

13th Annual Salisbury University Student Research Conference

Friday, April 25, 2014

11:30am-1:30pm

Registration and Welcome Reception

Welcome from Provost Diane Allen

Performance by Squawkapella

Perdue Hall Atrium

1:30-2:45pm

Session 1: Oral Research Presentations

Henson Hall

3:00-4:15pm

Session 2: Oral Research Presentations

Henson Hall

4:30-5:45pm

Session 3: Oral Research Presentations

Henson Hall

6:00-7:30pm

Poster Session with Refreshments

Wicomico Room, Guerrieri Center

The Registration & Information table will be open:

11:30am - 1:30pm **Perdue Hall Atrium**

1:30pm – 4:30pm **Henson Hall Lobby**

5:00 pm - 6:00pm **Guerrieri Center, Wicomico Room entrance**

Salisbury University Student Research Conference
Friday, April 25, 2014, 11:30 a.m. – 7:30 p.m.
Brief Program Outline

Welcome: 11:30 – 1:30 Registration and Welcome Reception - Perdue Hall Atrium
 Welcome from Provost Diane Allen; Performance by Squawkappella

Session 1: 1:30 – 2:45 Oral Research Presentations in Henson Hall

<u>Panel</u>	<u>Room</u>	<u>Title</u>
1A	HS 103	Microbial
1B	HS 109	Reaction
1C	HS 111	Perceptions
1D	HS 113	Competition
1E	HS 211	Animalia
1F	HS 243	Perform

Session 2: 3:00 – 4:15 Oral Research Presentations in Henson Hall

<u>Panel</u>	<u>Room</u>	<u>Title</u>
2A	HS 103	Behavior
2B	HS 109	Politics
2C	HS 111	Worldly
2D	HS 113	Recall
2E	HS 211	Habitats
2F	HS 243	Agua

Session 3: 4:30 – 5:45 Oral Research Presentations in Henson Hall

<u>Panel</u>	<u>Room</u>	<u>Title</u>
3B	HS 109	Meaning
3C	HS 111	Freedom
3D	HS 113	Current
3E	HS 211	Identification
3F	HS 243	Sundry

Session 4: 6:00 – 7:30 Poster Session with Refreshments
Wicomico Room, Guerrieri University Center

Research Poster Displays, Refreshments, and Outstanding Research Mentor Award

11:30-1:30 Registration and Welcome Reception **Perdue Hall Atrium**

Welcome and Opening Remarks: Provost Diane Allen
Performance by Squawkapella

1:30-2:45 First Session of the Oral Presentations

1A Microbial

1:30-1:45 *Altering Growth Rates and Nutritional Qualities of Microalgal Feedstock with Symbiotic Bacteria*
Stephen Kelly

*Faculty Mentor – Mark Holland, Biological Sciences

1:50-2:05 *Determining antibacterial effects of plant-derived spices*
Melanie Weaver, Elizabeth Emmert, Christopher Briand

*Faculty Mentor – Elizabeth Emmert, Biological Sciences

1B Reaction

1:30-1:45 *Development of an efficient synthesis of the anti-migraine drug olcegepant.*
Melanie Goldstein

*Faculty Mentor – Stephen Habay, Chemistry

1:50-2:05 *Intramolecular Cyclization Reactions and the Synthesis of Pestacin*
Nick Perry

*Faculty Mentor – Seth Friese, Chemistry

2:10-2:25 *The major influence on student perceptions toward global climate change*
Victor Morales

*Faculty Mentor – Karl Maier, Psychology

1C Perceptions

- 1:30-1:45 *Wives Earning More than Their Husbands*
Karen Suckling
*Faculty Mentor – Hong Yao, Economics and Finance
- 1:50-2:05 *One wants to be emotional, both want to problem solve: Gender, coping style, and perceived stress during a cognitive stress task*
Lauren Anderson
*Faculty Mentor – Karl Maier, Psychology
- 2:10-2:25 *Resources and Programs for Families in Wicomico County: Perceptions of Need*
Victoria De Hoyos, Andrew Wilkinson, Harry Snoots, Courtney Cairns,
*Faculty Mentor – Michele Schlehofer, Psychology
- 2:30-2:45 *From Disdain to Esteem: An autoethnographical study on the socio-cultural views on disability in Africa and the US and how they facilitate accepting, dealing and living with a disability*
Wele Elangwe
*Faculty Mentor – Vitus Ozoke, Conflict Analysis and Dispute Resolution

1D Competition

- 1:30-1:45 *Can the Past Predict the Future?: The Xbox One and PlayStation 4*
Matthew Soellner
*Faculty Mentor – James Burton, Communication Arts
- 1:50-2:05 *A Statistical Analysis of Common Football Axioms*
Jeffrey Shiderly
*Faculty Mentor – Lori Carmack, Math and Computer Science
- 2:10-2:25 *Quidditch: Revolutionizing Sports Culture*
Alexandra Iannucci
*Faculty Mentor – James Burton, Communication Arts

1E Animalia

- 1:30-1:45 *A tail of two color morphs: Tail autotomization in striped and unstriped salamanders*
Eric Kalin, Alexa Grant, Matt Mignosa, Anne Gatch, Jared Lausen
*Faculty Mentor – Eric Liebgold, Biological Sciences
- 1:50-2:05 *Citizen Science and Diversity of Scarab Beetles across Maryland*
Elizabeth Bangert, Michael Burchett
*Faculty Mentor – Dana Price, Biological Sciences

