27th Annual
Student Engagement Forum

April 17 - 19, 2018

Bardford University
# 27th Annual Radford University Student Engagement Forum

## Schedule at a Glance

### Tuesday, April 17th

<table>
<thead>
<tr>
<th>Event</th>
<th>Location</th>
<th>Time</th>
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<tbody>
<tr>
<td>Sociology <em>Roots with Wings</em> Oral Session</td>
<td>Heth 022</td>
<td>12:45 pm-2:00 pm</td>
<td>3</td>
</tr>
<tr>
<td>Accelerated Research Opportunities Showcase</td>
<td>Heth 014</td>
<td>3:00 pm-4:30 pm</td>
<td>3</td>
</tr>
<tr>
<td>Art Censorship Panel</td>
<td>Heth 022</td>
<td>3:00 pm-5:00 pm</td>
<td>4</td>
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<tr>
<td>Honors Academy Capstone Showcase</td>
<td>Young 302</td>
<td>4:30 pm-7:00 pm</td>
<td>5</td>
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<tr>
<td>Honors Academy Capstone Showcase</td>
<td>Young Atrium</td>
<td>7:30 pm-8:30 pm</td>
<td>6</td>
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<tr>
<td>Interdisciplinary Oral Session</td>
<td>Heth 016</td>
<td>3:30 pm-5:00 pm</td>
<td>8</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>
<td>8</td>
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<tr>
<td>Psychology EEG Interactive</td>
<td>Heth Lobby</td>
<td>5:00 pm-7:00 pm</td>
<td>8</td>
</tr>
<tr>
<td>History Oral Session</td>
<td>Heth 016</td>
<td>5:30 pm-6:30 pm</td>
<td>9</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>
<th>Location</th>
<th>Time</th>
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<tbody>
<tr>
<td>Center for Gender Studies Keynote (Dr. Klotz)</td>
<td>Heth 022</td>
<td>3:30 pm-4:30 pm</td>
<td>12</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>
<td>12</td>
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<tr>
<td>English <em>Elsewhere</em> Panel</td>
<td>Heth 022</td>
<td>2:00 pm-3:00 pm</td>
<td>13</td>
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<tr>
<td>Psychology Poster Session I</td>
<td>Heth 014</td>
<td>5:30 pm-6:30 pm</td>
<td>14</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>16</td>
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<tr>
<td>Scholar-Citizen Initiative Oral Session</td>
<td>Heth 043</td>
<td>3:00 pm-4:00 pm</td>
<td>19</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>
<td>19</td>
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<tr>
<td>Production Technology Showcase</td>
<td>McGuffey 206</td>
<td>6:00 pm-9:00 pm</td>
<td>20</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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<th>Event</th>
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<tr>
<td>Geospatial Science Poster Session</td>
<td>CS Lobby</td>
<td>2:00 pm-3:15 pm</td>
<td>22</td>
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<tr>
<td>Biology Poster Session I</td>
<td>CS Lobby</td>
<td>3:30 pm-4:45 pm</td>
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<tr>
<td>Biology Oral Session I</td>
<td>CS M073</td>
<td>5:00 pm-6:30 pm</td>
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<tr>
<td>Biology Poster Session II</td>
<td>CS Lobby</td>
<td>6:30 pm-7:30 pm</td>
<td>28</td>
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<tr>
<td>Geology Poster Session</td>
<td>CS Lobby</td>
<td>5:00 pm-6:15 pm</td>
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<tr>
<td>Anthropological &amp; Forensic Sciences Poster Session</td>
<td>CS Lobby</td>
<td>5:00 pm-6:15 pm</td>
<td>32</td>
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<tr>
<td>Chemistry Poster Session</td>
<td>CS Lobby</td>
<td>5:00 pm-6:15 pm</td>
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<tr>
<td>Multidisciplinary Oral Session</td>
<td>CS M070</td>
<td>5:00 pm-6:00 pm</td>
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<tr>
<td>Chemistry/Geospatial Oral Session</td>
<td>CS M073</td>
<td>6:30 pm-7:30 pm</td>
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<tr>
<td>Biology Oral Session II</td>
<td>CS M073</td>
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### Monday and Tuesday, April 25th-26th

