

# SLAM

*Student  
Liberal  
Arts  
Mosaic*

*April 10  
2018*



## LOGISTICS for



*Please Read Carefully!*

*Remove your SLAM Passport from the program.  
Add your name and signature to the back of the Passport.  
Your Passport is your personal ticket into SLAM activities.  
It will be stamped at the door of each session you attend.*

**DO NOT LOSE IT!**

*Many professors will ask to see your Passport as proof of attendance.*

- During Oral Presentations (Sessions II and IV), thematically arranged groups of presentations will be happening **SIMULTANEOUSLY** in **MULTIPLE PLACES** on campus. Check your program carefully and decide which you want to attend. You will only be able to attend one group of presentations in each session. Please remain in that session for all presentations.
- The Arts Break Performances (Session III) are also happening simultaneously in **MULTIPLE PLACES** on campus. The performances begin at 1:30 and last for twenty minutes. They will be repeated at 2:00 so you can attend more than one. You only need to attend one to get your passport stamped.
- To be eligible for one of the Fabulous SLAM Door Prizes, you must be present at the Closing Celebration at 3:30pm in Moore Auditorium and your passport must have four stamps that show you have attended:
  - ✓ Session I (Plenary – Jennifer Pharr Davis) AND
  - ✓ All 3 other sessions (Sessions II, III, IV)
- **What next?** Enjoy our plenary speaker's presentation, then select one of the exciting presentation groups from Session II. Some may be Standing Room Only, so get there early to get a seat!

**HAVE FUN and GET SLAMMED!**

### CREDITS:

Cover Design:

Slam Stage Banner Design:

Natalie DeBruhl (SLAM designs are produced each year by MHU Graphic Design students)

Claudia Cala, Kristin Kilpatrick, Katie Ledford, Jessica Lowman, Hannah McGinnis, Elizabeth Ravel, Cody Webb  
(2007 Apparel & Interior Merchandising students)

# The Plenary Speaker

## Jennifer Pharr Davis

Jennifer Pharr Davis is a hiker, author, speaker, and National Geographic Adventurer of the Year who has covered over 14,000 miles of long distance trails on six different continents.

Jennifer has written six books, articles for the *New York Times*, *Outside* magazine, *Backpacker*, and *Trail Runner*, and has been featured in the *Washington Post*, the *New York Times*, NPR's Talk of the Nation and the CBS Early Show. Her new book *The Pursuit of Endurance* (Viking) comes out in April of 2018 and has been called "a captivating narrative guidebook that will inspire readers to test their own limits, on the trail and off" (Kirkus Reviews).

Jennifer is a professional speaker who has shared her trail adventures across the United States and Europe. She is founder and owner of Blue Ridge Hiking Company, a guiding service that strives "to make the wilderness accessible and enjoyable" for hikers of all ages, genders, and ability levels. Jennifer lives in Asheville, North Carolina, with her husband, Brew; their five-year-old daughter, Charley; and their one-year-old son, Gus.



# ORDER OF CEREMONIES

IN THE ONE HUNDRED SIXTY SECOND YEAR OF MARS HILL UNIVERSITY  
APRIL 10, 2018  
MOORE AUDITORIUM

THE FANFARE:

9:15 A.M.

## ***MHU African and Brazilian Percussion Ensemble***

*Dr. Brian Tinkel and Mr. Justin Mabry, directors*

*Amanda Benavente*

*J.C. Calhoun*

*Elizabeth Daniel*

*Jordan Domangue*

*Andrew Ennis*

*Jordan McCray*

*Sydney Matthews*

*Joyner Myers*

*Raven Poplin*

*Luke Rathbone*

*Brooke Reyes*

*Kendyl Robertson*

*McKayla Smith*

*Amber Towles*

# STUDENT LIBERAL ARTS MOSAIC ... RESEARCH, PERFORMANCE, AND CREATIVITY

## OPENING CELEBRATION:

9:30 – 10:00 A.M.

The Invocation

Adrienne Enoch  
*History*

The Vice President's Welcome

Dr. Carol Boggess  
*Interim Vice President for Academic Affairs*

Welcome from the SLAM Committee

Garrett Farrimond  
*Biology*

Charge to Students, Faculty, and Friends

Mrs. Joy Clifton  
*Assistant Professor of Physical Education*

The MHU Big Band

directed by Dr. Jason Slaughter  
*Jazz Ensemble Director*

*Overture to the Royal Mongolian Suma Foosball Festival*  
*The Jazz Police*

### **Reeds**

Avery Gifford  
*Music Education*

Kendall Ramsey  
*Music Education/Performance*

Joyner Myers  
*Music Education*

Luke Millsaps  
*Music Education*

### **Trumpets**

Michael Benner  
*Music Education*

Lucas Genevie  
*Music Performance*

Megan Towles  
*Music Education*

Matthew Keenan  
*Music Education*

### **Trombones**

Andrew Ennis  
*Music (BA)*

Brian Kurtz  
*Music Education*

Chase Prevette  
*Music Education*

Carlos Cruz  
*Music Education*

### **Guitar**

Joshua Garcia  
*Music Performance*

### **Bass**

Kyle Hottel  
*Music Education*

### **Drums**

Raven Poplin  
*Music Education*

Luke Rathbone  
*Music Performance*

SESSION I: PLENARY SESSION  
A.M.

