27th Annual Student Engagement Forum

April 17 - 19, 2018

Radford University
**Student Engagement Forum Coordinators**

Jenessa Steele, Associate Director OURS  
Joe Wirgau, Director OURS  
Jessica Mundy, Executive Student Assistant OURS

**The following individuals and offices are acknowledged for their contributions:**

Donna Boyd, Sigma Xi Chapter President  
Kara Daniel, Graduate Assistant OURS  
Jason Davis, Associate Director of the Honors Academy  
Samantha Doncaster, Executive Student Assistant OURS  
Mary Hagan, Honors Academy Administrative Assistant  
Shannon Hauslohner, Dining Services  
David Horton, Assistant to the ACSAT Dean  
Jonathan Mayer, Printing Services  
Jeanne Mekolichick, Assistant Provost  
Jeremy Mobley, Scholar Citizen Initiative  
Conner Philson, Beta Beta Beta  
Debbie Rynberg, Conference Services  
Katelynne Sims, Graduate Assistant OURS

**About the Cover Art**

The cover art was created by Erin Taylor, a first-year student at Radford University majoring in Computer Science with a concentration in Software Engineering.

Over the course of the year, many students conduct research in a variety of fields. These individual projects are usually unknown to other projects happening at the same time, as if they were stand-alone dots on a two-dimensional plane. However, nearly every student in research will come together at the Student Engagement Forum. The Forum is sometimes the only thing that ties two vastly different research projects together. This idea was the inspiration behind my cover art design. The brightly colored polka dots scattered across the design represent all the talented students who conduct research during their time at Radford while the much larger, circle portrays the culmination of these projects. Although the majority of projects may appear unconnected to each other, the Forum fosters a tie between all of them that truly encapsulates the brilliance of every student behind the projects.
# 27th Annual Radford University Student Engagement Forum

## Schedule at a Glance

### Tuesday, April 17th

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<th>Event</th>
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<tr>
<td>Sociology <em>Roots with Wings</em> Oral Session</td>
<td>Heth 022</td>
<td>12:45 pm-2:00 pm</td>
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<tr>
<td>Accelerated Research Opportunities Showcase</td>
<td>Heth 014</td>
<td>3:00 pm-4:30 pm</td>
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<tr>
<td>Art Censorship Panel</td>
<td>Heth 022</td>
<td>3:00 pm-5:00 pm</td>
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<tr>
<td>Honors Academy Capstone Showcase</td>
<td>Young 302</td>
<td>4:00 pm-7:45 pm</td>
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<tr>
<td>Honors Academy Capstone Showcase</td>
<td>Young Atrium</td>
<td>7:45 pm-8:45 pm</td>
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<tr>
<td>Interdisciplinary Oral Session</td>
<td>Heth 016</td>
<td>3:30 pm-5:00 pm</td>
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<tr>
<td>History Oral Session</td>
<td>Heth 016</td>
<td>5:30 pm-6:30 pm</td>
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<tr>
<td>Makers &amp; Innovators: Interactive Event</td>
<td>Heth Lobby</td>
<td>5:00 pm-7:00 pm</td>
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<tr>
<td>Psychology Interactive Brain Event</td>
<td>Heth Lobby</td>
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<tr>
<td>Interdisciplinary Poster Session</td>
<td>Heth 014</td>
<td>5:30 pm-6:45 pm</td>
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### Wednesday, April 18th

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<th>Event</th>
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<tr>
<td>Center for Gender Studies Keynote: Dr. Klotz</td>
<td>Heth 022</td>
<td>3:30 pm-4:30 pm</td>
<td>13</td>
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<tr>
<td>Center for Gender Studies Poster Session</td>
<td>Heth 022</td>
<td>4:30 pm-5:30 pm</td>
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<tr>
<td>English <em>Elsewhere</em> Panel</td>
<td>Heth 022</td>
<td>2:00 pm-2:50 pm</td>
<td>14</td>
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<tr>
<td>Psychology Poster Session I</td>
<td>Heth 014</td>
<td>5:30 pm-6:30 pm</td>
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<tr>
<td>Psychology Poster Session II</td>
<td>Heth 014</td>
<td>7:00 pm-8:00 pm</td>
<td>17</td>
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<tr>
<td>Scholar-Citizen Initiative Oral Session</td>
<td>Heth 043</td>
<td>2:30 pm-4:00 pm</td>
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<tr>
<td>Scholar-Citizen Initiative ePortfolio Showcase</td>
<td>Heth 043</td>
<td>4:00 pm-6:00 pm</td>
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<tr>
<td>Production Technology Showcase</td>
<td>Bonnie Auditorium</td>
<td>6:00 pm-7:30 pm</td>
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<tr>
<td>Arctic Geophysics Oral Session</td>
<td>Planetarium</td>
<td>6:00 pm-9:00 pm</td>
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### Thursday, April 19th

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<tr>
<td>Geospatial Science Poster Session</td>
<td>CS Lobby</td>
<td>2:00 pm-3:00 pm</td>
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<tr>
<td>Anthropological &amp; Forensic Sciences Poster Session</td>
<td>CS Lobby</td>
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<tr>
<td>Biology Poster Session I</td>
<td>CS Lobby</td>
<td>4:30 pm-5:30 pm</td>
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<td>Biology Oral Session I</td>
<td>CS M073</td>
<td>5:00 pm-6:15 pm</td>
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<tr>
<td>Biology Oral Session II</td>
<td>CS M073</td>
<td>6:30 pm-7:45 pm</td>
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<tr>
<td>Biology Poster Session II</td>
<td>CS Lobby</td>
<td>7:30 pm-8:30 pm</td>
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<tr>
<td>Multidisciplinary Oral Session</td>
<td>CS M070</td>
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<td>Chemistry Poster Session</td>
<td>CS Lobby</td>
<td>5:45 pm-6:45 pm</td>
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<tr>
<td>Geology Poster Session</td>
<td>CS Lobby</td>
<td>5:45 pm-6:45 pm</td>
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### Wednesday & Thursday, April 25th-26th

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<th>Event</th>
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<tr>
<td>Student Choreography Showcase</td>
<td>Peters Hall B112</td>
<td>7:30 pm-9:30 pm</td>
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Welcome!

It is my great pleasure and privilege to welcome you to the 27th Annual Radford University 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.

