Welcome to the Inaugural Celebration of Student and Faculty Collaborative Research!

Since 2016, Radford University has seen publications in research, scholarship, and creative activities by thirty-two faculty mentors and ninety-six undergraduate students. The Office of Undergraduate Research & Scholarship is honored to host this reception in honor of the highest level of dissemination of undergraduate research and their mentors who have provided these high impact, student experiences.

The schedule below will offer celebration and context to the great accomplishments of these successful student-faculty teams.

Welcome and Introduction:
Joe Wirgau, Director OURS

Student Perspectives:
Conner Philson, Researcher & BBB National Biological Honor Society President
Jessica Mundy, Researcher & Executive Student Assistant OURS

Administrative and Faculty Perspective:
Jeanne Mekolichick, Assistant Provost for Academic Programs
“Conditions on the Coefficients of a Reduced Cubic Polynomial such that It and Its Derivative are Factorable Over the Rational Numbers”
Mentor: Caleb Adams  Student: James Board

“The impact of alcohol and marijuana use on academic achievement among college students”
Mentors: Riane Bolin & Maggie Pate  Student: Jenna McClintock

“Visitation in prisons”
“Boot camps”
Mentor: Riane Bolin  Student: Christina Poole

“An Assessment of Tourism Sustainability in Abaco, Bahamas”
Mentor: Josh Carroll  Student: Melissa Brown

“Vespa amino acid mixture augments oxidative phosphorylation and induces oxidative stress, leading to mitochondrial membrane degradation and activating apoptotic signaling”
Mentors: Jason Davis & Sarah Redmond  Students: Attia Mohamed, Sam Stowers, Kristy Clark, Marisa Dameron & Elizabeth Grandy

“The PASSER Project: From Innovative Ecobehavioral Research to Genetic Algorithms as a Metric”
Mentors: Jason Davis, Andrew Ray, & Sarah Foltz  Student: Drew Wolford & Conner Philson

“The PASSER Project: Development of micro-computer enabled feeders and nest boxes for songbird ecobehavioral research.”
Mentors: Jason Davis, Andrew Ray, & Sarah Foltz  Student: Conner Philson & M. Ellery

“A noninvasive cutaneous delayed type hypersensitivity test is effective for evaluating the effects of handling on immunological stress levels in rats”
Mentors: Dayna Hayes & Sarah Redmond  Students: April Tingle, Diamond Cooper & Claudia Paniagua Ugarte,

“Peaceline Plus Evaluation Report AY 2015-2016”
Mentors: Joanna Hunter & Jeanne Mekolichick  Students: Bianca Dickerson, Kelsey Boyd, Aija Hector & Sam Montana

“Analysis of Pathfinding Heuristics in Hybrid Charging of Rechargeable Wireless Sensor Networks”

“A Low Cost Heuristic for Pathfinding to Charge Wireless Rechargeable Sensor Networks”
Mentor: Hwajung Lee  Student: Rory McDaniel
“Bracketing the Age of Neoproterozoic Glaciation in the Virginia Blue Ridge”
Mentor: Beth McClellan
Students: Alexa Harrison & Nicholas Schrecongost

“Eruptive Sequence and Processes in a Neoproterozoic Intracontinental Rift: The Mount Rogers Formation, SW VA”
Mentor: Beth McClellan

“Reassessment of Stratigraphy in a Neoproterozoic Intracontinental Rift: The Volcanogenic Mount Rogers Formation, SW VA”
Mentors: Beth McClellan & Jon Tso
Students: Alexa Harrison & Nicholas Schrecongost

“Sediment Size Analysis of Outer Banks Sand Samples”
Mentors: Beth McClellan & George Stephenson
Student: Ian Gammarino

“Boy Scouts Rock: Updating and Digitizing Legacy Geologic Information for the Blue Ridge Scout Reservation”
Mentor: Beth McClellan, George Stephenson & Robert Whisonant
Student: Antonio Conde

“Going "full retard": Teaching about disability through film”
Mentor: Darren Minarik
Student: Matthew Blevins

“Evidence Based Best Practices for Batterer Intervention Programs: A Report from the Field on the Realities and Challenges BIPs are Facing”
Mentors: Maggie Pate & Shelly Wagers
Student: Anne Brinkley

“Monitoring the status of gray bats (Myotis grisescens) in Virginia, 2009-2014, and potential impacts of White-nose Syndrome.”
Mentor: Karen Powers