10:00 A.M. – 10:45

LOCATION: MOORE AUDITORIUM

Introduction of the Speaker

Gabriella Siegfried  
*Political Science / Spanish*  
*Sophomore Class President*

# THE PURSUIT OF ENDURANCE

**Jennifer Pharr Davis**

INTER-SESSION SNACK BREAK

10:45 – 11:00 A.M.  
NEAR ORAL SESSION VENUES

MARS HILL UNIVERSITY

STUDENT LIBERAL ARTS MOSAIC  
... RESEARCH, PERFORMANCE, AND CREATIVITY

SESSION II: ORAL PRESENTATIONS

11:00 – 11:50 A.M

**Session II – A: The Shape of Water World**

**Location: Belk Auditorium**

*Climate Change and the Oceans: The Effects of Increasing Temperature  
on Respiration Rates of a Marine Bivalve*

Coral Foster  
*Biology*

*Collaborative Water Resource Management: Rural Haiti*

Andrea Garber  
*Sociology/Spanish*

**Session II – B: Fish Are Friends, Not Food?**

**Location: Broyhill Chapel**

*Political Animals: Grassroots Advocacy for Animal Rights in North Carolina*

Jordon Edwards  
*Political Science*

*Vegans ,Cavemen and Low-Carbers: Diet as Religion in American Culture*

Kiley Prevatte  
*Religion / Social Work*

**Session II – C: Walking a Fine Line**

**Location: Owen Theatre**

*Kek: The Satirical Religion of the Alt-Right*

James Gilreath  
*History / Religion*

*Coming Up Short: The Feeling of Regret Among University Students*

Jonathan Lewis McClure  
*Psychology*

**Session II – D: Global Frenemies****Location: Thomas Black Box Theatre***Is SRMUN For Me? Gaining Professional Knowledge and Personal Growth Through SRMUN*Jordon Edwards  
*Political Science*Christine Fosesha  
*Political Science / International Studies*James Gilreath  
*History / Religion*Nicholas Hoffman  
*History / Political Science***Session II– E: Flying the Coup****Location: Ferguson Health Sciences Center***Effect of Elevation and Vegetation Type on the Occurrence of Migratory and Resident Bird Species in the Southern Appalachian Mountains*Soren Gurewitz  
*Zoology**From the Mountain to the Valley: Changing Landscape, Changing People*Patricia Thompson  
*Art Therapy***Session II – F: Fit or Fats****Location: Bentley Fellowship Hall***The Effect of Exercise on the Treatment and Prevention of Parkinson's Disease*Danielle Dunn  
*Physical Education**Synthesis and Lipophilic Properties of Metformin Derivative*Lauren Hochstetler  
*Chemistry*



STUDENT LIBERAL ARTS MOSAIC  
... RESEARCH, PERFORMANCE, AND CREATIVITY

LUNCH BREAK

12:00 – 1:15 P.M.

Location: Pittman Dining Hall or on your own

SESSION III: ARTS BREAK

1:30 – 2:20 P.M.

**Each “Act I” performance lasts 20 minutes.  
After a 10-minute intermission, the performances  
will be repeated during “Act II.”  
Please use the intermission to change locations.  
This makes it possible to attend a second Arts Break event.**

