Student Engagement Forum Coordinators

Joseph I. Wirgau, Director OURS
Katelynne Sims, Graduate Assistant OURS
Jessica Mundy, Executive Student Assistant OURS

The following individuals and offices are acknowledged for their contributions:

Donna Boyd, Sigma Xi Chapter President
Sally Cox, Event Planning Manager
Mary Hagan, Honors Academy Administrative Assistant
Kara Daniel, Graduate Assistant OURS
Kerie Benson, Assistant to the CHBS Dean
David Horton, Assistant to the CSAT Dean
Jason Davis, Associate Director of the Honors Academy
Jeremy Mobley, Scholar Citizen Initiative
October Edwards, Office of the Registrar
Radford University Printing Services
Hilda Dickerson, Dining Services

About the Cover Art

The cover art is the creation of Ellen Veith, a third-year Graphic Design major at Radford University specializing in publication design and brush lettering.

There are thousands of students here at Radford University, and we continue to grow almost every year. It’s no surprise that we all are vastly different from one another. Each having our own plan and direction, we still are a unified student body working toward the same common goal of success within our different fields. Such is the motive of this year’s cover for the Student Engagement Forum. An array of different shapes with different sizes and colors are all placed in a unique fashion to create a cohesive whole. Something to remind us that no matter what path we take in our time at school, or even after, we are all connected by our motivation for higher learning and love for what we do.
Friday, April 14th

Off-balance Performance  
Peters Hall B112  7:30 pm-8:30 pm  pp 3

Tuesday, April 18th

Honors Academy Capstone Showcase  CHBS 3002  3:00 pm-7:30 pm  pp 3
Honors Academy Capstone Showcase  CHBS 3rd Floor Lobby  5:00 pm-6:00 pm  pp 3
Graduate Oral Session  Heth 022  3:00 pm-4:10 pm  pp 5
Graduate Poster Session  Heth 022  4:15 pm-5:15 pm  pp 5
African and African-American Arts Exhibition  Heth 043  2:00 pm-3:15 pm  pp 6
Debate: The Future for the Parthenon’s Sculptures  Heth 043  3:30 pm-4:15 pm  pp 6
Accelerated Research Opportunities  Heth 043  5:00 pm-6:15 pm  pp 6
Production Technology Showcase  CS M073  6:30 pm-8:00 pm  pp 8

Wednesday, April 19th

Advanced Research in Forensic Science  Heth 022  8:00 am-11:45 am  pp 9
Visual Sociology Poster Session  Heth 014  11:00 am-12:00 pm  pp 10
Humanities & Behavioral Sciences Oral Session  Heth 022  1:00 pm-1:50 pm  pp 12
Business & Economics Oral Session  Heth 022  2:00 pm-3:00 pm  pp 12
Keynote Address by Nancy Artis  CS M073  3:00 pm-3:50 pm  pp 13
Biology Oral Session  CS M073  4:20 pm-5:30 pm  pp 13
Chemistry Oral Session  CS M073  5:30 pm-6:10 pm  pp 14
Science Oral Session  CS M073  6:10 pm-7:10 pm  pp 14
Geospatial/Geology/Physics Poster Session  CS Lobby  1:00 pm-2:30 pm  pp 14
Chemistry Poster Session  CS Lobby  4:00 pm-5:15 pm  pp 17
Biotransformers  CS Lobby  5:30 pm-6:45 pm  pp 19
Biology Poster Session I  CS Lobby  5:30 pm-6:45 pm  pp 19
Biology Poster Session II  CS Lobby  7:00 pm-8:15 pm  pp 21
Scholar Citizens Showcase  Heth 014  12:30 pm-6:00 pm  pp 24
Center for Gender Studies Symposium  Heth 022  3:30 pm-6:30 pm  pp 25

Thursday, April 20th

Primate Behavior Research  Heth 022  10:00 am-12:00 pm  pp 27
Psychology Poster Session I  CHBS1st Floor Lobby  3:00 pm-4:15 pm  pp 27
Psychology Poster Session II  CHBS Lobby  4:45 pm-6:00 pm  pp 30
Health and Human Performance Poster Session  CHBS Lobby  6:30 pm-7:45 pm  pp 32
Digital Media Showcase/Idea Risers  Walker 279  4:00 pm-6:00 pm  pp 34

Wednesday, April 26th

Student Choreography Showcase  Peters Hall B112  7:30 pm-9:30 pm  pp 35
Welcome!

It is my great pleasure and privilege to welcome you to the 26th Annual Student Engagement Forum! The Student Engagement Forum showcases the highest levels of academic achievement and creation of new knowledge at Radford University through our campus community’s undergraduate and graduate students’ creative works, scholarship and research. The displayed work represents a tremendous undertaking, often involving teams of students and faculty, to make progress on answering important questions for society, such as, how to preserve oral histories, how can we help those with depression, how can we remove pollutants from water, and so many more you must read through this thick program or better yet wander room to room for the next 48 hours to see them all!

Although what you hear and see represents countless hours of work, it is only the tip of the iceberg. The ancient philosopher Seneca, when musing on the future of discovery wrote, “The time will come when diligent research over long periods will bring to light things which now lie hidden.” This light of knowledge truly only comes through those long periods of time which requires great perseverance, belief, and support. I want to publicly thank all presenters for staying the course and everyone who has sparked or encouraged the needed curiosity to get started; said a supporting word or offered a shoulder to lean, or even cry on, when the inevitable challenges of conducting relevant research arose.

Much like these research projects, organizing the Student Engagement Forum is a team effort. Colin Powell noted that “There are no secrets to success. It is the result of hard work, and learning from failure.” The success of this year’s forum is due to the preparation and hard work put in by Katelynne Sims and Jessica Mundy. Thank you to Sally Cox and her team in Student Events, as well as David Horton and CSAT Dean’s Office, and Kerie Benson in the CHBS Dean’s Office, as they are easy and fantastic to work with in reserving and setting up all the rooms used for this event. I want to thank Ellen Veith from Dr. John O’Connor’s graphic design class for creating an engaging cover. Mary Hagan and Kara Daniel need to be publicly applauded for helping to keep OURS running while time and energy were diverted this past month toward forum preparations. Lastly, I would like to thank Radford University for trusting me with this job, Dr. Jeanne Mekolichick for being an advocate for OURS, the Forum, and experiential learning across campus. And of course, I need to thank everyone I have had the extreme pleasure to help support this past year. You make it easy to come to work each day!

Enjoy the celebration of new knowledge and I hope to see you all next year for the 27th version of the Student Engagement Forum!

Dr. Joe Wirgau
Director, Office of Undergraduate Research & Scholarship (OURS)
SCI Performance

Off-balance
Grace Smiley
Faculty Mentor(s): danah bella Laura Gruss
April 14th Performance 7:30-8:30pm Peters B112

Honors Capstone Showcase

Opening Remarks by Dr. Niels Christensen and Dr. Jason Davis
Honors Capstone Showcase 3:10-3:20pm CHBS 3002

Pass or Fail: A Public Value Analysis of the Federal Appeals Court Decision in O'Bannon v. NCAA
Evan Reid
Faculty Mentor(s): Reginald Shareef
Honors Capstone Showcase 3:20-3:40pm CHBS 3002

Brand Personality Study
Kalise Wright
Faculty Mentor(s): Ferrel Doss
Honors Capstone Showcase 3:40-4:00pm CHBS 3002

Democratic Socialism: The Heir to Progressivism
John Kelly
Faculty Mentor(s): Matthew Oyos
Honors Capstone Showcase 4:00-4:20pm CHBS 3002

Exploring the Effects of Increased and Decreased Levels of Juvenile Hormone on Sociality within Spiders
Skyler Carrell
Faculty Mentor(s): Jason Davis
Honors Capstone Showcase 4:20-4:40pm CHBS 3002

Comparing Korean and English
Krista Cowan
Faculty Mentor(s): Boyoung Park
Honors Capstone Showcase 4:40-5:00pm CHBS 3002

Safety and Stigma of Menstrual Suppression via Continuous Use of Oral Contraceptives
Carly Stevens
Faculty Mentor(s): Sara O'Brien
Honors Capstone Showcase 5:00-6:00pm CHBS 3rd Floor Lobby

The Relationship Between ACL Injury Risk and Plyometric Training
Hannah Duff
Faculty Mentor(s): J.P. Barfield
Honors Capstone Showcase 5:00-6:00pm CHBS 3rd Floor Lobby
Honors Capstone Showcase

The effects of human interaction on corticotrophin-releasing factor in the hypothalamus of adolescent rats

Audra VanDerwerker  Emily Hilton  Kendra Stansak
Faculty Mentor(s):  Dayna Hayes
Honors Capstone Showcase  5:00-6:00pm  CHBS 3rd Floor Lobby

