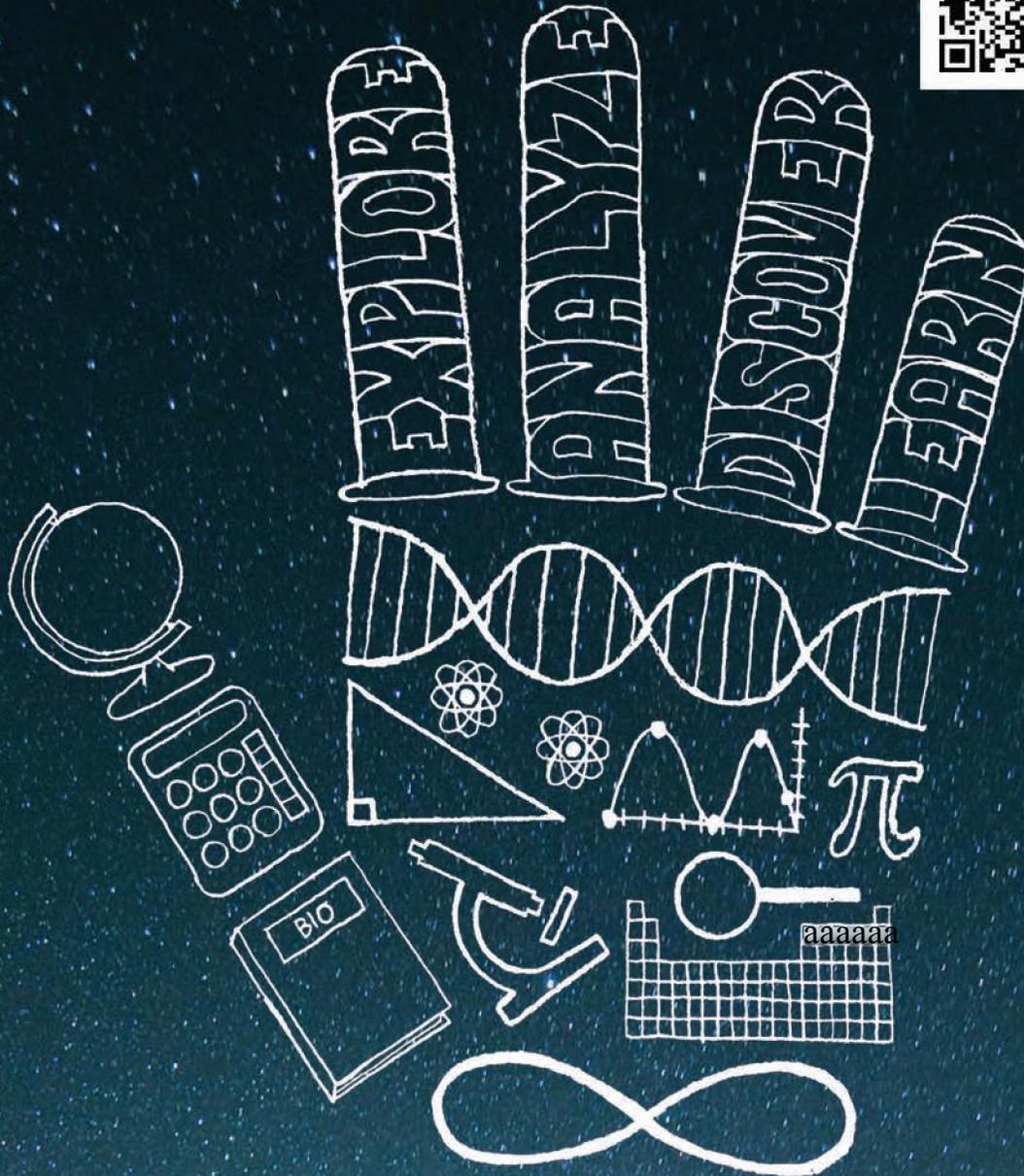


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# SUSRC

SALISBURY UNIVERSITY STUDENT RESEARCH CONFERENCE

**FRIDAY, APRIL 28, 2017 12:30 - 7:30 PM**

INTENT TO  
SUBMIT DEADLINE  
-MARCH 15, 2017



Salisbury University provides reasonable accommodations for students with disabilities. If you have a disability and need accommodations, please contact the University office or staff sponsoring the event at least 30 days in advance.

HENSON SCIENCE HALL &  
GUERRIERI ACADEMIC COMMONS,  
ASSEMBLY HALL

*16<sup>th</sup> Annual Salisbury University  
Student Research Conference  
Friday, April 28th, 2017*

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**Contents**

Conference Outline .....	2
I. Registration.....	3
II. Oral Presentation Sessions .....	3
§ Round Table Discussion Session 1:30 p.m. – 2:45 p.m.....	4
§ First Session 1:30 p.m. - 2:45 p.m.....	5
§ Second Session 3:00 p.m. - 4:15 p.m.....	8
§ Third Session 4:30 p.m. - 5:45 p.m.....	11
III. Poster Presentation Session .....	14
IV. Outstanding Research Mentor Award .....	26
V. Outstanding Student Research.....	27
VI. Acknowledgements .....	40



## **I. Registration**

**12:30 p.m.-1:30 p.m. Henson Science Hall Lobby**

### **Information Table Volunteers:**

*Dr. Tina P. Reid, Department of Nursing*  
*Dr. Suzanne Osman, Department of Psychology*  
*Karen Rayne, Department of English*  
*Dr. Jill Caviglia-Harris, Department of Economics*  
*Dr. Deneen Long –White, Health & Sport Sciences*

## **II. Oral Presentation Sessions**

**1:30 p.m. - 5:45 p.m. Henson Science Hall Lobby**

### **Information Table Volunteers, Oral Session/Back-up Panel Moderators:**

*Christina Camillo, Department of Health Sciences*  
*Dr. Elizabeth Emmert, Department of Biological Sciences*  
*Elizabeth Gertsch, Dining Services*  
*Celine Carayon, Department of History*  
*Dr. Sang-Eon Park, Department of Math and Computer Science*  
*Kristen Walton, Department of History*  
*Dr. Larence Becker, Department of Psychology*  
*Dr. Tammy Donaway, Franklin P. Perdue School of Business*  
*Priscilla Davis, Academic Affairs*  
*Dr. Jing Quan, Department of Information and Decision Science*  
*William Wolff, Art Department*  
*Dr. Diane Davis, Department of Health Sciences*  
*Dr. Mark Walter, Department of Psychology*  
*Dr. Louise Detwiler, Department of Modern Languages and Intercultural Studies*  
*Dr. Steve Hetzler, Department of Mathematics and Computer Science*  
*Dr. John Wenke, Department of English*  
*Dr. Jenny Toonstra, Department of Health and Sport Sciences*  
*Dr. Derya Kulavuz-Onal, Department of English*  
*Meghan East, Medical Laboratory Science Program*  
*Dr. Michael Lewis, Department of Environmental Studies*  
*Dr. Richard Hoffman, Department of Management and Marketing*  
*Dr. Jon-Philip Imbrenda, Department of Educational Specialties*

**Information Table Moderators, Oral Session/Back-up Panel Moderators (Cont.)**

*Dr. Toran Hansen, Conflict Analysis and Dispute Resolution*

*Dr. Eugene Williams, Department of Biological Sciences*

*Dr. Rhyannon Bemis, Department of Psychology*

*Dr. Mara Chen, Department of Geography and Geosciences*

*Dr. Lori Carmack, Department of Mathematics and Computer Science*

*Dr. Yuki Okubo, Department of Psychology*

*Dr. Jason McCartney, Department of Psychology*

*Dr. Dane Foust, Vice president of Student Affairs*

*Robin Evans, Executive Administrative Assistant of Student Affairs*

*Dr. Vitus Ozoke, Conflict Analysis and Dispute Resolution*

*Dr. Alessia Owens, Department of Social Work*

*Dr. Aaron Hogue, Department of Biological Sciences*

*Dr. John LaManca, Department of Health and Sport Sciences*

*Dr. Michael J. Bardzell, Department of Mathematics and Computer Science*

*Dr. Lance Garmon, Department of Psychology*

*Dr. Eric Rittinger, Department of Political Science*

*Dr. Patti Erikson, Department of Biological Sciences*

*Thomas Anderson, Department of Theatre and Dance*

*Dr. Jessica Clark, Department of Biological Sciences*

*Laura Marinaro, Department of Health and Sport Sciences*

**▪ Round Table Discussion Session 1:30 p.m. - 2:45 p.m.****Rd1 Round Table 1****Henson Hall 123*****Moderator: Dr. Jon-Philip Imbrenda, Education Specialties*****1:30 – 2:45 The Wife of Bath as Anti-Feminist****Miranda Wylie****\*Faculty Mentor – Christopher Vilmar, English**