**Act I**

**1:30 P.M.**

**Act II**

**2:00 P.M.**

**Arts Break – A**

**Location: Weizenblatt Art Gallery**

*MHU Student Art Exhibit*

Hannah Anders  
*Art*

Kendall Bines  
*Political Science*

Taylor Burgess  
*Art Therapy*

Cristian Arevalo  
*Biology*

Andrew Blanton  
*Business Administration*

Logan Chandler  
*Business Administration*

Michelle Bass  
*Criminal Justice and Social Work*

Anna Britt  
*Business Administration*

Shae Condon  
*Visual Communications Design*

Cameron Connolly  
*Zoology*

Dora Crowe  
*Social Work*

Carlos Cruz  
*Music Education*

Natalie DeBruhl  
*Art*

Thomas Dimitri Ferreira  
*Art*

James Gilreath  
*History and Religion*

Dotson Griffin  
*Art*

Jabria Hill  
*PreNursing*

Kristie Hollifield  
*History / Staff*

Michaela Hulsey  
*PreNursing*

Sarah Ingalls  
*Art*

Madi Johnson  
*Art*

Tory Jones  
*Sociology*

Brittany Leckrone  
*Art*

D'Andre Lewis  
*Undecided*

Michael Lillie  
*Criminal Justice*

Erich Lima  
*Political Science*

Riley Lipman  
*Art Therapy and Art*

Cayla Lovelace  
*Art*

Imani McCain  
*Apparel and Interior Merchandising*

Jonathan McClure  
*Psychology*

Delah McCord  
*Zoology*

Jessica Minton  
*Psychology and Art Therapy*

Desareen Pafford  
*Integrated Education*

Janie Parker  
*English (December grad)*

Amanda Parks  
*Art*

Ann Peiffer  
*Faculty*

Kristina Rogers  
*Psychology*

Emma Roseman  
*Art Therapy*

Jasmin Rudd  
*Art Therapy*

Cassie Shumate  
*Undecided*

Lily Silva  
*Business Administration*

Courtney Jo Simpkins  
*Art*

Arriel Smith  
*PreNursing*

Mikayla Sproul  
*Art*

Patricia Thompson  
*Psychology and Art Therapy*

Allison Tomlin  
*Art Therapy*

Rachel Vierheller  
*Art/Visual Arts*

# STUDENT LIBERAL ARTS MOSAIC ... RESEARCH, PERFORMANCE, AND CREATIVITY

## Arts Break – B

**Location: Broyhill Chapel**

### *A Walk to Freedom*

MHU Gospel Choir

Jazanae Billings  
*Social Work*

Kyler Kee  
*Criminal Justice*

Stephen Blount  
*Criminal Justice (grad)*

Zenobia Lytle  
*Psychology*

Reazhon Chapman  
*Business*

Imani McCain  
*Apparel & Interior Merchandising*

Randolph Fair  
*Graphic Design*

Kayla McClendon  
*Social Work*

Corinthia Friday  
*Music Education*

Emmanuel McMillian  
*Physical Education*

Deondre Grier  
*Social Work*

De'Onna Moore  
*Nursing*

Ashanti Jeter  
*Pre-Nursing*

Anthony Phillips  
*Athletic Training*

Braeden Johnson  
*Theatre*

Jewel Walston  
*Sociology*

## Arts Break – C

**Location: Moore Auditorium**

### *Legends*

Bailey Mountain Cloggers

Hannah Auriemma  
*Biology*

Bailey Clayton  
*History*

Hannah Batten  
*Elementary Education*

Taylor Davis  
*Accounting/Math*

Mian Brown  
*Psychology*

Caitlin Drummond  
*Elementary Education*

Matt Foster  
*Youth Ministry*

Jackie Freeman  
*Nursing*

Rachel Fuquay  
*Nursing*

AnahBelle Hall  
*Criminal Justice*

Ashley Hartley  
*Fashion*

Maryanne Kenna  
*Biology*

Adeline LeMaster  
*History*

Morgan Leverette  
*Elementary Education*

Dayleigh Martin  
*Elementary Education*

Dallas Moffat  
*Criminal Justice*

Morgan Murphy  
*Nursing*

Allyson Puckett  
*Elementary Education*

Katie Puckett  
*Psychology*

Jessica Stigall  
*Business Administration*

## Arts Breaks - D

*Cadenza 2018*

## Location: Peterson Conference Center

A'mera Bellamy  
*Criminal Justice*

Nicholas Bingham  
*English*

Tyler Branch  
*English*

Brittany Leckrone  
*Art*



STUDENT LIBERAL ARTS MOSAIC  
... RESEARCH, PERFORMANCE, AND CREATIVITY

**Arts Break – E**

**Location: Marshbanks 103**

*Stitching Up The Hill*

Katie Lanier  
*Art Therapy*

Meredith Murff  
*Art Therapy*

Riley Lipman  
*Art Therapy*

Jasmine Rudd  
*Art Therapy*

Cayla Lovelace  
*Art Therapy*

Alison Tomlin  
*Art Therapy*

Jessica Minton  
*Art Therapy*

Heather Yochim  
*Art Therapy*

**Arts Break – F**

**Location: Timberline**

*The Mini-Slam at SLAM: A Student Poetry Slam Experience*

Kendall Bines  
*Political Science*

Jaime Kelly  
*Criminal Justice*

Ryan Davis  
*Zoology*

Deonna Moore  
*Nursing*

Patrick Harris  
*Elementary Education*

## SESSION IV: ORAL PRESENTATIONS

2:30 – 3:20 P.M.