Representation of African American men in Advertising and Branding
Courtney Ward
Faculty Mentor(s):  Jane Machin
Honors Capstone Showcase  5:00-6:00pm  CHBS 3rd Floor Lobby

Pedophile in the Making
Taylor Fox
Faculty Mentor(s):  Margaret Pate
Honors Capstone Showcase  5:00-6:00pm  CHBS 3rd Floor Lobby

Changing Waves
Danielle Green
Faculty Mentor(s):  Andrew Ross
Honors Capstone Showcase  5:00-6:00pm  CHBS 3rd Floor Lobby

A Little Dose of Being Held Close: An Analysis of Skin-to-Skin
Bridgett Oliver
Faculty Mentor(s):  Sharla Cooper
Honors Capstone Showcase  5:00-6:00pm  CHBS 3rd Floor Lobby

Waking Up With A Nightmare: A Literature Review of Emergence Delirium in Military Personnel with Preexisting Post Traumatic Stress Disorder
Rachel Jones
Faculty Mentor(s):  Suellen Miller
Honors Capstone Showcase  5:00-6:00pm  CHBS 3rd Floor Lobby

Complementary and Alternative Therapy for Cancer
Lindsey Birch
Faculty Mentor(s):  Jyotsna Sharman
Honors Capstone Showcase  5:00-6:00pm  CHBS 3rd Floor Lobby

Cryptocurrency Analysis
Tarryn Chichester
Faculty Mentor(s):  Thomas Duncan
Honors Capstone Showcase  5:00-6:00pm  CHBS 3rd Floor Lobby
Honors Capstone Showcase

Font Design
Sarah Mongold
Faculty Mentor(s): Ken Smith
Honors Capstone Showcase 5:00-6:00pm CHBS 3rd Floor Lobby

Public Perceptions of Police
Erin Morris
Faculty Mentor(s): Maggie Pate
Honors Capstone Showcase 6:00-6:20pm CHBS 3002

Testing the effectiveness of emerging technologies for developing a sedimentation model at Claytor Lake, Dublin, Virginia - A Progress Report
Ian Gammarino
Faculty Mentor(s): Skip Watts
Honors Capstone Showcase 6:20-6:40pm CHBS 3002

Roundtable Discussion and Buffet
Honors Capstone Showcase 6:40-7:30pm CHBS 3002

Graduate Oral Session

Attention Deficit Hyperactivity Disorder: Enhancing the Understanding of ADHD on Executive Functioning in School-Age Students
Kenzie VanDerwerker
Faculty Mentor(s): Diane Millar
Graduate Oral Session 3:00-3:30pm Heth 22

Selu to Peru: Understanding Biology in a Local Context through a Global Perspective
Matti Hamed
Faculty Mentor(s): Kristan Morrison
Graduate Oral Session 3:30-3:50pm Heth 22

The Effect of Fatigue on the King-Devick Concussion Test: Wheelchair Rugby
Amanda Joyce Sarah Smith
Faculty Mentor(s): J.P. Barfield
Graduate Oral Session 3:50-4:10pm Heth 22

Graduate Poster Session

Correlating Throwing Task Metrics to Assess Rotator Cuff Function: A Pilot Study
Cameron Holshouser Cody Bailey
Faculty Mentor(s): Brent Harper Kristen Jagger
Graduate Poster Session 4:15-5:15pm Heth 22
Graduate Poster Session

Implementation of Dry Cupping Combined with Exercise in Patients with Low Back Pain: A Case Series
Kimberly McDow
Faculty Mentor(s): Alex Siyufy
Graduate Poster Session 4:15-5:15pm Heth 22

The Relationship of Muscle Thickness to Rotator Cuff Muscle Function (Strength): A Pilot Study
Cody Bailey  Cameron Holshouser
Faculty Mentor(s): Kristen Jagger  Brent Harper
Graduate Poster Session 4:15-5:15pm Heth 22

Student Therapist Person-First Language and Disability Focused Simulations
Sarah Miller
Faculty Mentor(s): Rene Huth  Jordan Tucker
Graduate Poster Session 4:15-5:15pm Heth 22

Selective Mutism: Enhancing Understanding and Improving Treatment Approaches
Kenzie VanDerwerker  Katelyn Weaver
Kelly DeCao  Melissa Gibson
Faculty Mentor(s): Diane Millar
Graduate Poster Session 4:15-5:15pm Heth 22

Mental Health Among College Athletes: Implications for Social Work Practice & Interventions
Julia Scales
Faculty Mentor(s): Deneen Evans
Graduate Poster Session 4:15-5:15pm Heth 22

Art History Exhibitions

Faculty Mentor(s): Roann Barris  Carlee Bradbury
Art History Exhibitions 2:00-3:15pm Heth 43

Debate: Should They Stay or Go - What is the Future for the Parthenon's Sculptures
Faculty Mentor(s): Roann Barris  Carlee Bradbury
Art History Exhibitions 3:30-4:15pm Heth 43

Accelerated Research Opportunities

Expression, Purification, and Crystallization of AS2
Anthony Kwan  Mckenzie Hunt
Faculty Mentor(s): Kimberly Lane  Tara Phelps-Durr
Accelerated Research Opportunities 5:00-6:15pm Heth 43
Accelerated Research Opportunities

The effects of Vespa Amino Acid Mixture (VAAM) and 2,4 Dinitrophenol (DNP) on during mitochondrial metabolic reactions and in the production of ATP
Emilie Colon  Adam Weikel
Faculty Mentor(s): Sarah Redmond
Accelerated Research Opportunities  5:00-6:15pm  Heth 43

Is a Shift Toward Rehabilitation Programs More Effective in Juvenile Detention Centers?
Myah Maisonave-Sheets
Faculty Mentor(s): Riane Bolin
Accelerated Research Opportunities  5:00-6:15pm  Heth 43

Preparation of Degradable Block Co-Polymers to Encapsulate Small Organic Pollutants from Water
Cailin Henry
Faculty Mentor(s): Amy Balija
Accelerated Research Opportunities  5:00-6:15pm  Heth 43

Lessons Learned from Year Two Studying the Impact of Flipping an Introductory STEM Course
Jessica Mundy  Matti Hamed
Faculty Mentor(s): Joseph Wirgau
Accelerated Research Opportunities  5:00-6:15pm  Heth 43

Measuring Sea Ice Thickness using Electrical Resistivity
Chris Mattson  Jahide Williams
Faculty Mentor(s): Rhett Herman
Accelerated Research Opportunities  5:00-6:15pm  Heth 43

Fangirls Unboxed: Selling Girls on Superheroes
Dixie Seitz
Faculty Mentor(s): Scott McDarmont
Accelerated Research Opportunities  5:00-6:15pm  Heth 43

The use of DNA mapping for facial recognition in law enforcement
Haley Pflanzer
Faculty Mentor(s): Tod Burke  Stephen Owen
Accelerated Research Opportunities  5:00-6:15pm  Heth 43

Micro controller Based Electrical Resistivity Array for Measuring Sea Ice Thickness
Jahide Williams  Chris Mattson
Faculty Mentor(s): Rhett Herman
Accelerated Research Opportunities  5:00-6:15pm  Heth 43

Constructing a Dynamic Orbital Model of the Solar System
Morgyn Church
Faculty Mentor(s): John McGee
Accelerated Research Opportunities  5:00-6:15pm  Heth 43
Accelerated Research Opportunities

Walt Disney Interior- The Critical Views of Both Beauty and the Beast Versions and Their Comparison
Tonita Parks
Faculty Mentor(s): Carlee Bradbury
Accelerated Research Opportunities 5:00-6:15pm Heth 43

Effects of Vespa Amino Acid Mixture on the Endurance and Life Span of Wild-Type and Mutant
Drosophila melanogaster
Tori Crapes
Faculty Mentor(s): Jason Davis
Accelerated Research Opportunities 5:00-6:15pm Heth 43

Sustainable Design of a Tiny House
Nicole Hodges Caleb Putnam
Faculty Mentor(s): Fred Taylor
Accelerated Research Opportunities 5:00-6:15pm Heth 43

Predicting Mutual Fund Value
Will Mann
Faculty Mentor(s): Abhay Kaushik
Accelerated Research Opportunities 5:00-6:15pm Heth 43

Production Technology Showcase

Short films: 6:30-8:00pm CS M073
Faculty Mentors: Michael Meindl Matthew Smith

“Switch” by Tyler Leigh

“Stepping Stones” by Rey Colon Gueits

“Adieu” by Josh Shine

“Sorry” by Ben Riquelmy

“It’s a Great Day to Have a Great Day” by Ramsey Cole

“Welcome to Blacksburg” by T.J. Daniels and Madison Griffin
Advanced Research in Forensic Science