▪ **First Oral Session 1:30 p.m. - 2:45 p.m.**

**1A Biological Analysis**

**Henson Hall 103**

*Moderator: Dr. Jenny Toonstra, Department of Health & Sport Sciences*

1:30-1:45 Isolation, Identification, and Characterization of Local Wild Yeasts for Use in Fermentation

**Lauren DeLong**

\*Faculty Mentor - Les Erickson, Biological Sciences

1:50-2:05 Influence of AKT/mTOR Signaling during Concurrent Training on Sport Performance

**Ben Meister**

\*Faculty Mentor - Scott Mazzetti, Health & Sports Sciences

2:10-2:25 Toward Bacterial Expression of KHDC1: a Human Protein Potentially linked to Diabetes

**Kyle Billings**

\*Faculty Mentor - Alison Dewald, Chemistry

2:30-2:45 Synthesis of a Tetra-Aza Ligand for the Separation of Lanthanides from Actinides

**Rachel Stadler, S. Labb** \*Faculty Mentor - Seth Friese, Chemistry

**1B Language**

**Henson Hall 109**

*Moderator: Dr. Derya Kulavuz-Onal, Department of English*

1:30-1:45 War of the Wor(l)ds: Language, Worldview, and U.S. Presidents

**Brandon Nardone**

\*Faculty Mentor - Elizabeth Ragan, History

1:50-2:05 Righting Historical Truths: A Linguistic Account of Memory and Record in Rural Rosenwald Schools

**Karen Prengamen**

\*Faculty Mentor - Anjali Pandey, English

2:10-2:25 Caribbean Englishes: An Argument for Linguistic Legitimacy

**Shauna-Kaye Jones**

\*Faculty Mentor - Derya Kulavuz-Onal, English

2:30-2:45 Why not only TOEFL? An Analysis of Test Bias in TOEFL from Chinese Perspective

**Lai Xu**

\*Faculty Mentor - Derya Kulavuz-Onal, English

**1C Numbers****Henson Hall 107***Moderator: Dr. Steve Hetzler, Department of Mathematics and Computer Science*

1:30-1:45 A MetaAnalytic Examination of Psychological Intervention Effect Sizes

**Chelsey Clement**, J. Lilly, R. Robinson, N. McAleer, S. Maio, A. Carmack

\*Faculty Mentor - Barbara Wainwright, Math &amp; Computer Science

1:50-2:05 A Sharp Upper Bound on the k-Color Connection Number of a Graph

**Adam Jump**

\*Faculty Mentor - Alexander Halperin, Math &amp; Computer Science

2:10-2:25 Wehmeuller n-Tuples: An Extension of Pythagorean Triples

**Richard Quackenbush** \*Faculty Mentor - Lee May, Math & Computer Science

2:30-2:45 Using Technical Analysis and Monte Carlo Methods to Predict Price Movement of the S&amp;P 500 Index

**Sarah Hayden**, G. Malcom \*Faculty Mentor - Lori Carmack, Math & Computer Science**1D Current Issues****Henson Hall 243***Moderator: Dr. Mark Walter, Department of Psychology*

1:30-1:45 Salisbury University Campus Climate Survey of LGBTQIA Students

**Molly Dyer**, CJ Welch \*Faculty Mentor - Michele Schlehofer, Psychology

1:50-2:05 The Unpredictable Forces of Male Sexual Desires in John Donne's 'The Flea' and John Wilmot's 'The Imperfect Enjoyment'

**Ojel Nduanya**

\*Faculty Mentor - Christopher Vilmar, English

2:10-2:25 Art for Social Change

**Martina Maya-Callen** \*Faculty Mentor - William Wolff, Art

2:30-2:45 Point Spread Markets as Unbiased Predictors of NFL Game Results

**Brian Gillespie**

\*Faculty Mentor - Brian Hill, Economics &amp; Finance

## **1E Poems, Plays & TV**

**Henson Hall 111**

*Moderator: Dr. John Wenke, Department of English*

1:30-1:45 Significance of Cain and his Mark within Beowulf

**Eaqan Chaudhry**

\*Faculty Mentor - Christopher Vilmar, English

1:50-2:05 Crossing Timelines with Walt Whitman

**Elizabeth Portner**

\*Faculty Mentor - John Wenke, English

2:10-2:25 Body Image and the Netflix Original Series Voltron: Legendary Defender

**Madeline Haines**

\*Faculty Mentor - Michael Moeder,  
Communication Arts

## **1F Historical Considerations Henson Hall 113**

*Moderator: Dr. Louise Detwiler, Dept. of Modern languages and Intercultural Studies*

1:30-1:45 Illegitimacy in Early Modern England and Scotland

**Rebecca Miller**

\* Faculty Mentor - Kristen Walton, History

1:50-2:05 A New Cohesion: Nigerian Regional Power on the African Continent

**Darby Joyce**

\*Faculty Mentor - Joseph Venosa, History

2:10-2:25 The middle class climbing the social ladder in the 18th century

**Erica Hall**

\* Faculty Mentor - Kristen Walton, History

2:30-2:45 Cowpens: The Turning Point of the Revolutionary War

**Josh Bussom**

\* Faculty Mentor - Kristen Walton, History

▪ **Second Oral Session** **3:00 p.m. - 4:15 p.m.**

**2A Health & Metabolism**

**Henson Hall 103**

*Moderator: Dr. Eugene Williams, Department of Biological Sciences*

3:00-3:15 Federally Funding Planned Parenthood: Providing Americans With Necessary Health Care

**Devon Bristow**

\* Faculty Mentor - Lauren Hill, Honors

3:20-3:35 The Simply Difficult Thinking of a Developing Child

**Aubrie Kerner, A. Wible, A. Greer, J. Gomez**

\* Faculty Mentor - Rhyannon Bemis, Psychology

3:40-3:55 What's killing the buzz? The effects of neonicotinoids on *Apis mellifera* mitochondrial metabolism

**Jessica Novak, MJ Dickey, IS Ralph**

\* Faculty Mentor - Stephen Gehrich, Biological Science

4:00-4:15 Acute effects of hyperglycemia in a chemical-genetic cell ablation model

**Julia Howell**

\* Faculty Mentor - Jessica Clark, Biological Sciences

**2B Justice**

**Henson Hall 111**

*Moderator: Dr. Yuki Okubo, Department of Psychology*

3:00-3:15 Necessary Provisions to Heroin Legislation in Maryland to Combat the Statewide Epidemic

**Anna Susie**

\* Faculty Mentor - Lauren Hill, Honors

3:20-3:35 Judicial Activism vs. Restraint In The Era of the Neil Gorsuch Nomination

**Alexander Valdes**

\* Faculty Mentor - E. Patrick McDermott, Management & Marketing

3:40-3:55 Americas Bill of Rights: Individuality or Imitation?

**Marie Harmon**

\* Faculty Mentor - Kristen Walton, History

**2C Money****Henson Hall 113***Moderator: Dr. Lori Carmack, Department of Math & Computer Science*

3:00-3:15 Maryland's Bottom Line: The Process of Preparing the Annual State Budget

**Savana McClure**

\* Faculty Mentor - Charles Boster, Accounting and Legal Studies

3:20-3:35 Does the Earned Income Tax Credit improve Educational Outcomes? An analysis of Montgomery County's Local Earned Income Tax Credit (EITC)

**Mark Cimiluca**

\* Faculty Mentor - Brian Hill, Economics &amp; Finance

3:40-3:55 The National Debt

**Kolin Gunn**

\* Faculty Mentor - John Murphy, Economics &amp; Finance

4:00-4:15 Binary Bucks: A Statistical Investigation of the Randomness of the S&amp;P 500 Index (A Binary Approach)

**Kevin Sapp**

\* Faculty Mentor - Lori Carmack, Math &amp; Computer Science

**2D Environment & Wildlife Henson Hall 243***Moderator: Dr. Mara Chen, Department of Geography & Geosciences*

3:00-3:15 Assessment of Olatiti Village's Awareness on Burunge Wildlife Management Area (WMA)

**Meleine Yao**

\* Faculty Mentor - Michael Lewis, Environmental Studies

3:20-3:35 Bat Collisions at Wind Turbines: How Advocacy Groups Apply the Science

**Nicole Naleszkiewicz** \* Faculty Mentor - Michael Lewis, Environmental Studies3:40-3:55 Estimating the habitat and population parameters of spotted turtles (*Clemmys guttata*) on the Delmarva Peninsula**Stephanie Lamb**

\* Faculty Mentor - Eric Liebgold, Biological Sciences

4:00-4:15 Coastline analysis and computer modeling utilizing graphic extraction of Landsat images and GIS techniques

**Caitlin Curry**

\* Faculty Mentor - Mara Chen, Geography &amp; Geosciences

**2E Being Mindful****Henson Hall 109***Moderator: Dr. Rhyannon Bemis, Department of Psychology*

3:00-3:15 Crossing the Lines: The Representation of Immigration in Sin Nombre

**Rishon Seaborn**

\* Faculty Mentor - Eric Rittinger, Political Science

3:20-3:35 The Effect of Stereotype Perceptions on Memory Retrieval

**Victoria Morris**

\* Faculty Mentor - Echo Leaver, Psychology

3:40 3:55 Influences and Outcomes of Early American Intellectualism

**Darian Mullikin**

\* Faculty Mentor - Kristen Walton, History

4:00-4:15 Ethics in Journalism in the Middle East

**Shannon Wiley**

\* Faculty Mentor - Brian Polkinghorn, CADR

**2F Peace & Equality****Henson Hall 211***Moderator: Dr. Dane Foust, Vice President of Student Affairs*

3:00-3:15 The American Slave Trade: Caused by English Law

**Alexis Kurtz**

\* Faculty Mentor - Kristen Walton, History

3:20-3:35 Fight for Peace and Equality: Jackie Robinson and Martin Luther King, Jr.