### Session IV – A: Connect the Dots

**Location: Belk Auditorium**

*The Influence of Community on First Year College Students*

Angelica Freeman  
*Psychology*

*Non-toxic and Cost Effective Synthesis of CuInS Quantum Dots*

Becca Butler  
*Chemistry*

### Session IV – B: This Land is Whose Land?

**Location: Broyhill Chapel**

*My Brother's Keeper: MHU Experiences In Lobbying for Immigration Reform*

Jordon Edwards  
*Political Science*

Rachel Jernigan  
*Political Science*

*A Nation Removed: Squatters' Role in Cherokee Removal 1785–1837*

Justin Schronce  
*History*

### Session IV – C: Should I Stay or Should I Go?

**Location: Owen Theatre**

*Divided Loyalties: Community vs. Career*

Michael Baker  
*Criminal Justice*

Riley Lipman  
*Art Therapy*

Cody Gilbert  
*Political Science*

Sarah Lorick  
*Athletic Training*

James Gilreath  
*History*

Montana Mick  
*Social Work*

STUDENT LIBERAL ARTS MOSAIC  
... RESEARCH, PERFORMANCE, AND CREATIVITY

**Session IV – D: Flower Power**

**Location: Thomas Black Box Theatre**

*The Effects of Abiotic-Factors on Growth and EFNs of Chamaecrista fasciculata*

Coral Foster  
*Biology*

*Thoracic Central Cord Syndrome in a Collegiate Football Player: A Case Study*

Sara Fahrenbrook  
*Athletic Training*

**Session IV – E: Hairway to Haven**

**Location: Ferguson Health Sciences Center**

*“Credit to the Womanhood of Our Race”: African American Professional Hairdressing in North Carolina 1930s – 1940s*

Jennifer Cardona-Alfaro  
*History*

*Creating Safer Spaces: Serving LGBTQ+ Adolescents in WNC*

Fallon Jae Hyder  
*Social Work*

**Session IV – F: Life in HD**

**Location: Bentley Fellowship Hall**

*Synthesis of Cathinone Adamantane Derivative for the Increase in Lipophilicity*

Savannah Owens  
*Chemistry*

*Game On: Video Games Through the Eyes of Teachers*

Heather Darling  
*Psychology*

CLOSING CELEBRATION

3:30 P.M.

LOCATION: MOORE AUDITORIUM

## PRESENTATION ABSTRACTS

**Bailey Mountain Cloggers: Hannah Auriemma, Hannah Batten, Mian Brown, Bailey Clayton, Taylor Davis, Caitlin Drummond, Matt Foster, Jackie Freeman, Rachel Fuquay, AnahBelle Hall, Ashley Hartley, Maryanne Kenna, Adeline LeMaster, Morgan Leverette, Dayleigh Martin, Dallas Moffat, Morgan Murphy, Allyson Puckett, Katie Puckett, Jessica Stigall**

*Bailey Mountain Cloggers “Legends”*

The Bailey Mountain Cloggers will showcase different styles of Appalachian Folk dance to musical artists that have inspired them to dance. The musicians they have chosen span across many generations and different cultures. Traditional and contemporary clogging, hip hop, tap, Irish, and more styles of dance will be displayed through this performance.

**Kendall Bines, Ryan Davis, Patrick Harris, Jaime Kelly, Deonna Moore**

*The Mini-Slam at SLAM: A Student Poetry Slam Experience*

This presentation will showcase students from various walks of life--students who are coming together in their community, sharing their passions through spoken-word poetry, and expressing their thoughts while portraying their feelings through vivid visuals created using carefully chosen words. This will allow the audience a glimpse of who the artists are, while they share their stories and construct a unique experience that can only be observed when a person releases unbridled emotions in a rhythmic and passionate manner

**Becca Butler**

*Non-toxic and Cost Effective Synthesis of CuInS Quantum Dots*

Quantum dots are semiconductor particles that are extremely small in size and possess unique electronic and fluorescent properties that allow them to be used in pharmacy and biomedicine. One use of quantum dots is for drug delivery, but research has proven that they are capable of preventing diseases due to early detection of cancerous cells. The method of nanoparticle synthesis used was preparing the quantum dots using a pressure cooker method. The quantum dots were analyzed using a spectrophotometer and fluorimeter to test their absorbance and fluorescence at visible wavelengths. The spectrophotometer measures either the amount of light reflected from a QDs or the amount of light that is absorbed by the QDs. The fluorimeter measures the QDs intensity and wavelength distribution of emission spectrum after excitation by a certain spectrum of light. The ability to emit light allows quantum dots to be used for many applications, including as a fluorescent marker.

**Cadenza 2018: A'mera Bellamy, Nicholas Bingham, Tyler Branch, Brittany Leckrone**

*Cadenza 2018*

From the soon-to-be-released 53rd edition of the Cadenza Literary & Arts magazine, this showcase is a sneak-peak selection of included works. These works range from poetry, fiction, and nonfiction to drawings, photographs, 3D art, and paintings. Mars Hill students have worked diligently to create and submit their wide array of artistic expressions, and some of them will share insight into their creative process. The full unveiling of the 2018 issue of Cadenza occur on April 18th, so mark your calendars! We give special thanks to the many students who choose to share their work and make Cadenza possible year after year!



