

SLAMM

SLAMM

SLAMM

Student **L**iberal **A**rts **M**osaic

April 11th

LOGISTICS for

SLAM

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 I, II, and V), 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 IV) 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.
- To be eligible for one of the Fabulous SLAM Door Prizes, you must be present at the Closing Celebration at 3:45 pm in Moore Auditorium and your passport must have four stamps that show you have attended:
 - ✓ Session III (Windsor Hanger) AND
 - ✓ at least 3 entire sessions from the other four options (Sessions I, II, IV, V)
- **What next?** Select one of the exciting presentation groups from Session I. Hurry on over to its location. Some may be Standing Room Only, so get there quick to get a seat!

HAVE FUN and GET SLAMMED!

CREDITS:

Cover Design:

Samantha Mazzilli

Slam Stage Banner Design:

Claudia Cala, Kristin Kilpatrick, Katie Ledford, Jessica Lowman, Hannah McGinnis, Elizabeth Ravel, Cody Webb

ORDER OF CEREMONIES

*In the One Hundred Fifty-fifth Year of Mars Hill College
April 11, 2012
Moore Auditorium*

THE FANFARE: Mars Hill College Percussion Ensemble

8:45 A.M.

*Corey Brown, Sam Cobb, Charlie Edwards, Taylor Hawkins
Aino Kärnä, Josh Linhart, Nick Love, Anthony Sabatino
Colton Stewart, Austin Williams*

Dr. Brian Tinkel, director

OPENING CELEBRATION

9:00 – 9:20 A.M.

The Invocation

Jon Richt
Physical Education Major

The Vice President's Welcome

Dr. John Wells
Executive Vice President

Welcome from the SLAM committee

Dani Franco
Social Work Major

Tyler Carlson
History Major

Charge to the Students, Faculty, and Friends

Mrs. Joy Clifton
Instructor of Physical Education

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... of Research, Performance, and Creativity

SESSION I: ORAL PRESENTATIONS

9:30 – 10:15 A.M.

Session I–A: *In Over Our Heads*

Location: Owen Theater

Reconstructing Relative Sea Levels Using Micro-fauna Zonation in Peri-tidal Pools

Jaime Little
Zoology Major

Kenya: A Country in Need of Much but Can Offer More

Misha Price
Biology Major

Session I–B: *Horn of Plenty*

Location: Broyhill Chapel

Meeting Food Necessities in Western North Carolina

Alexandra Van Dusen
Zoology Major

The Effect of Pat Age on Population Abundance, Species Richness And Shannon Diversity on Hard Bodies Dung Dwelling Beetles (Scarabaeidae, Histeridae, and Hydrophilidae)

Josh Doby
Biology and Chemistry Major

Session I–C: *Change It Up*

**Location: Wren Student Union
(Belk Auditorium)**

Can Computer Games Make You Smarter?

Lea Foden
Psychology Major

Curcumin: Its Antioxidant and Antimicrobial Properties with Derivatives

Kiernan Limming
Biology and Chemistry Major

INTER-SESSION Snack Break

**10:15 - 10:30 A.M.
*Near Oral Session Venues***

SESSION II: ORAL PRESENTATIONS

10:30 – 11:15 A.M.

Session II–A: *Germ Free Zone*

Location: Owen Theater

Antimicrobial Activity of Essential Oils

Taylor Dawn Banks
Biology Major

*The Inhibitory Effects of *Desmognathus Quadromaculatus*
Secretions of *Pseudomonas Aeruginosa**

Megan Trasport
Zoology and Biology Major

Session II–B: *Fellowship of the Rings*

Location: Broyhill Chapel

Thinking Styles and Movement

BJ Tankersley
Psychology Major

Synthesis of Oxabicycloheptene Rings

Ariel Sheppard
Chemistry Major

Session II–C: *Deep Roots*

**Location: 200 Wren College Union
(Belk Auditorium)**

Witness in the Dirt: Land Use and Appalachian Values

Jordan Crawford
Zoology Major

*Genetic Expression of CYP2A6 and DRD2 and its Effect
On Personality Traits*

Misha Price
Biology Major

INTER-SESSION Snack Break

11:15 - 11:30 A.M.
Near Oral Session Venues

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SESSION III: PLENARY SESSION

11:30 A.M. – 12:15 P.M.
Location: Moore Auditorium

Introduction of the Speaker

Dr. Beth Vogler
Professor of Social Work
SLAM Committee Representative

Windsor Hanger
President and Publisher
HER CAMPUS MEDIA

**How to Start a Business and Achieve Your Dreams
with No Money, No Experience, and No Business Education**

LUNCH BREAK

12:15 – 1:30 P.M.
Location: Pittman Dining Hall
or on your own

SESSION IV: ARTS BREAK

1:30 – 2:30 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.

