

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

Sociology <i>Roots with Wings</i> Oral Session	Heth 022	12:45 pm-2:00 pm	pp 3
Accelerated Research Opportunities Showcase	Heth 014	3:00 pm-4:30 pm	pp 3
Art Censorship Panel	Heth 022	3:00 pm-5:00 pm	pp 5
Honors Academy Capstone Showcase	Young 302	4:00 pm-7:45 pm	pp 6
Honors Academy Capstone Showcase	Young Atrium	7:45 pm-8:45 pm	pp 7
Interdisciplinary Oral Session	Heth 016	3:30 pm-5:00 pm	pp 9
History Oral Session	Heth 016	5:30 pm-6:30 pm	pp 9
Makers & Innovators: Interactive Event	Heth Lobby	5:00 pm-7:00 pm	pp 10
Psychology Interactive Brain Event	Heth Lobby	5:00 pm-7:00 pm	pp 10
Interdisciplinary Poster Session	Heth 014	5:30 pm-6:45 pm	pp 11

Wednesday, April 18th

Center for Gender Studies Keynote: Dr. Klotz	Heth 022	3:30 pm-4:30 pm	pp 13
Center for Gender Studies Poster Session	Heth 022	4:30 pm-5:30 pm	pp 13
English <i>Elsewhere</i> Panel	Heth 022	2:00 pm-2:50 pm	pp 14
Psychology Poster Session I	Heth 014	5:30 pm-6:30 pm	pp 15
Psychology Poster Session II	Heth 014	7:00 pm-8:00 pm	pp 17
Scholar-Citizen Initiative Oral Session	Heth 043	2:30 pm-4:00 pm	pp 20
Scholar-Citizen Initiative ePortfolio Showcase	Heth 043	4:00 pm-6:00 pm	pp 20
Production Technology Showcase	Bonnie Auditorium	6:00 pm-7:30 pm	pp 21
Arctic Geophysics Oral Session	Planetarium	6:00 pm-9:00 pm	pp 22

Thursday, April 19th

Geospatial Science Poster Session	CS Lobby	2:00 pm-3:00 pm	pp 23
Anthropological & Forensic Sciences Poster Session	CS Lobby	3:15 pm-4:15 pm	pp 25
Biology Poster Session I	CS Lobby	4:30 pm-5:30 pm	pp 26
Biology Oral Session I	CS M073	5:00 pm-6:15 pm	pp 29
Biology Oral Session II	CS M073	6:30 pm-7:45 pm	pp 29
Biology Poster Session II	CS Lobby	7:30 pm-8:30 pm	pp 30
Multidisciplinary Oral Session	CS M070	5:00 pm-6:00 pm	pp 33
Chemistry Poster Session	CS Lobby	5:45 pm-6:45 pm	pp 33
Geology Poster Session	CS Lobby	5:45 pm-6:45 pm	pp 35

Wednesday & Thursday, April 25th-26th

Student Choreography Showcase	Peters Hall B112	7:30 pm-9:30 pm	pp 36
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RADFORD UNIVERSITY

Undergraduate Research
and Scholarship

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**Khalin Reid****Sanou Diallo****Alana Fanning**

Faculty Mentor(s):

Eileen Lagos**Taylor Forrest****Hannah Koontz**

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**

Faculty Mentor(s):

Hunter Brandon

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**

Faculty Mentor(s):

Courtney Burton

Laurie Bianchi

Dendrochronology: The Gateway to the Past**Siobhan Bowles**

Faculty Mentor(s):

Stockton Maxwell

Health Care In Rural Appalachia**Kayla Bishop**

Faculty Mentor(s):

Tayanaunique Simmons

Meghen Hebdon

Virginia Weisz

Accelerated Research Opportunities Showcase

3:00-4:30 PM

Heth 014

**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 Harasink****Rachel Scott**

Faculty Mentor(s):

Morrigan Duncan**Amanda Chappell**

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 Tippet****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 Malmberg**

Faculty Mentor(s):