# STUDENT LIBERAL ARTS MOSAIC

## ... RESEARCH, PERFORMANCE, AND CREATIVITY

### **Jennifer Cardona-Alfaro**

#### ***“Credit to the Womanhood of Our Race”: African American Professional Hairdressing in North Carolina 1930s – 1940s***

African American women have historically overcome the stereotypes and limitations placed on them by society. For centuries, African American women have been the least idealized in society, continuously told how to act, look, and behave. These women’s identities were shaped from the ideas and standards developed by the white beauty culture. This presentation examines how African-American women began to define their own beauty norm of hair and its professionalization in African American culture in the twentieth century. It focuses on how southern African- American women, during the 1930s and 1940s, used this beauty ideal to re-identify themselves and gain economic independence to better their lives in the oppressive environment of the Jim Crow South.

### **Heather Darling**

#### ***Game On: Video Games Through the Eyes of Teachers***

What if you were given the opportunity to learn in an environment other than the classroom and move beyond pen and paper? These opportunities are becoming closer to reality for many classrooms thanks to virtual reality. Technology plays a major role in our daily lives; many kids are learning from apps, and before apps were popular, computer games were used. There is strong debate regarding educational gaming in the classrooms. The problem stems from the negative representation video games have received over the years. At the mention of video games, associations are made with common ideas of laziness and violence. These associations are why there has been a shift in labeling educational video games as virtual reality. This talk will investigate the importance of virtual reality in education, and why we should view this new technology with less of a negative outlook but more of an exciting developmental opportunity.

### **Danielle Dunn**

#### ***The Effects of Exercise on Parkinson’s Disease***

Parkinson’s disease is a complicated and slow progressing debilitating neurodegenerative disorder difficult to diagnose and impossible to cure. While quality of life can be improved through medication to treat symptoms, these medications cannot treat the underlying causes of Parkinson’s, often have side effects that are unpleasant, and become less effective in later stages of the disease. Treatment options for these patients should be much easier to administer and should have fewer harsh side effects than those currently available. Limited research suggests that the implementation of exercise as part of a treatment plan improves patient outcomes and has potential to slow the progression of the disease. I will emphasize the importance of an evolving healthcare system in which fitness professionals and primary care providers collaborate to improve treatment of individuals diagnosed with the disease, and the need for further research in the most effective ways in which exercise can be utilized.

### **Jordon Edwards, Rachel Jernigan**

#### ***My Brother's Keeper: MHU Student Experiences in Lobbying for Immigration Reform***

In March, Mars Hill University students had the chance to immerse themselves in our nation's policy-making process, through the Spring Lobby Weekend sponsored by the Friends Committee on National Legislation. We attempted to influence immigration policy, a rising point of public concern. This SLAM presentation will consist of our reflections on this training, immigration policy, and the future of activism. Citizen lobbying plays a key role in influencing legislation and fostering political discourse around any number of important subjects. Furthermore, immigration policy is perhaps one of the most important and timely issues to consider as it concerns so many Americans. Our presentation will discuss both.

### **Jordon Edwards**

#### ***Political Animals: Grassroots Advocacy for Animal Rights in North Carolina***

Local governments in the United States have repeatedly been impacted by constituent activism which has often prompted change on behalf of the people or generated legislative progress for an issue. There has been little scholarly effort, however, to categorize the behaviors of political activism or to understand why it occurs. Unfortunately, North Carolina still finds the non-human animal community vulnerable and in desperate need of bipartisan action to protect their welfare. This presentation examines activism on the local and state level and how it has been a catalyst for change for the animal welfare agenda. Among other initiatives, it will consider animal abuse registries and if that type of policy would be effective for North Carolina.

### **Ethics Bowl Team: Michael Baker, Cody Gilbert, James Gilreath, Riley Lipman, Sarah Lorick, Montana Mick**

#### ***Divided Loyalties: Community vs. Career***

The Mars Hill University Ethics Bowl Team will be doing a live demonstration of a single round of the NCICU Ethics Competition with a case used in the case set from this year's competition. Members of the audience will have the opportunity to participate in the discussion about the loyalties of a young man in the Mennonite community. Information about the ethics bowl team will be discussed during the simulation, and afterwards there will be an opportunity to talk with members of the team and the campus coordinator about interest in participating in next year's competition!

### **Sara Fahrenbrook**

#### ***Thoracic Central Cord Syndrome in a Collegiate Football Player: A Case Study***

An exploration of an athlete who suffered a spinal cord injury after hitting his back on a windowsill. The injury caused neurological symptoms and immediate loss of feeling and function in both of the athlete's legs. The MRI findings concluded that there was spinal stenosis and calcification of a ligament at the T10-T11 intervertebral joint space. The hit to the calcified ligament worsened the patient's stenosis because the impact pushed it further into the spinal canal. This caused the exacerbated narrowing of the canal that would ultimately cause a spinal contusion, or bruise to the spinal cord. Concerning neurological findings with bilateral lower extremity weakness and loss of urinary function is what would ultimately lead to a final diagnosis of thoracic central cord syndrome. The case study explores the anatomy, presentation, diagnosis, treatment, rehabilitation, and uniqueness of a NCAA.