Although what you hear and see represents countless hours of work, it is only the tip of the iceberg. Everyone who has worked to create new knowledge knows it is a crooked path filled with dead ends and back tracking before finally arriving at progress. This progress requires great perseverance, belief, and support. I want to publicly thank all the presenters for staying the course, everyone who sparked or encouraged the needed curiosity to get started, and everyone who 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. The success of this year’s forum is due to the preparation and hard work put in by the OURS team. It is an honor for me to get to work with such a dedicated group who believe in this event and supporting research across campus. Jessica Mundy and Samantha Doncaster have been amazing managing the poster printing work flow and helping with event logistics while maintaining a positive atmosphere. Kara Daniel for jumping in as needed with projects like the name badges. Mary Hagan who literally keeps OURS running while the “forum” gets so much time and attention. I continue to grow in my appreciation of Dr. Jeanne Mekolichick as a personal mentor and for her advocacy of URSCA, the Student Engagement Forum, and transformative experiential learning experiences across campus. Lastly, a warm welcome to the team and public thank you to Dr. Jenessa Steele who took over leadership in organizing this year's event. This group makes me look forward to coming to work each day, as do the many student-faculty teams daring to go where no one has before in their search for knowledge.

Enjoy the celebration of new knowledge and I hope to see you all next year for the 28th version of the Student Engagement Forum!

Joe Wirgau, Ph.D.
Associate Professor of Chemistry
Director, Office of Undergraduate Research & Scholarship (OURS)
Sociology (SCI) Roots with Wings Oral Session
12:45-2:00 PM  Heth 022

Roots with Wings: Floyd County Place-Based Education Oral History Project
Khali Reid          Eileen Lagos
Sanou Diallo       Taylor Forrest
Alana Fanning      Hannah Koontz
Faculty Mentor(s): Melinda Wagner

Accelerated Research Opportunities Showcase
3:00-4:30 PM  Heth 014

Ripple Effects: Small Classroom Changes that Lead to Student Success
Jessica Mundy
Faculty Mentor(s): Joe Wirgau

Seismic Studies of the Arctic Sea Ice
Connor Parks        Hunter Brandon
Faculty Mentor(s): Rhett Herman

Analysis of Ligand Binding in E. Coli Beta-Glucuronidase
Samantha Powell
Faculty Mentor(s): Kimberly Lane

Correlations of Sleep Quality to Food and Water Intake in Undergraduate College Students
Samantha Doncaster Courntey Burton
Faculty Mentor(s): Laurie Bianchi

Dendrochronology: The Gateway to the Past
Siobhan Bowles
Faculty Mentor(s): Stockton Maxwell

Health Care In Rural Appalachia
Kayla Bishop        Tayanaunique Simmons
Faculty Mentor(s): Megen Hebdon Virginia Weisz
Developing a Marketing Campaign for the Interdisciplinary Makerspace at Radford University

Erin Taylor
Faculty Mentor(s): Jeremy Wojdak

Does Perceived Empathy Reduce the Role of Gender Bias in Physician Choice for Women's Health?

Victoria Dunsmore
Rachael Harasin
Rachel Scott
Faculty Mentor(s): Jenessa Steele Nicholas Lee

Effects of Trenbolone and Nithiazine on Breeding, Behavior and Morphology of Gambusia Holbrooki

Kristina Wade
Faculty Mentor(s): Sara O'Brien

How Experimental Research in Forensic Archaeology Informs Archaeological Practice: Differentiating Perimortem Fracture From Postmortem Breakage

Marta Paulson
Faculty Mentor(s): Donna Boyd Cliff Boyd

Late Ordovician Marine To Terrestrial Transition, Mountain Lake, VA

Alyson Meador
Faculty Mentor(s): Elizabeth McClellan

The Effect of Fabric Layers on Sharp Force Trauma Signatures on Bone

Jackson Clayton
Faculty Mentor(s): Donna Boyd Cliff Boyd
Accelerated Research Opportunities Showcase
3:00-4:30 PM       Heth 014

The Impact of Isometric Muscular Contraction Combined with Static Stretching on Measures of Muscular Power
Allan Flick
Faculty Mentor(s):
Kaylee Sturgis
David Sallee

The Effect of Clothing Type on Human Decomposition and Postmortem Interval
Pearl Moore
Faculty Mentor(s):
Donna Boyd
Cliff Boyd

Art Censorship Panel
3:00-5:00 PM       Heth 022

Museums: “if we go down this road, our walls will be bare” (Museums, Censorship and the Call-Out Culture)
Mary Tippett
Regan Brown
Nadia Parada Villeda
Bridget Beisen
Sherry Chenault

Faculty Mentor(s):
Mikayla Harshman
Jennifer Boone
Jackson Howell
Savannah Penven
Roann Barris
Honors Academy Capstone Showcase
4:00-7:45 PM Young 302

J.A.E. How a Documentary is Made
Bailey White
Faculty Mentor(s): Kevin Bowers

Police of Naloxone
Christopher Fleming
Faculty Mentor(s): Tod Burke Stephen Owen

The Effects of Vespa Amino Acid Mixture on Mitochondrial Defect Induced Locomotion Disorders in Drosophila melanogaster
Justin Archer
Faculty Mentor(s): Jason Davis

Slithering Through the Bible: How Serpents Are Portrayed In Modern Literature and Media As It Relates to Appalachian Religion
Katelyn Dobbins
Faculty Mentor(s): Paul Thomas

Examining the Effects of the Agricultural Pollutant, Trenbolone, in Aquatic Ecosystems
Abigail Malmborg
Faculty Mentor(s): Sara O'Brien

Latinos in Higher Education: Overcoming Barries to Increase Retention Rates
Brandon Dunford
Faculty Mentor(s): Blas Hernandez

You Are What You Wear: Unlocking and Unleashing the Power of the Consumer
Jaimi Evans
Faculty Mentor(s): John Jacob

The Evolution of the Concert
Lizzy Kunde
Faculty Mentor(s): David Zuschin

Optimization of EDC Detection in Aquatic Environments: LC-MS/MS Detection & Quantification of Trenbolone
Alex Atwood
Faculty Mentor(s): Christopher Monceaux Sara O'Brien
Honors Academy Capstone Showcase
7:45-8:45 PM  Young Atrium

An Exploration of Green Design and the Clothing Brand Patagonia.
Delanie Bachand
Faculty Mentor(s): Tammy Robinson  Farrell Doss

How Dance Travels
Nicole Diambra
Faculty Mentor(s):  Amy Van Kirk  Jason Davis

Exploring the Impact of Exercise on Stress Across Ages
Lindsay Graham
Faculty Mentor(s): Sara O’Brien  David Sallee

The Perception of Code-Switching on Academic Success and Language Maintenance among Native Americans
Kayley King
Faculty Mentor(s): Karen  Davis

The Emergence and Launch of the Outer Space Economy
Benjamin Gerhart
Faculty Mentor(s): Dan  Farhat

Enhancing Active Learning: Physical to Digital
Collier Crisanti
Faculty Mentor(s): Joe Chase