Sara O'Brien

Latinos in Higher Education: Overcoming Barriers 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 Mentors(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 Scarcity 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):

Eileen Lagos

Melinda Wagner

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

Crishauna Rolack**Cassandra Homick**

Ann Elliott

Anja Whittington

Developing and Validating an Implicit Measure of Attitudes Towards Pornography 2.0**Alex Latham**

Faculty Mentor(s):

Jordan Joyner

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**

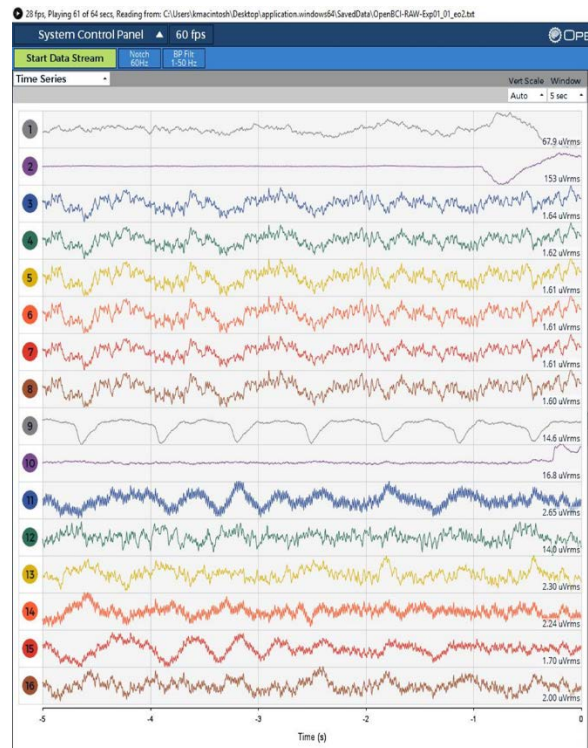
Faculty Mentor(s):

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**

Changing Views of Human Sexuality: An Overview of Alfred C. Kinsey's Research and its Impact on Society in the United States

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****Rachael Harasink****Rachel Scott**

Faculty Mentor(s):

Morrigan Duncan**Amanda Chappell**

Jenessa Steele

Nicholas Lee

The Effects of Experimenter Gender on Gender Role Attitudes**Sofia Martinez****Amanda Chappell**

Faculty Mentor(s):

Victoria Moncion

Jeffrey Willner

Do Attachment Styles Moderate Pluralistic Ignorance and Infidelity in Dating Relationships.**Rachel Given**

Faculty Mentor(s):

Shelby Barr

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

Psychology Poster Session I

5:30-6:30 PM

Heth 014

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****Ashley Thomason**

Faculty Mentor(s):

Eric Holtz**Charlotte Watkins**

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**

Faculty Mentor(s):

Gabriel Medley

Pamela Jackson

Everybody Does it: Pluralistic Ignorance within College Students' Attitudes about Academic Dishonesty**Elizabeth Giles****Victoria Staten**

Faculty Mentor(s):

Cameron Holmes

Jeffery Aspelmeier

Extraversion and Resilience as Protective Factors for PTSD Symptom Severity in Military Personnel**Jordan Joyner****Jennifer Lindamood**

Faculty Mentor(s):

Lauren Nehilla**Michael Grigsby**

Valerie Leake

Fecal Microbiota Transplantation: Implications in Alcohol Use**Rebecca Cain**

Faculty Mentor(s):

Dayna Hayes

Does Conscientiousness Moderate Pluralistic Ignorance in Academic Cheating?**Breanna Boyd****Katiana Ford**

Faculty Mentor(s):

Logan Barr

Jeffery Aspelmeier

Psychology Poster Session I
5:30-6:30 PM Heth 014

Mary Whiton Calkins

Elizabeth Cottrell

Jeremiah Burkhart

Ian Evans

Faculty Mentor(s):

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

Faculty Mentor(s):

Alyson Faires

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 Stres

Melanie Vandyke

Faculty Mentor(s): Jenessa Steele

Alan Berry

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****Brittani Parr**

Faculty Mentor(s):