Can Fordisc Accurately Categorized Ancestries of Mixed Race?: A Fordisc Analysis Using A Living Adult Mixed Race Population
Nathan Blair
Faculty Mentor(s): Donna Boyd
Advanced Research in Forensic Science 8:00-8:15am Heth 22

The Effects of Freezing on Decomposition When Determining Postmortem Interval (PMI)
Alexandria McAlevy
Faculty Mentor(s): Donna Boyd
Advanced Research in Forensic Science 8:15-8:30am Heth 22

The Use of Mandibular Measurements in Determining Ancestry
Alexandria McAlevy
Faculty Mentor(s): Donna Boyd
Advanced Research in Forensic Science 8:30-8:45am Heth 22

The Effect of Water and Ambient Air Temperature and Water Mobility Upon Decomposition
Amanda Flint
Faculty Mentor(s): Donna Boyd
Advanced Research in Forensic Science 8:45-9:00am Heth 22

The Effect of Measurement Error Upon Determination of Ancestry of Unknown Decedents Using Fordisc
Jill Thompson
Faculty Mentor(s): Donna Boyd
Advanced Research in Forensic Science 9:15-9:30am Heth 22

Chemical Analysis of Knife Residue on Sharp Force Trauma to Bone
Candice Wachtel
Faculty Mentor(s): Donna Boyd
Advanced Research in Forensic Science 9:30-9:45am Heth 22

Ontogenetic Development of Juvenile Cranial Architecture and Its Effect on Survivability in Pediatric Non-accidental Blunt Force Trauma
Kimber Cheek
Faculty Mentor(s): Donna Boyd
Advanced Research in Forensic Science 9:45-10:00am Heth 22

Comparative Analysis of Perimortem Blunt Force Trauma and Postmortem Bone Breakage Microscopic Signatures in Forensic Death Investigations
Marta Paulson
Faculty Mentor(s): Donna Boyd
Advanced Research in Forensic Science 10:00-10:15am Heth 22
Advanced Research in Forensic Science

Analysis of Unknown Accelerants from Fire Debris of Common Household Materials Using GC-FID

**Jill Suwala**
Tori Fuller
Sarah Herring
Faculty Mentor(s): Donna Boyd David Hobart
Advanced Research in Forensic Science 10:15-10:30am Heth 22

Retrieving Latent Fingerprints From Metal Surfaces: A Study of Evidence Preservation in Active Active River Environments

**Nathan Blair**
Faculty Mentor(s): Donna Boyd
Advanced Research in Forensic Science 10:45-11:00am Heth 22

An Analysis of Socioeconomic Variables From Adjudicated RU Forensic Science Institute Child Abuse Cases From Southwest Virginia

**Samuel Manning**
Faculty Mentor(s): Donna Boyd
Advanced Research in Forensic Science 11:00-11:15pm Heth 22

Variation in Decomposition Rates at Different Burial Depths in Southwest Virginia Soil

**Darcey Thompson**
Faculty Mentor(s): Donna Boyd
Advanced Research in Forensic Science 11:15-11:30am Heth 22

Decaying in Acid: A Study of The Effects of Household Chemicals Upon Human Decomposition

**Benjamin Thompson**
Faculty Mentor(s): Donna Boyd
Advanced Research in Forensic Science 11:30-11:45pm Heth 22

Visual Sociology Poster Session

A Day at the Beach

**Gary Fox**
Faculty Mentor(s): Roby Page
Visual Sociology Poster Session 11:00-12:00pm Heth 14

Case Study: Monika Mattson

**Amber Ferguson**
Faculty Mentor(s): Roby Page
Visual Sociology Poster Session 11:00-12:00pm Heth 14

Sociology All the Time, at Anytime.

**Brian Snider**
Faculty Mentor(s): Roby Page
Visual Sociology Poster Session 11:00-12:00pm Heth 14
Visual Sociology Poster Session

The Life of Thora Stickney Through the Lenses of Photography
Hannah Koontz
Faculty Mentor(s): Roby Page
Visual Sociology Poster Session 11:00-12:00pm Heth 14

Happy Tails: A Look into Sparky's Run Dog Park
Heather Moran
Faculty Mentor(s): Roby Page
Visual Sociology Poster Session 11:00-12:00pm Heth 14

The Life of The City Market
Katelyn St. Clair
Faculty Mentor(s): Roby Page
Visual Sociology Poster Session 11:00-12:00pm Heth 14

Ball is Life
Kortney Perry
Faculty Mentor(s): Roby Page
Visual Sociology Poster Session 11:00-12:00pm Heth 14

A Day's Cycle of the Bonnie Hurlburt Student Center
Leah Besden
Faculty Mentor(s): Roby Page
Visual Sociology Poster Session 11:00-12:00pm Heth 14

A Deeper Look into Everyday Interaction
Lindsay Losey
Faculty Mentor(s): Roby Page
Visual Sociology Poster Session 11:00-12:00pm Heth 14

The Beauty of Bisset
Olivia Royal
Faculty Mentor(s): Roby Page
Visual Sociology Poster Session 11:00-12:00pm Heth 14

Vertical Lifestyle
Rebekah Cazares
Faculty Mentor(s): Roby Page
Visual Sociology Poster Session 11:00-12:00pm Heth 14

A Day in the Life of the Student Recreation & Wellness Center
Sierra Alexander
Faculty Mentor(s): Roby Page
Visual Sociology Poster Session 11:00-12:00pm Heth 14
Visual Sociology Poster Session

Radford Women's Track and Field: An Ethnography
Cara Myrtle
Faculty Mentor(s): Roby Page
Visual Sociology Poster Session 11:00-12:00pm Heth 14

A College Senior
Samantha Jarrell
Faculty Mentor(s): Roby Page
Visual Sociology Poster Session 11:00-12:00pm Heth 14

A Look Into Radford's National Pan-Hellenic Council (NPHC)
Kiara Charity
Faculty Mentor(s): Roby Page
Visual Sociology Poster Session 11:00-12:00pm Heth 14

Floyd Country Store
Chelsey Mathis
Faculty Mentor(s): Roby Page
Visual Sociology Poster Session 11:00-12:00pm Heth 14

Campus Outreach: The On-campus Christian Ministry
Victoria Staten
Faculty Mentor(s): Roby Page
Visual Sociology Poster Session 11:00-12:00pm Heth 14

Humanities & Behavioral Sciences Oral Session

NATO in the Trump Era
Ryan Taylor
Faculty Mentor(s): Paige Tan
Humanities & Behavioral Sciences Oral Session 1:00-1:20pm Heth 22

Pat McCrory's Failed Carolina Comeback: An Analysis of the 2016 North Carolina Gubernatorial Election
Alexis Gonzaludo
Faculty Mentor(s): Scott Dunn
Humanities & Behavioral Sciences Oral Session 1:20-1:50pm Heth 22

Business and Economics Oral Session

Blown Away: Bombs, Networks and Economic Fortitude
William Tilson
Faculty Mentor(s): Thomas Duncan Daniel Farhat
Business and Economics Oral Session 2:00-2:30pm Heth 22

On Your Mark, Get Set, Go
Brianna Collins
Faculty Mentor(s): Jane Machin
Business and Economics Oral Session 2:30-3:00pm Heth 22
College of Science and Technology Keynote Address

Nancy E. Artis, VP Performance Associates, Inc.
Keynote Address: Career Evolution!
3:00-3:50pm CS M073

I will use myself as an example of how the world is changing so fast especially in the science and technology fields. With that in mind the theme of a career these days is that “In Five years you will probably working in a job that did not exist today.”

Nancy Artis is a 1973 graduate of Radford College with a major in Biology and a minor in Secondary Education. Since graduation, she has lived in Massachusetts, New Jersey, Virginia, California, and Colorado. She and her husband Pat have recently returned to Virginia.

Her career has included secondary education, engineering support, corporate training, project management consulting, account management, and software sales. She is now the Vice President of Performance Associates, a software and performance engineering company that she and her husband formed in 1986.

Education is very important to she and her husband and they are always trying to find ways to give back to the next budding scholar and entrepreneur.

The Radford University chapter of Sigma Xi, The Scientific Research Honor Society, welcomes everyone immediately following the keynote address to a reception in the adjacent lobby. Learn about becoming a student member.