Facilitating Success for College Students with Autism Spectrum Disorder
Shelby Lineberry
Faculty Mentor(s): Diane Millar

How Experimental Research in Forensic Archaeology Informs Archaeological Practice: Differentiating Perimortem Fracture From Postmortem Breakage
Marta Paulson
Faculty Mentor(s): Donna Boyd  Cliff Boyd

Implications of Alternative Treatment Methods for ADHD
Maria Downey
Faculty Mentor(s): Wendy Eckenrod-Green

Isolation in Deafness: Helping DHH College Students Overcome Social Isolation
Blakely Coughenour
Faculty Mentor(s): Tracey Nielsen
Honors Academy Capstone Showcase
7:45-8:45 PM   Young Atrium

Realizing the Scacity of African American Designers In the United States Fashion Industry
Sian Brown
Faculty Mentor(s): John Jacob

Relational Algebra Teacher - A Homework and Practice System for Database Students
Christopher Anglin
Faculty Mentor(s): Robert Phillips

Seeing Through a New Lens: Memory Aiding Prosthesis and the Future of Healthcare
Cassidy McRorie
Faculty Mentor(s): Megan Hebdon

STEM-inists and The Leaky Pipeline: A look at Gender Issues in STEM
Kirsty de Wit
Faculty Mentor(s): Sara O'Brien

A Different Use of Time: Stimulation Boards for People with Alzheimer’s
Carly Mannon
Faculty Mentor(s): Joan Dickinson

The Effect of Varying Coaching Styles on Individual & Team Success
Carolyn Clary
Faculty Mentor(s): David Sallee

The Benefits of Equine-Assisted Therapy
Haley Jensen
Faculty Mentor(s): Holly Robbins

The Impact of Social Media on Community Engagement
Katie Annetti
Faculty Mentor(s): Angela Stanton

The Influence of Three-Layered Cranial Architecture Development on Non-Accidental
Pediatric Cranial Blunt Force Trauma Outcomes
Kimber Cheek
Faculty Mentor(s): Donna Boyd   Cliff Boyd

The Story Behind Cold Cases
LaKisha Williams
Faculty Mentor(s): Eric Snow

Virtual Reality-Based Training on Upper Body Movement and Activities of Daily Life in
Older Adults with Parkinson’s Disease
Adanna Cheek
Faculty Mentor(s): J. P. Barfield
Interdisciplinary Oral Session  
3:30-5:00 PM  Heth 016

Internships Through a Sociological Lens  
Shayna Gutcho  
Faculty Mentor(s):  Melinda Wagner  
Eileen Lagos

Peak Experience and Caregivers of Children with Disabilities  
Jenna von Schlichting  
Faculty Mentor(s):  James Newman

Predicting Grades and Retention of First Semester College Women  
Caitlin Martin  
Jennifer Madonia  
Rebecca Wiegmann  
Faculty Mentor(s):  Jeff Aspelmeier  
Ann Elliott  
Anja Whittington

Developing and Validating an Implicit Measure of Attitudes Towards Pornography 2.0  
Alex Latham  
Faculty Mentor(s):  Valerie Leake

History Oral Session  
5:30-6:30 PM  Heth 016

Continuation of Botetourt County Digitization  
Adam Thompson  
Taylor Frasure  
Faculty Mentor(s):  Mikayla Harshman  
Alexander Christie  
Sharon Roger Hepburn

Looking into the Past: The Experiences of Colored Troops in the Civil War  
Kate Sundie  
Corbin Morse  
Faculty Mentor(s):  Mason Mowbray  
Sharon Roger Hepburn
Makers & Innovators: Interactive Event
5:00-7:00 PM  Heth Lobby

Mobile Makerspace: Making Paper Circuit Thank-You’s for your Mentor

Psychology Interactive Brain Event
5:00-7:00 PM  Heth Lobby

Watch Your Brain Behave: Live EEG Monitoring
Interdisciplinary Poster Session
5:30-6:45 PM  Heth 014

Ascorbic Acid May Reduce the Septic Response In Critically Ill Patients
Ajla Becirevic  Emilee Wells
Morgan Wyatt
Faculty Mentor(s): Laurie Bianchi

Cocoa Polyphenols Improve Glucose Tolerance
Jennifer Cook  Britney Phekoo
Alexandra Harris
Faculty Mentor(s): Laurie Bianchi

Consumers Rate Sensory Attributes of Cookies Made with Cricket Flour Similarly to Conventional Cookies
Brittany Mejia-Blanco  Emilee Wells
Rachel Barron
Faculty Mentor(s): Laurie Bianchi  Jason Davis  Iain Clelland  Andrew Ray

Implications of Newly Determined Mechanisms of Water and Sodium Balance on Recommendations for Sodium Intake
Lauren Sigmon  Samantha Koester
Faculty Mentor(s): Laurie Bianchi

Iron Bioavailability in a Novel Soy-Based Cookie
Madison Smith
Faculty Mentor(s): Laurie Bianchi

Methods for Assessing Vitamin D Status Need to be Readdressed
Brittany Mejia-Blanco  Cory Toler
Meredith Brubaker
Faculty Mentor(s): Laurie Bianchi

Social Media and Crisis Medical Communication
Hanna Jang
Faculty Mentor(s): David Beach

Social Media and Culture
Austin Wayne
Faculty Mentor(s): David Beach

Social Media and Music
C. J. Rader
Faculty Mentor(s): David Beach
Interdisciplinary Poster Session
5:30-6:45 PM        Heth 014

Social Media and the Fashion Industry
Morgan Gray
Faculty Mentor(s): David Beach

Social Media: Ethical Issues in Medicine
Dessiry Eugenio
Faculty Mentor(s): David Beach

Social Supports in Aging
Elease Cook
Faculty Mentor(s): Sarah Gilbert

The Effect of Professional Development Workshops on Self-efficacy and Content Knowledge of Speech-Language Pathologists
Amy Weldon
Faculty Mentor(s): Karen Davis

The Marketing Myth
Kendree Roberts
Faculty Mentor(s): David Beach

The Use of Social Media in Modern Day Politics
Rachel Ator
Faculty Mentor(s): David Beach
Center for Gender Studies Keynote Address
3:30-4:30 PM Heth 022

Dr. Ann Marie Klotz
Radford University
Vice President for Student Affairs

A High Heel in the Door: Lessons Learned from Women College Presidents

Abstract: 23% of college presidents are women and if you take out community colleges that number plummets to 13% (Klotz, 2015). These numbers tell the story of persistent barriers for women in advancing to executive roles in academia but are also applicable to understanding the challenges for women in all industries. Join us for a lively discussion about what the research tells us about career advancement for women through the stories of ten women who made it to the top. You will be inspired by their journey and compelled to take action through the practical advice they share for young women who want to blaze their own trail.

