Fourth Annual
Winter CARD
Creative Activities and Research Days
Nov. 29-Dec. 2, 2022

RADFORD UNIVERSITY
Office of Undergraduate Research and Scholarship

radford.edu/wintercard
Welcome: It is my pleasure to welcome you to the 4th Winter Creative Activities & Research Days at Radford University. All week, there will be displays of students presenting the new knowledge they created while working closely with faculty and other students to solve wicked problems we face in society and on our planet.

We want to thank the faculty who provide these transformative experiential learning opportunities. We know the experience students get in tackling ambiguous processes and solutions transforms them well beyond learning skills in their disciplines, to include being more engaged in their workplace even decades later (Purdue Gallop Poll), developing critical thinking and communication skills which are the most desired Career Readiness skills by employers, and helping get that first job as 86% of employers indicate they are more likely to hire students who have conducted a research project with faculty.

We hope you find the students presenting this week as inspirational as we do in OURS and look forward to seeing the results of that inspiration in the years to come!

-With Highlander Pride, Dr. Joe Wirgau, Director of the Office of Undergraduate Research & Scholarship

Winter CARD Coordinators in OURS
Joe Wirgau, Director
Jennifer McDonel, Associate Director
Keishaun Williams, Administrative Assistant
Abby Hardbower, Graduate Assistant
Kate Mullins, Graduate Assistant
Cora Burt, Executive Student Assistant
Leah Ellis, Executive Student Assistant
Abbi Green, Executive Student Assistant
Grace Turman, Executive Student Assistant

The Following Individuals are Acknowledged for Their Contributions:
Jeff Aspelmeier, Chair, Department of Psychology
Ann Elliot, Director, Center for Gender Studies
Jonathan Mayer, Manager for Printing and Postal Services
Norma Riggins, Event Planning Manager, University Services
Kayla Toivonen, Graduate Assistant, Department of Psychology

About the Cover Art: The cover art is the creation of Cora Burt, a first year Visual Art major at Radford University.

The intention of my artwork is to evoke pleasant memories of winter, comfort, amity, and warmth in the viewer through the use of a simple, effective design. It was also a goal of mine to include visual elements that symbolize our university to illustrate my passion for Radford and pride as a Highlander. I am confident that the Winter CARD will be a positive experience for both undergraduate researchers and event attendees, similar to my experiences at Radford and within ARO thus far. This event provides students opportunities to exchange knowledge, express creativity, and develop academically, which further leads to success. I am quite eager to view the variety of my peers’ displays, and it is inspiring to see the effort that was put into their research and presentations. I firmly believe that the projects displayed this week will demonstrate the talent and potential of Radford’s undergraduate researchers, and I sincerely hope everyone enjoys the Winter CARD.
Schedule at a Glance:

**Tuesday November 29th:**
*10th Annual Psychology & Gender Studies Research Symposium*

- **Oral Presentations**: Heth 022 4:30 pm – 6:00 pm
- **Poster Presentations**: Heth 043 5:45 pm – 7:00 pm

- **Sustainable Cities Poster Session**: Heth 043 5:45 pm – 7:00 pm

**Wednesday November 30th:**

- **Art History Session 1**: McConnell Andrew Ross Gallery 9:00 am – 9:50 am
- **Story Maps of Rural Sociology**: Hemphill Hall 3020 11:00 am – 11:50 am
- **Art History Session 2**: Peters Hall C143 11:00 am – 12:15 pm
- **Art History Session 3**: McConnell Andrew Ross Gallery 2:00 pm – 2:50 pm
- **Interdisciplinary Poster Session 1**: Kyle Hall 340 2:00 pm – 2:50 pm
- **Interdisciplinary Poster Session 2**: Kyle Hall 340 3:00 pm – 3:50 pm
- **Citizen-Leader Presentation**: Kyle Hall 163 3:00 pm – 3:50 pm

**Thursday December 1st:**

- **Research Methods in Exercise, Sport and Health Education Poster Session**: Kyle Hall 340 8:00 am – 9:15 am
- **Sociolinguistics Poster Session**: Reed Hall Artis Atrium 11:00 am – 12:15 pm
- **Interdisciplinary Poster Session 3**: Kyle Hall 340 12:30 pm – 1:45 pm
- **Art History Session 4**: Kyle Hall 340 2:00 pm – 2:15 pm
- **Interdisciplinary Poster Session 4**: Kyle Hall 340 2:15 pm – 3:15 pm