Biology Oral Session

Modeling the Impact of Migration on Cholera Outbreaks
Sarah Rainey
Faculty Mentor(s): Arietta Fleming-Davies
Biology Oral Session 4:00-4:20pm CS M073

Effects of Phenazines on Viruses and Mosquitoes.
Melissa Kesterson
Faculty Mentor(s): Justin Anderson
Biology Oral Session 4:20-4:40pm CS M073

The PASSER Project: From Innovative Ecobehavioral Research to Genetic Algorithms as a Metric
Conner Philson Drew Wolford
Faculty Mentor(s): Jason Davis Andrew Ray Sarah Foltz
Biology Oral Session 4:40-5:10pm CS M073

The Madagascar Hissing Cockroach, Gromphadorhina Portentosa, as a Biotransformer
Erin Dudley Emmanuella Kumi
Faculty Mentor(s): Jason Davis Laurie Bianchi Iain Clelland
Biotransformer Oral Presentation 5:10-5:30pm CS M073
Chemistry Oral Session

Investigation of the Mechanism of Fullerene and Carbon Nanotube Formation by Molecular Dynamics Simulation

Bismark Amofah
Faculty Mentor(s): Timothy Fuhrer
Chemistry Oral Session 5:30-5:50pm CS M073

An operationally Simple Approach to Indole Derivatives from 2-alkenylandanilines Utilizing an Oxidation-Transannulation-elimination Sequence

Jacob King
Faculty Mentor(s): Christopher Monceaux
Chemistry Oral Session 5:50-6:10pm CS M073

Science Oral Session

The Internet of Things Requires Enhanced Security Guidelines for the Future

Erik Miller Treekont Haga
Faculty Mentor(s): Chen-Chi Shing
Science Oral Session 6:10-6:30pm CS M073

Locating Sinkholes at the Selu Conservancy Using Infrared Aerial Imagery

James Young Kent Weidlich
Faculty Mentor(s): Chester Watts
Science Oral Session 6:30-6:50pm CS M073

Conceptual Construction of Gigapan Virtual Lab Actuality Enhances Virtual Reality

Emily Cyrus Dylan Philippant
Faculty Mentor(s): Parvinder Sethi
Science Oral Session 6:50-7:10pm CS M073

Geospatial Poster Session

Identifying Spatial Distribution and Growth of Hydrilla verticillata within Aquia Creek, Virginia

Andrew Summers
Faculty Mentor(s): Andrew Foy Charles Manyara
Geospatial Poster Session 1:00-2:30pm CS Lobby

Crime Hotspots of York-Poquoson County, Virginia

Benjamin Williams
Faculty Mentor(s): Andrew Foy Stockton Maxwell
Geospatial Poster Session 1:00-2:30pm CS Lobby
Geospatial Poster Session

Identifying Land Cover Changes in Relation to Economic Palm Oil Demands
Brayden Manchester
Faculty Mentor(s): Andrew Foy  Charles Manyara
Geospatial Poster Session 1:00-2:30pm  CS Lobby

The Effects of Nitrate and Algal Blooms on water quality of the New River in the City of Radford
Daniel Yoon
Faculty Mentor(s): Andrew Foy  Stockton Maxwell
Geospatial Poster Session 1:00-2:30pm  CS Lobby

Modeling Potential Infestation Spread of the European Gypsy Moth in New Jersey
Devon Burton
Faculty Mentor(s): Stockton Maxwell  Andrew Foy
Geospatial Poster Session 1:00-2:30pm  CS Lobby

Assessing Geographic Uncertainty of Intermittent Streams on 7.5 Minute Quadrangle Topographic Maps
Joseph Doten
Faculty Mentor(s): Andrew Foy  Richard Roth
Geospatial Poster Session 1:00-2:30pm  CS Lobby

The Effect of Tourism on the Carbon Footprint in Popular Destinations in the United States
Kendall Carlson
Faculty Mentor(s): Andrew Foy  Josh Carroll
Geospatial Poster Session 1:00-2:30pm  CS Lobby

The Effects of Land Uses and Covers on Aquatic Invertebrates and Water Quality along Creeks in Pulaski and Montgomery Counties
Matthew Forsberg
Faculty Mentor(s): Andrew Foy  Charles Manyara
Geospatial Poster Session 1:00-2:30pm  CS Lobby

A GIS Suitability Analysis for New EMS Stations in Virginia Beach
Miranda Majette
Faculty Mentor(s): Andrew Foy  Charles Manyara
Geospatial Poster Session 1:00-2:30pm  CS Lobby

Analysis of Spatial Variation Correlation with Time of a Historical Cemetery in Appalachian United States
Rachel Boyd
Faculty Mentor(s): Andrew Foy  Jason Fox
Geospatial Poster Session 1:00-2:30pm  CS Lobby

Accuracy Assessment of Data Collected with a UAV Photoscan and a Terrestrial Lidar
Renee Dauerer
Faculty Mentor(s): Andrew Foy  Skip Watts
Geospatial Poster Session 1:00-2:30pm  CS Lobby
Geospatial Poster Session

Predicting Criminal Activity in The City of Richmond Using Risk Terrain Mapping Models
Scott Carroll
Faculty Mentor(s): Andrew Foy Charles Manyara
Geospatial Poster Session 1:00-2:30pm CS Lobby

Quantifying and Assessing the Effects of Mountaintop Mining on Topography and Hydrology
Shane Carper
Faculty Mentor(s): Andrew Foy Stockton Maxwell
Geospatial Poster Session 1:00-2:30pm CS Lobby

Accuracy of Satellite Images for Intelligence Gathering
Zachary Yarbrough
Faculty Mentor(s): Andrew Foy Charles Manyara
Geospatial Poster Session 1:00-2:30pm CS Lobby

Accurate Addressing: The Effects of Reference Data on Geocoding Accuracy
William Stanus
Faculty Mentor(s): Andrew Foy
Geospatial Poster Session 1:00-2:30pm CS Lobby

Physical Sciences Poster Session

Using Unmanned Aerial Systems, Lidar and Geophysics to Study Karst at the Selu Conservancy, Radford, Virginia
Kent Weidlich
Faculty Mentor(s): Skip Watts
Geology Poster Session 1:00-2:30pm CS Lobby

Pyrite Mineralization as a Tool for Determining Paleoenvironment of Devonian Age Black Shales in Southwest Virginia
Zach Yates Hunter Childers
Faculty Mentor(s): Parvinder Sethi George Stephenson
Geology Poster Session 1:00-2:30pm CS Lobby

Thermal Wave Speed in Simulated Sea Ice
Nicholas Schrecongost
Faculty Mentor(s): Rhet Herman
Physics Poster Session 1:00-2:30pm CS Lobby
Chemistry Poster Session

Synthesis and Characterization of Group 14 Derivatives of Xenophilic Metal Clusters
Aaron Babb
Faculty Mentor(s): George Harakas
Chemistry Poster Session 4:00-5:15pm CS Lobby

Modeling of Cooperative Binding in Beta-glucuronidase
Alexandra Hawks
Faculty Mentor(s): Kimberly Lane
Chemistry Poster Session 4:00-5:15pm CS Lobby

Preparation of Degradable Block Co-Polymers to Encapsulate Small Organic Pollutants from Water
Cailin Henry
Faculty Mentor(s): Amy Balija
Chemistry Poster Session 4:00-5:15pm CS Lobby

Expression, Purification, and Crystallization of AS2
Anthony Kwan Mckenzie Hunt
Faculty Mentor(s): Kimberly Lane Tara Phelps-Durr
Chemistry Poster Session 4:00-5:15pm CS Lobby

Synthesis of Novel Xenophilic Metal Centers
Evan Cowling
Faculty Mentor(s): George Harakas
Chemistry Poster Session 4:00-5:15pm CS Lobby

Synthesis and Analysis of Fullerenes in the Undergraduate Physical Chemistry Laboratory
Hannah Bell Angel Lambert
Faculty Mentor(s): Timothy Fuhrer
Chemistry Poster Session 4:00-5:15pm CS Lobby

Analysis of Water Sample for Volatile Organic Compounds Using GC-FID and GC-MS
Jill Suwala Anthony Smith
Faculty Mentor(s): Cindy Burkhardt
Chemistry Poster Session 4:00-5:15pm CS Lobby

Structural Analysis of Novel Inhibitors Through Docking of Homology Modeled Yeast Alpha-glucosidase
Joshua Turner
Faculty Mentor(s): Sarah Kennedy
Chemistry Poster Session 4:00-5:15pm CS Lobby

Evaluation of Block Co-Polymers Prepared from L-Lactide and 1'-Decalactone for the Removal of Organic Pollutants From Water
Kristopher Moore Haley Dietz
Faculty Mentor(s): Amy Balija
Chemistry Poster Session 4:00-5:15pm CS Lobby
Chemistry Poster Session

Study of the Removal of Pollutants from Water Through the Synthesis and Characterization of Biorenewable Polymers using Ť-Decalactone and D,L-Lactide
Lauren Purser
Faculty Mentor(s): Amy Balija
Chemistry Poster Session 4:00-5:15pm CS Lobby

Synthesis of Indole Derivatives and 1,2-aminoalcohols via N-tosyl 2-alkenylaniline Oxides
Lauren Hines Christine Tutwiler
Faculty Mentor(s): Christopher Monceaux
Chemistry Poster Session 4:00-5:15pm CS Lobby