2:10-2:25 *Thirty Years on the Lower Delmarva Peninsula: Understanding the Association Between Forest Birds and their Habitat*
Marshall Boyd, Joseph Gutkoska, Brady Travis
*Faculty Mentor – Ronald Gutberlet, Biological Sciences

2:30-2:45 *Aerial Shooting in Alaska: War on Wolves?*
Victoria Turner
*Faculty Mentor – Sarah Surak, Political Science

1F Perform

1:30-1:45 *Hopeless Wanderer: A Dedication from the Mind to the Stage*
Chelsea Chmel
*Faculty Mentor – Mary Norton, Theatre and Dance

1:50-2:05 *Music of Ancient Rome: How does it Relate to Us?*
Kassidy Korb
*Faculty Mentor – Leslie Yarmo, Theatre and Dance

2:10-2:25 *Punk Rock and Rebellion: Surviving the Troubles in Northern Ireland*
Mark Oberly
*Faculty Mentor – Kristen Walton, History

3:00-4:15 Second Session of the Oral Presentations

2A Behavior

3:00-3:15 *Fighting the Battle: The Impact of Queer Teen Suicide in the Media*
Thomas Williams
*Faculty Mentor – Bryan Horikami, Communication Arts

3:20-3:35 *Priming a Point: The Effect of Priming on Social Dominance Orientation*
Katherine Calloway
*Faculty Mentor – Mark Walter, Psychology

3:40-3:55 *Sexual Assault on Campus*
Lindsay McCoy
*Faculty Mentor – Adam Hoffman, Political Science

4:00-4:15 *Relationship Aggression on College Campuses*
Ashley Jeter, Rebecca Zimmerman
*Faculty Mentor – Timothy Dunn, Sociology

2B Politics

- 3:00-3:15 *THE ELECTION OF 1828: A CHANGING OF THE U.S. POLITICAL LANDSCAPE*
Victoria Patterson
*Faculty Mentor – Jeanne Whitney, History
- 3:20-3:35 *A Consideration in the Reform of Immigration Laws*
Greca Cortes
*Faculty Mentor – Carolina Bown, Modern Languages
- 3:40-3:55 *Speaking a lot and saying little: Rhetoric of the State of the Union*
John Plinke
*Faculty Mentor – Elizabeth Curtin, English
- 4:00-4:15 *The Election of 1824 and the Alleged Corrupt Bargain*
Christopher Anderson
*Faculty Mentor – Jeanne Whitney, History

2C Worldly

- 3:00-3:15 *Belize Study Abroad: An Exploration of Cross-Cultural Health Perspectives in Developed and Developing Countries*
Julia Howser
*Faculty Mentor – Lincoln Gibbs, Health and Sports Sciences
- 3:20-3:35 *Julius Caesar: Dictator, King, or Emperor*
John Penuel
*Faculty Mentor – Kevin Birch, History
- 3:40-3:55 *The Catch with Mary Tudor's Humanist Education*
Alexandra Fox
*Faculty Mentor – Kristen Walton, History
- 4:00-4:15 *The Unfortunate Shortcomings of the Second Italian-Ethiopian War: A Precursor to the Realities of the United Nations*
Adam Rudy
*Faculty Mentor – Joseph Venosa, History

2D Recall

- 3:00-3:15 *I understand what you're saying, but I don't want to believe you: The influence of personality on interpersonal interaction*
Christopher Stockus
*Faculty Mentor – Mark Walter, Psychology
- 3:20-3:35 *Have We Met? Biases in Facial Recognition*
Andrew Olah, Ashley Zitter
*Faculty Mentor – Mark Walter, Psychology
- 3:40-3:55 *Children's ability to report episodic memories of their own learning*
Lynley Meunier, Megan McComas, Jewellian Palencia, Danielle Michaels
*Faculty Mentor – Rhyannon Bemis, Psychology
- 4:00-4:15 *Music's Effects on Wordlist Recall: Investigation of Cross-Modal Processing*
Thomas Parrish
*Faculty Mentor – Meredith Patterson, Psychology

2E Habitats

- 3:00-3:15 *Change in Dung Beetle Communities Across Seven Counties of Maryland's Eastern Shore*
Patrick Simons
*Faculty Mentor – Dana Price, Biological Sciences
- 3:20-3:35 *Status Reassessment and Habitat Requirements of the Carpenter Frog (*Lithobates virgatipes*) in Maryland*
Jacqueline Darrow, Matthew Bowler, Ron Gutberlet
*Faculty Mentor – Ronald Gutberlet, Biological Sciences
- 3:40-3:55 *Behavioral Genetic Analysis of Spring Peeper (*Pseudacris crucifer*) Populations in Maryland and Louisiana*
Ashley Kobisk, Katelyn Blondino, Taylor Bevan, Nicholas Egan
*Faculty Mentor – Kimberly Hunter, Biological Sciences
- 4:00-4:15 *The Effects of Diverse Farming Practices on Dung Beetle Populations Across Maryland*
Kaitlyn Mitchell
*Faculty Mentor – Dana Price, Biological Sciences