1:30 P.M.

“Act I”

Arts Break–A

Location: Owen Theatre

Musical Theatre Reflections

Joshua Miller
Sarah Richardson
Joshua Stein
Brittany Hazeldine
Mary Elise Jones
Chandler Smith
Musical Theatre Majors

Assisted by Virginia McKnight

Arts Break–B

Location: Broyhill Chapel

20 Fingers, 88 Keys, & 8800 Moving Parts

Sarah McCoy
Vinnie Agrusa
Music Majors

Arts Break–C

Location: Peterson Conference Center

Cadenza 2012: Breathe Free

Rachel Connor
English and Spanish Major

Heather Lane
English and Graphic Design Major

Mars Hill College

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Intermission

2:00 P.M.

“Act II”

*All performances from “Act I” will be repeated during “Act II.”
Please attend a second Arts Break event.*

INTER-SESSION Snack Break

2:30 - 2:45 P.M.
Near Oral Session Venues

SESSION V: ORAL PRESENTATIONS

2:45 - 3:30 P.M.

Session V–A: *Life and Death*

Location: Owen Theater

The Effects of pH Ion Concentration on Cardiolipin-Cytochrome C Binding

Drew Rohskoph
Biology Major

Early Birds vs. Night Owls: Who Has the Advantage in a College Environment?

Evie-Noel Tafunai
Biology Major

Session V–B: *Under the Sun*

Location: Broyhill Chapel

T-Shirt Democracy: The Effectiveness of Customer Empowerment in New Product Development

Jessica Green
Apparel and Interior Merchandising Major

An Examination of Three Compounds Found in Sunscreens and their Antioxidant and Free Radical Scavenging Properties

Becca Sellars
Chemistry Major

Session V–C: *The Extinction of Truth*

**Location: 200 Wren College Union
(Belk Auditorium)**

Exhibiting Filipinos: Imperialism and Racism at the 1904 World's Fair

Traci Jo Morgan
History Major

What Is a Dinosaur? What the Media May Not Have Told You

Caitlin Teague
Zoology Major

CLOSING CELEBRATION

3:45 P.M.

Location: Moore Auditorium

Student Liberal Arts Mosaic

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*The MHC Student Liberal Arts Mosaic
. . . of Research, Performance, and Creativity*

Mission Statement

The Mars Hill College Spring SLAM:

- showcases student research, performance, and creativity
- provides an opportunity for the Mars Hill College community to celebrate, recognize, and promote student accomplishment across a range of academic pursuits
- fosters and encourages a campus culture that honors and rewards the hard work, dedication, and discipline that lead to success and achievement in liberal education, in professional life, and in the world

The Spring SLAM provides an opportunity for Mars Hill College students to exhibit their creativity and energy to an audience that includes not only the entire campus community (students, faculty and staff), but also the wider college family (trustees, alumni, and friends of the college). During the sessions, panels, and exhibits of the Spring SLAM, students present the best of their work in a wide variety of subject areas and formats, sharing it in a spirit of intellectual competition and cooperation.

Presentation Abstracts

Taylor Dawn Banks, *Antimicrobial Activity of Essential Oils*

The essential oils of tea tree, lavender, and clove have been proven in many studies to exhibit antimicrobial activity. The mode of action of growth inhibition can be measured through different tests on the organisms of *Pseudomonas aeruginosa*, *Staphylococcus aureus*, and *Candida albicans*. These three organisms are model Gram-positive, Gram-negative and yeast species and can further explain the effects that essential oils have on different microbes. Therefore, by measuring the zone of inhibition, cell viability assays, and cellular respiration we can determine the activity of each essential oil against each organism. Also, we can determine which essential oil has broad spectrum capabilities and which oils are specific to organisms.