**Ashley Miller**

\* Faculty Mentor - Lauren Hill, Honors

3:40 3:55 Russia and the West: A Roadmap for Peace

**John Thompson**

\* Faculty Mentor - Eric Rittinger, Political Science

4:00-4:15 Systematic Oppression Through a Youth Minority Lens

**Kevin Powell Jr.**

\*Faculty Mentor - Sarah Surak, Political Science

**2G Arduino I****Henson Hall 107*****Moderator: Dr. Jason McCartney, Department of Psychology***

3:00-3:15 Automated Medication Dispenser

**Luciano Giorgilli, RJ Gouin** \*Faculty Mentor - Gene Hahn, Information & Decision Sciences

3:20-3:35 Fog-Farmer

**Colin Moshedi** \*Faculty Mentor - Gene Hahn, Information & Decision Sciences

3:40 3:55 Possibilities with Arduino

**Adam Crouse, D. Scharfe** \*Faculty Mentor - Gene Hahn, Information & Decision Sciences▪ **Third Oral Session 4:30 p.m. - 5:45 p.m.** \_\_\_\_\_**3A Genetics****Henson Hall 211*****Moderator: Dr. Aaron Hogue, Department of Biological Sciences***

4:30-4:45 Identification of Genes Promoting Resistance to Enzalutamide

**Robert Phillips** \*Faculty Mentor - Philip Anderson, Biological Sciences

4:50-5:05 Determining the Specificity and Sensitivity of the Human, Gull, Ruminant, and Poultry Genetic Markers Used to Track Fecal Contamination in Environmental Water

**Jessica Tague, A. Balaggan** \*Faculty Mentor - Mark Frana, Biological Sciences

5:10-5:25 A Knockout Mutation in the Yeast DUF1 Gene Increases Oxidative Stress Survival

**Samantha Allen** \*Faculty Mentor - Les Erickson, Biological Sciences

**3B Society****Henson Hall 103***Moderator: Dr. Eric Rittinger, Department of Political Science*

4:30-4:45 Exploring Utopia: Imagining the Possible

**Alyssa Massey**

\*Faculty Mentor - Sarah Surak, Political Science

4:50-5:05 Environmental Injustice in Maryland: Superfund Sites and Their Surrounding Communities

**Crysta Draayer**

\*Faculty Mentor - Sarah Surak, Political Science

5:10-5:25 Plastic Baggage: policies to quell the single-use bag epidemic

**Terri Gladus**

\*Faculty Mentor - Sarah Surak, Political Science

5:30-5:45 The Redevelopment of Real Estate Assets in Downtown Salisbury

**Ryan Daniher**

\*Faculty Mentor - Leonard Arvi, Economics &amp; Finance

**3C Politics or Acting?****Henson Hall 243***Moderator: Dr. John LaManca, Department of Health & Sport Sciences*

4:30-4:45 Conspiracies and the 2016 Presidential Election: An Analysis of Tweets through the Lens of Agenda-Setting Theory

**Darby Dicks**

\*Faculty Mentor - Vinita Agarwal, Communication Arts

4:50-5:05 The Rhetoric of the Presidential Election of 2016: The Bad, the Bad, and the Ugly.

**Kathryn Jedlicka**

\*Faculty Mentor - Elizabeth Curtin, English

5:10-5:25 A Deeper Look: The Benefits of Film Analysis

**Carl Eicher**

\*Faculty Mentor - Elsie Walker, English

5:30-5:45 Writing for Film: Tips from an Aspiring Screenwriter

**Kaley Booth**

\*Faculty Mentor - Elsie Walker, English

**3D Auto-Body****Henson Hall 109***Moderator: Dr. Michael J. Bardzell, Department of Mathematics & Computer Science*

4:30-4:45 Autonomous Cars: The Teenage Drivers of the 21st Century

**Cameron Kane**

\*Faculty Mentor - Lauren Hill, Honors

4:50-5:05 Deep Learning for Self-Driving Cars

**Nghia Tran, T. Ngo**

\*Faculty Mentor - Enyue Lu, Math &amp; Computer Science

5:10-5:25 Xenotransplantation: The Life-Saving Alternative to Allotransplantation

**Stephanie Miller**

\*Faculty Mentor - Lauren Hill, Honors

5:30-5:45 Donors Exploited for Profit: The Unethical aspects involved in Body Donation

**Morgan Crockett**

\*Faculty Mentor - Elizabeth Ragan, History

**3E Religion****Henson Hall 111***Moderator: Dr. Lance Garmon, Department of Psychology*

4:30-4:45 Liberation Theology: Religious Social Justice in 20th Century Latin America

**Marie Hils**

\*Faculty Mentor - Corinne Pubill, Modern Languages

4:50-5:05 How Pagan is Christianity?: The Conversion Process of Early Medieval Europe

**Michaela O'Donnell** \*Faculty Mentor - Elizabeth Ragan, History

5:10-5:25 Fantomina: The Liberated "Fallen Woman" in a Hypocritical Society

**Madeline McLeod**

\*Faculty Mentor - Christopher Vilmar, English

5:30-5:45 Beowulf, the Pagan Hero of a Christian England

**Samantha Goetz**

\*Faculty Mentor - Christopher Vilmar, English

### **3F Arduino II**

**Henson Hall 107**

*Moderator: Dr. Patti Erikson, Department of Biological Sciences*

4:30-4:45 Arduino Digitally-Controlled Device A

**Brian Kragler Jr., KA Wilson**

\*Faculty Mentor - Gene Hahn, Information &  
Decision Sciences

4:50-5:05 Arduino Digitally-Controlled Device B

**Nicholas Logan, G. Yoo, T. Caldwell**

\*Faculty Mentor - Gene Hahn, Information &  
Decision Sciences

5:10 – 5:25 Arduino Repair Light

**Kevin Nardi**

\*Faculty Mentor - Gene Hahn, Information &  
Decision Sciences

### **III. *Poster Presentation Session***

***6:00-7:30pm Guerrieri Academic Commons, 4<sup>th</sup> Floor  
Assembly Hall***

#### **Information Table Volunteers**

*Dr. Jim Forte, Social Work*

*Dr. Echo Leaver, Psychology*

*Dr. Carolina Bown, Modern Languages*

*Vivian Shannon-Ramsey, TRiO-ACHIEVE Student Support Services*

#### **Poster Session Ushers**

*Amy Jones, Salisbury University Libraries*

*Jacqueline Maisel, University Registrar*

*Dr. Judith Stribling, Department of Biological Sciences*

*Dr. Susan Mahoney, English Language Institute*

*Dr. Chrys Eagan, Department of Communication Arts*

*Dr. Sally Perret, Department of Modern Languages and Intercultural Studies*

*Dr. Heidi Fritz, Department of Psychology*

*Christina Camillo, Department of Health and Sport Sciences*

*Caroline Eckardt, Salisbury University Libraries*

*Dr. Cristina Cammarano, Department of Philosophy*

*Wendy Jin, Academic Advisor*

**Poster Room Set-up Volunteers***Vicky Adeniran, University Dining Services**James Parrigin, Salisbury University Libraries**Dr. Rachel Buchanan, Department of Social Work**Haleigh LaChance, Graduate Studies and Research**Jessica Scott, Graduate Studies and Research**Carrie Tingle, University Analysis, Reporting, and Assessment***Poster Presentations (Title, Presenter, and \*Faculty Mentor)**

1. The Affordable Care Act and Medicaid Beneficiaries" Access to Primary Healthcare

**Mariah Hackett**

\* Faculty Mentor - William Campbell, Nursing

2. Becoming a Veterinarian: What Students Really Need to Know

**Megan Short**

\*Faculty Mentor - Kimberly Hunter, Biological Sciences

3. An Analysis of Country Music Trends Utilizing Mathematical Matrix Theory

**Kristopher Price**

\*Faculty Mentor - Kurt Ludwick, Math &amp; Computer Science

4. Utilizations of Queuing Theory and Digraphs for more Efficient Merging in Tollways

**Amy Vennos, A. Jump, R. Quackenbush**

\* Faculty Mentor - Robert Tardiff, Math &amp; Computer Science

5. The Effects on Obesity of Pre- and Postnatal Nutrition

**Caroline Leahy**

\* Faculty Mentor - Scott Mazzetti, Health &amp; Sport Sci.