Importance of F365 in the Binding of Inhibitors in Escherichia Coli Beta-glucuronidase
Samantha Van Shufflin
Faculty Mentor(s): Kimberly Lane
Chemistry Poster Session 4:00-5:15pm CS Lobby

Therapeutic Ultrasonication of Nano Carbons: Increasing Fluorescence of Nano Carbons for Use as Indicators in Water Systems.
Sarah Garza
Faculty Mentor(s): Francis Webster
Chemistry Poster Session 4:00-5:15pm CS Lobby

Photoluminescent Carbon Nano-particles Produced from the Acid Dehydration of Glycerol
Sarah Garza
Faculty Mentor(s): Francis Webster
Chemistry Poster Session 4:00-5:15pm CS Lobby

Construction of Multifunctional Coatings via Electrostatic Self-Assembly of Glycerol based Carbon Nano-particles and Moringa protein
Carlie Perry
Faculty Mentor(s): Francis Webster
Chemistry Poster Session 4:00-5:15pm CS Lobby

Evaluation of Block Co-Polymers Prepared from L-Lactide and Ť-Decalactone for the Removal of Organic Pollutants From Water
Kristopher Moore Haley Dietz
Faculty Mentor(s): Amy Balija
Chemistry Poster Session 4:00-5:15pm CS Lobby

Method Development of Ions with Low Concentrations Using HPLC
Mwila Polomondo
Faculty Mentor(s): Cindy Burkhardt
Chemistry Poster Session 4:00-5:15pm CS Lobby
Chemistry Poster Session

Assessment on the Impact of Flipping Introductory Chemistry, CHEM 101
Matti Hamed, Jessica Mundy
Faculty Mentor(s): Joseph Wirgau
Chemistry Poster Session 4:00-5:15pm CS Lobby

The Development of a Carbon Nanoparticle Coated Polyurethane Sponge for use in Water Purification
Tyreek Stewart
Faculty Mentor(s): Francis Webster
Chemistry Poster Session 4:00-5:15pm CS Lobby

Method Development for the Identification of Lipstick Evidence
Mwila Polomondo
Faculty Mentor(s): Cindy Burkhardt
Chemistry Poster Session 4:00-5:15pm CS Lobby

Nanostructured Functionalized Carbon Based Materials for Improved Water Purification
Spencer Hayes
Faculty Mentor(s): Francis Webster
Chemistry Poster Session 4:00-5:15pm CS Lobby

Biotransformer Exhibit

Chemical Analyses of Frass and Hemolymph from Hormonally Modified Madagascar Hissing Cockroaches (Gromphadorhina portentosa)
Alex Atwood, Stephanie Rowe, Samantha Van Shufflin
Faculty Mentor(s): Jason Davis
Biotransformer Exhibit 5:30-6:45pm CS Lobby

Analysis of Foods Containing Cricket Protein
Kayla Ogden, Brittany Mejia-Blanco, Emilee Wells, Erin Dudley
Faculty Mentor(s): Laurie Bianchi, Jason Davis, Iain Clelland, Andrew Ray
Biotransformer Exhibit 5:30-6:45pm CS Lobby

Modeling Optimal BioTransformer System Productivity, Costs, and Revenues
Zachary Turk
Faculty Mentor(s): Iain Clelland, Jaehwan Jeong
Biotransformer Exhibit 5:30-6:45pm CS Lobby

Biology Poster Session I

Search for DNA Sequences Coding for Metabolic and Immune Related Proteins in Metagonimoides sp.
Carrie Luk, Coby Smith
Faculty Mentor(s): Bob Sheehy
Biology Poster Session I 5:30-6:45pm CS Lobby
Biology Poster Session I

Calcium Oxalate Crystals in Winter Bud Scales of Woody Plants
Emily Cook
Faculty Mentor(s): Gary Cote
Biology Poster Session I 5:30-6:45pm CS Lobby

Continued Monitoring of Gray Bats (Myotis grisescens) in Virginia: Juvenile Recruitment, Age Identification Accuracy, and Mite Loads in 2016
Cameron Comer
Faculty Mentor(s): Karen Powers
Biology Poster Session I 5:30-6:45pm CS Lobby

The Computational Modeling of the AS1/AS2 Complex
Tayler Lewis
Faculty Mentor(s): Tara Phelps-Durr
Biology Poster Session I 5:30-6:45pm CS Lobby

Assessing Summer Bat Activity Using Acoustic Surveys at Radford Army Ammunition Plant, Virginia, in 2016
Heather Custer
Faculty Mentor(s): Karen Powers
Biology Poster Session I 5:30-6:45pm CS Lobby

Behavior Effects of Alternating Electromagnetic Fields on Antlion Larvae (Myrmeleontidae)
Lindsey Wagner
Faculty Mentor(s): Matt Close Caleb Adams
Biology Poster Session I 5:30-6:45pm CS Lobby

The Cloning and Computational Analysis of TCP15
Mary Catherine Peters
Faculty Mentor(s): Tara Phelps-Durr
Biology Poster Session I 5:30-6:45pm CS Lobby

Do White-tailed Deer (Odocoileus virginianus) Move Less During the Coldest Period of the Year?
Monika Mattson Scott Klopfer
Faculty Mentor(s): Karen Powers
Biology Poster Session I 5:30-6:45pm CS Lobby

Vespa Amino Acid Mixture (VAAM) Exposure in Cultured Yeast Cells Leads to Increased Production of Reactive Oxygen Species (ROS) in Short Periods of Time Causing Increased Cellular Degradation
Attia Mohamed Samuel Stowers
Kristy Clark Marisa Dameron
Faculty Mentor(s): Sarah Redmond
Biology Poster Session I 5:30-6:45pm CS Lobby
**Biology Poster Session I**

Our Own Worst Enemy: Psychosomatic effects of perceived stress on IgA levels

Comparative analysis of stress on faculty and students based on salivary IgA

IgA You Assay? The Correlation between Sleep and Stress

<table>
<thead>
<tr>
<th>Erick Biggs</th>
<th>Kasey Blevins</th>
<th>Kelsey Brimer</th>
<th>Cameron Brown</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sandra Bryan</td>
<td>Haley Burger</td>
<td>Anna George</td>
<td>Mckenzie Hunt</td>
</tr>
<tr>
<td>Caitlin Jannise</td>
<td>Melissa Kesterson</td>
<td>Anthony Kwan</td>
<td>Jacob Marshall</td>
</tr>
<tr>
<td>Kenzie Miller</td>
<td>Attia Mohamed</td>
<td>Rachael Pagan</td>
<td>Mary Peters</td>
</tr>
<tr>
<td>Allison Saenz</td>
<td>Gregory Steeves</td>
<td>Samuel Stowers</td>
<td>Nate Welch</td>
</tr>
<tr>
<td>Alexis Williams</td>
<td>Devonn Williams</td>
<td>Kyle Wingfield</td>
<td>Krista Zimmermann</td>
</tr>
</tbody>
</table>

Arpitha Mysore Rajashekara

Faculty Mentor(s): Sarah Redmond

Biology Poster Session I 5:30-6:45pm CS Lobby

Summer Internship at the Southwest Virginia Wildlife Center of Roanoke

Greg Porter

Faculty Mentor(s): Karen Powers

Biology Poster Session I 5:30-6:45pm CS Lobby

Analysis of TCP3 Protein and its Role in Regulating the AS1 Gene

Kyanna Jenkins

Faculty Mentor(s): Tara Phelps-Durr

Biology Poster Session I 5:30-6:45pm CS Lobby

Internship with Engineering Consulting Services: Remediation of Polluted Water and Soil

Taylor Michelitch

Faculty Mentor(s): Karen Powers

Biology Poster Session I 5:30-6:45pm CS Lobby

**Biology Poster Session II**

Calcium Oxalate Crystals may Protect Reproductive Tissues in Plant Families Fabaceae and Convolvulaceae

Evan Grey

Faculty Mentor(s): Gary Cote

Biology Poster Session II 7:00-8:15pm CS Lobby

Filament Recycler

<table>
<thead>
<tr>
<th>Jacquelyn Burns</th>
<th>Ivelianys Mena-Perez</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ross Robertson</td>
<td>Iris Fuentes</td>
</tr>
</tbody>
</table>

Faculty Mentor(s): Jeremy Wojdak

Biology Poster Session II 7:00-8:15pm CS Lobby
Biology Poster Session II

Comparative Antimicrobial Activity of Sangre de Drago and Antiseptic Agents
Kendalyn Hersh
Faculty Mentor(s): Joyce Caughron Jason Davis Jay Caughron
Biology Poster Session II 7:00-8:15pm CS Lobby