# STUDENT LIBERAL ARTS MOSAIC

## ... RESEARCH, PERFORMANCE, AND CREATIVITY

### **Coral Foster**

#### *The effects of Abiotic Factors on Growth and EFNs of Chamaecrista fasciculata*

Nectaries are nectar-producing glands that have evolved in flowering plants to reward pollinators. Extrafloral nectaries (EFNs) are nectaries located outside of flowers, used to attract protectors to reduce herbivory. The environment plays an important role in the growth of plants. While little research has tested the effects of abiotic factors on EFNs, they are likely to be affected as well. This study tests the effects of abiotic factors on EFN growth and nectar production in *Chamaecrista fasciculata*. We will manipulate fertilizer and water, then measure EFN number, EFN size, the volume of nectar produced by each EFN, and the sugar concentration of the nectar. Since fertilizer tends to increase plant growth, we predict that the fertilizer treatment will produce a greater number of more productive EFNs. Additionally, since nectar contains a lot of water, we expect that the high water treatment will produce a greater volume of EFN nectar.

### **Coral Foster**

#### *Climate Change and the Oceans: The Effects of Increasing Temperature on Respiration Rates of a Marine Bivalve*

Global climate change is affecting the oceans. As temperatures rise, ocean water is becoming warmer and more acidic. These changes affect living conditions for many coastal marine organisms. During the summer of 2017, I conducted research at MOTE Marine Laboratory and Aquarium in Sarasota, Florida on the Gulf of Mexico. Our group was interested in the ability of scallops and clams to survive changing ocean conditions. We examined the effect of warming ocean temperatures on oxygen usage by *Donax variabilis*, a marine bivalve. We examined ex situ respiration rates of *D. variabilis* at 25 °C and 30 °C. Respiration rates increased as temperature increased across all experimental trials. These preliminary results support findings from earlier studies that as temperature increases, respiration rate increases until the bivalves become thermally stressed and lethargic. Results from this and similar studies provide baseline data for managing marine ecosystems as climate change progresses.

### **Angelica Freeman**

#### *The Influence of Community on First Year College Students*

We all know a student we met in our freshman year at Mars Hill University that transferred by sophomore year. Why does this happen? Is it because of the school, or is it something in particular that the student has, or has not, done? Within the past two years, MHU has implemented the First Year Connections (FYC) point program in the first year student curriculum. This presentation will be looking in-depth at the four categories of FYC points to explore the difference in what students are selecting to report for points, and how what they are attending relates to their sense of belonging on campus. Does a sense of belonging help encourage students to stay at MHU?

## **Andrea Garber**

### ***Collaborative Water Resource Management: Rural Haiti***

Access to clean drinking water is a concern that exists globally, especially within the developing world. Rural Haiti is an example of a location that faces the struggle for clean water on a daily basis. Specifically one rural Haitian community called Patrico, experiences this struggle for access to clean water. Often, it is the focus of nongovernmental organizations to address water scarcity issues in the developing world. In the past, many organizations have attempted to address these problems, but have failed to create a sustainable form of water resource management. This failure can often be attributed to lack of collaboration between NGOs and recipient communities on water resource management. This research offers an analysis of St. John Day's 8 step model for community based water resource management, as well as a conceptual application of this model to the current state of water in Patrico, Haiti.

## **James Gilreath**

### ***Kek: The Satirical Religion of the Alt-Right***

For the past few years, a white supremacist group known as the "Alt-Right" has formed among popular online anonymous message boards such as 4chan. Parallel to the rise of this new movement references to a mysterious esoteric religion, the Cult of Kek, have also arisen. My research seeks to examine the role that this satirical religion fulfills for this new hate group as well as provide insight to the religious discourse that is being produced by this white supremacist movement. By analyzing speeches, news reports, books, peer-reviewed articles, videos, memes, and tweets this presentation will provide a report and analysis of what is currently happening in society.

## **Gospel Choir: Jazanae Billings, Stephen Blount, Reazhon Chapman, Randolph Fair, Corinthia Friday, Deondre Grier, Ashanti Jeter, Braeden Johnson, Kyler Kee, Zenobia Lytle, Imani McCain, Kayla McClendon, Emmanuel McMillian, De'Onna Moore, Anthony Phillips, Jewel Walston**

### ***A Walk to Freedom***

The Mars Hill Gospel Choir began in 2014 under the leadership of Stephen J. Blount, an alumni of Mars Hill University. Starting out with just three dedicated members, the choir offered a new sound to the university and continued to grow in number. The choir is thankful for the opportunity to participate in many events such as the annual Martin Luther King Jr. Breakfast held in Asheville, NC. This presentation, "A Walk to Freedom", is an array of songs that will march the audience through time from old Negro spirituals to the modern gospel music we listen to today. The Mars Hill Gospel Choir would like to thank you for your attendance today! We hope you all enjoy!