6. Implementing Nursing Evidence into Practice: Hope and Advance Care Planning in a Rural Care Facility

**Tejal Bhatt, PM Miller**

\* Faculty Mentor - Katherine Hinderer, Nursing

7. Students' Use, Knowledge and Perception of Melatonin

**Christina Tucker**

\* Faculty Mentor - Cecilia Acocella, Psychology

8. File Survival on USB Drive

**Jessica Truong**

\* Faculty Mentor - Donald Spickler, Math &amp; Computer Science

**Poster Presentations (Title, Presenter, and \*Faculty Mentor) (Cont.)**

## 9. Merge Patterns: Modeling Traffic After Tollbooths

**Morgan Iachini**, AA Talbert, JE Banachoski

\* Faculty Mentor - Robert Tardiff, Math &amp; Computer Science

## 10. A Potential Link Between a Connexin41.8 Mutation and Peripheral Neuropathy

**Amanda Rocker**

\* Faculty Mentor - Jessica Clark, Biological Sciences

## 11. Salisbury University Event App

**Alison Haley**, J. Johnston

\* Faculty Mentor - Chrys Egan, Communication Arts

## 12. The Effect on Employment that Criminal Background Checks Have on Previously Incarcerated Individuals

**Eleanor Brown**

\* Faculty Mentor - Jennifer Jewell, Social Work

## 13. Salisbury Farm-to-Table Initiative

**Kathleen Nizich**, V. Messinger, H. Davis

\* Faculty Mentor - Chrys Egan, Communication Arts

## 14. Guerrieri Academic Commons App

**Amy Mellinger**, L. Ferraioli \* Faculty Mentor - Chrys Egan, Communication Arts

## 15. Central: an Under-21 Nightclub for Downtown Salisbury, MD

**Jada Taylor**, A. Wigglesworth \* Faculty Mentor - Chrys Egan, Communication Arts

## 16. Thermal Imagery as a Tool for Studying Bat Drinking Behavior

**Erin Allar**, O. Hamilton

\* Faculty Mentor - Aaron Hogue, Biological Sciences

## 17. Modeling Pi-Cation Interactions in SAM Dependent Tuberculosis Enzymes

**James Port**, KR Billings

\* Faculty Mentor - Anita Brown, Chemistry

**Poster Presentations (Title, Presenter, and \*Faculty Mentor) (Cont.)**

18. Analysis of Trichloroethylene in Water

**Elizabeth Withers**, M. Koehler \* Faculty Mentor - Anita Brown, Chemistry

19. Building a Purge and Trap Concentrator to Detect TCE in Groundwater

**Jason Sirk** \* Faculty Mentor - Anita Brown, Chemistry

20. Corporate Social Responsibility: A Case Study on Strategies, Motivations, and Local Approaches

**Megan Spence** \* Faculty Mentor - Danny Ervin, Economics & Finance

21. Turning Wasted Heat from an Engine into Useable Electrical Energy to Increase Efficiency in Cars

**Michael Joram**, EC Lowe, \* Faculty Mentor - Matthew Bailey, Physics

22. The Impact of Hospital Design on Patient Outcomes

**Megan Caudill** \* Faculty Mentor - Mary DiBartolo, Nursing

23. Utilizing Qualitative Coding Techniques to Assess Civic Engagement on a College Campus

**Michael Webber** \* Faculty Mentor - Alexander Pope IV, Teacher Education

24. Water Quality Perceptions and Fertilizer Application Practices of Property Owners Along The Wicomico River, Maryland

**Michael Omps** \* Faculty Mentor - Mara Chen, Geography & Geosciences

25. Impact of artificial feeders on hummingbird visitations to wildflowers

**Rachel Pierson** \* Faculty Mentor - Michael Lewis, Environmental Studies

26. Abortion in Latin America

**Karolyne Calixto** \* Faculty Mentor - Carolina Bown, Modern Languages

**Poster Presentations (Title, Presenter, and \*Faculty Mentor) (Cont.)**

27. Estimating Population Parameters of Painted Turtles(*Chrysemys picta*) on the Delmarva Peninsula

**Samantha Utt**, DR Ortmann, NC Schiffler

\* Faculty Mentor - Tami Ransom, Environmental ,  
Studies

28. Estimating Population Parameters of Eastern Mud Turtles (*Kinosternon subrubrum*) on the Delmarva Peninsula

**Matthew Houlihan**, KM Morsey \* Faculty Mentor - Eric Liebgold, Biological  
Sciences

29. Human Catalysts: Behavior Causing the Spread of Computer Viruses

**Kayla Cannon**

\* Faculty Mentor - Randall Cone, Math &  
Computer Science

30. Finger Lock

**Matthew Roache**

\* Faculty Mentor - Gene Hahn, Information &  
Decision Sciences

31. Autonomous Vehicles: The Road to a Better Future

**Daniel Moats**

\* Faculty Mentor - Matthew Bailey, Physics

32. Policing for Profit and Legal Theft: An Analysis and Discussion of Civil Asset Forfeiture and Its Reforms

**Clayton Levy**

\* Faculty Mentor - Lauren Hill, Honors

33. Student Athlete Knowledge and Perception of Marijuana

**Daniel Brennan**

\* Faculty Mentor - Cecilia Acocella, Psychology

34. Stress Reduction from a Musical Intervention

**Lauren St.Pierre**, R. Warfield \* Faculty Mentor - Echo Leaver, Psychology

35. Geographical Factors Influencing Movements and Population Size of Spotted Turtles (*Clemmys guttata*) a Species of Conservation Concern, on the Delmarva Peninsula

**Logan Poore**

\* Faculty Mentor - Tami Ransom, Environmental  
Studies

**Poster Presentations (Title, Presenter, and \*Faculty Mentor) (Cont.)**

36. Predicting Esteem Based on Rape Experience, Acknowledgment and Time Period

**Carolyn P. Merwin**, SL Osman

\* Faculty Mentor - Suzanne Osman, Psychology

37. Soil Chemistry Variation in the Salisbury University Arboretum Linked to Habitat Type

**Erica Parkhurst**

\* Faculty Mentor - Samuel Geleta, Biological Sciences

38. Teaching Racial Changes in America: 10th Grade Government

**Debra Reynolds**

\* Faculty Mentor - Alexander Pope IV, Teacher Education

39. Geography of the Revolutions

**Mark Mossa**

\* Faculty Mentor - Alexander Pope IV, Teacher Education

40. The Scramble for Africa During the Age of Imperialism

**Nicholas Sturm**

\* Faculty Mentor - Alexander Pope IV, Teacher Education

41. Measurement of the microbial influence on soil carbon sequestration in four different landscapes on the Salisbury University campus

**Justin Maniatty**

\* Faculty Mentor - Elizabeth Emmert, Biological Sciences

42. Analysis of Soil Bacterial and Fungal Biomass and Determination of Soil Microbial Activity in Four Different Landscapes on the Salisbury University Campus

**Hayley Schindler**

\* Faculty Mentor - Elizabeth Emmert, Biological Sciences

43. Neural Specializations for Audition in the Spectacular Tui

**Patrick Miller**

\* Faculty Mentor - Jeremy Corfield, Biological Sciences

**Poster Presentations (Title, Presenter, and \*Faculty Mentor) (Cont.)**

44. Docosahexaenoic Acid (DHA) Inhibits Metastasis in B16 Cell Lines by Altering Membrane Molecular Order and Cell Adhesion Potentials

**Sunny Choudhary**, J. Shilling, L Engleman, D Pidhorodetska

\* Faculty Mentor - Eugene Williams, Biological Sciences

45. High-Throughput, Fluorescent Analysis of Reactive Oxygen Species in *C. Elegans* after Knockdown of MRCK-1

**Callista Brown**, R. Heying

\* Faculty Mentor - Patti Erickson, Biological Sciences

46. LGBTQ Acceptance

**Ada Canelas**

\* Faculty Mentor - Carolina Bown, Modern Languages

47. Characterization of an Oxidoreductase Enzyme, 3GBH

**Brittany Marshall**

\* Faculty Mentor - Alison Dewald, Chemistry

48. Sequence Analysis of napA Gene Diversity in Three Denitrifying Communities from a Local Watershed

**Courtney Petersen**

\* Faculty Mentor - Katherine Miller, Chemistry

49. The Evolution of Library Collections and Services in the Digital Age with Future Projections

**Nicole Demme**

\* Faculty Mentor - James Parrigin, Library

50. *Bdellovibrio bacteriovorus* as a Biocontrol Agent against Blackleg Disease in Potatoes