2F Agua

- 3:00-3:15 *Effect of Hurricanes on Sea Surface Temperature*
Travis Bush
*Faculty Mentor – Darren Parnell, Geography and Geosciences
- 3:20-3:35 *Reeling in the Past: The Archaeology of Early Fish Hooks*
Mike Le
*Faculty Mentor – Elizabeth Ragan, History
- 3:40-3:55 *Stress and growth rates of Arctic charr at different growth temperatures as assessed by changes in the activities of metabolic enzymes*
Alexander Stuffer
*Faculty Mentor – Eugene Williams, Biological Sciences
- 4:00-4:15 *New records and morphological comparison of *Capsala pricei* and *C. poeyi* (*Platyhelminthes: Monogenea*) from white marlin, blue marlin, and sailfish of the western Atlantic Ocean.*
Laura Hopkins, Brittney Rogers
*Faculty Mentor – Ann Barse, Biological Sciences

4:30-5:45 Third Session of the Oral Presentations**3B Meaning**

- 4:30-4:45 *For All That: The Value of the Common in Robert Burns Poetry*
Asha Azariah-Kribbs
*Faculty Mentor – Lucy Morrison, English
- 4:50-5:05 *Breaking the Screen: The Impact of Gravity's Special Effects*
Emily Rukavina
*Faculty Mentor – James Burton, Communication Arts
- 5:10-5:25 *Film Style and the Communication of Meaning in Forrest Gump*
Lindsey Sapp
* Faculty Mentor – James Burton, Communication Arts
- 5:30-5:45 *Allen Research Project*
Artura Jackson, Hillary Daye, Aaron Burall
* Faculty Mentor – Kara French, History

3C Freedom

- 4:30-4:45 *The Cherokee Removal: Justice or Not?*
Daniella Bramble
*Faculty Mentor – Jeanne Whitney, History

- 4:50-5:05 *The Forgotten Labor Force: Indentured Servitude in Colonial Barbados 1627-1675*
Rachel Frock
*Faculty Mentor – Kristen Walton, History
- 5:10-5:25 *More Alive than Dead: Buried Wives in Lady Audley's Secret, Howards End, and Rebecca*
Alysha Allen
*Faculty Mentor –Lucy Morrison, English
- 5:30-5:45 *The Sick Rose: Blake's Declaration for Sexual Freedom*
Brooke Feichtl
*Faculty Mentor – Lucy Morrison, English

3D Current

- 4:30-4:45 *Do It Yourself: Todays Counterculture*
Katelyn Tashliski
*Faculty Mentor – Sarah Surak, Political Sciences
- 4:50-5:05 *The Green Party and the Democrats: Is American Liberalism as United as we Think?*
Steven Cename
* Faculty Mentor – Sarah Surak, Political Sciences
- 5:10-5:25 *Thinking Fast and Slow: A Heuristic Model*
Micheal Heeke, Lacount Togans
*Faculty Mentor – Larence Becker, Psychology
- 5:30-5:45 *The U.S. Federal Government has banned the Cure to Cancer*
Kaitlyn Johnson
*Faculty Mentor – Timothy Dunn, Sociology

3E Identification

- 4:30-4:45 *Genetic Variation and Female Mate Choice in Tungara Frog (Physalaemus pustulosus)*
Laurie Adler, Christina Bell, Adam Dunn, Austin Bryant, Tyler Bowling
*Faculty Mentor – Kimberly Hunter, Biological Sciences
- 4:50-5:05 *A Day at the Museum: The Exciting Life of a Curator*
Katherine Ballentine
*Faculty Mentor – Dana Price, Biological Sciences
- 5:10-5:25 *Heating up of Honeybees (Apis mellifera): is there a critical stage in order to detect respiration in the mitochondria of flight muscles?*
Ann Ascot

*Faculty Mentor – Stephen Gehrlich, Biological Sciences

5:30-5:45 *Identification and Characterization of WDR48 Mutants in Arabidopsis thaliana*
Heather Yerecic

*Faculty Mentor – Patti Erickson, Biological Sciences

3F Sundry

4:30-4:45 *An Analysis of African American Cemeteries on the Eastern Shore*
Colby Kish

*Faculty Mentor – Jason Boroughs, History

4:50-5:05 *Dynamics of a Double Pendulum with Isosceles Triangle Components*
Zachary Jackson, David Binkowski

*Faculty Mentor – Jeffrey Emmert, Physics

5:10-5:25 *Assessing Waste Management on the Municipal Level*
Alice Belt

*Faculty Mentor – Sarah Surak, Biological Sciences

5:30-5:45 *RNA Interference Knockdown of Wdr-20 in C. elegans*
Meagan Jezek

*Faculty Mentor – Patti Erickson, Biological Sciences

6:00-7:30pm Poster Session with Refreshments

Wicomico Room, Guerrieri University Center

Specimen Abuse: Beating a Drug Test

Emma Albrittain

* Faculty Mentor – Diane Davis, Health Sciences

A Computational Investigation of the Interactions Between Amino acids and SAM

Azita Aryan

* Faculty Mentor – Anita Brown, Chemistry

Salisbury University Bike-Friendly Campus: Spinning Spokes and College Folks

Emily Baqir, Olivia Wilcox, Jeanette Proakis, Jessica Warner, Kevin Zelaya, Brian Hofstetter

* Faculty Mentor – Chrys Egan, Communication Arts

An Investigation of the Acroporid Flatworm Predator

Megan Bock

* Faculty Mentor – Ann Barse, Biological Sciences

How much are you (critically) thinking in class? A content analysis of Teaching of Psychology interventions