**Friday December 2nd:**

- **Biology Oral Session**: Zoom Meeting ID: 961 9541 6029 11:00 am – 11:50 am
  Password to all Winter CARD Zoom links is: WinterCARD
- **Interdisciplinary Poster Session 5**: Reed Hall Artis Atrium 11:00 am – 11:50 am
- **Interdisciplinary Poster Session 6**: Reed Hall Artis Atrium 1:00 pm – 1:50 pm
The Department of Psychology's Tenth Annual Psychology and Gender Research Symposium will be held Tuesday, Nov. 29th. All graduate and undergraduate psychology student research and class projects are welcome, as well as projects from students involved in gender-related scholarship/research in any discipline.

Oral Presentations: 4:30 - 6:00 - Heth 022

Poster Presentations: 5:45 - 7:00 - Heth 043

Sustainable Cities Poster Session
Tuesday November 29th, 5:45 – 7:00 pm Heth Hall 043

**Sustainable Cities: Stockholm, Sweden**
Britani Albert Jack Koger Jannet Ortiz Antonio Russo
Faculty Mentor(s): Sarah Foltz

**Sustainable Cities: Karachi, Pakistan**
Kortnie Bernard Savannah Corbliss Bailey Stratton
Faculty Mentor(s): Sarah Foltz

**Sustainable Cities: Edmonton, Canada**
Catherine Bruffy Liliana Dailey Miranda Fatum
Faculty Mentor(s): Sarah Foltz

**Sustainable Cities: Dodoma, Tanzania**
Chantel Cook Brian Currin Josiah Lee Camryn Williford
Faculty Mentor(s): Sarah Foltz

**Sustainable Cities: Jakarta, Indonesia**
Erika Palmquist Tina Wilbur
Faculty Mentor(s): Sarah Foltz
Art History Session 1: Breakfast with Graphic Design  
Wednesday, November 30th 9:00-9:50 am in McConnell Hall, Andrew Ross Student Gallery

This is the opening reception for an installation of student artwork. Students chose a graphic designer whose work they admire and created a work of their own demonstrating the influence of that designer. Their creations will be on the wall and students will be present to discuss their work.


Art History Session 2: Is There an Ethics of Visual Art?  
Wednesday, November 30th 11:00 am-12:15 pm in Peters Hall, C143

This is a series of student presentations. Each student has been analyzing visual art works and grappling with the topic of ethics in visual art. They have chosen works like Gattaca, Frankenstein and other artwork that can be disturbing or not and analyzed them from the perspective of ethical reasoning.

Presenters: Sarah Ayuso, Anne Cassett, Devin Cheatwood, Haylee Keck, Ja’Cavian Lomax, Joshua Thompson, Abdulateef Umaru

Story Maps of Rural Sociology  
Wednesday November 30th, 11:00 – 11:50 am Hemphill Hall 3020

**Story Map County Profile of Loudoun County**  
Katie Bellomo  
Faculty Mentor(s): Aysha Bodenhamer

**Spotsylvania County Virginia County Profile**  
Aly Carneal  
Faculty Mentor(s): Aysha Bodenhamer

**Mecklenburg County Storymap**  
Ieshia Smith  
Faculty Mentor(s): Aysha Bodenhamer

**A Dive Into The Statistics Of Montgomery County, Virginia**  
Taylor Hill  
Faculty Mentor(s): Aysha Bodenhamer

**Montgomery County Profile**  
Wyatt Burdette  
Faculty Mentor(s): Aysha Bodenhamer

**The Sociology of York County, VA**  
Nick McCumsey  
Faculty Mentor(s): Aysha Bodenhamer

**Title**  
Cynia Taylor  
Faculty Mentor(s): Aysha Bodenhamer
Interdisciplinary Poster Session 1
Wednesday November 30th, 2:00 – 2:50 pm Kyle Hall 340

EcoBricks: Building a Solution to Our Plastic Addiction
Cora Burt           Grace Reynolds
Faculty Mentor(s): Joe Wirgau

What's Holding Women Back? An Analysis of Efforts to Create Equity for Women in STEM
Amber Gordon         Atlas Davies        Madison Drees         Nathan Cadle
Faculty Mentor(s): Joe Wirgau