<table>
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<th>Event</th>
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<th>Time</th>
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<tr>
<td>Student Choreography Showcase</td>
<td>Peters Hall B112</td>
<td>7:30 pm-9:30 pm</td>
<td>36</td>
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</tbody>
</table>
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  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

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  Morrgan Duncan
Rachael Harasink  Amanda Chappell
Rachel Scott
Faculty Mentor(s): Jenessa Steele Nicholas Lee
**Accelerated Research Opportunities Showcase**

**3:00-4:30 PM       Heth 014**

**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

**The Impact of Isometric Muscular Contraction Combined with Static Stretching on Measures of Muscular Power**

Allan Flick  
Faculty Mentor(s): David Sallee

**The Influence of How Clothing Type Affects Decomposition**

Pearl Moore  
Faculty Mentor(s): Donna 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
4:30-7:00 PM  Young 302

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

Police of Naloxone
Chris Fleming
Faculty Mentor(s): Tod Burke Stephen Owens

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 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

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

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
7:30-8:30 PM Young Atrium

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

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

Realizing the Scarcity of African American Designers In the United States Fashion Industry
Sian Brown
Faculty Mentor(s): John Jacob
Honors Academy Capstone Showcase  
7:30-8:30 PM  Young Atrium

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-inist's 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 Cheeck  
Faculty Mentor(s): Donna 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       Eileen Lagos  
Faculty Mentor(s):  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       Crishauna Rolack  
Jennifer Madonia    Cassandra Homick  
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         Jordan Joyner  
Faculty Mentor(s):  Valerie Leake  

Makers & Innovators: Interactive Event  
5:00-7:00 PM        Heth Lobby  

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

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

Watch Your Brain Behave: Live EEG Monitoring  

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

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

Looking into the Past: The Experiences of Colored Troops in the Civil War
Kate Sundie Mason Mowbray
Corbin Morse
Faculty Mentor(s): Sharon Roger Hepburn

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

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

Rhetorical Analysis of the National Holocaust Monument for Canada
Sarah Derrick
Faculty Mentor(s):  Sandra French

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

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
Interdisciplinary Poster Session
5:30-6:45 PM    Heth 014

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. Anne 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
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   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

Is Cheating In Your Nature?
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  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  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  Connor Dunn
Lesli Taylor
Faculty Mentor(s): 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  Alan Berry
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
Brittani 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 Nicole Ray
Kyle Macintosh Dorneya Halatai
Cassandra Homick
Faculty Mentor(s): 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 Rachael Harasink
Kyra Johnson Hannah Parrish
Faculty Mentor(s): 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 Wiegmann
Rebecca Cain
Faculty Mentor(s): Thomas Pierce

The Role of Metacognition in Test Potentiated Learning
Marissa Momchilov Lesli Taylor
Faculty Mentor(s): Kathleen Arnold
Scholar Citizen Initiative Showcase: Oral Session
3:00-4:00 PM  Heth 043

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): Rhett Herman
Quinn Brock
Michael Hess
Mark Meadows

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

David Alcorta
Alex Atwood
Vanessa Calevro
Russell Dixon
Morgan Fielding
Alexandra Harris
Alyssa Holland
Eileen Lagos
Savannah Ludwig
Cassidy McRorie
Kaitlyn Reeves
Chelsie Townsend
Luis Arias
Meredith Brubaker
Nicole Diambra
Eden Durnil
Lindsey Graham
Ashley Haynes
Kelsey Johnson
Caleb Linkous
Abigail Malmborg
Cynthia Phonasa
Karen Taylor
De'Ahzha Williams
Production Technology Showcase  
6:00-8:00 PM  McGuffey 206

Animal Shelter Provides Companionship - News Package  
Stephen Mills  
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  
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
2:00-3:15 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
Geospatial Science Poster Session
2:00-3:15 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     Rick 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):

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):

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
Biology Poster Session I
3:30-4:45 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 Amanda Blair
Adam Weikel Kayla Hiatt
Whitney Clowser Alyssa Porterfield
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 Samantha Jones
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

Detection Efficiency of the Allegheny Woodrat (Neotoma Magister) in Virginia
Makayla Beckner
Faculty Mentor(s): Karen Powers