Christian Bolgiano, Melissa Adkins, Victoria De Hoyos

* Faculty Mentor – Thomas Tomcho, Psychology

Edible Landscape: Growing Food Throughout the Salisbury Community

Wafaa Bounoua, Eric Delacruz, Erin Mainhart, Taylor Goebel, Brian Dandridge

* Faculty Mentor – Chrys Egan, Communication Arts

Understanding Hurricanes during El Nino and La Nina Events

Vincent Brown

* Faculty Mentor – Brent Skeeter, Geography and GeoSciences

Psychometrics Gone Wild! A Content Analysis of Test and Measurement Syllabi

Lauren Burk, Jacqueline Buswell

* Faculty Mentor – Charisse Chappell, Psychology

A Combinatorial Analysis of Hanon's Five Finger Exercises

Katherine Burris

* Faculty Mentor – Lori Carmack, Math and Computer Science

Praying at the Altar of Science

Jacqueline Buswell, Lauren Burk

* Faculty Mentor – Charisse Chappell, Psychology

Application of Shockwaves to Passing Lane Efficiency on Highways

Sarah Confrancisco, Charles Rusk, Katherine Murphy

* Faculty Mentor – Steven Hetzler, Math and Computer Science

Wicomico River Water Quality Indicators Relative to Streamflow

Lyle Cook

* Faculty Mentor – Judith Stribling, Biological Sciences

Attitudes Towards Traditional and Naturalized Lawns

Amanda Crawford, Kelly Beal, Earl Dyson

* Faculty Mentor – Tami Ransom, Environmental Studies

A Cry for Help: A Creative Intervention

Cristina De Avila

* Faculty Mentor – Rachel Buchanan, Social Work

Human Rights Abuses Against Women: Sexual Violence in Conflict Zones

Marney Erichsen

* Faculty Mentor – Timothy Dunn, Sociology

Comparing soil microbial activity in undisturbed cemetery soils to agriculture and suburban lawn soils in Wicomico County

Amanda Evans, Gloria Seho-Ahiabile, Elizabeth Emmert

* Faculty Mentor – Elizabeth Emmert, Biological Sciences

Evaluating the Effectiveness of Converting a Lawn Mower to Operate on Solar Energy

Rachel Flanagan

* Faculty Mentor – Mark Muller, Physics

Survival and Identification of Enterococci Bacteria found in Water Samples Collected from the Wicomico River

Kristin Gay, Lynsey Spring

* Faculty Mentor – Mark Frana, Biological Sciences

Claying around: Predation pressure on red-backed salamanders

Alexa Grant, Eric Kalin, Anne Gatch, Matt Mignosa, Jared Lausen

* Faculty Mentor – Eric Liebgold, Biological Sciences

Exploring Homeowner Interest in Establishing a Community Model for Residential Neighborhoods in Salisbury, Maryland

Rebecca Greene, Evan Heffner, Anne Stanley

* Faculty Mentor – Reema Persad-Clem, Biological Sciences

3GBH: Investigating the Functions of a Protein with a Known Structure

Sarah Gregory

* Faculty Mentor – Allison Dewald, Chemistry

Level of Sexual Victimization and Partnership with the Perpetrator Predicting Sexual and Relationship Satisfaction with a Current Partner

Alison Hallock

* Faculty Mentor – Suzanne Osman, Psychology

Are psychologists shortchanging science? The prevalence of controllable limitations in quasi-experimental designs

Amy Harrell, Catherine Calloway

* Faculty Mentor – Thomas Tomcho, Psychology

Exploring the Delmarva Gap through Phylogeographic Analysis of the Red-backed Salamander, Plethodon cinereus

Cheyenne Harris, Joseph Gutkoska, Ron Gutberlet

* Faculty Mentor – Ronald Gutberlet, Biological Sciences

Reptile and Amphibian Atlas on Maryland's Lower Eastern Shore: Progress Report from Somerset and Wicomico Counties

Stacy Helgason

* Faculty Mentor – Ronald Gutberlet, Biological Sciences

Theory is not just for psychology discipline researchers! Teaching researchers implicitly use theory too

Amanda Henning, Madeline Smith

* Faculty Mentor – Thomas Tomcho, Psychology

Comparison of Avian Blood and Buccal Swab DNA for Genetic Analyses

Megan Jezek, Aimee Dixon, Sarina Mossa, Zoya Shoukat

* Faculty Mentor – Eric Liebgold, Biological Sciences

Televised Child Pageants: Negative Psychological Effects, Millions of Viewers

Jessica Kelly

* Faculty Mentor – Lance Garmon, Psychology

Using GeoGebra to Teach Concepts in High School Mathematics

Kristen Kent

* Faculty Mentor – Donald Spickler, Math and Computer Science

Seasonal changes in the activity of lactate dehydrogenase in an estuarine fish, Fundulus heteroclitus

Andrea Korell

* Faculty Mentor – Eugene Williams, Biological Sciences

Marijuana, Salvia divinorum, and Synthetic Cannabis; Students' Knowledge and Perception on Psychoactive Drugs

Reka Kovacs

* Faculty Mentor – Cecilia Acocella, Psychology

Friends with Grass: A Survey of Lawns with Attitude

Knute Kraus, Greg Korvin, Luke Phipps, Lauren Bartlett

* Faculty Mentor – Chrys Egan, Communication Arts

Update update, read all about it: Other disciplines use Teaching of Psychology interventions to support their research

Emily Kulp, Lauren Anderson, Courtney Berry, Erin McLean

* Faculty Mentor – Thomas Tomcho, Psychology

Wildlife-Friendly Yard

Marissa Langelo, Mary Baughan, Nick Dimatteo, Dan Biggar, Alex Wolters

* Faculty Mentor – Chrys Egan, Communication Arts

Economic Freedom in Hong Kong

Erich Liebig

* Faculty Mentor – Marc Street, Management and Marketing

A Synoptic-Dynamic Analysis of Cases of Major Underestimation of the Forecast Uncertainty