Amber Waves of Grain: The Case Against Refined Grain Consumption
Kaitlyn Lytton       Rafe Kahler           Iyonnia Frazier       Gabrielle Bailey
Faculty Mentor(s): Joe Wirgau

Tackling The Opioid Crisis Using Cognitive Behavioral Therapy
Joshua Shimp         Gabriella Stinson
Faculty Mentor(s): Joe Wirgau

WITHIN A SCREEN CAME FORM: Experimental Formatting in Poetry Writing
Javen Blankenship
Faculty Mentor(s): Louis Gallo

The Effect of Footwear on Muscle Activation During a Deadlift
Joseph Majewicz
Faculty Mentor(s): Laura Newsome

The Impact of Hand Position in the Push Up on Abdominal and Lower Back Muscle Activation
Gracie Davis
Faculty Mentor(s): David Sallee

The Effects of Foam Rolling on Force Production Prior to Vertical Jumping
Camryn McClure
Faculty Mentor(s): David Sallee

An Examination of the Impact of Ankle Fusion Surgery in a Softball Athlete
Lauren Stuart
Faculty Mentor(s): David Sallee

Assessing Stream Health: All the Fun at Connelly's Run!
Brianna Bray         Bailey Stratton        Kortnie Bernard       Andrew Cardenas
Faculty Mentor(s): Jamie Lau
Interdisciplinary Poster Session 1
Wednesday November 30th, 2:00 – 2:50 pm Kyle Hall 340

How Might We Make Food More Accessible and Affordable
Marc Dugas
Faculty Mentor(s): Jane Machin

Qualified Opinions and Stock Prices
Jonathan Infantolino
Faculty Mentor(s): Yiwen Li

The Impact of Aphasia on Mental Health and Well-being: A Health Humanities Workshop
Delany Loonam
Faculty Mentor(s): Amy Rubens

The Current State of Abortion in Virginia
Bethany Pearsall Abigail Stuckey Salle Zewde
Faculty Mentor(s): Joe Wirgau

What's Behind the Mask: Early Impacts from Two Years of Masking
Morgan Shorrt Dylan Graman Christian Smith
Faculty Mentor(s): Joe Wirgau

Jeepers Creekers!: A Stream Assessment Of Tom's Creek In Blacksburg, Virginia
Elise Simmons Josiah Lee Brian Currin Kendra Cattanach
Faculty Mentor(s): Jamie Lau

How Deep Was the Water!? - Stream Assessment of Crab Creek
Kiersten Smith Elizabeth Smith Bianca Plowman Emma Hendrix
Faculty Mentor(s): Jamie Lau

Combining Biology and Psychology as an Undergraduate: My On-campus Internship in the Behavioral and Cognitive Neuroscience Lab
Katie Wheeler
Faculty Mentor(s): Karen Powers Dayna Hayes

Art History Session 3: Exploration of African Arts
Wednesday, November 30th 2:00-3:00 pm McConnell Hall, Andrew Ross Student Gallery

This is the opening reception for an installation of student artwork. Each student has recreated an African work and explored the context for that work, how it is used, and what it means to the culture where it exists.

Presenters: Ayiana Adkins, Jacy Brown, Mary Burnette, Raeven Harris, Irene Johnson, Jacob Petty, Heidi Pinnix, Sarah Rose, Heidi Ruiz Lopez, Evander Wade, Maegan Yates
Interdisciplinary Poster Session 2  
Wednesday November 30th, 3:00 – 3:50 pm Kyle Hall 340

A Comparative Study: Drug Law and Policy in the United States and the Netherlands  
Katie Oliver  
Faculty Mentor(s): Riane Bolin

Research on the Effect of the Fear of Missing Out and Smartphone Use in Young Adults  
Madison Mays  
Faculty Mentor(s): Jason Watson

Dobbs v. Jackson Supreme Court Case  
Victoria Dean Jason Snoexay Zoe Higley Leah Shumate Deon Cooper  
Faculty Mentor(s): Lori Elis

The Impact of Ankle Taping on Preactivation in the Quadriceps and Hamstrings  
Jacqueline Dorsey  
Faculty Mentor(s): David Sallee

Impact of Ankle Taping on Torque in the Lower Extremity  
Makayla Felts  
Faculty Mentor(s): David Sallee

Case Study Investigation Hip Lateral Rotation in Gait  
Kara Gray  
Faculty Mentor(s): David Sallee