“Insights into the foraging ecology of the invasive small Indian mongoose in the Caribbean, as revealed by stable isotope analysis”
Mentor: Karen Powers
Student: Brenna Hyzy

“Early wildlife conservation and education efforts in Virginia: Correspondence of A. Willis Robertson”
Mentor: Karen Powers
Student: Heather Custer & Shane Brandes

“Costs of immunity and their role in the range expansion of the house sparrow in Kenya”
Mentor: Dr. Sara O’Brien
Student: Laken Cooper

“Spark installation on clusters”
Mentor: Chen-Chi Shing
Student: H. Chao

“Email troubles: Secrets of spoofing, the dangers of social engineering and how we can help”
Mentor: Chen-Chi Shing
Students: Bridget Opazo & Don Whittleker
“Comparative analysis of stress on faculty and students based on salivary IgA”

“IgA You Assay? The Correlation between Sleep and Stress”

“Our Own Worst Enemy: Psychosomatic effects of perceived stress on IgA levels”
Mentor: Dr. Sarah Redmond

“ATP Production Increases with Addition of Varying Concentrations of Vespa Amino Acid Mixture (VAAM)”

“Negative impacts of vespa amino acid mixture (VAMM) on NAD+/NADH balance in yeast are neutralized by both antioxidants and 2,4-dinitrophenol”
Mentor: Sarah Redmond
Students: Marisa Dameron, Kristy Clark, Samuel Stowers & Attia Mohamed

“The internet of things requires enhanced security guidelines for the future”
Mentor: Chen-Chi Shing
Students: Erik Miller & Treemont Haga

“Conversation: The Effect of Learner-Centered Initiatives on Grade Distribution”

“Flipping Made Practical: Creating Quality Videos Before You Turn Gray”
Mentor: Joe Wirgau
Student: Jessica Mundy

“Dancing on the Edge”
Mentor: Ji-Eun Lee
Students: Zoe Coulombs, Kelly Noah, Alexis Miller, Sebrena Williams, Arianne Thompson, Caitlin Godsey, Brigitte Manga, Tori Lipnicky, Courtney McClendon, Katie Meeks & Caroline Beard

“American College Dance Association”
Mentor: Ji-Eun Lee
Students: Zoe Coulombs, Kelly Noah, Alexis Miller, Sebrena Williams, Arianne Thompson, Caitlin Godsey, Brigitte Manga, Tori Lipnicky, Courtney McClendon & Caroline Beard

“The Consulting Project”
Mentors: Wesley Young & Nora Reilly
Student: Sarah Coleman

“Fall Dance Festival”
Mentor: Ji-Eun Lee
Students: Matthew Robinson, Rachel Gattoni, Nicole Diambra, Claudia Anderson, Brenna Featherstone, Zoe Coulombs, Kelly Noah, Alexis Miller, Serena Williamson, Arianne Thompson, Caitlin Godsey, Celia Haber, Brigitte Manga, Denise Urban, Tori Lipnicky, Courtney McClendon, Katie Meeks & Caroline Beard
“Poe: Dark Genius, Troubled Life”
Mentor: Wesley Young
Students: Drew Callahan, Danielle Hankerson, Rebecca Haas, Michael McMullen, Christopher Phillips, Rebecca Redifer, Megan Ward & Clay Miller

“The Art of Design”
Mentor: Ken Smith & John O’Connor
Students: Paul Gartner, Danielle Glumsic & Alyssa Hardbower

“Cooch E. Whippet, or The Farce of Martin of Cambray”
Mentors: David Beach, Frank Napolitano, Amanda Kellogg & Robyn Berg
Students: Ben Sherman, Addie Pawlick & Brandon Duncan

“Full Chamber Recital: Mahidol University, Bangkok”
“Full Chamber Recital: Saigon International Guitar Festival”
Mentor: Robert Trent
Students: James Noel, Nicholas Drennan & Charles Wood

Acknowledgements

Much like a successful research project, this event takes prior knowledge and a team to be successful. I would like to personally thank co-organizer and OURS Executive Student Assistant Jessica Mundy for her work in helping to create this event; Mary Hagan in the Honors Academy for help with logistics; Dr. Jeanne Mekolichick for her tireless support of transformative high impact student experiences including undergraduate research; Sally Cox, Al Wojtera, Steve Arbury, and Zack Lyman for help in reserving and setting up this wonderful atrium; and lastly, Hilda Dickerson for help with catering.

With Highlander Pride,

Joe Wirgau, Director OURS