Carlee Loeser

* Faculty Mentor – Darren Parnell, Geography and Geosciences

Annotated Checklist of the Birds of Deal Island Wildlife Management Area and Monie Bay National Estuarine Research Reserve

Eric Lynch, Megan Ramstrom, Ron Gutberlet

* Faculty Mentor – Ronald Gutberlet, Biological Sciences

Optimizing a Magnetic Pulse Accelerator

Samim Manizade, Sam Brown, Jake Ennerfelt

* Faculty Mentor – Mark Muller, Physics

Genetic Diversity of a peripheral population of Red-Backed Salamanders

Sarina Mossa, Tolani Akindele

* Faculty Mentor – Eric Liebgold, Biological Sciences

Utilizing Sonar Technology for Blind Navigation

Katherine Murphy, Marcus Schwarz

* Faculty Mentor – Jeffrey Emmert, Physics

Does Socioeconomic Status Predict Heart Rate Variability?

Alysa O'Brien

* Faculty Mentor – Karl Maier, Psychology

Is the Dystroglycan Complex in Vascular Cells A Therapeutic Target for Gene Delivery?

Zachary Rathbun

* Faculty Mentor – Victor Miriel, Biological Sciences

Maryland's Amphibian and Reptile Atlas: A Successful Example of Citizen Science

Melissa Ruck, Stacy Helgason, Michael Scott, Kevin Aikins, Ronald Gutberlet

* Faculty Mentor – Ronald Gutberlet, Biological Sciences

Rain Gardens: Slow It Down, Spread It Out and Soak It In

Sharona Russell, Brandon Woodrotte, Cynthia Harley, Martinique White, Kiara Taylor

* Faculty Mentor – Chrys Egan, Communication Arts

1 in 7 Billion: A Study on Perception of Individual and Community Environmental Efforts

Deborah Silver, Erin Ciaro, Heather Meek, Natalie King, Jennifer Roslon

* Faculty Mentor – Chrys Egan, Communication Arts

*Parasites of Invasive Lionfish (*Pterois volitans* and *Pterois miles*) Caught in the Atlantic Ocean off North Carolina and Florida*

Margaret Thomas

* Faculty Mentor – Ann Barse, Biological Sciences

Isomorphic Circulant Graphs and Applications to Homogeneous Linear Systems

Shealyn Tucker

* Faculty Mentor – Michael Bardzell, Math and Computer Science

Outstanding Research Mentor Award

The Salisbury University Student Research Conference Committee is pleased to announce the Outstanding Research Mentor Award at the poster session to be held from 6:00-7:30pm in the Wicomico Room (Guerrieri Center). This award celebrates faculty mentors who have proven excellent supervisors of student research or creative work. **The 2014 Outstanding Research Mentor Award Nominees are:**

Mr. William Burke – Information and Decision Sciences
 Dr. Lance Garmon - Psychology
 Dr. Dennis Leoutsakas – Communication Arts
 Dr. Eric Liebgold – Biological Sciences
 Dr. Scott Mazzetti – Exercise Science
 Dr. Susan McCarty - English
 Dr. Lucy Morrison - English
 Dr. Dana Price – Biological Sciences
 Dr. Michelle Schlehofer - Psychology
 Dr. Mark Walter - Psychology
 Dr. Kristen Walton - History
 Dr. Eugene Williams – Biological Sciences

Outstanding Student Research

Salisbury University's commitment to student research is evident in both the number and quality of the presentations at our annual student research conference. However, many of our students are being recognized for their work in off-campus settings. The following are highlights from Salisbury University students during the last year.

Student Publications

Andrea Becker published "Cleansing the Origami Dodecahedron of Thirds" in the NCUR 2013 Proceedings, to appear.

Ashley James published "Hostility and Social Support Explain Physical Activity beyond Negative Affect among Young Men, but not Women, in College in *Behavioral Medicine, 2014*.

Student Presentations

Alysha Allen presented "The Advent of the Masculinized Woman in Romantic Literature" at NCUR 2014.

Elora Amtower presented "Rime of the Ancient Mariner: Christianity's Incompatibility with Inherent Human Inquisition" at NCUR 2014.

Asha Azariah-Kribbs presented "Faeries and Visions: The Use of Medieval Conventions in Romantic Literature" at NCUR 2014.

Andrea Becker presented "Cleansing the Origami Dodecahedron of Thirds" at NCUR 2013.

Andrea Becker presented “Automated Data Fusion for Chromatographic Calibration and Prediction” at the 46th Annual American Chemical Society Southeast Undergraduate Research Conference, University of Tennessee, Knoxville, TN, January, 2014.

Hannah Benden presented “Darkness Lurking within William Blake’s Songs of Innocence” at NCUR 2014.

Amanda Biederman presented “Temperature and LDH activity in the Atlantic killifish” at NCUR 2014.

Amanda Biederman presented “Science 2.0: Evolution into a New Media World” at NCUR 2014.

William Castor presented “Comparability of a weightlifting accelerometer to an infrared photocell timing system during repeated 1kg drop trials” at NCUR 2014.

Steven Cename presented “Shades of Green and Blue: An examination of the Relationship between the Democratic Party and the Green Party in America” at NCUR 2014.

Hillary Daye and Artura Jackson presented “Allen Research Project” at NCUR 2014.