How Does Kinesiology Tape Affect Muscle Activation in the Shoulder?  
Caitlin Hampton  
Faculty Mentor(s): David Sallee

The Impact of the Supreme Court Decision Castle Rock v. Gonzales  
Isabelle Mazariiego Maridel Samson Chandler Heiser  
Jessica Martinez Michelle Cabrera Annessah Ballou  
Faculty Mentor(s): Lori Elis

Will Reagan Bryce Degrood Nate Shaffer  
Faculty Mentor(s): Lori Ellis

Citizen-Leader Presentation  
Wednesday November 30th, 3:00 – 3:50 pm Kyle Hall 163

Citizen Leader Presentation through the Eyes of a Nursing Student  
Alyssa Meier  
Faculty Mentor(s): Jean Mistele
Research Methods in Exercise, Sport and Health Education Poster Session
Thursday December 1st, 8:00 – 9:15 am Kyle Hall 340

Does Exercise Impact Quality of Life in People with Diabetes?
Marcus Bowen
Faculty Mentor(s): Melissa Grim

Does Protective Equipment Decrease the Rate of Concussions?
Jass Brown
Faculty Mentor(s): Melissa Grim

Impact of Different Exercise Programs on Pain and Functional Abilities in Those with Knee Osteoarthritis
Brandi Clemons
Faculty Mentor(s): Melissa Grim

The Effectiveness of Manual Versus Neural Treatments for Plantar Fasciitis
Katie Davison
Faculty Mentor(s): Melissa Grim

The Impact of a Prevention Program for Adolescents in Rural Areas for Decrease in Vape Use
Sierra Davis-Sparks
Faculty Mentor(s): Melissa Grim

Impact of Aquatic Therapy on Behavioral and Psychological Symptoms in Dementia Patients
Jacqueline Dorsey
Faculty Mentor(s): Melissa Grim

Impact Of Aerobic Exercise Program Versus Combined Exercise Program On Symptoms And Quality Of Life In Lung Cancer Patients
Makayla Felts
Faculty Mentor(s): Melissa Grim

The Impact Of A Young-Adult-Led Type 2 Diabetes Program On The Quality Of Life Of African American Females
Summer Flood
Faculty Mentor(s): Melissa Grim

Impact of Early Occupational Therapy Intervention for Patients Diagnosed with Early Parkinson’s Disease
Caitlin Hampton
Faculty Mentor(s): Melissa Grim

Football Concussions And Spinal Cord Injuries
Denisha Hoosier
Faculty Mentor(s): Melissa Grim
Research Methods in Exercise, Sport and Health Education Poster Session  
Thursday December 1st, 8:00 – 9:15 am Kyle Hall 340

The Impact Of Exercise On Preventing Rotator Cuff Injuries In The Geriatric Population  
Claire Martin  
Faculty Mentor(s): Melissa Grim

The Impact of Hand-Strengthening Exercises on Handwriting Legibility in Children with Handwriting Difficulties  
Camryn McClure  
Faculty Mentor(s): Melissa Grim

Guillain-Barre Syndrome: A Deeper Understanding of the Etiology  
Skyler Petty  
Faculty Mentor(s): Melissa Grim

Consumption Of Whey Protein or Chicken Jerky Post Exercise Promotes Faster Muscle Growth In Deconditioned College Students  
Savannah Schmude  
Faculty Mentor(s): Melissa Grim

Case Study of Major And Minor League Baseball Pitchers’ Rate Of Return After Recovering From UCL Reconstruction Surgery  
Emma Skerman  
Faculty Mentor(s): Melissa Grim

An Investigation of Concussion Protocols and Concussion Symptoms Prior to Return to Play in NFL Players  
Trace Shepherd  
Faculty Mentor(s): Melissa Grim
**Food Insecurity Poster Session**  
*Thursday December 1st, 8:00 – 9:15 am Kyle Hall 340*

**Food Insecurity From a Highlander’s Perspective**  
Shailis Joplin  
Maia Grove  
Neil Bowman  
Aly Carneal  
Faculty Mentor(s): Allison Wisecup

**Are Radford Students Hungry?**  
Abigail Mills  
Lauren Shapiro  
Nicole Valyear  
Luke VonGoedert  
Faculty Mentor(s): Allison Wisecup

**Highlander’s Pantry Attack on Food Insecurity**  
Jackson Allen  
Nick McCumsey  
Amberly Lagedrost  
Taylor Hill  
Faculty Mentor(s): Allison Wisecup