Center for Gender Studies Poster Session
4:30-5:30 PM Heth 022

Victoria Dunsmore
Faculty Mentor(s): Tom Pierce

Does Feminist Ideology Mediate Between Gender Studies Education and Self-Esteem?
Victoria Dunsmore
Faculty Mentor(s): Benjamin Biermeier-Hanson
Center for Gender Studies Poster Session
4:30-5:30 PM  Heth 022

Does Perceived Empathy Reduce the Role of Gender Bias in Physician Choice for Women's Health?
Victoria Dunsmore  Morrgan Duncan
Rachael Harasink  Amanda Chappell
Rachel Scott
Faculty Mentor(s):
Jenessa Steele  Nicholas Lee

The Effects of Experimenter Gender on Gender Role Attitudes
Sofia Martinez  Victoria Moncion
Amanda Chappell
Faculty Mentor(s):
Jeffrey Willner

Do Attachment Styles Moderate Pluralistic Ignorance and Infidelity in Dating Relationships.
Rachel Given  Shelby Barr
Faculty Mentor(s):
Jeffery Aspelmeier

English Elsewhere: Creative Writing on Place Panel
2:00-2:50 PM  Heth 022

Burn it Down
Chandler Phipps
Faculty Mentor(s):
Rick Van Noy

Get Me Up and Out of Here
Shayna Dotson
Faculty Mentor(s):
Rick Van Noy

Living with Liminal Space
Rylee Rucker
Faculty Mentor(s):
Rick Van Noy

Relentless, Rolling Beach
Allison Sockman-Gillis
Faculty Mentor(s):
Rick Van Noy

The Land Remains the Same
Christy Myers
Faculty Mentor(s):
Rick Van Noy
Age, Gender, And Persuasion: An Analysis  
Tyler Grossheim  
Faculty Mentor(s): Jenessa Steele

An Examination of Self-Efficacy as a Moderator of the Relationship Between Autonomy and Work-life Balance  
Martha Epperly  Eric Holtz  
Ashley Thomason  Charlotte Watkins  
Faculty Mentor(s): Benjamin Biermeier-Hanson  Jenessa Steele

Does Music Matter? The Effect of Context-Dependent Music on Word Recall  
Jennifer Madonia  
Faculty Mentor(s): Erin Kerfoot

Effects of MK-801 On Anxiety and Activity In Male And Female Rats  
Mckenzie Picard  Gabriel Medley  
Faculty Mentor(s): Pamela Jackson

Everybody Does it: Pluralistic Ignorance within College Students’ Attitudes about Academic Dishonesty  
Elizabeth Giles  Cameron Holmes  
Victoria Staten  
Faculty Mentor(s): Jeffery Aspelmeier

Extraversion and Resilience as Protective Factors for PTSD Symptom Severity in Military Personnel  
Jordan Joyner  Lauren Nehilla  
Jennifer Lindamood  Michael Grigsby  
Faculty Mentor(s): Valerie Leake

Fecal Microbiota Transplantation: Implications in Alcohol Use  
Rebecca Cain  
Faculty Mentor(s): Dayna Hayes

Does Conscientousness Moderate Pluralistic Ignorance in Academic Cheating?  
Breanna Boyd  Logan Barr  
Katiana Ford  
Faculty Mentor(s): Jeffery Aspelmeier
Psychology Poster Session I
5:30-6:30 PM  Heth 014

Mary Whiton Calkins
Elizabeth Cottrell
Ian Evans
Faculty Mentor(s): Jeremiah Burkhart
Thomas Pierce

NSSI as a Moderating Variable Between Emotion Regulation Difficulty and PTSD
Lauren Nehilla
Faculty Mentor(s): Jenessa Steele

Pop Culture or Historical Fact? The Intersection of TV's "Black Mirror" and Neurosurgery for Treatment of Epilepsy
Kamille Harris
Alyson Faires
Faculty Mentor(s): Thomas Pierce

Pro-social Behavior and Gratitude Expression: A Comparison of Obligatory and Nonobligatory Services in Multiple Social Contexts.
Angie Austin
Faculty Mentor(s): Nicole Iannone

Responses to Disrespect in Young Adults and Older Adults
Amanda Chappell
Faculty Mentor(s): Jenessa Steele

Safety in a Social Context: A Mixed-Methods Examination of the Social and Psychological Determinants of Safety
Caelan King
Faculty Mentor(s): Stirling Barfield  Allison Wisecup

The Effect of MK-801 on Social Interaction in Rats
Mykole McCray
Lesli Taylor
Faculty Mentor(s): Connor Dunn  Pamela Jackson

The Impact of Cellphone Use
Rebecca Wiegmann
Faculty Mentor(s): Nicole Iannone

The Moderating Effect of Workplace Spirituality on the Relationship Between Locus of Control and Workplace Stress
Melanie Vandyke
Faculty Mentor(s): Jenessa Steele  Benjamin Biermeier-Hanson
Psychology Poster Session I
5:30-6:30 PM  Heth 014

The Role of Mindfulness in Learning
Lesli Taylor
Faculty Mentor(s): Jenessa Steele

The Role of Perceived Organizational Support on the Relationship between Emotional Labor and Counterproductive Work Behaviors
Michaela Setzer  Tori Sheets
Hediye Uyguner
Faculty Mentor(s): Benjamin Biermeier-Hanson  Jenessa Steele

Psychology Poster Session II
7:00-8:00 PM  Heth 014

A Comparison of Non-pharmacological Techniques in the Treatment of Dementia: A Proposal
Rachel Scott
Faculty Mentor(s): Jenessa Steele

Does Severity Moderate Pluralistic Ignorance for Revenge Norms?
Katelyn Brown  Alexa Barnett
Shermaine Garland
Faculty Mentor(s): Jeffery Aspelmeier

Effects of NMDA Antagonist MK-801 on Object Location Recognition and Exploratory Ability in Rodents
Hanna Martin  Jessica Meetre
Miranda Holland  Ray Lundy
Faculty Mentor(s): Pamela Jackson

Gender differences: Behavioral Variations Between Male and Female Rats Injected with MK-801
Monica Lewis  Jalisha McEachern
Sa'mone Moore  Deanna Cashel
Faculty Mentor(s): Pamela Jackson

How Mesmerizing is Hypnosis?
Courtney Kalmanson  Rachel Dotson
Faculty Mentor(s): Thomas Pierce
Psychology Poster Session II  
7:00-8:00 PM  Heth 014

Identifying and Addressing Growth Edges: Examining the Intersectionality of Privileged and Minority Identities  
Elizabeth Cottrell  
Faculty Mentor(s): Sarah Hastings