Victoria DeHoyos presented “Community-university research collaborations: Partnerships for social justice and community betterment,” along with co-authors Michele Schlehofer (PSYC), Chrys Egan (CMAT), and Diana Parnell (Wicomico Partnership for Families and Children), at the Eastern Psychological Association annual meeting, March, 2014.

Nichole Egerton and Alexandria Kinder were coauthors on a poster presented at the international, biannual Conference on Emerging Adulthood, Chicago, Illinois, October, 2013.

Patrick Ferrara presented “Comparability of a weightlifting accelerometer to an infrared timing system during bench press exercise performed with different concentric muscle actions” at NCUR 2014.

Alexandra Fox presented ““Bloody” Mary, Quite Contrary: The Original Perspectives on Queen Mary I” at NCUR 2014.

Chantel Gerardo presented “Reconstructing ESL Sessions: A Trickster Approach” at the National Conference on Peer Tutoring in Writing [NCPTW] in Tampa, FL, November, 2013. She also won a prestigious La Beca Grant from NCPTW for her writing center scholarship.

Erika Gerhold presented “The Multiplicative Group Structure of the Group of Units of $\mathbb{Z}_p[x]/\langle f(x) \rangle$ where $f(x)$ is Reducible” at MathFest, August, 2013.

Erika Gerhold presented “The Multiplicative Group Structure of the Group of Units of $\mathbb{Z}_p[x]/\langle f(x) \rangle$ where $f(x)$ is Reducible” at Posters on the Hill, April, 2014.

Erika Gerhold presented “The Multiplicative Group Structure of the Group of Units of $\mathbb{Z}_p[x]/\langle f(x) \rangle$ where $f(x)$ is Reducible” at NCUR, April, 2014.

Marguerite Gilchrist presented “The effects of kinesiology tape on performance of the triceps surae through functional testing in collegiate athletes” at NRUC 2014.

Anthony Grayson presented “But We Are Different: The Loss of Gay Culture in the Face of Mainstream Assimilation” at NCUR 2014.

Thomas Green presented “The Human Geography of Assateague Island” at NCUR 2014.

Thomas (Elliott) Green presented “The Human Geography of Assateague Island, MD” at the Pennsylvania Geographical Society’s Annual Meeting, Oct. 25-26, Pittsburgh, PA. Elliott took third place in the student paper contest.

Sarah Jansson presented “Disciplinary Authority in Reflective Papers: Using Critically Reflective Lenses in the Field of Education” at the 25th Annual Mid-Atlantic Writing Centers Association Conference in Salisbury, April 2014.

Bernice Jere presented “How we should address aid in Zimbabwe, for a better tomorrow” at NCUR 2014.

Ashley Jeter and Rebecca Zimmerman presented “Relationship Aggression on College Campuses” at NCUR 2014.

Meagan Jezek presented “RNA interference knockdown of the *wdr-20* gene in *Caenorhabditis elegans*” at Capitol Science 2014, Arlington, VA, March, 2014.

Melissa Lutz presented “Expanding the Borders of the Writing Center: Tutor Training for Effectively Working with ESL/ELL Writers” at the 25th Annual Mid-Atlantic Writing Centers Association Conference in Salisbury, April 2014.

Megan McComas, Jewellianna Palencia, and Lynly Meunier presented a poster entitled, "I just learned that! Children’s ability to report episodic memories of learning" at the Eastern Psychological Association annual meeting, Boston, MA, March, 2014.

Matthew Mignosa presented “Student Melatonin Use and Knowledge” at NCUR 2014.

Edwin Miranda presented “Test-Retest Reliability of Tendo Weightlifting Analyzers With Recreational and Explosive Contractions During Bench Press Exercise” at NCUR 2014.

Cassandra Newcomb presented “Kawaii Ambassadors: Interpreting Cuteness and Femininity in Japanese and American Cultures” at NCUR 2014.

Brie Puican presented “A Sedimentological Study of Cores Extracted from an Existing Mill Pond in Wicomico County, MD” at the Pennsylvania Geographical Society’s Annual Meeting, Oct. 25-26, Pittsburgh, PA. Brie took second place in the student paper contest.

Elena Ramirez presented “Civil Conflict, Education, and Child Labor: A Look at Afghanistan” at NCUR 2014.

Michael Robben presented “Oxidative Stress Response in *Caenorhabditis elegans* after suppression of mrck-1 by RNA interference” at the Undergraduate Research Symposium in the Chemical and Biological Sciences at UMBC, Baltimore, MD, October, 2013. Michael’s presentation earned second prize in one of the Biochemistry and Molecular Biology poster sessions.

Michael Robben presented “Effect of mrck-1 Suppression by RNA interference on Cellular Oxidation Defense Responses in *Caenorhabditis elegans*” at Capitol Science 2014, Arlington, VA, March, 2014.

Michael Robben presented “RNA interference of mrck-1 in *Caenorhabditis elegans* to explore oxidative stress responses” at the American Society for Biochemistry and Molecular Biology undergraduate poster competition and at the annual meeting during the Experimental Biology conference, San Diego, CA, April, 2014.

Amanda Robles presented “The Salisbury Breast Health Project” at the Eastern Psychological Association annual meeting, March, 2014.

Amanda Tees-Bulgarelli presented “Rivalry, Betrayal, and Blood: The Relationship Between Lady Margaret Douglas, Countess of Lennox, and Queen Elizabeth I” at NCUR 2014.

