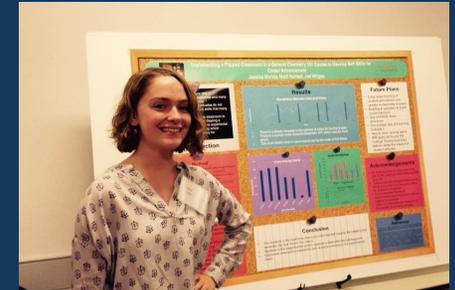


See You  
Next  
Year!



**4th Annual  
Summer Research  
Celebration**

October 11, 2016

Bonnie Auditorium

11:00—5:00



# Acknowledgments

## **Faculty Mentors:**

Dr. Brooke Blanks, Dr. Donna Boyd, Dr. Joy Caughron, Dr. Jay Caughron, Dr. Jason Davis, Dr. Jake Fox, Dr. Tim Fuhrer, Dr. Georgia Hammond, Dr. Kim Lane, Dr. Beth McClellan, Dr. Chris Monceaux, Dr. Sara O'Brien, Dr. Nora Reilly, Dr. Skip Watts, Dr. Jeremy Wojdak Dr. Joe Wirgau

## **OURS Graduate Assistants:**

Kara Daniel  
Katelynn Sims

## **OURS Executive Student Assistant**

Jessica Mundy

## **Honors Academy Administrative Assistant**

Mary Hagan

## **Event Planning Manager**

Sally Cox

## **Members of the OURS Advisory Committee:**

Roann Barris, Debora Bays, Corey Cassidy, Niels Christensen, Tom Cruise, Devin Dausin, Jason Davis, Abhay Kaushik, Beth McClellan, Stephen Owen, Candice Small

We would love to hear what projects are underway on campus, what challenges exist for expanding current work with undergraduates, and how OURS can support your efforts! OURS can be contacted at [ours@radford.edu](mailto:ours@radford.edu) or 540-831-7203 and is located in Russell 017. To learn more visit our website ([www.radford.edu/ours](http://www.radford.edu/ours)).

Sincerely,  
Joe Wirgau  
Director of the Office of Undergraduate Research and Scholarship



## Schedule of Events

2:00—3:00pm	RARE	<i>Radford Amazonian Research Expedition</i>
3:00—3:15pm	Jacob Wroten	<i>Synthesis and Screening of Central Nervous System Inhibitors Towards the Development of medications Aimed at Mitigating the Causes of Seizures</i>
3:15—3:30pm	Lauren Hines	<i>Synthesis of 1,2-disubstituted Epoxides for use in Regioselective Nucleophilic Openings. A New Route to 2-Aminoalcohols</i>
3:30—3:45pm	Nicholas Schrecongost	<i>Bracketing the Age of Neoproterozoic Glaciation in the Virginia Blue Ridge</i>
3:45—4:00pm	Sarah Rainey	<i>REU at UGA: How well does a simple model accurately account for complicated scenarios involved in an infectious disease outbreak, such as Ebola?</i>
4:00—4:15pm	Abigail Malmborg	<i>Impact of the Agricultural Pollutant Trenbolone on Fish Development</i>
4:15—4:30pm	Holly Rindorf	<i>Analyzing the Arsenic Output of Environmental Bacteria from the Brinton Arsenic Mine</i>
4:30—4:45pm	Marta Paulson	<i>Microscopic Comparison of Perimortem Blunt Force Trauma and Postmortem Bone Breakage in Forensic Death investigations</i>
4:45—5:00pm	Heidi Warner	<i>RA Engagement and Student Retention</i>

## Welcome to the 4th Annual Summer Research Celebration!

This past summer, nineteen amazing student-faculty collaborative projects were funded through the Summer Undergraduate Research Fellowships (SURF) program. Today they will get the opportunity to tell their stories and accomplishments. We are grateful for your participation in today's events and hope that they inspire you to achieve similar results, adding to the knowledge and work in your fields of study!

### SURF Program

The SURF program aims to foster a community of undergraduate research and engaged scholarship during the summer months at Radford University. The program funds a variety of projects where students engage in an original, intellectual, or creative contribution to a discipline. To find about applying to be part of next summer's program contact [ours@radford.edu](mailto:ours@radford.edu) or visit our website at <http://www.radford.edu/ours>

### Office of Undergraduate Research and Scholarship

The Radford University Office of Undergraduate Research and Scholarship (OURS) provides support to campus projects across all disciplines. OURS supports undergraduate research, scholarship, and creative studies through fiscal support of student travel to present at conferences, printing of professional posters, mentoring students, the Summer Undergraduate Research Fellowship program, and programming including this event and the Student Engagement Forum.

Today represents one of the more public opportunities for OURS to interact with the Radford University community, and it is an honor to get to work with the students and faculty taking on the process of "going where no one has gone before." OURS would like to thank everyone involved with today's events and emphatically say that it is a privilege to get to work with and support your work!

## Schedule of Events

11:00—11:15am	Hans Voll	<i>Thermal Conductives for Several Different Soil Types in Southwest Virginia</i>
11:15—11:30am	Taylor Layton	<i>A mark-recapture study of the aquatic snail, <i>Helisoma trivolvis</i>, to understand the effects of parasitism on snail mortality</i>
11:30—11:45am	Kristy Clark	<i>Speciation of River Turtle in the Peruvian Amazon and the New River and Possible Association with the Prevalence of Salmonella</i>
11:45—12:00pm	Samantha Van Shufflin	<i>Mutagenic Analysis of B-Glucuronidase Bacterial Loop</i>
12:00—12:15pm	Skyler Carrell	<i>Physiological Mechanisms Modulating Sociality in Spiders</i>
12:15—12:30pm	Elise Roell	<i>Soil Variability in the Amazon to Better Identify New Archaeological Sites</i>
12:30—12:45pm	Miracle Davis	<i>One Fish, Two Fish, Light Fish, Dark Fish. Does Environmental Substrate Influence Fish Behavior and Color?</i>
12:45—1:00pm	Krista Johnston	<i>Degree of Food Insecurity Among Pre-service Teacher Candidates and Students at Radford University</i>
1:00—1:15pm	Rebecca Cox	<i>Presence of Erysipelothrix rhusiopathiae, Fish Handler's Disease, in the Peruvian Amazon</i>
1:15—1:30pm	Jessica Mundy	<i>Investigating the Building of Student Skills and Success through Classroom Pedagogy</i>
1:30—1:45pm	Abdullah Zulfiqar	<i>Water Loss at Mountain Lake by Generating Topographic and Thermal Maps with the Use of Unmanned Aerial Vehicles</i>
1:45-2:00pm	BREAK	

## RARE Experiences

The Radford Amazonian Research Expedition (RARE) helps students of all years and all majors to conduct their own original projects in the Peruvian Amazon rainforest. For more information, visit [www.radford.edu/rainforest](http://www.radford.edu/rainforest), [www.facebook.com/radfordrare](https://www.facebook.com/radfordrare), or email Dr. Jason Davis ([jdavis319@radford.edu](mailto:jdavis319@radford.edu))

2:00—3:00pm Radford Amazonian Research Expedition