Mastering Your Emotions: Comparison of Two Emotion Regulation Strategies  
Brittany Holdaway  Shatlyn Ayers  Britanni Parr  
Faculty Mentor(s): Erin Kerfoot

Perceived Organizational Support and Turnover Intention Moderated by Person Organization Fit  
Mitchell Camerano  Ashley Sprinkle  
Faculty Mentor(s): Jenessa Steele  Ben Biermeier-Hanson

Personality, Workaholism, and Burnout: A Moderated Mediation  
Robert Wellman  Hau Tuang  
Faculty Mentor(s): Ben Biermeier-Hanson  Jenessa Steele

Pluralistic Ignorance and Revenge in Relationships  
Sara Hinkle  Samantha Lamp  Thomas Moses  
Faculty Mentor(s): Jeffery Aspelmeier

Pluralistic Ignorance in Revenge and Friendship  
Katelyn Brown  Alexa Barnett  Shermaine Garland  
Faculty Mentor(s): Jeffery Aspelmeier

Political Attitudes Moderate Pluralistic Ignorance within Ethnic Attitudes  
Amber Daubenspeck  Jasmine Sandozz  Chyanna Jones  
Faculty Mentor(s): Jeffery Aspelmeier

Politically Out-of-the Loop: Feelings of Exclusion between In and Out-Groups.  
Charles Woods  Jacob Sowder  
Faculty Mentor(s): Nicole Iannone
Psychology Poster Session II
7:00-8:00 PM Heth 014

Quantitative Analysis of Continuously Recorded EEG
Meredith King
Kyle Macintosh
Cassandra Homick
Faculty Mentor(s): Thomas Pierce
Nicole Ray
Dorneya Halatai

Rats’ Exposure to Stress in Adolescence and Adult Alcohol Consumption
Gabriel Medley
Faculty Mentor(s): Jenessa Steele

Safety Somatization: A Mixed-Methods Examination of the Physiological and Psychological Determinants of Safety
Emmaleigh Mondell
Faculty Mentor(s): Stirling Barfield Allison Wisecup

Self-Compassion: A Potential Mediator between Mindfulness and Stress
Rebecca Cain
Faculty Mentor(s): Benjamin Biermeier-Hanson

The Effect of an Hallucinogenic Drug (MK-801) on Activity Levels in Rats
Melissa McKeldin
Kyra Johnson
Faculty Mentor(s): Pamela Jackson
Rachael Harasink
Hannah Parrish

The Effects of Animal-Researcher Interactions on Corticotropin-Releasing Factor in Adolescent and Adult Rats
Camille Hamway
Faculty Mentor(s): Dayna Hayes Sarah Redmond

The Effects Of Source Similarity On Political Persuasion
Tyler Grossheim
Faculty Mentor(s): Nicole Iannone

The Ganzfeld Experiment
Charles Woods
Rebecca Cain
Faculty Mentor(s): Thomas Pierce
Rebecca Wiegmann

The Role of Metacognition in Test Potentiated Learning
Marissa Momchilov
Faculty Mentor(s): Kathleen Arnold
Lesli Taylor
Scholar Citizen Initiative Showcase: Oral Session
2:30-4:00 PM  Heth 043

Realization and Development of Leadership Skills and Strengths
Justin Trever
Faculty Mentor(s): Tay Keong Tan

How to Negotiate Across a Deep Political Chasm: Leadership Strategies for Managing Conflicts in the American Congress
Ivan Thirion Romo
Faculty Mentor(s): Tay Keong Tan

WAY beyond the classroom: Postcards from the Arctic Circle, RU Geophysics Research Expedition

RU Arctic Geophysics Research Group
Hunter Brandon  Quinn Brock
Ryan Fry  Michael Hess
Rory McDaniel  Mark Meadows
Faculty Mentor(s): Rhett Herman

Scholar Citizen Initiative Showcase ePortfolio
4:00-6:00 PM  Heth 043

Luis Arias  Meredith Brubaker
Nicole Diambra  Morgan Fielding
Ashley Haynes  Alyssa Holland
Eileen Lagos  Abigail Malmborg
Cassidy McRorie  Kaitlyn Reeves
Ivan Thirion-Romo
Production Technology Showcase
6:00-7:30 PM  Bonnie Auditorium

Animal Shelter Provides Companionship - News Package
Stephen Mills  Devin Stubbs
Faculty Mentor(s):  West Bowers

LED Light Bulb Infomercial
Jack Scott
Faculty Mentor(s):  Matthew Turner

NPHC Documentary
Nehemiah Bester
Faculty Mentor(s):  West Bowers

Radford Foundry Documentary
Ramsey Cole
Faculty Mentor(s):  Kevin Bowers

The Search
Kirk Payne
Faculty Mentor(s):  Kevin Bowers

Tolls: A News Package Project
Sabriya McKoy
Faculty Mentor(s):  Kevin Bowers

Why Radford: A Multitrack Audio Project
Tanis Enos  Nicole Owens
Faculty Mentor(s):  Kevin Bowers
Arctic Geophysics Oral Session
6:00-9:00 PM  Planetarium

A Homemade Galvanic Electrical Resistivity Array - Same Results for a Fraction of the Cost
  Michael Hess  Quinn Brock
  Faculty Mentor(s):  Rhett Herman

Barrow, Alaska 2018
  Ryan Fry  Chris Mattson
  Faculty Mentor(s):  Rhett Herman

Finite Difference Model of Sea Ice
  Andre Shannon  Rachel Myers
  Faculty Mentor(s):  Rhett Herman

From Cart to C.A.R.T.T. - Compact Arctic Research Tech Transport
  Ryan Fry  Connor Parks
  Faculty Mentor(s):  Rhett Herman

Initial Analysis of Barrow 2018 Temperature Data On/Above the Arctic Sea Ice
  Rory McDaniel  Trevor Tidwell
  Faculty Mentor(s):  Rhett Herman

OhmMapper Capacitive Coupled Electrical Resistivity Surveys - Two Methods and their
Results on Arctic Sea Ice
  Mark Meadows
  Faculty Mentor(s):  Rhett Herman

Seismic Studies of the Arctic Sea Ice
  Connor Parks  Hunter Brandon
  Faculty Mentor(s):  Rhett Herman
Geospatial Science Poster Session
2:00-3:00 PM   CS Main Street Lobby

A Three Site Climate Comparison of Quercus alba in Virginia
Joseph Spriggs
Faculty Mentor(s): Stockton Maxwell   Richard Roth

An Analysis of Solar Insolation Models Derived from Different Terrain Surfaces
Hudson Chase
Faculty Mentor(s): Andrew Foy   Richard Roth