Shatlyn Ayers

Erin Kerfoot

Perceived Organizational Support and Turnover Intention Moderated by Person Organization Fit**Mitchell Camerano**

Faculty Mentor(s):

Ashley Sprinkle

Jenessa Steele

Ben Biermeier-Hanson

Personality, Workaholism, and Burnout: A Moderated Mediation**Robert Wellman**

Faculty Mentor(s):

Hau Tuang

Ben Biermeier-Hanson

Jenessa Steele

Pluralistic Ignorance and Revenge in Relationships**Sara Hinkle****Thomas Moses**

Faculty Mentor(s):

Samantha Lamp

Jeffery Aspelmeier

Pluralistic Ignorance in Revenge and Friendship**Katelyn Brown****Shermaine Garland**

Faculty Mentor(s):

Alexa Barnett

Jeffery Aspelmier

Political Attitudes Moderate Pluralistic Ignorance within Ethnic Attitudes**Amber Daubenspeck****Chyanna Jones**

Faculty Mentor(s):

Jasmine Sandozz

Jeffery Aspelmeier

Politically Out-of-the Loop: Feelings of Exclusion between In and Out-Groups.**Charles Woods**

Faculty Mentor(s):

Jacob Sowder

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):

Nicole Ray**Dorneya Halatai**

Thomas Pierce

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):

Rachael Harasink**Hannah Parrish**

Pamela Jackson

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):

Rebecca Wiegmann

Thomas Pierce

The Role of Metacognition in Test Potentiated Learning**Marissa Momchilov**

Faculty Mentor(s):

Lesli Taylor

Kathleen Arnold

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****Ryan Fry****Rory McDaniel**

Faculty Mentor(s):

Quinn Brock**Michael Hess****Mark Meadows**

Rhett Herman

Scholar Citizen Initiative Showcase**ePortfolio**

4:00-6:00 PM

Heth 043

Luis Arias**Nicole Diambra****Ashley Haynes****Eileen Lagos****Cassidy McRorie****Ivan Thirion-Romo****Meredith Brubaker****Morgan Fielding****Alyssa Holland****Abigail Malmborg****Kaitlyn Reeves**

Production Technology Showcase
6:00-7:30 PM **Bonnie Auditorium**

Animal Shelter Provides Companionship - News Package

Stephen Mills

Faculty Mentor(s):

Devin Stubbs

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

Faculty Mentor(s):

Nicole Owens

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 Faculty Mentor(s):	Quinn Brock Rhett Herman
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Barrow, Alaska 2018

Ryan Fry Faculty Mentor(s):	Chris Mattson Rhett Herman
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Finite Difference Model of Sea Ice

Andre Shannon Faculty Mentor(s):	Rachel Myers Rhett Herman
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From Cart to C.A.R.T.T. - Compact Arctic Research Tech Transport

Ryan Fry Faculty Mentor(s):	Connor Parks Rhett Herman
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Initial Analysis of Barrow 2018 Temperature Data On/Above the Arctic Sea Ice

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

Mark Meadows Faculty Mentor(s):	Rhett Herman
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Seismic Studies of the Arctic Sea Ice

Connor Parks Faculty Mentor(s):	Hunter Brandon Rhett Herman
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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):

Amanda Blair**Kayla Hiatt****Alyssa Porterfield**

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):

Samantha Jones

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):

Karissa Aly**Giovanni Ruiz**

Karen Powers

Do Bird-Window Collisions Increase as Campus Buildings' Window Area Increase?**Lindsey Lee****Kristen Pitchke**

Faculty Mentor(s):

Kristopher Moore

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**

Faculty Mentor(s): Jason Davis

Andrew Ray

Cassady Urista

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

Faculty Mentor(s):

Laura Gruss

Effects of Nonylphenol on Behavior, Development, and Morphology of *Gambusia holbrooki*

Dharmindra Dulal

Faculty Mentor(s):

Sara O'Brien

Effects of Royal Jelly in Combination With Juvenile Hormone Agonists in *Gromphadorhina portentosa*