**Addressing Food Insecurity and Resources to Aid Hunger**  
Jamar Banks  
Britney White  
Sarah Dispanet  
Devante Mosley  
Faculty Mentor(s): Allison Wisecup

**Sociolinguistics Poster Session**  
*Thursday December 1st, 11:00 am – 12:15 pm Reed Hall Artis Atrium*

**Sociolinguistics and the Ainu**  
Alexis Adams  
Faculty Mentor(s): Megan Elder-Taylor

**Sociolinguistic Differences of Chinese: Mandarin vs Cantonese**  
Jackson Adcock  
Faculty Mentor(s): Megan Elder-Taylor

**Disaster and Change in the Sociolinguistics of New Orleans**  
Kendra Bolen  
Faculty Mentor(s): Megan Elder-Taylor

**Holler Healthcare: A Look into Socioeconomics and the Appalachian Dialect**  
Hannah Christensen  
Faculty Mentor(s): Megan Elder-Taylor

**The Link Between Language and Ethnicity**  
Kemper Darby  
Faculty Mentor(s): Megan Elder-Taylor
"The Queen's English": Sociolinguistic Patterns of Received Pronunciation
Sarah Klein
Faculty Mentor(s): Megan Elder-Taylor

Which One Sounds Classy: "Je m'appelle or Non mwen se?": Attitudes Towards Haitian Kreyol vs. French
Leila Ledoux
Faculty Mentor(s): Megan Elder-Taylor

Mirame, I Can Speak Dos Idiomas Como Others: Code-Switching between Spanish and English among Children in School Settings
Heidi Ruiz-Lopez
Faculty Mentor(s): Megan Elder-Taylor

Got Some Bird Lime?: An Introduction to London's Cockney English
Matthias Todd
Faculty Mentor(s): Megan Elder-Taylor

Interdisciplinary Poster Session 3
Thursday December 1st, 12:30 – 1:45 pm Kyle Hall 340

The Impact of Unstable Surfaces on Abdominal Muscle Activation
Kelsey Moseley
Faculty Mentor(s): David Sallee

The Differences Between the Gastrocnemius and Soleus While Walking with Shoes on and Shoes off
Kate Strong
Faculty Mentor(s): David Sallee

The Impact of Pelvic Tilt on Pronation and Supination
Kennedy Thomas
Faculty Mentor(s): David Sallee

Attitudinal Information on the Trend of Women Working After Marriage and Before Kids
Grace Bondurant Kaitlynn Dean
Faculty Mentor(s): Alison Wisecup

The First Leg: Relating Morphological Differences in Garden Spiders (Argiope) Based on Proximity to Water
Aidan Bridge Michael Brown Chad Matthews Tony Davis
Faculty Mentor(s): Jamie Lau
Interdisciplinary Poster Session 3
Thursday December 1st, 12:30 – 1:45 pm Kyle Hall 340

The Historical Trends of the Belief That African Americans Do Not Have Enough Willpower to Pull Themselves Out of Poverty
   Raniya Bright     Avery Howell
   Faculty Mentor(s): Dr. Allison Wisecup

The Water Chemistry of Connelly’s Run Before and After Hurricane Ian
   Lucy Cooper   Olivia Smith   Johniece Jones   Emily Love   Armana Lulu
   Faculty Mentor(s): Jamie Lau

Historical Trends in Acceptance of Premarital Sex Across Various Demographics
   Griffin Davis   Caitlin Myers
   Faculty Mentor(s): Allison Wisecup

A Sociological Analysis of Historical Trends of the Belief that Men are Better Suited for Politics
   Emma Duncan   Lukas Hulan
   Faculty Mentor(s): Allison Wisecup

The Historical Trends and Attitudes of Those in Favor of Same Sex Marriage
   Hannah Foster   Skyler Bailey
   Faculty Mentor(s): Allison Wisecup

Historical Variation in Attitudes About Abortion Resulting from Rape
   Jessica Handy   Davis Smith-Corbin
   Faculty Mentor(s): Allison Wisecup

Attitudes about Single Parents Raising Children vs. Two Parents Raising Children
   Olivia Hunter   Jenny Brisendine
   Faculty Mentor(s): Allison Wisecup