Analysis of Virginia Big Eared Bat Conservation Buffers
Cotey Bentley
Faculty Mentor(s): Richard Roth   Andrew Foy

Dendrochronology: The Gateway to the Past
Siobhan Bowles
Faculty Mentor(s): Stockton Maxwell

Examining the Spatio-Temporal Distribution of Crime Near Silver Line Metro Stations in Fairfax County, Virginia
Andrew McGowan
Faculty Mentor(s): Andrew Foy   Richard Roth

Google Maps vs. Apple Maps
Bryce Grimes
Faculty Mentor(s): Andrew Foy   Richard Roth

Investigating Differences in the Spatial Temporal Pattern of Flooding in the Different Geological Provinces of Richmond
Grant Michauskas
Faculty Mentor(s): Andrew Foy   Richard Roth   Charles Manyara

Land Use and Water Quality in the Chesapeake Bay
Thomas Napier
Faculty Mentor(s): Richard Roth

Water Quality and Impervious Land Cover in Selected Chesapeake Bay Subwatersheds
Cody Beeler
Faculty Mentor(s): Richard Roth   Andrew Foy

Relationship between Tree Diameter, Soil Type and Proximity to Water
Grayson Davie
Faculty Mentor(s): Richard Roth   Andrew Foy
Geospatial Science Poster Session
2:00-3:00 PM   CS Main Street Lobby

Measuring the Accuracy of Consumer-Grade UAS-Collected Data Compared to Traditional Ground Surveyed Data
Colby Ryan
Faculty Mentor(s): Andrew Foy Richard Roth Skip Watts

Predicting Potential Urban Fires in Radford and Mitigating These Hazard’s
Levi Dollarhite
Faculty Mentor(s): Andrew Foy Richard Roth

Predictive Surfaces of Crime in Virginia Beach Neighborhoods
John Miller
Faculty Mentor(s): Andrew Foy Richard Roth

Radford University Recycling Inventory and Outdoor Receptacle Placement
Robert Arcuri
Faculty Mentor(s): Richard Roth

Seasonality of Stressors Leading to Coral Reef Bleaching
Jake Hill
Faculty Mentor(s): Richard Roth Andrew Foy

Spatial Analysis of Anthropogenic Disturbances on Banded Waterfowl Counts
Jack Fraim
Faculty Mentor(s): Andrew Foy Richard Roth

Traffic Volume as a Spatial Predictor of Traffic Accidents in Radford, Virginia
Ezekial Jeansonne-Moore
Faculty Mentor(s): Andrew Foy Richard Roth

Using GIS to Analyze Patterns of Opioid Misuse in Adolescents (Age 15-24)
Alexandra Clickner
Faculty Mentor(s): Andrew Foy Richard Roth

Utilizing Remote Sensing Technologies to Analyze Distribution of Phragmites Australis
Kyle Walker
Faculty Mentor(s): Richard Roth Andrew Foy

Virginia Deer-Vehicle Collision Analysis
Daniel Lee
Faculty Mentor(s): Andrew Foy
Anthropological and Forensic Sciences Poster Session
3:15-4:15 PM  CS Main Street Lobby

Changes in Overall Health and Well-Being of Americans Temporarily Living in the Peruvian Amazon
Aubree Marshall
Faculty Mentor(s): Cassady Urista  Jason Davis

How Experimental Research in Forensic Archaeology Informs Archaeological Practice: Differentiating Perimortem Fracture From Postmortem Breakage
Marta Paulson
Faculty Mentor(s): Donna Boyd  Cliff Boyd

The Effects of Fiber Layers on Sharp Force Trauma Signatures on Bone
Jackson Clayton
Faculty Mentor(s): Donna Boyd  Cliff Boyd

The Effect of Clothing Type on Human Decomposition and Postmortem Interval
Pearl Moore
Faculty Mentor(s): Donna Boyd  Cliff Boyd

The Influence of Sharp Force Trauma on Human Decomposition
Erin Dimino
Faculty Mentor(s): Donna Boyd  Robert Sheehy

The Influence of Three-Layered Cranial Architecture Development on Non-Accidental Pediatric Cranial Blunt Force Trauma Outcomes
Kimber Cheek
Faculty Mentor(s): Donna Boyd  Cliff Boyd

Exploration of Using Technology and Pattern Recognition Algorithms to Improve Driver Habits
Lauren Rose
Faculty Mentor(s): Hwajung Lee
Biology Poster Session I  
4:30-5:30 PM  CS Main Street Lobby

Analyzing Floral Proteins to Better Understand Modeling and Simulation  
Megan Calvanese  
Faculty Mentor(s): Tara Phelps-Durr

A Comparative Study of Stress Levels Based on Physical Activity  
Layne BiBuono  
Adam Weikel  
Whitney Clowser  
Taylor Greenway  
Faculty Mentor(s): Sarah Redmond

A Comparative Study of Stress Levels Based on Physical Activity  
Layne BiBuono  
Adam Weikel  
Whitney Clowser  
Taylor Greenway  
Faculty Mentor(s): Sarah Redmond

Alkaloid Extraction, Isolation, and Identification  
Cole Faulkner  
Faculty Mentor(s): Gary Cote’ Cindy Burkhardt

Are Bird-Window Collisions Related to the Proximity to and Density of Roads at Radford University?  
Harry Russell  
Nolen Miller  
Faculty Mentor(s): Karen Powers

Collection and Analysis of Human Salivary IgA to Understand Physiological Effect of Stress on the Student Athlete  
Claire Dundon  
Faculty Mentor(s): Sarah Redmond

Investigating the Relationship Between Vegetation Metrics and Bird-Window Collisions on Radford University's Campus  
Kristy Clark  
Laura Soares  
Faculty Mentor(s): Karen Powers

Do Bird-Window Collisions Increase as Campus Buildings' Window Area Increase?  
Lindsey Lee  
Kristen Pitchke  
Faculty Mentor(s): Karen Powers
Biology Poster Session I
4:30-5:30 PM CS Main Street Lobby

Does Nest Stage Impact Parental Defense Behaviors of Eastern Bluebirds (Sialia sialis) and Tree Swallows (Tachycineta bicolor)?
Nolen Miller
Faculty Mentor(s):
Layne Dibuono
Sarah Foltz

Exploring Biodiversity of the Selu Conservancy by using DNA Barcoding
Andy King
Hailey McArdle
Faculty Mentor(s):
Courtney Harmon
Mallory McKnight
Bob Sheehy

Exploring the Invertebrate Diversity of Selu Using DNA Barcoding.
Abby Jones
Wendy Marshall
Faculty Mentor(s):
Jenny Davis
Katelyn Bowden
Bob Sheehy