# STUDENT LIBERAL ARTS MOSAIC

## ... RESEARCH, PERFORMANCE, AND CREATIVITY

### **Soren Gurewitz**

#### *Effect of Elevation and Vegetation Type on the Occurrence of Migratory and Resident Bird Species in the Southern Appalachian Mountains*

The areas in which a particular species can live are often dependent on elevation and vegetation. These two environmental characteristics were studied in three migratory (e.g., Black-throated Green Warbler) and three resident (e.g., Northern Cardinal) bird species in the southern Appalachian Mountains. Elevation was broken up into three categories, low (380-685 m), medium (685-1100 m), and high (>1100 m), while vegetation was broken up into two categories, forest edge and interior. The point-count method was used at 18 individual sites within three larger study areas. This method consists of standing in the same location for ten minutes and counting individual birds using both visual and auditory sightings. My results support that resident bird species are overall less dependent on particular elevation and vegetation requirements than migratory species. These findings for my selected study areas are consistent with the findings in similar studies previously published.

### **Lauren Hochstetler**

#### *Synthesis and Lipophilic Properties of Metformin Derivative*

Metformin is a common pharmaceutical drug, most known for its use in the treatment of type II diabetes. Type II diabetes is a hyperglycemic effect in which the insulin produced by the pancreas is not able to transport sugar properly from the blood to tissue cells. Metformin is a guanidine drug that works to sensitize the cells to insulin, a function that is lacking in type II diabetes. Prodrugs are inactive bioreversible derivatives of molecules that improve the physiochemical properties of the original drug. Research into the mechanism and absorption shows potential in synthesizing Metformin prodrug derivatives to improve its overall lipophilicity. This research is being conducted in hope of finding and synthesizing a prodrug of metformin that displays more favorable physiochemical properties that may eliminate negative side effects of the drug and lower the dosage that is currently required for the treatment of type II diabetes.

### **Fallon Jae Hyder**

#### *Creating Safer Spaces: Serving LGBTQ+ Adolescents in WNC*

For youth in North Carolina who identify as LGBTQ+, it is a challenge to find services that cater to their individual needs. Identifying as LGBTQ+ can be difficult for even the most confident and supported of people. However, coming out to a receptive environment is rare for many. It is important that youth have access to resources in their communities. Youth Outright is a Buncombe County agency that services eighteen area counties and provides advocacy and support to youth in need. Although this agency does all they can in their community, there is still much work to be done. Research is being conducted to explore long-term goals service direction in WNC. This presentation will explore current resources available, and the needs regarding LGBTQ+ clientele of two of the eighteen area counties that are working towards LGBTQ+ inclusion, as well as identify needs that are still unmet in these communities.

**Katie Lanier, Riley Lipman, Cayla Lovelace, Jessica Minton, Meredith Murff, Jasmine Rudd, Alison Tomlin, Heather Yochim**

*Stitching Up The Hill*

Our Art Therapy Applications class (PSY 321) is a community engaged course. We partner with different organizations in Western North Carolina in order to implement socially informed art projects. This semester, we are working with an adult daycare facility and an afterschool program to create a community quilt that reflects the importance of relationships across generations.

We've enjoyed this project so much that we've decided to create a quilt with our Mars Hill Campus Community. The theme, however, will be a bit different than the one we've created with our community partners. Participants will meet in Marshbanks room 103 and will be asked to create a fabric quilt square depicting what they like about Mars Hill. Through the creation of this quilt, we are hoping to foster an appreciation for our community. No formal art experience (or quilting/sewing experience) necessary

**Jonathan Lewis McClure**

*Coming Up Short: The Feeling of Regret Among University Students*

Life is a series of choices followed by reward or failure. The series of choices an individual makes ultimately affect their outlook on life, as well as, their perspective. However, according to Zeelenberg's (1999), regret is deeper than the simplistic black and white ideals people normally perceive regret as. "Regret is negative, cognitively bad emotion that we experience when realizing or imagining that our present situation would have been better if we had we acted differently." But is regret simply a matter of experience of expectation or is convoluted and ultimately a product of imagination as a whole? This presentation dives head first into regret and the emotions occupying it as it presents the results of a psychological study performed at MHU. Live. Learn. Grow.

**Model U.N.: Jordon Edwards, Christine Foresha, James Gilreath, Nicholas Honeycutt, Brandon Rice**  
*Is SRMUN For Me? Gaining Professional Knowledge and Personal Growth Through SRMUN*

Students will learn about the Southern Regional Model United Nations (SRMUN) from their colleagues who have participated in this competition which takes place every March/April in Charlotte. At SRMUN, students from over 60 institutions compete as delegates of their country in all of the committees in which their country has representation in the real United Nations. Delegates must perform extensive research of the issues to be debated in their committees, their country's position on these issues, the positions of the other delegates, as well as the rules of UN diplomacy in order to reach resolution. Student participants at SRMUN will discuss the importance for others to become knowledgeable of international events and the role that the United Nations plays in global politics. They will also share the importance of gaining practical experience in rigorous scholarly research, library resource literacy, and public speaking in moving into the world of work.