**Rebecca Paulis**

\* Faculty Mentor - Elizabeth Emmert, Biological Sciences

51. A Meta-Analysis of Listening Skills

**Ashlin Sahlin**, M. Fulton

\* Faculty Mentor - Thomas Tomcho, Psychology

52. Abundance and Diversity of Denitrifying Bacteria in a Newly-Created Wetland

**Francesca DiPino**

\* Faculty Mentor - Elizabeth Emmert, Biological Sciences

**Poster Presentations (Title, Presenter, and \*Faculty Mentor) (Cont.)**

53. Designing Software to Statistically Analyze Candlestick Chart Patterns

**Carolina Alfaro**, JR Tress, CE Huseman, DS Pessu

\* Faculty Mentor - Lori Carmack, Math & Computer Science

54. Is an Enlargement of the Nidopallium Caudolaterale (NCL) Associated with Increased Cognitive Capacities in Birds?

**Alexandra Barth**

\* Faculty Mentor - Jeremy Corfield, Biological Sciences

55. Children's Ability to Define Learning and Recall Learning Events

**Amy Wible**, A. Kerner, J. Gomez, A. Greer

\* Faculty Mentor - Rhyannon Bemis, Psychology

56. Identification of Alleged Chondritic Meteorites

**James Arnuk**

\* Faculty Mentor - Thomas Cawthern, Geography & Geosciences

57. Desire for Control, Rumination, Alcohol Use and Coping in an Undergraduate Sample

**Brendan Gallagher**

\* Faculty Mentor - Heidi Fritz, Psychology

58. Analyzing Error Between Forecasted and Actual Tracks of Hurricanes 2013-2016

**Kyle Lane**

\* Faculty Mentor - Arthur Lembo, Geography & Geosciences

59. Regression and Kriging analysis to determine the relationship between chlorophyll levels, depth, temperature, wind direction and speed of Lake Victoria Africa from 2002-2015

**Noah Krach**

\* Faculty Mentor - Arthur Lembo, Geography & Geosciences

60. A Multi-Criteria GIS Analysis on the Correlation between Road Accidents, the Time of Day, and the Various Road Conditions within the City of Salisbury

**Meghan Murphy**

\* Faculty Mentor - Arthur Lembo, Geography & Geosciences

61. A Path Toward Multiplicative Reasoning With Understanding

**Julia Pendola**, C. Cody

\* Faculty Mentor - Randall Groth, Education Specialties

**Poster Presentations (Title, Presenter, and \*Faculty Mentor) (Cont.)**

62. Isolation and Identification of yeast and bacterial species from an open fermentation vessel

**Allison Brown**

\* Faculty Mentor - Les Erickson, Biological Sciences

63. Carbon Sequestration by the Salisbury Arboretum

**Maggie Lundy**

\* Faculty Mentor - Christopher Briand, Biological Sciences

64. A Linguistic Analysis of 400 University Mission Statements and Learning Goals.

**Dana Rand**, A. Hammersla

\* Faculty Mentor - Thomas Tomcho, Psychology

65. Nature Connectedness: A Synthesis of Relations to Ecological Attitudes

**Madison Warfield**

\* Faculty Mentor - Thomas Tomcho, Psychology

66. Methodological rigor in psychological teaching research

**Alexis Shank**, S. Maio

\* Faculty Mentor - Thomas Tomcho, Psychology

67. Teaching United States Urban and Suburban Development: 10th Grade American Government

**Margaret Deering**

\* Faculty Mentor - Alexander Pope IV, Teacher Education

68. Links of Unmitigated Communion with Psychological Adjustment and Diet-related Cognitions and Behaviors

**Jessica Lilly**

\* Faculty Mentor - Heidi Fritz, Psychology

69. A GIS Multi-Criteria Model to Determine the Optimal Location for a New Ski Resort in the Adirondack Mountains

**Zachery Radziewicz**

\* Faculty Mentor - Arthur Lembo, Geography & Geosciences

70. English Language Learning through Healthcare

**Tess Johnson**

\* Faculty Mentor - Dorothea Winter, Nursing

71. The Effect Of Lyrics On Recall Of Unattended

**Hailey Edsall**

\* Faculty Mentor - Larence Becker, Psychology

**Poster Presentations (Title, Presenter, and \*Faculty Mentor) (Cont.)**

72. Politics Through Twitter: A Content Analysis of the Cognitive Aspects and Emotional Tones of Presidential Tweets

**Allysa Miller**, S. Gonce \* Faculty Mentor - Mark Walter, Psychology

73. Network Analysis and Optimal Route Finding to Determine the Accessibility of Properties in Ocean City, MD Under Various Flood Depth Scenarios

**Jeremy Gencavage** \* Faculty Mentor - Arthur Lembo, Geography & Geosciences

74. Using Autonomous Drones to Find High Light Areas on Campus

**Daniel Bower**, A. Marengo \* Faculty Mentor - Joseph Howard, Physics

75. Prevalence Rates of Student Engagement in High Impact Educational Practices in a National Sample

**Emily Cox**, C. Griffiths, RA Lingenfelter  
\* Faculty Mentor - Thomas Tomcho, Psychology

76. Hidden Graves: Uncovering the Past

**Conor Walsh** \* Faculty Mentor - Elizabeth Ragan, History

77. A GIS Multi Criteria Model to determine the optimal habitat location for the American Beaver in Oregon.

**Sintel Paige** \* Faculty Mentor - Arthur Lembo, Geography & Geosciences

78. A GIS Based Multi-Criteria Model to Identify Locations in the Chesapeake Bay to Reduce Cownose Ray (*Rhinoptera bonasus*) Fatality Rates

**Lucas Roy** \* Faculty Mentor - Arthur Lembo, Geography & Geosciences

79. Undergraduate Research Offices at Universities: Prevalence Rates, Common Content, and Best Practices

**Cara Griffiths**, RA Lingenfelter \* Faculty Mentor - Thomas Tomcho, Psychology

80. Designing an Autonomous Photophilic Robot

**Tristan Boyle** \* Faculty Mentor - Joseph Howard, Physics

**Poster Presentations (Title, Presenter, and \*Faculty Mentor) (Cont.)**

81. Spatial Analysis of German-Based Luxury Automobile Manufacturers in Maryland

**Matthew Bucklew**

\* Faculty Mentor - Arthur Lembo, Geography & Geosciences

82. Echinostome Trematodes in the Mud Snail (*Ilyanassa obsoleta*), the Ribbed Mussel (*Geukensia demissa*), and Gulls (*Larus spp.*) in a Delaware Salt Marsh

