimacy?
   Valente Perez
Faculty Mentor(s): Margaret Pate

Police Stress and the Effect on Domestic Violence Rates
   Kathleen Stiltner
Faculty Mentor(s): Margaret Pate

Mitigated and Aggravated Circumstances in Capital Cases
   Jessica Wileman
Faculty Mentor(s): Margaret Pate
Commodities, Value and History
Friday, April 16th, 11:00 – 11:50 am
Zoom: 95601821308 Password: SEF2021

Tequila: A History of a Drink Like No Other
Jalen Alford
Faculty Mentor(s): Brock Cutler

Beer: An Essential Commodity of the Ancient World
Jason Dulin
Faculty Mentor(s): Brock Cutler

Chocolate: Earth’s Favorite Sweet
John Owings
Faculty Mentor(s): Brock Cutler

A History of Moonshining in the South
Jack Tresky
Faculty Mentor(s): Brock Cutler

Summit on Environmental Justice and History
Friday, April 16th, 1:00 – 1:50 pm
Zoom: 95601821308 Password: SEF2021

Agricultural Crises meet Human Crises
Zack Dalton  John Campbell  Connor Harper
Trent Keatley  Nick Petrovich  Paige Emmer
Jason Dulin
Faculty Mentor(s): Brock Cutler

Art History Showcase
Asynchronous

The Art and Visual Culture of the Indus Valley Civilization
Maichal Valentine
Faculty Mentor(s): Carlee Bradbury
Biology Virtual Session
Asynchronous

Surveillance for oral and respiratory viruses on the Radford Campus
Joseph Mayes Jr
Faculty Mentor(s): Justin Anderson

Do COI Primers, Environmental Variables, and Variation in Lab Techniques Affect the Biodiversity Measures or the Quality and Quantity of Environmental DNA?
Camryn Williford
Faculty Mentor(s): Tara Pelletier

Phylogenetic Diversity In High Traffic Areas
McKeighla Brown Chantel Cook Bryan Caswell
Diont’e Hadden Stacy Malcolm
Faculty Mentor(s): Tara Pelletier

The Impact of Foot Traffic on Biodiversity
Steven Busser Keasia Clark Michael Edwards
Rebecca Gardiner
Faculty Mentor(s): Tara Pelletier

Comparing Biodiversity in High and Low Traffic Areas Around Radford
Nathan Nall Jeremy Thomas Cameron Price
Jadelyn Smith Amanda Wells Lauren Printz
Shane McClafferty
Faculty Mentor(s): Tara Pelletier

Anthracite versus the Gut biome of Gryllodes sigillatus, Dermestes Maculatus, and Diestrammena asynamora
Gabriel Hessler
Faculty Mentor(s): Jason Davis

Graduate Criminal Justice Showcase 2
Asynchronous

Community Policing: Is It Being Used And To What Extent?
Maxwell Beavers
Faculty Mentor(s): Margaret Pate

How Gender and Years of Experience Effect Police Officers’ Reported Stress Levels
Kylie Duncan
Faculty Mentor(s): Margaret Pate

Attorney Gender and Dispute Outcomes
Rachel Helfgott
Faculty Mentor(s): Margaret Pate
Graduate Criminal Justice Showcase 2
Asynchronous

The Code of Silence
Alexandrea Herrera
Faculty Mentor(s): Margaret Pate

Wrongful Convictions and Racial Disparities
Tatiana Hite
Faculty Mentor(s): Margaret Pate

Effect female police officers have on female victims of domestic violence
Emily Kelten
Faculty Mentor(s): Margaret Pate

The effect of probation on recidivism
Andrew Kidd
Faculty Mentor(s): Margaret Pate

Treatment for Women
Brianna Scott
Faculty Mentor(s): Margaret Pate

Joshua Vaught
Faculty Mentor(s): Margaret Pate

Interdisciplinary Asynchronous Presentations
Asynchronous

Universal Design Inside the Fashion Design Industry
Kiley Lewis
Faculty Mentor(s): Tammy Robinson