# STUDENT LIBERAL ARTS MOSAIC

## ... RESEARCH, PERFORMANCE, AND CREATIVITY

### **Savannah Owens**

#### *Synthesis of Cathinone Adamantane Derivative for the Increase in Lipophilicity*

Adderall is a drug used to treat attention deficit disorder (ADD) and attention deficit-hyperactivity disorder (ADHD). The chemical name for Adderall is amphetamine which is found as a pair of optical isomers, dextroamphetamine and levoamphetamine. The difference between the two is stimulant potency and chirality, in which dextroamphetamine is more commonly used because of its chirality. In this research, I attempted to synthesis cathinone, a dextroamphetamine derivative, using organic chemistry reaction techniques. I then added 1-bromoadamantane to make a derivative that should be more lipophilic and increase the effectiveness of the cathinone. NMR will be used to confirm the structures and testing of lipophilicity will be tested.

### **Kiley Prevatte**

#### *Vegans, Cavemen and Low-Carbers: Diet as Religion in American Culture*

There has recently been a rise of discussion regarding the interaction of religion and diet in America. This conversation is taking place in several fields ranging from scholarly individuals to chat rooms pertaining to a certain workout regimen to evangelical Christians. By analyzing the discussion around these two topics, there are three main types of claims regarding diet in relation to religion. Through looking at these arguments in comparison to the role that diet currently plays in American culture, there is much to learn about the role of religion. The ideas indicate a possible shift in the role the religion plays in this culture.

### **Justin Schronce**

#### *A Nation Removed: Squatters Role In Cherokee Removal 1785 – 1837*

This presentation focuses on squatters and their importance in creating tensions between the Cherokee Nation and federal and state governments. The Agreement of 1785 marks the first time the United States made a land treaty with the Cherokee. Squatters were one of many reasons that Cherokee people were forcibly removed from their land and moved to Indian Territory in present-day Oklahoma. White settlers moved into and took land from the Cherokee, believing they had a right to the land because God had “ordained” it. This land grab started a downward spiral that led to the forced mass migration of the Cherokee, a recognized sovereign nation.

**Student Artists: Hannah Anders, Cristian Arevalo, Michelle Bass, Kendall Bines, Andrew Blanton, Anna Britt, Taylor Burgess, Logan Chandler, Shae Condon, Cameron Connolly, Dora Crowe, Carlos Cruz, Natalie DeBruhl, Thomas Dimitri Ferreira, James Gilreath, Dotson Griffin, Jabria Hill, Kristie Hollifield, Michaela Hulsey, Sarah Ingalls, Madi Johnson, Tory Jones, Brittany Leckrone, D’Andre Lewis, Michael Lillie, Erich Lima, Riley Lipman, Cayla Lovelace, Imani McCain, Jonathan McClure, Delah McCord, Jessica Minton, Desareen Pafford, Janie Parker, Amanda Parks, Ann Peiffer, Kristina Rogers, Emma Roseman, Jasmin Rudd, Cassie Shumate, Lily Silva, Courtney Jo Simpkins, Arriel Smith, Mikayla Sproul, Patricia Thompson, Allison Tomlin, Rachel Vierheller**

#### *MHU Student Art Exhibition*

The MHU Student Art Exhibition is open to any student enrolled in an Art course during the Fall and Spring Semester. Student work is submitted to, and juried by MHU Art Faculty in categories of drawing, painting, collage, printmaking, photography, graphic design, illustration, ceramics and sculpture. The exhibition dates are March 28 – April 20.

**Patricia Thompson***From the Mountain to the Valley: Changing Landscape, Changing People*

Madison County and the surrounding community has a rich history, much of which is well-documented in the Southern Appalachian Archives at Mars Hill University. As a Hart-Melvin archival research fellow, I spent the fall of 2017 searching the Southern Appalachian Archives for materials regarding land use history in Madison county. Bailey Mountain is Mars Hill's most iconic peak and is described and photographed in college and university scrapbooks, yearbooks, newspapers and diaries. I will give a brief history of Bailey Mountain's role in the life of the town and university. Then, through sharing primary materials including diaries, letters and photographs, I will explore ways in which ordinary people depended on, connected to and exploited the land in western North Carolina.

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Alpha Chi  
 Eddie Ball  
 Campus Activities Board  
 Chartwells staff  
 Iva Coates  
 Lora Coomer  
 Brett Coomer  
 Kristie Hollifield  
 Information Technology Staff  
 Dan Lunsford  
 Kenn Kotara & the Graphic Design students  
 James Neadstine  
 Nina T. Pollard  
 Richard Seagle  
 Brian Tinkel & MHU Percussion Ensemble  
 Jason Slaughter & MHU Big Band  
 The dedicated Students, Staff, Faculty, and Friends of Mars Hill University



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NOTES

## NOTES

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