Shealyn Tucker presented “Isomorphic Circulant Graphs and Applications to Homogeneous Linear Systems” at NCUR 2014.

Joseph Watso presented “Reliability of A Weightlifting Accelerometer During Repeated 1 kg Drop Trials” at NCUR 2014.

Heather Yerecic presented “Identification and Characterization of WDR48 Mutants in *Arabidopsis thaliana*” at Capitol Science 2014, Arlington, VA, March, 2014.

Student Awards, Honors, and other Activities of Distinction

Christina Bell, Austin Bryant, and Nicholas Egan’s research “When signals collide: the role of inter-signal interaction, individual variation, and perception on multimodal signaling” was supported by the Guerrieri Undergraduate Summer Research Program and was presented at the poster session held in August 2013.

Amanda Biederman’s research “Fish and Climate Change: How Will Different Species Respond Metabolically to Acutely Elevated Temperature?” was supported by the Guerrieri Undergraduate Summer Research Program and was presented at the poster session held in August 2013.

Matthew Bowler’s research “Status Reassessment and Phylogeographic Analysis of the Carpenter Frog (*Rana virgatipes*) on the Delmarva Peninsula” was supported by the NSF Bridges for SUCCESS Undergraduate Summer Research Program and was presented at the poster session held in August 2013.

Miracle Chike-Udeagha's research "Exploring the use of Android devices for education purposes" was supported by the Guerrieri Undergraduate Summer Research Program and was presented at the poster session held in August 2013.

David Eberius's research "Sensitivity Analysis of GP-GPU Technology in its Application to GIS Terrain Analysis" was supported by the NSF Research Experiences for Undergraduates (REU) Program and was presented at the poster session held in August 2013.

Miranda, E. Ferrara, P. and Watso, J. Mid-Atlantic Regional Chapter of the American College of Sports Medicine, College Bowl Finalist (2nd Place), November, 2013.

Chantel Gerardo served as Undergraduate Student Representative on the Mid-Atlantic Writing Centers Association Board.

Erika Gerhold's research was supported by the NSF Bridges for SUCCESS/Guerrieri Summer Research and was presented at the poster session held in August 2013. Subject, "The Multiplicative Group Structure of the Group of Units of $\mathbb{Z}_p[x]/\langle f(x) \rangle$ where $f(x)$ is Reducible"

Thomas Green's research "Ocean City and Assateague Island, the Twin Paradox: exploring radically different expressions of exploitation and preservation along coastal Maryland." was supported by the Guerrieri Undergraduate Summer Research Program and was presented at the poster session held in August 2013.

Sarah Gregory, Jennifer Kneas, Sarah Ober's research "Known Structure/Unknown Function: Biochemical Characterization of Putative Enzymes" was supported by the NSF Bridges for SUCCESS Undergraduate Summer Research Program and was presented at the poster session held in August 2013.

Joey Gutkoska's research "Analysis of Bird Populations and Habitat Changes in Delmarva Forests from 1979-2013" was supported by the Guerrieri Undergraduate Summer Research Program and was presented at the poster session held in August 2013.

Chris Helmey's research "Fractal Geometry Android Application" was supported by the NSF Bridges for SUCCESS Undergraduate Summer Research Program and was presented at the poster session held in August 2013.

Kristen Kent's research "Generalizing Conic Sections" was supported by the NSF Bridges for SUCCESS Undergraduate Summer Research Program and was presented at the poster session held in August 2013.

Jared Lausen's research "The Effects of Invasive Earthworms on Food Availability, Territory Size, and Nesting Success of Ground-Nesting Songbirds" was supported by the Guerrieri Undergraduate Summer Research Program and was presented at the poster session held in August 2013.

Amanda Lundstrom received Honors in the Junior/Senior Women's Musical Theater Category at the 2014 MD-DC National Association of Teachers of Singing (NATS) Student Auditions.

Amanda Lundstrom, Meredith Hazel, and Leah Wilson portrayed the roles of Fantine, Cosette, and Eponine, respectively, in the Salisbury Community Players' production of *Les Misérables* (Nov 2013). Brittany Eaton and Lauren Shockley earned spots in the ensemble of that production.

Samim Manizade was one of 60 students accepted out of 800 applicants to present at the Council on Undergraduates Research's (CUR) Posters on Capitol Hill event. Samim was the only student representative from a Maryland campus. In addition to presenting his research poster, Samim met with U.S. Congressman Andy Harris and staffers for U.S. Senators Ben Cardin and Barbara Mikulski as part of this event. Samim also presented this research at Spring 2013 Maryland/DC/VA Sectional Meeting of the Mathematical Association of America. His presentation was entitled "Computational Modeling of Robotic Arm Kinematics."

Katelyn Mitchell and Joseph Restein's research "Dung Beetle Abundance and Diversity on Organic and Conventionally Managed Cattle Pastures in Maryland, USA" was supported by the Guerrieri Undergraduate Summer Research Program and was presented at the poster session held in August 2013.

Colleen Moore's research "Building 3D Printer" was supported by the NSF Bridges for SUCCESS Undergraduate Summer Research Program and was presented at the poster session held in August 2013.

Katherine Murphy, Marcus Schwarz's research "Using Sonar to Assist the Visually Impaired" was supported by the NSF Bridges for SUCCESS Undergraduate Summer Research Program and was presented at the poster session held in August 2013.

Devin Osborne received 2nd Place in the Junior Men's Classical Music Category at the 2014 MD-DC National Association of Teachers of Singing (NATS) Student Auditions.