Preferred Or Non-Preferred? How Complex Can You Get? An Investigation Of Syntactic Complexity In Preferred and Non-Preferred Tasks.
Mikayla Hoch
LeeAnn Long
Faculty Mentor(s): Michelle Lenhart

Shared Book Reading: Encouraging Language at Home
Jade Murray
Faculty Mentor(s): Mariam Abdelaziz

Online Resource for Introductory Geology Lab Courses
Grace Psenicska
Faculty Mentor(s): Parvinder Sethi, Vik Liogys
Interdisciplinary Asynchronous Presentations

Asynchronous

Postcards From The Pandemic: A Pulaski Memoir Artist Talk
Leslie King
Faculty Mentor(s): Brent Web

Archaeopteryx: Looking Beyond the Bird
Ling Jie Gu
Faculty Mentor(s): George Stephenson

Designing Tourism Experiences: Mary Draper Ingles in Radford
Shiloh Lyttle
Faculty Mentor(s): Anita Zatori

Learning from Disney: How to Create Extraordinary Experiences
Richard Bentley
Faculty Mentor(s): Anita Zatori

A Benchmark Perception of Archaeology in Popular Culture: As Seen Through Video Games
Kara Keesey
Faculty Mentor(s): David Anderson

Quantitative Analysis of Hemp Products to Determine the Concentration of THC Using GC-MS
Emily Whealton
Faculty Mentor(s): Cindy Burkhardt

Production Technology Showcase

Asynchronous

The School of Communication proudly presents the 5th Annual Production Technology Showcase containing some of the best video and audio work of the year.

Molly Bias
Angel Pacheco
Nick Bailey
Stephanie Hazelhoff
Brooke Parish
Hunter Grobosky
Kayla Blaszczyk
James Pace
Justin Geary
Undergraduate Criminal Justice Showcase
Asynchronous

Mass Incarceration in the United States
Elizabeth Barrie
Faculty Mentor(s): Eric Snow

Marijuana Legalization
James Binner
Faculty Mentor(s): Eric Snow

Human Trafficking
Savannah Hinson
Faculty Mentor(s): Eric Snow

Reentry & Recidivism
Michael McCarty
Faculty Mentor(s): Eric Snow

Overdoses and the Opioid Crisis
Kima Robinson
Faculty Mentor(s): Eric Snow

Managing Gangs Within Corrections
Taylor Sharpe
Faculty Mentor(s): Eric Snow

Power Abuse Among Police Officers
Elise Beahm
Faculty Mentor(s): Eric Snow

Effects of Solitary Confinement on Prison Inmates
Ashley Denney
Faculty Mentor(s): Eric Snow

Capital Punishment
Megan Filardi
Faculty Mentor(s): Eric Snow

The Probation System
Trinity Harris
Faculty Mentor(s): Eric Snow

Drug Trafficking Into The United States
Ben Hubert
Faculty Mentor(s): Eric Snow
Undergraduate Criminal Justice Showcase
Asynchronous

Law Enforcement Corruption and Brutality
Madelyn Huff
Faculty Mentor(s): Eric Snow

Security Reform on Federal Property
Emily Lane
Faculty Mentor(s): Eric Snow

Mandatory Minimum Sentencing
Zoe Moffett
Faculty Mentor(s): Eric Snow

Mental Health in Criminal Justice
Raymond Radford
Faculty Mentor(s): Eric Snow

Evolution of Law Enforcement Training
Frederick Shiner
Faculty Mentor(s): Eric Snow

Sociological Disparities Within The Criminal Justice System
Victoria Vanasse-Graham
Faculty Mentor(s): Eric Snow
DNCE 400 presents

KOREAN DANCE: A Study on K-Pop

A presentation on what is K-pop, its cultural impact, and a showing of Blackpink's "DDU-DU DDU-DU" dance routine.

Wednesday, April 14th at 5:30pm
Student Engagement Forum

RADFORD UNIVERSITY
See you next year!

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