**Marissa Moran, M Rodriguez** \* Faculty Mentor - Ann Barse, Biological Sciences

83. Spatial Relationships Between Crime and Street Light Luminescence in Salisbury, MD

**Grant Chalfin**

\* Faculty Mentor - Arthur Lembo, Geography & Geosciences

84. Utilizing Watersheds to Spatially Identify Patterns of Forest Fire Prone Areas in California

**Nathan Mattola**

\* Faculty Mentor - Arthur Lembo, Geography & Geosciences

85. Multi-Year Analysis of Shark Attacks on the East Coast, 2000 - 2016

**Hannah Sweet**

\* Faculty Mentor - Arthur Lembo, Geography & Geosciences

86. A GIS-Based Multi-Criteria Model to Identify Optimal Habitats for Grizzly Bears in the Greater Yellowstone Ecosystem

**Alex Nowak**

\* Faculty Mentor - Arthur Lembo, Geography & Geosciences

87. The Nanticoke and Wicomico Rivers: The Efficacy of Best Management Practices

**Nathan Hirtle**

\* Faculty Mentor - Judith Stribling, Biological Sciences

88. Using a GIS Based Model to Identify Ideal Locations for Renewable Energy Plants in the State of Hawaii

**Brian Hiller**

\* Faculty Mentor - Arthur Lembo, Geography & Geosciences

89. Increasing the Power Output of a Bicycle Generator

**Kenneth Hill, I. Wood**

\* Faculty Mentor - Joseph Howard, Physics

**Poster Presentations (Title, Presenter, and \*Faculty Mentor) (Cont.)**

90. A Review of Listening Research

**Katelyn Kirby**, TR Bellesi, MR Fulton, EE King, AM Sahlin

\* Faculty Mentor - Thomas Tomcho, Psychology

91. Spatial Analysis of Hydraulic Fracturing Sites and Water Contamination in Colorado Watersheds, 2010-2014

**Cody Garcia**

\* Faculty Mentor - Arthur Lembo, Geography & Geosciences

92. The Effect of Graph Type on Students' Ability to Interpret Interactions

**Erin Whitt**, H. Morrill, J. Stallings, H. Manning

\* Faculty Mentor - Larence Becker, Psychology

93. A GIS Based Approach to Measure Phosphorus and Nitrogen Pollution in the Chesapeake Bay Due to Chicken Manure

**Hans Meeder**

\* Faculty Mentor - Arthur Lembo, Geography & Geosciences

94. Discovering the Scenario to Generate Tolerable Tonality with Designated Double Pendulum's Motion

**Iv Yin**

\* Faculty Mentor - Kathrine Manizade, Physics

95. Personality and Charitable Giving

**Shannon Maio**

\* Faculty Mentor - Nicholas Busko, Economics & Finance

96. Appalachian Trail Hiking Guide: Overlook Viewshed Maps and Out Resources

**Joshua M. Young**

\* Faculty Mentor - Arthur Lembo, Geography & Geosciences

97. An Antioxidant-Induced Gene Expression Signature Associated with Higher Risk of Prostate Cancer

**Andrea Carmack**

\* Faculty Mentor - Philip Anderson, Biological Sciences

## **Poster Presentations (Title, Presenter, and \*Faculty Mentor) (Cont.)**

98. Analysis of Post Storm Events on Piping Plover (*Charadrius melodus*) Breeding Success at Assateague Island

**Ruth C. Heying**

\* Faculty Mentor - Arthur Lembo, Geography & Geosciences

99. Liking for Symmetrical and Asymmetrical Mondrian Paintings

**Brooke M. Benz**, B. Ferguson, A. Polek

\* Faculty Mentor - J. Craig Clarke, Psychology

100. A GIS Based Approach to Analyzing the Ongoing Effects of the 2014 Economic Recession in Brazil

**Timothy Williams**

\* Faculty Mentor - Arthur Lembo, Geography & Geosciences

101. The Poster Poster

**Kenneth Rhoads**, J. Lilly, M. Adkins, G. Bisset, S. Hopkins, R. Lederman, R. Marchowsky, C. Markiewicz, M. Sowell, C. Welch

\* Faculty Mentor - J. Craig Clarke, Psychology

## ***IV. 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 Academic Commons (4<sup>th</sup> Floor Assembly Hall). This award celebrates faculty mentors who have proven excellent supervisors of student research or creative work.

### **The 2017 Outstanding Research Mentor Award Nominees are:**

*Dr. Chrys Egan – Communication Arts*

*Dr. Asif Shakur – Physics*

*Dr. Sarah Surak – Political Science*

*Dr. Michelle Schlehofer – Psychology*

*Dr. Les Erickson – Biological Sciences*

*Dr. Steven Durow – Art*

*Dr. Loren Marquez – English*

*Dr. Art Lembo – Geography and Geosciences*

**The 2017 Outstanding Research Mentor Award Nominees (Cont.):**

*Dr. Seth Friese – Chemistry*

*Dr. John Kalb – English*

*William Wolff – Art*

*Dr. Judith Franzak – Education Specialties*

*Dr. Jonathan Munemo – Economics and Finance*

*Dr. Joseph Venosa – History*

*Dr. Jon-Philip Imbrenda – Education Specialties*

*Dr. J. Craig Clarke – Psychology*

## ***V. 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**

#### **Edwin Miranda:**

Energy Cost of Active and Sedentary Music Video Games: Drum and Handheld Gaming vs. Walking and Sitting. Miranda, E., B.S. Overstreet, W.A. Fountain, V. Gutierrez, M. Kolankowski, M.L. Overstreet, R.M. Sapp, C.A. Wolff, and S. Mazzetti. *International Journal of Exercise Science*. 2017 (In Final Review).

#### **Taylor Fedorchak:**

“Almost Regulars” The Quaker. 2016.

“Stave” & “Tenor” Pittsburgh Poetry Review. 2016.

“Graveyarding” Arkana. 2017.

“Elegy for our Fifth Grade Selves” OVS Magazine. 2017.

“Another Cake I Haven’t Tasted” Red Earth Review. 2017.

***V. Outstanding Student Research (Cont.)***  
***Student Publications (Cont.)***

**Miranda Haney:**

“Winter, Buenos Aires” Kentucky Review. 2017.

"Hypnagogia" Slipstream. 2017.

**Caylie Herrmann:**

“Notes from Home” Driftwood. 2017.

“Mother Keeping House” Pittsburgh Poetry Review. 2017.

"Appendix," "February Polaroid," & "Re-Mothering" Third Wednesday. 2017.

**K.S. (Kate) Keeney:**

“Lilith, Proserpine, Venus” & “The Girl Who Howled” Germ Magazine. 2016.

“Lost Time” Roanoke Review. 2017.

“Nobody Body” The Tishman Review. 2017.

**Molly Likovich:**

“April Showers” Bluestem. 2016.

“Other Girls” Jenny Magazine. 2016.

“Think of a Mermaid Lagoon” New Mexico Review. 2016.

“Cause of Death” Red Paint Hill. 2016.

“The August Visitor” Rust & Moth. 2016.

“Roulette” & “Wooded Bodies” Columbia College Literary Review. 2017.

**Megan Newcomer:**

“Wicked” Steel Toe Review. 2016.

***Outstanding Student Research (Cont.)***  
***Student Publications (Cont.)***

**Dylan Nutter:**

“Slick” Catfish Creek. 2017.

**Jacob Rayner:**

“Inosculation” & “Phototropism” New Mexico Review. 2016.

**Noor Shahzad:**

“Cantonment” & “Notes on the Jugular” Tinderbox Poetry Journal. 2017.

**Jamie Shrewsbury:**

“Sinepuxent” decomP. 2016.

“Transfusing” Natural Bridge. 2017.

“Welcome Home” Passages North. 2017.

**Katelyn Steagall:**

“Stereoscope” Polaris. 2017.

**Nancy Talbott:**

“Fissures” Hawai’i Review. 2017.

**Rena Tucker:**

“This Is Not a Tree” Steel Toe Review. 2016.

**Riley Ward:**

“A Thursday Afternoon in Gorenjsko” OVS Magazine. 2017.

“Drafting” Sierra Nevada Review. 2017.

***Outstanding Student Research (Cont.)***  
***Student Publications (Cont.)***

**Annie Warner:**

“Mixed Drinks” New Mexico Review. 2016.

"I Pulled His Last Off My Sweater Today" Mochila Review. 2017.

**Terin Weinberg:**

“Canopic” Barely South Review. 2017.

“Processes” Red Earth Review. 2017.

**Katherine Michalik:**

“Nothing Left” Germ Magazine. 2017.

“Save Me a Smoke” Germ Magazine. 2017.

**Doctoral Program Publication Submissions**

Franzak, J., Porter, H., McFadden, J., Harned, C., & Taylor, C. (Fall 2016) “We’re Rural Not Dumb”: Constructing Literacy Capital in Rural Contexts.” *English Education*. Accepted for publication. In revision.

Porter, H., Harned, C., & Jack, G. (Spring 2017) “Reading in Disciplinary Contexts: Understanding Practices and Perspectives of Upper-Division African American Students.” (article has been written and is being revised for submission to *Journal of Adolescent & Adult Literacy*)

Porter, H. (Spring 2017) “Constructing an Understanding of Undergraduate Disciplinary Reading: An Analysis of Contemporary Scholarship.” *Journal of College Reading and Learning*. Accepted for publication. In revision.

## ***Outstanding Student Research (Cont.)***

### **Student Presentations**

Kyle Rollyson, a bass student of Dr. Jeffrey Schoyen, performed with his band Breakfast at the River Valley Ranch in Manchester, MD on March 5, 2017.

Dr. Asif Shakur and Jakob Kraft presented "Measurement of Coriolis Acceleration with a Smartphone" *The Physics Teacher*, 54, 288, May 2016.

Pendola, Julia, & Cody, Caitlin presented a poster entitled "A path toward multiplicative reasoning with understanding" at the 2017 National Conference on Undergraduate Research, Memphis, TN.

Jones, Matthew presented on "Learning to use appropriate tools strategically for bivariate data analysis" at the 2017 National Conference on Undergraduate Research, Memphis, TN.

Hawthorne, Emily presented a poster entitled "An exploration of students' base-ten concepts" at the 2017 National Conference on Undergraduate Research, Memphis, TN.

Bright, David, & Davis, Kayla presented a poster entitled "Developing 5th Graders' understanding of fraction multiplication" at the 2017 National Conference on Undergraduate Research, Memphis, TN.

Gallo, Silviya presented a poster entitled "Fourth grade students' learning of operations and algebraic thinking" at Council on Undergraduate Research: Research Experiences for Undergraduates Symposium, Arlington, VA.

Pendola, Julia presented a poster entitled "A path toward multiplicative reasoning with understanding" at the Annual Conference of the National Association of Professional Development Schools, Washington, D.C.

Groth, Randall, Butler, Jaime, & Nelson, Delmar (2016) presented "Overcoming challenges in learning probability vocabulary" *Teaching Statistics*, 38(3), 102-107.

Callista Brown and Ruth Heying presented "High-Throughput, Fluorescent Analysis of Reactive Oxygen Species in *C. elegans* after Knockdown of *mrck-1*" at the Undergraduate Research Symposium in the Chemical and Biological Sciences, Baltimore, MD, October, 2016..

Callista Brown and Ruth Heying presented "High-Throughput, Fluorescent Analysis of Reactive Oxygen Species in *C. elegans* after Knockdown of *mrck-1*" at the Experimental Biology Conference, Chicago, IL, April 2017.