Brie Puican's research "The Fate of Millponds in Wicomico County-A Sedimentological Study" was supported by the Guerrieri Undergraduate Summer Research Program and was presented at the poster session held in August 2013.

Brady Travis' research "Analysis of Bird Populations and Habitat Changes in Delmarva Forests from 1979-2013" was supported by the NSF Bridges for SUCCESS Undergraduate Summer Research Program and was presented at the poster session held in August 2013.

Shealyn Tucker's research "Isomorphic Circulant Graphs and Applications to Homogeneous Linear Systems" was supported by the NSF Bridges for SUCCESS Undergraduate Summer Research Program and was presented at the poster session held in August 2013.

Leah Wilson received 1st Place in the Junior/Senior Women's Musical Theater Category at the 2014 MD-DC National Association of Teachers of Singing (NATS) Student Auditions. Ms. Wilson also recently won 3rd place at the Mid-Atlantic NATS Regional Auditions, earning the opportunity to compete at Nationals.

John Wixted received 1st Place in the Freshmen Men's Classical Music Category at the 2014 MD-DC National Association of Teachers of Singing (NATS) Student Auditions. Mr. Wixted

also recently won 3rd place at the Mid-Atlantic NATS Regional Auditions, earning the opportunity to compete at Nationals.

Acknowledgements

Posters, t-Shirts, & Program Cover: Jerry Okocha, Paul Flexner

Student Assistant: Elizabeth Dahlen

SU Student Research Conference Committee: Vinita Agarwal (Communication Arts), Yvonne Downie, (MBA, Perdue School of Business), Scott Mazzetti (Health and Sport Sciences), Dana Price (Biological Sciences), Dean Ravizza (Health and Sport Sciences), Kimberly Van Vulpen (Social Work), Christy Weer, Chair (Associate Dean, Perdue School of Business)

Technical Support: Todd Smith, Jessica Scott, Lisa Ball, Brian Lind, Samuel Gibson, Jason Rhodes, Paul Clements, Jennifer Caddell, Brooke Church, Melissa Thomas, Susan Brazer, Kathy Pusey, Christine Smith, Matt Hill, Cynthia Cornish

Administration Support:

Janet Dudley-Eshbach, President

Diane Allen, Provost

Melanie Perreault, Associate Provost

Clifton Griffin, Dean of Graduate Studies and Research

Karen Olmstead, Dean of the Richard A. Henson School of Science and Technology

Bob Wood, Dean of the Franklin P. Perdue School of Business

Maarten Pereboom, Dean of the Charles R. and Martha N. Fulton School of Liberal Arts

Cheryl Parks, Dean of the Samuel W. and Marilyn C. Seidel School of Education and Professional Studies

Beatriz Hardy, Dean of the Blackwell Library

SUSRC 2014 Volunteers: Crystal Dickerson, Career Services; Vicky Adeniran, University Dining Services; Amy Jones, Blackwell Library; Margo Kushner, Social Work; Carolina Bown, Modern Languages; Justina Heimdal, Health and Sport Sciences; Vera Street, Management and Marketing; Lori Carmack, Mathematics; Tylor Claggett, Economics and Finance; Les Erickson, Biological Sciences; Jessica Scott, Graduate Research; Yoojin Choi, Health and Sport Sciences; Karen McCabe, Social Work; Karen Rayne, English; Rhyannon Bemis, Psychology; Cecilia Acocella, Psychology; Dennis Leoutsakas, Communication Arts; Chrys Egan, Communication Arts; Vitus Ozoke, Conflict Analysis and Dispute Resolution; Leonard Arvi, Economics and Finance; Kristen Walton, History; Elizabeth Emmert, Biological Sciences; Lincoln Gibbs, Health and Sport Sciences; Mark Walter, Psychology; Jacques Koko, Conflict Analysis and Dispute Resolution; Brent Fedorko, Health and Sport Sciences; Lance Garmon, Psychology; Steven Hetzler, Math and Computer Science; Jill Caviglia-Harris, Economics and Finance; Kathie Wright, Information and Decision Sciences; Suzanne Osman, Psychology; Allison Dewald, Chemistry; Patti Vance, Information and Decision Sciences; Jing Quan, Information and Decision Sciences; Priscilla Davis, Academic Affairs; Ginger Steelman, Graduate Studies and Research; Laura Marinaro, Health and Sports Sciences; Beth Walsh, Graduate Studies and Research; Vanessa Collins, Graduate Studies and Research; Larence Becker, Psychology; Noel Habashy, Center for International Education; Donna Knopf, Graduate Studies and Research;

Soraya Doodoo, Sociology; Gaylord Robb, Blackwell Library; Stephen Ford, Blackwell Library; Lynn Astrab, Chemistry; Jim Forte, Social Work; Lacie Doyle, Graduate Studies and Research; Christina Camillo, Health Sciences; Terri Herberger, Graduate Studies and Research; Michelle Malinger; Delmarva Public Radio; Jim Burton, Communication Arts; Catherine Jackson, Communication Arts; Haven Simmons, Communication Arts; Karl Maier, Psychology; Wanda Perkins, Biological Sciences; Christopher Ahlstrom, Army ROTC; Judith Stribling, Biological Sciences; Tom Anderson, Theatre and Dance; Echo Leaver, Psychology.

**Thank you to all our presenters, mentors, volunteers,
support folks, and committee members!**

**See you at the 14th Annual Salisbury University Student
Research Conference in April, 2015!!!**