Invertebrates of Selu
Kyra Quinerly
Makayla Agee
Faculty Mentor(s):
Jena Alley
Sophia Schroeder
Bob Sheehy

Recycling Education Methods and Success Rates on Radford University's Campus
D'Avianna Love
Faculty Mentor(s):
Josh Nease
Christine Small

Relation Between Bird-Window Collisions and the New River, Virginia
Makayla Beckner
Brilynn Duke
Faculty Mentor(s):
Breann Mullen
Genesis Daniels
Karen Powers

Relationship of Bird-Window Collision Rates to the Concentration of Food Sources Across Campus
Neil Mcdonald
Nicole Jones
Faculty Mentor(s):
Rachel Champan
Bradley Jonnes
Karen Powers

Student Experiences in Fire Ecology: A Follow-Up Assessment of an Experiential Learning Course
Codie Gleason
Faculty Mentor(s):
Ryley Harris
Karen Powers
Biology Poster Session I
4:30-5:30 PM CS Main Street Lobby

Studying Invertebrate Biodiversity of Selu using DNA Barcoding
Sarah Cushing  Erin Dimino
Bailey Mitchell  Blake Allred
Patrick Barton  John Baines
Faculty Mentor(s):  Bob Sheehy

The Isolation of Calcium Oxalate Crystals from Plant Tissues
Matias Paulina
Faculty Mentor(s):  Gary Cote'

The PASSER Project: Use of a Computerized Feeding Device for Ethological Investigations of New World Primates
Conner Philson  Jason Davis  Andrew Ray  Cassady Urista
Faculty Mentor(s):  Bob Sheehy

The Prevalence of Lyme's Disease in Dogs in South West Virginia: An Internship at Riverside Veterinary Clinic in Radford Virginia
Haley Burger
Faculty Mentor(s):  Karen Powers

The Retrieval and Species Identification of Plethodons in the New River Valley
Emily Hasen
Faculty Mentor(s):  Bob Sheehy

Using DNA Barcoding to Understand Invertebrate of the Selu Conservancy
Aubree Marshall  Austin Barker
Allanah Cross  Sir Nottingham
Faculty Mentor(s):  Bob Sheehy
Biology Oral Session I
5:00-6:15 PM    CS M073

Tibial Torsion and Metatarsal Robusticity in Modern and Fossil Humans
Mckenzie Schrank  Jessica Wollmann
Aubree Marshall  Laura Gruss

Effects of Nonylphenol on Behavior, Development, and Morphology of Gambusia holbrooki
Dharmindra Dulal  Sara O'Brien

Effects of Royal Jelly in Combination With Juvenile Hormone Agonists in Gromphadorhina portentosa
Taylor Hawkins  Aubree Marshall
Rachel Short  Kelly Chandler
Aubree Marshall  Jenny Williams
Drew Wolford  Jason Davis

Investigating the Effects of Juvenile Hormone and Royal Jelly on Lasiodora parahybana
Conner Philson  Jason Davis
Andrew Ray  Sarah Foltz

Biology Oral Session II
6:30-7:45 PM    CS M073

A Study of Antimicrobial Activity of Sangre de Drago
Kendalyn Hersh  Joyce Caughron  Jason Davis

The Passer Project: Inducing Neophobia Through Presented Stimuli via A Computer Enabled Feeder
Tyler Samuels  Jason Davis

Dogs and Owls and Pigs, Oh My! My Summer at the Hillview
Emily Brammer  Karen Powers
Biology Oral Session II
6:30-7:45 PM  CS M073

Modulation of Vegetative Growth by Frass Derivatives from Madagascar Hissing Cockroaches (Gromphadorhina portentosa)

Luis Arias  Alex Atwood
Faculty Mentor(s):  Jason Davis

Vespa Amino Acid Mixture (VAAM) Enhances Electron and Proton Transport in Mitochondria and Leads to Excessive Reactive Oxygen Production

Attia Mohamed  Samuel Stowers
Kristy Clark  Marisa Dameron
Adam Weikel  Emilie Colon
Faculty Mentor(s):  Sarah Redmond

Biology Poster Session II
7:30-8:30 PM  CS Main Street Lobby

Assessment of Invertebrate Biodiversity at the Selu Conservancy

Laneigh Jones  Shanell Piercy
Stephen Ruppert  Bekah Shupe
Faculty Mentor(s):  Bob Sheehy

Biodiversity Inventory of Selu Conservancy Using Data Analysis

Ellen Agyemang  Robert Agliam
TJ Weatherford
Faculty Mentor(s):  Bob Sheehy

Calcium Oxalate Concentration in Deciduous Leaves

Christopher Smith
Faculty Mentor(s):  Gary Cote'

Carcinogenic VOC Detection By Means of Oscillatory Tongue Flicks in Snakes

Joseph Escobar
Faculty Mentor(s):  Matthew Close

Computational Modeling of the AS1/AS2 Complex

Tayler Lewis
Faculty Mentor(s):  Tara Phelps-Durr

Detection Efficiency of the Allegheny Woodrat (Neotoma Magister) in Virginia

Makayla Beckner
Faculty Mentor(s):  Karen Powers
Biology Poster Session II
7:30-8:30 PM CS Main Street Lobby

Good Food, Good Mood: Evaluating the Effect of Food Consumption on Perceived Stress and IgA Levels
Abby Jones  Danielle Cyburt
Alexander Holder  Katelynn Webb
Faculty Mentor(s): Sarah Redmond

Identification of Invertebrates of the Selu Conservancy Using DNA Barcoding
Emily Hansen  Keyon Clanton
Eliot Alford  Ashley Lucas
Tristan Owens
Faculty Mentor(s): Bob Sheehy

Inflammatory Cytokines Down-Regulate CYP4F Enzyme Expression and Function in Human Liver Cells
Clay Branscom  Austin Dean
Faculty Mentor(s): Peter Christmas

Investigating the Impacts of Environmental Changes on Appalachian Herpetofauna
Tia Thompson
Faculty Mentor(s): Matthew Close  Sara O'Brien

Stress Levels Between Nursing Students and Biology Students
Luis Arias  Erin Morehart
Lindsey Lee  Becca Stamm
Sierra Noble  Emilie Colon
Faculty Mentor(s): Sarah Redmon

Survival and Metabolic Function of Escherichia coli After Exposure to Vespa Amino Acid Mixture (VAAM)
Emilie Colon
Faculty Mentor(s): Sarah Redmond

The Computational Modeling and Analysis of the TCP4 and AS2 Proteins
Kyanna Jenkins
Faculty Mentor(s): Tara Phelps-Durr

The Effects of Diet on the Evolution of Salivary Alpha-Amylase
McKenzie Schrank
Faculty Mentor(s): Jason Davis  Cassidy Urista
Biology Poster Session II
7:30-8:30 PM CS Main Street Lobby