Different Life Stages of Trout: An Internship at The Wytheville State Fish Hatchery in Max Meadows, Virginia
Hunter Jones Elijah Meador
Faculty Mentor(s): Christine Small
Biology Poster Session II 7:00-8:15pm CS Lobby

Keeping Forest Ecosystems Healthy: Determining Sustainable Harvest Levels of Blue Cohosh, an Appalachian Medicinal Plant
Eric Allen
Faculty Mentor(s): Christine Small
Biology Poster Session II 7:00-8:15pm CS Lobby

Anesthesia in Terrestrial Salamanders: Are All Modes Equal?
Ricky Miller Cameron Brown
Faculty Mentor(s): Matthew Close
Biology Poster Session II 7:00-8:15pm CS Lobby

Effect of Endocrine Disrupting Chemicals on Mosquito Morphology and Virus Replication Ability
Ben Thiss Josh Tulppo
Faculty Mentor(s): Justin Anderson
Biology Poster Session II 7:00-8:15pm CS Lobby

Calcium Oxalate Concentration in Deciduous Leaves
Christopher Smith
Faculty Mentor(s): Gary Cote
Biology Poster Session II 7:00-8:15pm CS Lobby

Use of Computational Modeling to Predict Substrates of CYP4F3
Arpitha Mysore Rajashekara Kimberly Reuwer Clay Branscom
Faculty Mentor(s): Peter Christmas
Biology Poster Session II 7:00-8:15pm CS Lobby

Collection and Analysis of Human Salivary IgA to Understand Effect of Physical Exercise Classes on Stress
Claire Dundon Nolan Miller
Faculty Mentor(s): Sarah Redmond
Biology Poster Session II 7:00-8:15pm CS Lobby
Biology Poster Session II

Negative Impacts of Vespa Amino Acid Mixture (VAMM) on NAD+/NADH Balance in Yeast are Neutralized by Both Antioxidants and 2,4-dinitrophenol

Samuel Stowers  
Attia Mohamed  
Kristy Clark  
Marisa Dameron

Faculty Mentor(s):  
Sarah Redmond

Biology Poster Session II  
7:00-8:15pm  
CS Lobby

Calcium Oxalate Crystals in Petioles of Deciduous Trees in the Mallow Family in the Fall and the Spring

Connor Gavan

Faculty Mentor(s):  
Gary Cote

Biology Poster Session II  
7:00-8:15pm  
CS Lobby

Analysis of Transposable Element Sequences in Metagonimoides sp.

Coby Smith  
Carrie Luk

Faculty Mentor(s):  
Bob Sheehy

Biology Poster Session II  
7:00-8:15pm  
CS Lobby

A Summer at the Wytheville State Fish Hatchery: Triploid Trout and Chilodonella Challenges

Codie Gleason

Faculty Mentor(s):  
Karen Powers

Biology Poster Session II  
7:00-8:15pm  
CS Lobby

Floral Development

Megan Calvanese

Faculty Mentor(s):  
Tara Phelps-Durr

Biology Poster Session II  
7:00-8:15pm  
CS Lobby

The Effects of Streptomycin on Harvester Ant (Pogonomyrmex badius) Colony Identity

Amber Martin

Faculty Mentor(s):  
Joyce Caughron

Biology Poster Session II  
7:00-8:15pm  
CS Lobby

Investigating Top-down Influences on Wild Turkey Survival at Radford Army Ammunition Plant

Shane Brandes

Faculty Mentor(s):  
Karen Powers

Biology Poster Session II  
7:00-8:15pm  
CS Lobby

The Effects of Vespa Amino Acid Mixture (VAAM) and 2,4 Dinitrophenol (DNP) During Mitochondrial Metabolic Reactions and in the Production of ATP

Emilie Colon  
Adam Weikel

Faculty Mentor(s):  
Sarah Redmond

Biology Poster Session II  
5:30-6:45pm  
CS Lobby
SCI Symposium

Introduction to Mindfulness
Eileen Lagos
Faculty Mentor(s): Forrest Shoemaker
SCI Symposium 12:30-12:50pm Heth 14

Can we collaborate to protect and sustainably harvest Appalachian medicinal plants?
Caroline Leggett
Faculty Mentor(s): Christine Small
SCI Symposium 12:50-1:10pm Heth 14

Aging and Depression
Carolyn Ansel  Lexi Phonasa  Marilyn Whitaker
Faculty Mentor(s): Kathleen Poole Pam Frasier
SCI Symposium 1:10-1:30pm Heth 14

Roots with Wings
Kortney Perry  Cearra Cargo  Andy Dinh  Reyo Hodges
Eileen Lagos  Chelsey Mathis  Samuel Montana  Cara Myrtle
Sara Garvin
Faculty Mentor(s): Melinda Wagner
SCI Symposium 1:40-2:00pm Heth 14

Senior Health and Wellness Fair
Ajla Becirevic  Alex Harris  Britney Phekoo  Brittany, Blanco
Cory Toler  Emilee Wells  Jenny Cook  Kayla Ogden
Lauren Sigmon  Meredith Brubaker  Samatha Koester  Morgan Wyatt
Zach Manuel
Faculty Mentor(s): Jyotsna Sharman
SCI Symposium 2:00-2:30pm Heth 14

Radford Model United Nations, SRMUN 2017 Conference Presentation
Ivan Thirion Romo  Brady Guertin
Faculty Mentor(s): Paige Tan
SCI Symposium 2:40-3:00pm Heth 14

Nutrition Education on Campus and in Broader Community
Emily Anderson  Christopher Anglin  Morgan Bishop  Kassidy Broome
Taylor Cannaday  Grace Currey  Sarah Danaceau  Jane Everett
Cailin Henry  Rebecca Journigan  Hillary Nolan  Caroline Poff
Chase Thompson  Ashley Timbrook  Audra VanDerwerker
Madison Williams  Seana Wilson  Kasey Yost  Alyssa Zilka
Faculty Mentor(s): Jyotsna Sharman
SCI Symposium 3:00-3:45pm Heth 14
ePortfolio Showcase

Students graduating with distinction from the Scholar-Citizen program share their progress and accomplishments as they have worked toward developing the skills, knowledge, and critical habits of mind that will empower them to be agents of change for themselves, for their families, and for their communities.

SCI Symposium 4:00-6:00pm Heth 14

Center for Gender Studies Oral Session

Center for Gender Studies Keynote: Dr. Theresa Burriss
Women of Change, Women of Courage: Appalachian Activists
Center for Gender Studies Symposium 3:30-4:30pm Heth 22

Predicting the Academic Success of College Women
  Karina Bevins
  Julianna Williams
  Cassandra Homick
  Katie Easter
  Rebecca Wiegmann
  Celine Fadi
  Lara Barbir
Faculty Mentor(s):
  Jeff Aspelmeier
  Ann Elliott
  Anja Whittington
Center for Gender Studies Symposium 4:45-5:00pm Heth 22

Depression in Adolescent Females
  Jessica Masta
  Gabrielle Saulnier
  Taylor Bertrand
  Anna Pankow
  Kathleen Poole
Faculty Mentor(s):
  Nicole Petersen
Center for Gender Studies Symposium 5:00-5:15pm Heth 22

Center for Gender Studies Poster Session

Post-traumatic Stress Disorder Distinction among Women and Children Exposed to Domestic Violence
  Courtney Kalmanson
Faculty Mentor(s):
  Nicole Petersen
Center for Gender Studies Symposium 5:15-6:30pm Heth 22

Fangirls Unboxed: Selling Girls on Superheroes
  Dixie Seitz
Faculty Mentor(s):
  Scott McDarmont
Center for Gender Studies Symposium 5:15-6:30pm Heth 22

Infidelity and Trust in Relationships
  Lataja Allen
  Elijah Dashiell-White
  Akira Harris
  Rebecca Cain
Faculty Mentor(s):
  Pamela Jackson
Center for Gender Studies Symposium 5:15-6:30pm Heth 22
Center for Gender Studies Poster Session

Women's Risk of Sexual Aggression in Bar Culture
Rachel Dotson
Faculty Mentor(s): Nicole Petersen
Center for Gender Studies Symposium 5:15-6:30pm Heth 22

The Influence of Racial and Ageist Stereotypes on Future Healthcare Providers' Recommendations for Breast Cancer Treatments
Victoria Dunsmore
Faculty Mentor(s): Nicole Petersen
Center for Gender Studies Symposium 5:15-6:30pm Heth 22

Pluralistic Ignorance and Sexual Behaviors: A Comparison of Heterosexual and Homosexual Men on Hook-up Behaviors (Proposal)
Charles Woods
Faculty Mentor(s): Nicole Petersen
Center for Gender Studies Symposium 5:15-6:30pm Heth 22
Primate Behavior Research