Taylor Hawkins

Aubree Marshall

Rachel Short

Kelly Chandler

Faculty Mentor(s):

Jason Davis

Investigating the Effects of Juvenile Hormone and Royal Jelly on *Lasiadora parahybana*

Drew Wolford

Faculty Mentor(s):

Jason Davis

Investigating the Feeding Behaviors of Passerine Birds

Conner Philson

Faculty Mentor(s): 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

Faculty Mentor(s):

Joyce Caughron

Jason Davis

The Passer Project: Inducing Neophobia Through Presented Stimuli via A Computer Enabled Feeder

Tyler Samuels

Faculty Mentor(s):

Jason Davis

Dogs and Owls and Pigs, Oh My! My Summer at the Hillview

Emily Brammer

Faculty Mentor(s):

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

Faculty Mentor(s):

Alex Atwood

Jason Davis

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

Attia Mohamed

Kristy Clark

Adam Weikel

Faculty Mentor(s):

Samuel Stowers

Marisa Dameron

Emilie Colon

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

Stephen Ruppert

Faculty Mentor(s):

Shanell Piercy

Bekah Shupe

Bob Sheehy

Biodiversity Inventory of Selu Conservancy Using Data Analysis

Ellen Agyemang

TJ Weatherford

Faculty Mentor(s):

Robert Agliam

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****Alexander Holder**

Faculty Mentor(s):

Danielle Cyburt**Katelynn Webb**

Sarah Redmond

Identification of Invertebrates of the Selu Conservancy Using DNA Barcoding**Emily Hansen****Eliot Alford****Tristan Owens**

Faculty Mentor(s):

Keyon Clanton**Ashley Lucas**

Bob Sheehy

Inflammatory Cytokines Down-Regulate CYP4F Enzyme Expression and Function in Human Liver Cells**Clay Branscom**

Faculty Mentor(s):

Austin Dean

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****Lindsey Lee****Sierra Noble**

Faculty Mentor(s):

Erin Morehart**Becca Stamm****Emilie Colon**

Sarah Redmond

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

Camille Hamway

Arana McAllister

Faculty Mentor(s):

Katelyn Bowden

Lindsey Graham

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

Blake Allred

Faculty Mentor(s):

Adam Allen

Mallie Giampocaro

Bob Sheehy

Using Agent-Based Modeling to Better Understand Predator-Prey Interactions

Russell Dixon

Faculty Mentor(s):

Kim Reuwer

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

Amy Baliya

Method Development for Quantitating Stevia in Consumer Products by HPLC**Jazmin Valentine**

Faculty Mentor(s):

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):

Caitlin Churn

Kimberly Lane

Organic Nanosponges: Novel Block Co-Polymers Prepared from ϵ -Caprolactone and DL-Lactide Designed to Remove Organic Pollutants from Aqueous Environments**Heidi Chicas**

Faculty Mentor(s):

Amy Baliya

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

Shawn Huston

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**Philipina 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**

Faculty Mentor(s):

Sarah Morgan

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**

Faculty Mentor(s):

Adrienne Reeder

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**

Faculty Mentor(s):

Hunter Childers

Parvinder Sethi

George Stephenson

Scanning Electron Microscopy of Devonian Millboro Black Shale and Implications for Groundwater Pollution and Paleoenvironmental Reconstruction**Samantha Farmer**

Faculty Mentor(s):

Parvinder Sethi

Hunter Childers

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.



Caroline Beard

Faculty Mentor(s):

Deborah McLaughlin

Zoe Coulombis

Faculty Mentor(s):

Deborah McLaughlin

Brenna Featherston

Faculty Mentor(s):

Deborah McLaughlin

Brigitte Manga

Faculty Mentor(s):

Deborah McLaughlin

Fiona Scruggs

Faculty Mentor(s):

Deborah McLaughlin

Nicole Teran

Faculty Mentor(s):

Deborah McLaughlin

Victoria Unterberger

Faculty Mentor(s):

Deborah McLaughlin