Callista Brown and Ruth Heying presented "High-Throughput, Fluorescent Analysis of Reactive Oxygen Species in *C. elegans* after Knockdown of *mrck-1*" at the National Conference for Undergraduate Research conference, Chicago, IL, April 2017.

***Outstanding Student Research (Cont.)***  
***Student Presentations (Cont.)***

Madison Hill presented “Barbie’s Day Job: A Radical Critique of a Woman’s Role in the Workplace” at the Radical Philosophical Association conference, Lexington, KY, November 2016.

Hunter Jennings presented “Informal Oppression: Uber-Exploitation and Economic Oppression in the Informal Economy” at the Radical Philosophical Association conference, Lexington, KY, November 2016.

Alyssa Massey presented “Exploring Utopia: Imagining the Possible” at the Radical Philosophical Association conference, Lexington, KY, November 2016.

Laura Baasland presented “Non-Profits: What is the Bottom Line?” at the Radical Philosophical Association conference, Lexington, KY, November 2016.

Laura Baasland presented “The Problematic Structure of the Nonprofit System” at the National Undergraduate Research Conference, Memphis, TN, March 2017.

Brendan Gallagher presented “Desire for Control, Rumination, Alcohol Use, and Coping in an Undergraduate Sample” at the Eastern Psychological Association annual meeting in Boston, MA, March 2017.

Adam Jump presented “A Sharp Upper Bound on the  $k$ -Color Connection Number of a Graph” at the Joint Mathematics Meetings, Atlanta, GA, January, 2017.

Kelly Wilson, presented a poster entitled “Microbial Survival on Metallic Fomites” at the American Society of Clinical Laboratory Science national meeting in Philadelphia, PA August 2017.

Laurel Heflin presented "Teaching learning Community: Women's Circles" at the Teaching Learning Conference in Salisbury, MD, February 2017.

Mike Webber presented "Public Affairs and Civic Engagement" at the Teaching Learning Conference in Salisbury, MD, February 2017.

Hannah Ennerfelt, Brenna Hearn, Rebecca Warfield, & Lauren St. Pierre presented “Skin Conductance Measures of Stress Reduction in Response to Music Intervention” at the Eastern Psychological Association annual meeting, Boston, MA, March, 2017.

Colleen Reeping presented “Teaching English to Reinforce a Graduate Student’s Education” at Maryland TESOL Annual Spring Graduate Student Conference, Baltimore, MD, February 2017.

***Outstanding Student Research (Cont.)***  
***Student Presentations (Cont.)***

Karen Prengaman presented on “Discovering ELLs’ Mathematically Limitless Language Learning Potential” at the Annual International TESOL Convention’s Master’s Student Forum, Seattle, WA, March 2017.

Shauna-Kaye Jones will present on "Caribbean Englishes and the Kachruvian Model" at the International Association of World Englishes Conference at Syracuse University, Syracuse, NY, June/July, 2017.

Lauren Delong presented "Isolation, Identification, and Characterization of Wild Yeasts for Fermentation " at the Experimental Biology Conference in Chicago, IL, April, 2017.

Lauren Delong presented "Isolation, Identification, and Characterization of Wild Yeasts for Fermentation " at the NCUR conference in Memphis, TN, April, 2017.

Lauren Delong and Brenna Noone presented "Isolation and Identification of Wild Yeasts for Fermentation " at the University of Maryland, Baltimore County Chemistry/Biology research conference in Baltimore, MD, Oct, 2016.

Samantha Allen presented "A Knockout Mutation in the Yeast DUF1 Gene Increases Oxidative Stress Survival" at the NCUR conference in Memphis, TN, April, 2017.

Molly Dyer and Celeste Welch presented “LGBTQIA Student Experiences at College: A Campus Climate Study” at the Eastern Psychological Association Annual Meeting, Boston, MA, March 2017

Samantha Maillie presented a poster entitled “PET Scans Versus CT Scant and the Effect on Patient Survival” at Multidisciplinary Thoracic Cancers Symposium in San Francisco in March 2017.

Brendan Gallagher presented “Mortality Saliene and Perceptions of Intimacy with Deceased Friends and Classmates” at the National Conference for Undergraduate Research, Memphis, TN, April, 2017

Carolyne Paige Merwin presented “Predicting esteem based on rape experience, acknowledgment and time passage” at the Eastern Psychological Association annual meeting, Boston, MA, March 2017. She also co-authored “Body shame and sexual satisfaction: A test of mediating factors based on objectification theory,” presented at the annual meeting of the American Psychosomatic Society, Seville, Spain, March, 2017.

Natalie Guion, Julia Pendola and Madison Olewine presented on Social Emotional Wellness at the National Association for Professional Development Schools (NAPDS) conference in Washington, DC in March 2017

***Outstanding Student Research (Cont.)***  
***Student Presentations (Cont.)***

Taylor Simpson and Anne Kinsey presented on Supersaturation in Support of Response to Intervention at the National Association for Professional Development Schools (NAPDS) conference in Washington, DC in March 2017

Natalie Guion and Anne Kinsey presented a poster session on Social Emotional Wellness at the National Association for Professional Development Schools (NAPDS) conference in Washington, DC in March 2017

Natalie Guion, Madison Olewine and Shelby Ennis presented a poster session on Snow Hill Elementary School's Back-to-School Bash at the National Association for Professional Development Schools (NAPDS) conference in Washington, DC in March 2017

Julia Pendola presented a poster session on the NSF Mathematics Pathways summer program at the National Association for Professional Development Schools (NAPDS) conference in Washington, DC in March 2017

Taylor Simpson and Julie Bunten presented a poster session on analyzing how 4th graders learn multiplication facts at the National Association for Professional Development Schools (NAPDS) conference in Washington, DC in March 2017

Zack Valenti presented Comparison of Metabolic Rate Between Concentric and Eccentric Muscle Actions at the Mid-Atlantic Regional Conference of the American College of Sports Medicine, Harrisburg, PA. November, 2016.

Will Fountain presented Neuromuscular and Metabolic Activity during Concentric and Eccentric Squat Exercise at the Mid-Atlantic Regional Conference of the American College of Sports Medicine, Harrisburg, PA. November, 2016.

Shelby Carl presented "Perspectives on Prison Policies and Practices: Visions of Change" at the Association of Baccalaureate Social Work Program Directors (BPD) annual Conference, New Orleans, LA, March, 2017.

Terin Weinberg presented "The Absorbed World" poetry cycle at NCUR 31 (2017) in Memphis in April. 2017.

***Outstanding Student Research (Cont.)***  
***Student Presentations (Cont.)***

***NCUR 2017***

Darby Joyce presented “A New Cohesion: Nigerian Regional Power on the African Continent” at the National Conference of Undergraduate Research, Memphis, Tennessee, April, 2017.

Matthew Jones presented “Learning to Use Appropriate Tools Strategically for Bivariate Data Analysis” at the National Conference of Undergraduate Research, Memphis, Tennessee, April, 2017. Co-author Mary Knaub.

Julia Howell presented “Acute effects of hyperglycemia on zebrafish peripheral nerves in a genetic-chemical ablation model” at the National Conference of Undergraduate Research, Memphis, Tennessee, April, 2017.

Julia Pendola and Caitlin Cody presented “A Path Toward Multiplicative Reasoning with Understanding” at the National Conference of Undergraduate Research, Memphis, Tennessee, April, 2017.

Rachel Stadler presented “A Synthesis of a Tetra-aza Ligand for the Separation of Lanthanides and Actinides” at the National Conference of Undergraduate Research, Memphis, Tennessee, April, 2017.

Alyssa Massey presented “Exploring Utopia: imagining the possible” at the National Conference of Undergraduate Research, Memphis, Tennessee, April, 2017.

Shannon Barry presented “From ‘thieves literature’ and Dicken’s Oliver Twist to Working Class ‘Penny Readings’” at the National Conference of Undergraduate Research, Memphis, Tennessee, April, 2017.

Terin Weinburg presented “The Absorbed World” at the National Conference of Undergraduate Research, Memphis, Tennessee, April, 2017.

Patricia Miller and Tejal Bhatt presented “Implementing Nursing Evidence into Practice: Hope and Advance Care Planning in a Rural Care Facility” at the National Conference of Undergraduate Research, Memphis, Tennessee, April, 2017.

Kendall Krach presented “Juvenile Delinquency: Is There an Avoidable Pattern?” at the National Conference of Undergraduate Research, Memphis, Tennessee, April, 2017.

Lauren DeLong presented “Isolation, Identification, and Characterization of Local Wild Yeasts for Use In Fermentation” at the National Conference of Undergraduate Research, Memphis, Tennessee, April, 2017.

***Outstanding Student Research (Cont.)***  
***Student Presentations (Cont.)***

***NCUR 2017 (Cont.)***

Taylor Morris-Bates presented “Increasing Donations from a Younger Generation: A Marketing Campaign for MADD” at the National Conference of Undergraduate Research, Memphis, Tennessee, April, 2017.