Comparing Tree Cores of Lirodendron tulipifera with Historical Precipitation Values in Radford City
   Madeline Kemp   Jadyn Noel   Marley Krach   Maci Rhoades
   Faculty Mentor(s): Jamie Lau

Historical Trends In Attitudes About Marijuana Legalization
   Maria Massana   Matthew Gary
   Faculty Mentor(s): Allison Wisecup

Variations in Attitudes about Allowing a Racist to Become a Professor
   Kayla Morin   Michael Singer
   Faculty Mentor(s): Allison Wisecup

Trends in Attitudes in the Effectiveness of Single-Parenting
   Ella Selfe   Amelia Terry
   Faculty Mentor(s): Allison Wisecup
Art History Session 4: Lecture and Performance  
Thursday December 1st, 2:00 – 2:15 pm Kyle Hall 340

Questioning a Folio from a Medieval Manuscript  
Sarah Ayuso   Anne Cassett   Cierra Bird  
Faculty Mentor(s): Carlee Bradbury   David Zuschin

Interdisciplinary Poster Session 4  
Thursday December 1st, 2:15 – 3:15 pm Kyle Hall 340

Trends in American Attitudes Towards Welfare Spending  
Matthew Spitz   Amir Watts   Iverson Thomas   Connor Webber  
Faculty Mentor(s): Allison Wisecup

Trends in Support of Legalization of Marijuana by Sex, Race, Class, and Education  
Kaylee Mundy   Nicholas Robertson   Amber Grow   Taylor Austin  
Faculty Mentor(s): Allison Wisecup

Trends in the Attribution of Racial Inequality to Discrimination  
Keiko Kliesiewcz   Damion Jones   Beck Monachello   Assie Bunduka  
Faculty Mentor(s): Allison Wisecup

Trends in Support for Abortions  
Jaliya Moore   Emily Midkiff   Meredith Lawson   Angela Nguyen  
Faculty Mentor(s): Allison Wisecup

Trends in Confidence in Television or Media Companies  
Mariana Fernandez   Elizabeth Singleton   Jacquelyn Thomas  
Faculty Mentor(s): Allison Wisecup

Trends in Negative Attitudes Towards Single Parent Households  
Carrie Broughman   Zoria Hinton   Jason Neise  
Faculty Mentor(s): Allison Wisecup

Trends in Support of Same-Sex Relationships  
Hayley Bare   Macy Price   Max Rodriguez   Rachel LaFrancois  
Faculty Mentor(s): Allison Wisecup

Trends In Positive Views of Women Politicians  
Davis Kersey   Taylor Murach   Autumn Dillow   Aspen Ramsey  
Faculty Mentor(s): Allison Wisecup

World War II: Letters Home  
Addison Groth   Elizabeth Webb   Madison Cornell  
Faculty Mentor(s): Sharon Roger Hepburn
Interdisciplinary Poster Session 4
Thursday December 1st, 2:15 – 3:15 pm Kyle Hall 340

Resource Information for Domestic Violence Survivors
Kristen Cadden
Faculty Mentor(s): Eric Snow

Negating The Three Strike Rule With Rehabilitation
Kayla Dillemuth
Faculty Mentor(s): Eric Snow

Legalization of Marijuana in Virginia Policy
Collin Lawson
Faculty Mentor(s): Eric Snow

State Taxation of Marijuana
Drew McGee
Faculty Mentor(s): Eric Snow

Mental Health Co-responder Policy
Kaitlyn Sisk
Faculty Mentor(s): Eric Snow

Death Penalty
Dylan Updike
Faculty Mentor(s): Eric Snow

Police Corresponder Programs for Mentally Ill Offenders
Megan Weir
Faculty Mentor(s): Eric Snow

Avoiding Recidivism
Lynette Argueta
Faculty Mentor(s): Eric Snow

Investigating Common Diagnoses at an Animal Clinic
Hailee Shifflett
Faculty Mentor(s): Karen Powers

The Impact of Overcrowding on the Tourist Experience
Nicole Hankins
Faculty Mentor(s): Anita Zatori