Social Behaviors During Feeding and Nonfeeding Times in Ring-Tailed Lemurs (Lemur catta)
Candice Wachtel
Kasey Blevins
Leanna Hall
Dakota Townsend
Faculty Mentor(s): Cassady Urista
Primate Behavior Research 10:00-10:20am Heth 22

Space use and interactions between Ring Tailed Lemurs (Lemur catta) and Red Ruffed Lemurs (Varecia rubra) at the North Carolina Zoo
Jill Thompson
Courtney Hicks
Anna George
Zac Murphy
Faculty Mentor(s): Cassady Urista
Primate Behavior Research 10:20-10:40am Heth 22

Male Hamadryas baboons: A study of interactions
Kimber Cheek
Alexandra McAlevy
Caitlin Jannise
Ginger Frogel
Faculty Mentor(s): Cassady Urista
Primate Behavior Research 10:40-11:00am Heth 22

Affiliative Behavior of Female Chimpanzees in a Captive Setting
Hanna Mitchell
Tara Abdul
Gerald Pierre
Raven Grandberry
Faculty Mentor(s): Cassady Urista
Primate Behavior Research 11:00-11:20am Heth 22

Behavioral interactions between silverback and juvenile male western lowland gorillas (Gorilla gorilla gorilla) in captivity
Holly Rindorf
Elizabeth Grandy
Madison King
Rebecca Titus
Faculty Mentor(s): Cassady Urista
Primate Behavior Research 11:20-11:40am Heth 22

Silverback gorilla behavior and interactions with gorilla troop at North Carolina Zoo
Khalia Bowden
Marisa Dameron
Heather Loberger
Faculty Mentor(s): Cassady Urista
Primate Behavior Research 11:40-12:00pm Heth 22

Psychology Poster Session I

Entry Points into the History of Mental Health Treatment
Emily Ludwig
Stephen Casazza
Faculty Mentor(s): Thomas Pierce
Psychology Poster Session I 3:00-4:15pm CHBS Lobby

Joseph Rhine: The Scientific Pursuit of Psi Phenomena
Kendra Stansak
Michaela Reardon
Faculty Mentor(s): Thomas Pierce
Psychology Poster Session I 3:00-4:15pm CHBS Lobby
Psychology Poster Session I

Work-Family Conflict and Intent to Turnover: A Moderated Mediation Model
Teresa Ristow          Ashley Youngs
Faculty Mentor(s):     Nicole Petersen
Psychology Poster Session I 3:00-4:15pm  CHBS Lobby

A literature review of recent research on counselor trainees’ personal agency factors and counseling/training outcomes
Ashley Suk
Faculty Mentor(s):     Pei-Chun Tsai
Psychology Poster Session I 3:00-4:15pm  CHBS Lobby

The History of Functional Contextualism
Lara Barbir            Alissa Goldstein
Faculty Mentor(s):     Thomas Pierce
Psychology Poster Session I 3:00-4:15pm  CHBS Lobby

Job Satisfaction as a Moderator to the Relationship of Work-family Conflict on Organizational Commitment
Ciera Cannizzaro       Holly Symosky
Faculty Mentor(s):     Nicole Petersen
Psychology Poster Session I 3:00-4:15pm  CHBS Lobby

Work Engagement, Organizational Commitment, and Job Burnout: Generational Differences in the Workplace
Michael Kirkland       John Borkoski
Faculty Mentor(s):     Nicole Petersen  Benjamin Biermeier-Hanson
Psychology Poster Session I 3:00-4:15pm  CHBS Lobby

Out of controller: A study on video game violence and aggression
Ashley Suk             Cassandra Homick       Becca Wiegmann
Faculty Mentor(s):     Nicole Petersen
Psychology Poster Session I 3:00-4:15pm  CHBS Lobby

A Comparison of the Anxiolytic Effects of Chlordiazepoxide in Different Lighting Conditions
Rachel K. Gattoni      Brad T. Newman       Parker N. Stinnett       Michael E. Hastings
Faculty Mentor(s):     Pamela A. Jackson
Psychology Poster Session I 3:00-4:15pm  CHBS Lobby

Predictors of Rape Myth Acceptance: Gender, Empathy, Narcissism, and Misconceptions about Rape.
Erin Fircetz          Christina Hargis       Amy Roberson
Faculty Mentor(s):     Jeff Aspelmeier
Psychology Poster Session I 3:00-4:15pm  CHBS Lobby
Psychology Poster Session I

Relationship Between Processing Speed and Social Skills in Individuals With and Without Autism Spectrum Disorder
Karina Bevins
Faculty Mentor(s): Nicole Petersen
Psychology Poster Session I 3:00-4:15pm CHBS Lobby

Overcoming Attractiveness Stereotypes: Can Accuracy Motivation Reduce Stereotyping?
Nicole Trapeni Elizabeth Click Kayla Hall
Faculty Mentor(s): Jeffrey Aspelmeier
Psychology Poster Session I 3:00-4:15pm CHBS Lobby

Does paired distinctiveness explanation for illusory correlation effect
Caitie Brandon Sarah Davis Bex McGee
Faculty Mentor(s): Jeffrey Aspelmeier
Psychology Poster Session I 3:00-4:15pm CHBS Lobby

Predictors of Rape Myth Acceptance: Gender, Empathy, Narcissism, and Misconceptions about Sexual Assault.
Erin Fircetz Christina Hargis Amy Robertson
Faculty Mentor(s): Jeff Aspelmeier
Psychology Poster Session I 3:00-4:15pm CHBS Lobby

Do Neuroticism and Openness Moderate Pluralistic Ignorance for Racial Equality Norms?
Michael Marmol Jordan Shupe Krysti Streeter
Faculty Mentor(s): Jeff Aspelmeier
Psychology Poster Session I 3:00-4:15pm CHBS Lobby

Do Attitudes about Drinking Moderate Pluralistic Ignorance about Hookup Norms
Noah Glover Harsharan Malinao Sequoia Morris
Faculty Mentor(s): Jeff Aspelmeier
Psychology Poster Session I 3:00-4:15pm CHBS Lobby

Predictors of Rape Myth Acceptance: Gender, Empathy, Narcissism, and Misconceptions about Rape.
Erin Fircetz Christina Hargis Amy Robertson
Faculty Mentor(s): Jeff Aspelmeier
Psychology Poster Session I 3:00-4:15pm CHBS Lobby

Pet Ownership on College Student Stress
Miranda Holland Rebecca Cain
Faculty Mentor(s): Pamela Jackson
Psychology Poster Session I 3:00-4:15pm CHBS Lobby
Psychology Poster Session II

Examining Differences in Work Values between Generational Cohorts to Predict Commitment
Persephone Rogers
Faculty Mentor(s): Nicole Peterson
Psychology Poster Session II 4:45-6:00pm CHBS Lobby

Investigating the Role of Orexin in Cannabinoid Reward and Feeding Behaviors in Female Rats
Emily Hilton Kendra Stansak
Faculty Mentor(s): Dayna Hayes
Psychology Poster Session II 4:45-6:00pm CHBS Lobby

The Perception of Tattooed Individuals: A Comparison Between Men and Women
Angie Austin Katiana Ford
Kortni Beeson Katherine Chinchilla Jennifer Madonia Breanna Boyd
Faculty Mentor(s): Jeff Willner
Psychology Poster Session II 4:45-6:00pm CHBS Lobby

Do Party Attitudes Moderate the Effect of Pluralistic on Ignorance and Infidelity Norms?
Katie Reeve
Faculty Mentor(s): Jessica Cassidy Paige McPeak
Psychology Poster Session II 4:45-6:00pm CHBS Lobby

RU Ready to Party: Does Motivation for Attending College Moderate Pluralistic Ignorance about Drinking Norms?
Victoria Dandar
Faculty Mentor(s): Imani Moore Savannah Reynolds
Psychology Poster Session II 4:45-6:00pm CHBS Lobby

The Effects of Job Insecurity on Emotional Exhaustion as Moderated by Locus of Control and Resulting in Counterproductive Work Behaviors
Cara Ganoe Katharine Korthase
Faculty Mentor(s): Nicole Petersen
Psychology Poster Session II 4:45-6:00pm CHBS Lobby

Transcribing Local History: Our Look into the Lost Archives of Botetourt County
Nicholas Stepheson Alexander Davis
John Kelly Jack Blalock
Faculty Mentor(s): Alan Mendoza Taylor Quesenberry
Sharon Roger Hepburn Megan Maddy
Psychology Poster Session II 4:45-6:00pm CHBS Lobby

Serving Adolescents With Autism Spectrum Disorder
Kaitlyn Jones Regan Flores
Faculty Mentor(s): Diane Millar
Psychology Poster Session II 4:45-6:00pm CHBS Lobby
Psychology Poster Session II