Ruth Heying and Callista Brown presented “High-Throughput, Fluorescent Analysis of Reactive Oxygen Species in *C. elegans* after Knockdown of *mrck-1*” at the National Conference of Undergraduate Research, Memphis, Tennessee, April, 2017.

Jada Taylor and Amy Wigglesworth presented “Central: An Under 21 Night Club” at the National Conference of Undergraduate Research, Memphis, Tennessee, April, 2017.

Miranda Haney presented “Providing a Voice to the Voiceless through Text in *Ciro Guerra's* ‘Embrace of the Serpent’” at the National Conference of Undergraduate Research, Memphis, Tennessee, April, 2017.

Elizabeth Withers presented an “Analysis of Trichloroethylene in Water” at the National Conference of Undergraduate Research, Memphis, Tennessee, April, 2017.

Laura Baasland presented “The Problematic Structure of the Nonprofit System” at the National Conference of Undergraduate Research, Memphis, Tennessee, April, 2017.

Alison Haley presented “Salisbury University Event App” at the National Conference of Undergraduate Research, Memphis, Tennessee, April, 2017. Co-author Josey Johnson.

Martina Maya-Callen presented “Art, Pollution & Social Practice” at the National Conference of Undergraduate Research, Memphis, Tennessee, April, 2017.

Brendan Gallagher presented “Mortality Salience and Perceptions of Intimacy with Deceased Friends and Classmates” at the National Conference of Undergraduate Research, Memphis, Tennessee, April, 2017.

Samantha Allen presented “A Knockout Mutation in the Yeast *DUF1* Gene Increases Oxidative Stress Survival” at the National Conference of Undergraduate Research, Memphis, Tennessee, April, 2017.

Amber Lahay presented “Campus to Country, is the Consensus on Climate Change Really What You Think It Is?” at the National Conference of Undergraduate Research, Memphis, Tennessee, April, 2017.

## ***Outstanding Student Research (Cont.)***

### ***Student Presentations (Cont.)***

#### ***NCUR 2017 (Cont.)***

Kathleen Nizich, Hannah Davis and Victoria Messinger presented “Salisbury Farm-to-Table Initiative” at the National Conference of Undergraduate Research, Memphis, Tennessee, April, 2017. Co-authors, Marybeth Bidwick and Christopher Thorn.

Emily Hawthorne presented “An exploration of students’ base-ten concepts” at the National Conference of Undergraduate Research, Memphis, Tennessee, April, 2017. Co-author Brittany Ilzuck.

Shannon Maio presented “Personality and charitable giving” at the National Conference of Undergraduate Research, Memphis, Tennessee, April, 2017.

Adam Jump presented “A sharp upper bound on the K-color connection number of a graph” at the National Conference of Undergraduate Research, Memphis, Tennessee, April, 2017.

Kayla Davis presented “Developing 5th Graders' Understanding of Fraction Multiplication” at the National Conference of Undergraduate Research, Memphis, Tennessee, April, 2017. Co-author David Bright.

#### ***Doctoral Program Presentations***

Davis, Andrea, Zoll, Gary presented “History, Literature, & Technology: A Recipe for Secondary PBL.” At the Maryland Council for Social Studies and Maryland Council of Teachers of English Language Arts joint conference, *Literacy: The Key to Engagement*.

McFadden, J., Franzak, J.K., Taylor, C., Briggs, R., Poist, H. presented “Investigating reading capital in rural literacy learning contexts: Students speak up.” at the Literacy Research Association Annual Meeting. Nashville, TN.

Harned, C., Porter, H., Camillo, C, & Franzak, J. presented “From High School to College: Supporting Students’ Self-Advocacy of Literacy Skills.” at the National Council of Teachers of English Annual Conference. Atlanta, GA. 17-20 November 2016.

Harned, C., Porter, H., Camillo, C, & Franzak, J. presented “Promoting Student Agency for Literacy Learning in the Disciplines.” at the 7th Annual SU Teaching & Learning Conference. Salisbury, MD. 17 February 2017.

***Outstanding Student Research (Cont.)***  
***Student Presentations (Cont.)***

**Doctoral Program Presentations (Cont.)**

Porter, H., Harned, C., & Jack, G. presented “Reading in Disciplinary Contexts: Understanding Practices and Perspectives of Upper-Division African American Students.” at the American Educational Research Association Annual Conference. San Antonio, TX. 29 April - 1 May 2017.

Porter, H. presented “Undergraduate Literacy Practices: A Case Study of Disciplinary Learners” Submitted/Pending Approval to Literacy Research Association Annual Conference. Tampa, FL. 29 November-2 December 2017

Christina Camillo presented “Organize Your Curiosity: How to Write in Science” at the Association of Zoo Veterinary Technicians Conference; Tulsa, OK; September 14, 2016.

April Winterson presented “Analyzing Student Book Discussions for CC Standards.” at the Maryland Council of Social Studies & Maryland Teachers of English Joint Conference. October 2016.

***Student Awards, Honors, and other Activities of Distinction***

National NATS Winner

**Jeffrey Todd:** Freshmen/Sophomore Men Classical, 3rd Place, '16

Mid-Atlantic Regional NATS Winners

**Jeffrey Todd:** Second Year Men Classical, 1st Place, '17

Most Outstanding Collegiate Male Vocalist Classical, Winners' Recital,  
'17

**John Wixted:** Fourth/Fifth Year Musical Theater, 2nd Place, '17

**Syed Jaffery:** Third Year Musical Theatre, 3rd Place, '17

MD-DC NATS Winners

**Jeffrey Todd:** 1st Place, Classical, '17

**John Wixted:** 1st Place, Musical Theatre, '17

## ***Outstanding Student Research (Cont.)***

### ***Student Awards, Honors, and other Activities of Distinction (Cont.)***

**Syed Jaffery**: 2nd Place, Musical Theatre, '17

**Desiree Borges**: 1st Place, Musical Theatre, '17

**Maggie Jones**: 2nd Place, Musical Theatre, '17

**Patrick Gover**: 1st Place, Musical Theatre, '17

**Jeremiah Copeland**: 2nd Place, Musical Theatre, '17

#### **Hannah Ennerfelt**:

Fulbright Recipient, 2017

John and Mary Roth Honors Thesis Prize recipient

Undergraduate Honors Thesis, "The Effect of Induced Hyperglycemia on Dorsal Root Ganglia and Sensory Nerves in *Danio rerio*," Salisbury University, Honors College, 2015. Print.

Ennerfelt HE. \*, Clark JK. The Analysis and Effect of Induced Hyperglycemia on the Dorsal Root Ganglion and Sensory Nerves in Zebrafish. Society for Neuroscience Conference 2016.

Ennerfelt HE. \*, Clark JK. The Effect of Induced Hyperglycemia on the Dorsal Root Ganglion and Sensory Nerves in Zebrafish. Northeastern Regional Honors Council Conference 2016.

Ennerfelt HE. \*, Clark JK. The Effect of Induced Hyperglycemia on the Dorsal Root Ganglion and Sensory Nerves in Zebrafish. Salisbury University Summer Research Program 2016.

Ennerfelt HE. \*, Clark JK. The Effect of Induced Hyperglycemia on the Dorsal Root Ganglion and Sensory Nerves in Zebrafish. Maryland STEM Festival. Salisbury, MD 2015.

Ennerfelt HE. \*, Clark JK. Analysis of Hyperglycemic Induction in Zebrafish. Maryland STEM Festival. Salisbury, MD 2015.

## ***Outstanding Student Research (Cont.)***

### ***Student Awards, Honors, and other Activities of Distinction (Cont.)***

#### **Julia Howell:**

Undergraduate Honors Thesis, "Acute effects of hyperglycemia in a chemical-genetic cell ablation model," Salisbury University, Honors College, 2015.

Howell J. \*, Clark JK. Acute effects of hyperglycemia on zebrafish peripheral nerves in a genetic-chemical ablation model. 31st Annual National Conference on Undergraduate Research (2017)

Howell J. \*, Clark JK. Acute effects of hyperglycemia on zebrafish peripheral nerves in a genetic chemical ablation model. Faculty for Undergraduate Neuroscience, Society for Neuroscience 2016.

Howell J. \*, Clark JK. Acute effects of hyperglycemia on zebrafish motor axons in a genetic chemical ablation model. Salisbury University Summer Research Program 2016.

#### **Amanda Rocker:**

Rocker A. \*, Clark JK. A potential link between a connexin41.8 mutation and peripheral neuropathy. Northeastern Regional Honors Council Conference 2016.

**Katelyn Steagall:** "Stereoscope" Second Place Polaris Fiction Contest. 2017.

**Annie Warner:** "Away" Semifinalist. StoryQuarterly Fiction Prize. 2016.

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 See you at the 17<sup>th</sup> Annual Salisbury University  
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