Changing the RICO Act
Bryan Carr
Faculty Mentor(s): Eric Snow

Child Abuse: Co-Parenting
Kera Ford
Faculty Mentor(s): Eric Snow

Canadian Geese Management
Preston Martin
Faculty Mentor(s): Eric Snow

Law Enforcement Phone Policy
Bryce Owens
Faculty Mentor(s): Eric Snow

New Drug Courts Policy
Caroline Thompson
Faculty Mentor(s): Eric Snow

Preventing Wrongful Convictions
Mary Wellman
Faculty Mentor(s): Eric Snow

Decreasing Recidivism Rates
Christe Williams
Faculty Mentor(s): Eric Snow

How Gun Laws Affect Suicide Rates by Gun
Brandon Brokaw
Faculty Mentor(s): Eric Snow

Safety and Security Concerns at Music Festivals
Jazmia Glasgow
Faculty Mentor(s): Anita Zatori
Interdisciplinary Poster Session 4  
Thursday December 1st, 2:15 – 3:15 pm Kyle Hall 340

Trends In Agreement To Cohabitation Before Marriage
  Alivia Turner  Britney Morfo  Paige Huntington
Faculty Mentor(s): Allison Wisecup

Reducing Mass Incarceration by Implementing House Arrest for Nonviolent and First-Time Offenders
  Briana Hubbard
Faculty Mentor(s): Eric Snow

Muscle Activation of the Overhand/Underhand Throw in the Right Arm
  Doriann Hicks
Faculty Mentor(s): David Sallee

The Impact of Relaxation Therapy on Emotional Exhaustion Associated with Burnout in Emergency Room Physicians
  Rachel Bird  Gracie Davis  Jordan Logan  Virginia Ozolins  Richard Flemming
Faculty Mentor(s): David Brock

The Impact of Radiofrequency Ablation on Opioid Use in Patients with Musculoskeletal Pain in the Neck and Back
  Chris Maree  Makenzie Reno  MegAnne Gilmore  Ilana Tall
Faculty Mentor(s): David Brock

A 6-Week Public Health Education Program to Address the Prevalence of Vaping in Radford University Students: A Pilot Study
  Taylor Smoot  Kaya Easley  Dhara Seminario  Jada Andrew
Faculty Mentor(s): David Brock

The Impact of the FDA Black Box Warning on Fluoroquinolone Prescription Rates in a Southwestern Virginia Medical Practice
  Lauren Stuart  Kate Strong  Jayden White  Brad Norford
Faculty Mentor(s): David Brock

The Inclusion of Physical Therapists and Occupational Therapists in the Acute Treatment of Anorexia Nervosa and Recidivism Rates During Long-Term Follow-up
  Brittany Charon  Mackenzie Gardner  Kara Gray  Abigail Shiflett
Faculty Mentor(s): David Brock

Assessing Sleep Quality in a Convenience Sample of Female Collegiate Soccer Athletes: A Pilot Study
  Kristen Chick
Faculty Mentor(s): David Brock
Biology Oral Session
Friday December 2nd, 11:00 – 11:50 am Zoom Meeting ID: 961 9541 6029 Password: WinterCARD

Understanding the Molecular Tools to Study the Insect Gut Microbiome
Thomas Ausburne Willow Lehrer Kathleen Linsenman Lauren Luther
Kaylin Young Kaung Lin
Faculty Mentor(s): Chet Bhatta

The Comparison of Pollen Samples from Two Species
Abigail Holbrook Sydney Underwood Payton Poindexter Kathryn Saunders
Kaung Lin
Faculty Mentor(s): Chet Bhatta

Insect Community Assemblage in Roanoke City
Christian Housh Anida Sejtanic Victoria Stevens Kyle Chen
Victor Rodriguez Kaung Lin
Faculty Mentor(s): Chet Bhatta

Exploring Bee Taxonomy: Utilizing Family and Genus Level Keys
Tiannah Shifflett Mikeyia Brown Dakota Hurst Megan Crigger
Kinzie Blankenship Kaung Lin
Faculty Mentor(s): Chet Bhatta

Interdisciplinary Poster Session 5
Friday December 2nd, 11:00 – 11:50 am Reed Hall Artis Atrium

Investigating a Role for the CYP4F2 Enzyme in Hepatic Insulin Resistance
Duha Alshami Lamis Behaire
Faculty Mentor(s): Peter Christmas

Comparing Arthropod Diversity Among Different Levels of Urbanization, Radford City, VA, Autumn 2022
Keiko Klisiewecz Andrew Thorne Duane Finnie Temuri Mtvralashvili Nina Becksted
Faculty Mentor(s): Jamie Lau