The Behavioral Effects of Social Housing Conditions on Male Long-Evans Rats
Makenzi Gallagher  Camille Hamway  Kendyl Smith  Rebecca Cain
Faculty Mentor(s):  Dayna Hayes
Psychology Poster Session II  4:45-6:00pm  CHBS Lobby

The Effects of Chlor Diazepoxide in Different Light Conditions on Rats
Alexa Komski  Michael Hastings  Kim Bradley  Gabrielle Smith  Kathryn Johnson
Faculty Mentor(s):  Pamela Jackson
Psychology Poster Session II  4:45-6:00pm  CHBS Lobby

Theories of Intelligence: Rationalist and Empiricist Bases
Anna Vandevender
Faculty Mentor(s):  Ann Elliott  Thomas Pierce
Psychology Poster Session II  4:45-6:00pm  CHBS Lobby

Effect of Everyday Activities on Affect in Adults with Moderate to Severe Dementia
Katarina Alatis  Michaela Reardon
Faculty Mentor(s):  Jenessa Steele
Psychology Poster Session II  4:45-6:00pm  CHBS Lobby

Job Demand and Employee Innovation: Perceptions of Organizational Politics as a Moderator
Kaylah Galloway
Faculty Mentor(s):  Nicole Petersen  Benjamin Biermeier-Hanson
Psychology Poster Session II  4:45-6:00pm  CHBS Lobby

Effects of Housing on Anxiety and Activity in Rats
Miranda Holland  Rebecca Stamm  Michael Hastings
Faculty Mentor(s):  Pamela Jackson
Psychology Poster Session II  4:45-6:00pm  CHBS Lobby

Emotional Labor: A preliminary study of its effect in a moderated-mediated model
Sean Knight
Faculty Mentor(s):  Ben Biermeier
Psychology Poster Session II  4:45-6:00pm  CHBS Lobby
# Health and Human Performance Poster Session

**The Acute Effects of (PNF) Proprioceptive Neuromuscular Facilitation Stretching on Muscular Power.**
- *Amanda Joyce*
- *Sarah Smith*
- *Kelly Baker*
- Faculty Mentor(s): *David Sallee*
- Time: *6:30-7:45pm*
- Location: *CHBS Lobby*

**The Impact of Foam Rolling Self Massage on Measures of Hip, Knee, and Ankle Mobility.**
- *Briana Smith*
- *Dianna Showers*
- Faculty Mentor(s): *David Sallee*
- Time: *6:30-7:45pm*
- Location: *CHBS Lobby*

**The Analysis of Kinematic Variables in the Snatch: Are Bar Trajectories Predictive of Successful Lifting?**
- *Donald Tredway*
- *Mathew Koldewey*
- *Cody Kelly*
- *Aaron Kildea*
- Faculty Mentor(s): *David Sallee*
- Time: *6:30-7:45pm*
- Location: *CHBS Lobby*

**The Acute Effects of Foam Rolling and Static Stretching on Muscular Power.**
- *Donald Tredway*
- *Mathew Koldewey*
- *Cody Kelly*
- *Aaron Kildea*
- Faculty Mentor(s): *David Sallee*
- Time: *6:30-7:45pm*
- Location: *CHBS Lobby*

**The Impact of Dynamic Stretching on Bar Speed**
- *Kyle Palmer*
- *Colin Hill*
- *Jordan Lundin*
- Faculty Mentor(s): *David Sallee*
- Time: *6:30-7:45pm*
- Location: *CHBS Lobby*

**The Impact of Stride Length on Acceleration in a 10 Yard Sprint.**
- *Nickolas Capozzoli*
- *Andrew Breeding*
- Faculty Mentor(s): *David Sallee*
- Time: *6:30-7:45pm*
- Location: *CHBS Lobby*

**The Acute Effects of Static Stretching Duration on Measures of Muscular Power.**
- *Timothy Kugel*
- *Aaron Kildea*
- Faculty Mentor(s): *David Sallee*
- Time: *6:30-7:45pm*
- Location: *CHBS Lobby*

**The Impact of Static Stretching on Bar Speed**
- *Ethan Hatch*
- *Ricky Murray*
- Faculty Mentor(s): *David Sallee*
- Time: *6:30-7:45pm*
- Location: *CHBS Lobby*

**The Relationship Between ACL Injury Risk and Plyometric Training**
- *Hannah Duff*
- Faculty Mentor(s): *J.P. Barfield*
- Time: *6:30-7:45pm*
- Location: *CHBS Lobby*
# Health and Human Performance Poster Session

## Depression and Aging
- **Carolyn Ansel**
- **Lexi Phonasa**
- **Marilyn Whitaker**
- **Faculty Mentor(s):** Kathleen Poole
- **Time:** 6:30-7:45pm
- **Location:** CHBS Lobby

## Let's Talk About Suicide Prevention
- **Chelsie Townsend**
- **Deja Calloway**
- **Morgan Fielding**
- **Faculty Mentor(s):** Kathleen Poole
- **Time:** 6:30-7:45pm
- **Location:** CHBS Lobby

## Depression in Adolescent Females
- **Jessica Masta**
- **Taylor Bertrand**
- **Gabrielle Saulnier**
- **Anna Pankow**
- **Faculty Mentor(s):** Kathleen Poole
- **Time:** 6:30-7:45pm
- **Location:** CHBS Lobby

## The Effects of Depression and Anxiety
- **Sarah Frazier**
- **Cristal Iden**
- **Cory Lane**
- **Anthony Masanque**
- **Faculty Mentor(s):** Kathleen Poole
- **Time:** 6:30-7:45pm
- **Location:** CHBS Lobby

## Depression Among Adolescent and Young Adult Males
- **Megan Sullivan**
- **Savannah Ludwig**
- **Kayla Hill**
- **Faculty Mentor(s):** Kathleen Poole
- **Time:** 6:30-7:45pm
- **Location:** CHBS Lobby

## Exercise and Depression
- **Aaron Kildea**
- **Dianna Showers**
- **Ryan Nichols**
- **Faculty Mentor(s):** Kathleen Poole
- **Time:** 6:30-7:45pm
- **Location:** CHBS Lobby

## Riboflavin supplementation may reduce symptoms of headaches and migraines
- **Courtney Burton**
- **Faculty Mentor(s):** Laurie Bianchi
- **Time:** 6:30-7:45pm
- **Location:** CHBS Lobby

## Soy isoflavones may reduce risk of cardiovascular disease
- **Marquitta Foster**
- **Faculty Mentor(s):** Laurie Bianchi
- **Time:** 6:30-7:45pm
- **Location:** CHBS Lobby

## The Impact of Foam Rolling Self Massage on Bar Speed
- **Ryan Oakes**
- **Mathew MacDonald**
- **Mather Hollandsworth**
- **Faculty Mentor(s):** David Sallee
- **Time:** 6:30-7:45pm
- **Location:** CHBS Lobby
Digital Media Showcase

Your Choice

   Alana Abbott          Luisa Cutting          Paul Toomey
Faculty Mentor(s):     Jane Machin              Walker 279
Idea Riser Showcase    4:00-4:45pm

The Pocket Caddy

   Erin Ferguson          Ali Maghraoui          Chad Ring
Faculty Mentor(s):     Jane Machin              Walker 279
Idea Riser Showcase    4:00-4:45pm

Master of Special Education Comprehensive Portfolio

   Jillian Kelly
Type of Media: ePortfolio
Digital Media Showcase    4:00-4:45 pm

Programming in Music: Creating a Mono Synth

   Justin Watts
Type of Media: Max/MSP Mono Synthesizer
Digital Media Showcase    5:00-5:45 pm

Interior Design Portfolio

   Brianna Koppelmann
Type of Media: ePortfolio
Digital Media Showcase    5:00-5:45 pm

F-Stop and Look Into Our Lens!

   Radford on Camera: Trae Price, Daniel Willingham, Benicia Lovely, Annie Schroeder
Type of Media: Film
Digital Media Showcase    5:00-5:45 pm

Children of the Flowers

   Marcus Reed
Type of Media: Digital Photography Edit
Digital Media Showcase    5:00-5:45 pm
Wednesday April 26th, Student Choreography Showcase

An evening of exploratory dance, Student Choreography Showcase highlights the voices of emerging choreographers enrolled in the Department of Dance's Choreographic Studies II class. Join us as we laugh, play and holler alongside these up and coming artists.

Free admission.
For more information call (540) 831-6850 or visit www.radford.edu/dance.

Student Choreography Showcase: Alexis Miller

Student Choreography Showcase: Caitlin Godsey

Disassociation of Identity: Courtney McClendon

Regardless: Kelly Noah

Student Choreography Showcase: Matthew Robinson

Student Choreography Showcase: Nicole Diambra

Student Choreography Showcase: Allison Richter

Student Choreography Showcase: Sydney Crawson