The Fang and the Oral Papillae: A Snake Evolution Love Story
Kirsty de Wit
Faculty Mentor(s): Matthew Close

The Impacts of Exercise on IgA as a Marker of Stress
Shane Bryant Katelyn Bowden
Camille Hamway Lindsey Graham
Arana McAllister
Faculty Mentor(s): Sarah Redmond

The Isolation of Calcium Oxalate Crystals from Plant Tissues
Matias Paulina
Faculty Mentor(s): Gary Cote

Thermoreception in Colubrids: Does it Play a Role in Detecting Suitable Prey?
Carley Shears
Faculty Mentor(s): Matthew Close

Use of DNA Barcoding to Study Invertebrate Diversity of the Selu Conservancy, Radford, Virginia
Hanna Reed Adam Allen
Blake Allred Mallie Giampocaro
Faculty Mentor(s): Bob Sheehy

Using Agent-Based Modeling to Better Understand Predator-Prey Interactions
Russell Dixon Kim Reuwer
Faculty Mentor(s): Jeremy Wojdak

Honey as a Potential Antimicrobial Agent
Tristan Smith
Faculty Mentor(s): Bob Sheehy
Multidisciplinary Oral Session
5:00-6:00 PM CS M070

Eulerian Numbers in Cryptography
Jenna Foster
Faculty Mentor(s): Tingyao Xiong

In Vivo Inhibition of S. Cerevisiae α-Glucosidase Validates Molecular Modeling and in Silico Inhibitor Docking Studies
Joshua Turner
Faculty Mentor(s): River Fiedler
Sarah Kennedy

Predictive Models for Major League Baseball Free Agency (Honors Capstone)
Grant Anders
Faculty Mentor(s): Daniel Farhat

Chemistry Poster Session
5:45-6:45 PM CS Main Street Lobby

Chemist Without Borders Collaboration
Leslie Molina-Arana
Faculty Mentor(s): Sarah Kennedy

Exploring Estrogenic Chemicals in Amazonian Waterways
Abigail Malmborg
Faculty Mentor(s): Christopher Monceaux

Exploring Natural Plant Sources for Potential Anti-Cancer Molecules
Dharmindra Dulal
Faculty Mentor(s): Christine Hermann
Peter Christmas

Fractal Electrodeposition of Zinc and Copper
Rachel Jones
Faculty Mentor(s): George Harakas

HPLC Evaluation of Organic Pollutant Remediation Using Biorenewable Block Co-Polymers
Kris Moore
Faculty Mentor(s): Amanda Flint
Amanda Flint
Amy Balija

Method Development for Quantitating Stevia in Consumer Products by HPLC
Jazmin Valentine
Faculty Mentor(s): Cindy Burkhardt
Cindy Burkhardt
Chemistry Poster Session
5:45-6:45 PM  CS Main Street Lobby

Molecular Modeling of Human Beta-glucuronidase
Alexandra Hawks
Faculty Mentor(s): Kimberly Lane

Mutational Analysis of F365 Interactions with Key Inhibitors in E. coli Beta-glucuronidase
Michaela Atwell
Samathan Van Shufflin
Faculty Mentor(s): Kimberly Lane

Organic Nanosponges: Novel Block Co-Polymers Prepared from Îµ-Caprolactone and DL-Lactide Designed to Remove Organic Pollutants from Aqueous Environments
Heidi Chicas
Faculty Mentor(s): Amy Balija

T. thermophilus Laccase and its Applications as a Green Alternative to Oxidation
Katelyn Johnston
Faculty Mentor(s): Sarah Kennedy

Temperature Dependent Self-Assembly of Dibromo-anthracene on Ag(111)
Tristan Blackwell
Faculty Mentor(s): Cory Ashworth

The Effect of Sly Syndrome on the Binding Sites of Beta-glucuronidase
Samantha Powell
Faculty Mentor(s): Kimberly Lane

Thermodynamic Stability of the Isomers of the C32 Fullerenes and Endohedrals
Sarah Church
Faculty Mentor(s): Timothy Fuhrer

Developing Saponification Lab for Chemists Without Borders
Philippina Oduro Sarpong
Ellen Agyemang
Faculty Mentor(s): Matilda Amponsah

Sarah Kennedy
Geology Poster Session
5:45-6:45 PM CS Main Street Lobby

3-D Modeling of Geological and Archaeological Samples for Online and Distance Learning
Michaela May
Faculty Mentor(s): Parvinder Sethi

Differentiated the Undifferentiated: Mapping Complex Neoproterozoic Volcanic and Glaciogenic Stratigraphy in the Mount Rogers Area, SW VA
Adrienne Reeder Sarah Morgan
Faculty Mentor(s): Elizabeth McClellan

From Outcrop to Region: Revealing the Stratigraphic and Structural Framework of the Uppermost Mount Rogers Formation, SW VA, Through Detailed Outcrop Analysis
Sophia Rasiak Adrienne Reeder
Faculty Mentor(s): Elizabeth McClellan

Gigapan and Drone Tools: A Case Study of Rock Slope Stability Issues at Natural Bridge, Rockbridge County VA, USA
Rebecca Norton
Faculty Mentor(s): Parvinder Sethi Ryan Sincavage Skip Watts

Identifying Sinkholes Using Infrared Aerial Imagery
James Young
Faculty Mentor(s): Chester Watts

Late Ordovician Marine To Terrestrial Transition, Mountain Lake, VA
Alyson Meador
Faculty Mentor(s): Elizabeth McClellan

Pyrite Mineralization in Devonian-Age Black Shale in Southwest Virginia: Implications for Acid Drainage and Paleoenvironmental Reconstruction
Zachary Yates Hunter Childers
Faculty Mentor(s): Parvinder Sethi George Stephenson

Scanning Electron Microscopy of Devonian Millboro Black Shale and Implications for Groundwater Pollution and Paleoenvironmental Reconstruction
Samantha Farmer Hunter Childers
Faculty Mentor(s): Parvinder Sethi George Stephenson Gary Cote’
Student Choreography Showcase  
7:30-9:30 PM  Peters B112

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.

<table>
<thead>
<tr>
<th>Name</th>
<th>Faculty Mentor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Caroline Beard</td>
<td>Deborah McLaughlin</td>
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<tr>
<td>Zoe Couloumbis</td>
<td>Deborah McLaughlin</td>
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<td>Brenna Featherston</td>
<td>Deborah McLaughlin</td>
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<td>Brigitte Manga</td>
<td>Deborah McLaughlin</td>
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<td>Fiona Scruggs</td>
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<td>Nicole Teran</td>
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<tr>
<td>Victoria Unterberger</td>
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