It’s Raining Cats And Dogs
Lauren Printz
Faculty Mentor(s): Karen Powers

Do Anthropogenic Impacts Affect Soil Content In Radford City?
Miranda Wolfe Brooke Lampert Jenelle Aryee Jochebed Ntiamoah Elias Vance
Faculty Mentor(s): Jamie Lau

New Data from Selu Observatory
Nick Terehoff Dustin Kirby Kaleb Martin Will Nape
Jenna Petty Eniko Szabad Sam Williams
Faculty Mentor(s): Sandra Liss
Interdisciplinary Poster Session 5
Friday December 2nd, 11:00 – 11:50 am Reed Hall Artis Atrium

RU TERRA Project - Thermal Energy Radiation Reflection with Arduinos
Jonathon Halferty    Julia Buccola    Dom Del Grosso    Jared Hobbs
Bryan Lagunas        Kaleb Martin     Gene McGough      Will Nape
Bryce Pappas         Jenna Petty      Nick Terehoff
Faculty Mentor(s): Rhett Herman

Promoting Green Labs at Radford University
Emmalyn Brown        Miranda Brewster Elizabeth Cox
Faculty Mentor(s): Stockton Maxwell

The Future is Composting
Madison Canterbury   Danielle Hunter   Camden McGookin
Faculty Mentor(s): Stockton Maxwell

Green Gardens
Alyssa Estell        Sareena Sergent  Nora Mills
Faculty Mentor(s): Stockton Maxwell

Who’s Hungry?: Food Recovery on Campus
Stefani Stauffacher  Whitley Manns    Luc White
Faculty Mentor(s): Stockton Maxwell

Green Energy Initiatives at Radford University
Evan Wood            Anthony Cobbs
Faculty Mentor(s): Stockton Maxwell

Miami-Dade County Socio-Economic Coastal Flood Analysis
Randall Bohnert
Faculty Mentor(s): Stockton Maxwell

Interdisciplinary Poster Session 6
Friday December 2nd, 1:00 – 1:50 pm Reed Hall Artis Atrium

Functional Genomic Assays of the Bacteriophage Tortellini
Emily Anderson       Savannah Corbliss Cassandra Hash Rebecca Kravchick
Taylor May           Gabi Richards     Kiana Sterns     Bailey Stratton
Keyvanta Watson
Faculty Mentor(s): Tara Pelletier

Proximity between captive male Grey Mouse Lemurs
Catherine Bruffy     Patrick McKenney Aalyssa Litts
Faculty Mentor(s): Cassidy Urista
Interdisciplinary Poster Session 6
Friday December 2nd, 1:00 – 1:50 pm Reed Hall Artis Atrium

RU TERRA Project - Thermal Energy Radiation Reflection with Arduinos
Jonathon Halferty  Julia Buccola  Dom Del Grosso  Jared Hobbs
Bryan Lagunas  Kaleb Martin  Gene McGough  Will Nape
Bryce Pappas  Jenna Petty  Nick Terehoff
Faculty Mentor(s): Rhett Herman

Captive Grey Mouse Lemur Group Orientation
Leila Hamze  Tessa Vigilante  Keasia Clark
Faculty Mentor(s): Cassady Urista

Do the Girls Get Along? An Observational Study of Female to Female Interactions in the Chimpanzee Enclosure at the Asheville Zoo.
Antonio Russo  Kiana Sterns  Conner McCollum
Faculty Mentor(s): Cassady Urista

New Data from Selu Observatory
Nick Terehoff  Dustin Kirby  Kaleb Martin  Will Nape
Jenna Petty  Eniko Szabad  Sam Williams
Faculty Mentor(s): Sandra Liss

Coming of Age in the Gorilla Exhibit
Thrasher Whitehurst  Andrea Beverley  David Brown  Triston Perry
Faculty Mentor(s): Cassady Urista

Baseline Imagery for Wetland and Meadow Development at a Former Landfill Site
Garrett O'Hara  Bryce Blake
Faculty Mentor(s): Ryan Sincavage  Chelsea Peters

Comparison of Diabase via Thin Section from Nelson County, VA
Victoria Ralph
Faculty Mentor(s): Elizabeth McClellan

The Site of Gac in Poland
Zofia Witkowskia
Faculty Mentor(s): Cassidy Urista

Excavation of a Roman Villa in Dacia’
Sarah Mullis
Faculty Mentor(s): Jake Fox
See you next year!

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