Do Bird-Window Collisions Increase as Campus Buildings' Window Area Increase?
Lindsey Lee Kristopher Moore
Kristen Pitchke
Faculty Mentor(s): Karen Powers
Biology Poster Session I
3:30-4:45 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

Effects of Trenbolone and Nithiazine on Breeding, Behavior and Morphology of Gambusia Holbrooki
Kristina Wade
Faculty Mentor(s): Sara O'Brien

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

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

Recycling Education Methods and Success Rates on Radford University's Campus
D'Avianna Love
Josh Nease
Christine Small

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

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

Student Experiences in Fire Ecology: A Follow-Up Assessment of an Experiential Learning Course
Codie Gleason
Ryley Harris
Faculty Mentor(s): Karen Powers
Biology Poster Session I
3:30-4:45 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 Diversity of the Selu Conservancy
Aubree Marshall  Austin Barker
Allanah Cross  Sir Nottingham
Faculty Mentor(s): Bob Sheehy
Biology Oral Session I
5:00-6:30 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  Jason Davis

Investigating the Effects of Juvenile Hormone and Royal Jelly on Lasiodora parahybana
Drew Wolford  Jason Davis

Investigating the Feeding Behaviors of Passerine Birds
Conner Philson  Jason Davis  Andrew Ray  Sarah Foltz

A Study of Antimicrobial Activity of Sangre de Drago
Kendalyn Hersh  Joyce Caughron  Jason Davis
Biology Poster Session II
6:30-7:30 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

Developing a Marketing Campaign for the Interdisciplinary Makerspace at Radford University
Erin Taylor
Faculty Mentor(s):  Jeremy Wojdak

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

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
Biology Poster Session II
6:30-7:30 PM CS Main Street Lobby

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

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

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

The Effects of Diet on the Evolution of Salivary Alpha-Amylase
McKenzie Schrank Jason Davis Cassidy Urista
Faculty Mentor(s):
Biology Poster Session II  
6:30-7:30 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 Allred  
Blake Allred  Mallie Giampocaro  
Faculty Mentor(s): Bob Sheehy

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

TBD  
Tristan Smith  
Faculty Mentor(s): Bob Sheehy
Geology Poster Session
5:00-6:15 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
Anthropological and Forensic Sciences Poster Session
5:00-6:15 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

The Influence of How Clothing Type Affects Decomposition
Pearl Moore
Faculty Mentor(s):
Donna 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
Chemistry Poster Session
5:00-6:15 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     Amanda Flint
Faculty Mentor(s):     Amy Balija

Method Development for Quantitating Stevia in Consumer Products by HPLC
Jazmin Valentine
Faculty Mentor(s):     Cindy Burkhardt

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     Caitlin Churn
Samathan Van Shufflin
Faculty Mentor(s):     Kimberly Lane

Organic Nanosponges: Novel Block Co-Polymers Prepared from âµ-Caprolactone and DL-Lactide Designed to Remove Organic Pollutants from Aqueous Environments
Heidi Chicas
Faculty Mentor(s):     Amy Balija
Chemistry Poster Session
5:00-6:15 PM CS Main Street Lobby

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 Cory Ashworth
Faculty Mentor(s): 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

Information Technology Poster Session
5:00-6:15 PM CS Main Street Lobby

Exploration of Using Technology and Pattern Recognition Algorithms to Improve Driver Habits
Lauren Rose
Faculty Mentor(s): Hwajung Lee

Multidisciplinary Oral Session
5:00-6:00 PM CS M070

Email Trouble: Secrets of Spoofing, the Dangers of Social Engineering, and How We Can Help
Bridget Opazo Don Whitteker
Faculty Mentor(s): Chen-Chi Shing

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

Predictive Models for Major League Baseball Free Agency (Honors Capstone)
Grant Anders
Faculty Mentor(s): Daniel Farhat
Chemistry/Geospatial Science Oral Session  
6:30-7:30 PM  CS M073

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

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

Relationship between Tree Diameter, Soil Type and Proximity to Water  
Grayson Davie  
Faculty Mentor(s): Richard Roth  Andrew Foy

Biology Oral Session II  
7:30-8:45 PM  CS M073

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

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