Rachel Connor, Heather Lane, *Cadenza 2012- "Breathe Free"*

Cadenza, the Mars Hill College Literary and Art Magazine, showcases selections from the upcoming spring publication. Our magazine offers students an artistic venue that celebrates creativity. "Breathe easy" during this arts break as your peers read their stories, recite their poems, and reveal their art work.

Jordon Crawford, *Witness in the Dirt: Land Use and Appalachian Values*

The history of land use in the Appalachian region can be related to strong personal values of mountain people, for example community, neighborliness, spirituality, and stewardship. Personal values, such as religious beliefs, influenced how Appalachian people treated their relationship with the natural environment. The Farmer's Federation of the late 1920s and 1930s and the Lord's Acre initiative in the 1930s are two organizations that exemplified mountain values and in turn tremendously shaped the mountain community. Despite its humble beginnings, the Lord's Acre was a far-reaching program that influenced people all over the world, and its influence continues into many successful local organizations in western North Carolina today.

Joshua Doby, *The Effect of Pat Age on Population Abundance, Species Richness and Shannon Diversity on Hard Bodied Dung Dwelling Beetles (Scarabaeidae, Histeridae, and Hydrophilidae)*

Dung dwelling beetles are an extremely valuable part of nearly every ecosystem. They redistribute nutrients and dispose of animal waste. In addition, dung beetle feed on the larvae of flies and gastrointestinal parasites and serve to control the populations of those pests. This study examined how the diversity and abundance of dung beetles varied among seasons of the year and with the age of a cow pat (manure). I tested population abundance, species richness and Shannon diversity in hard bodied dung dwelling beetles (families: Scarabaeidae, Histeridae, and Hydrophilidae) in Madison County North Carolina. During three seasons, cow pats were collected at each ages 1, 2, 3, 4, 5, 6, 7, 9 and 14 days old. A floatation method was used to extract the beetles. Pats 2 to 5 days old had the highest species richness and population abundance in the summer, and pats 3 to 7 days old had the highest species richness and population abundance in the fall. Moreover, the species composition varied with age and season. The results show how a great number of species can coexist and fill a wide range of ecological niches within a very small area.

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Lea Foden, *Can Games Make You Smarter? Computer Games and Intelligence*

Computer games are often scorned for the negative effects on those who play them. However, research has found evidence that computer games have the potential to increase problem solving abilities. Commercial computer games call on certain aspects of intelligence because of the nature of the games. Games that involve high levels of problem solving or strategizing call on fluid intelligence abilities. This presentation will discuss a project in which 30 students from Mars Hill College volunteered to participate. They were given a problem solving activity before playing a computer game. After the game, they were given the activity again. The study examined the changes in problem solving abilities.

Jessica Green, *T-shirt Democracy: The Effectiveness of Customer Empowerment in New Product Development*

Customer empowerment is an emerging model in product development that involves customer input in new product designs- customers may design new products, give input on product designs or both. There are many examples of this model being used by businesses online- like threadless.com – an online t-shirt store where customers submit and vote on t-shirt designs. However, there are no examples of customer empowerment being used in an actual brick and mortar store. This project seeks to study the effects of customer empowerment in a physical environment by involving students in designing t-shirts as potential merchandise for the college bookstore. This project concludes by comparing the effectiveness of customer empowerment in this setting to studies that have been done on the effectiveness of customer empowerment in various online stores.

Kiernan Limming, *Curcumin: Its Antioxidant and Antimicrobial Properties, with Derivatives*

Curcumin is a naturally occurring compound which is found in Tumeric and draws attention for its properties including antimicrobial, antioxidant, and anti-carcinogenic. The study presented includes the antioxidant and antimicrobial properties of the original curcumin with a comparison to synthesized derivatives with changed six member aromatic rings to five member rings. For the antioxidant properties there has been research that suggests the phenolic OH group contributes the most to antioxidant strength; there is no literature found based on the structure with the furan aromatic ring. The antimicrobial characteristics of this compound have little information in the literature and none for the same methods as this study, which include using discs on agar and measuring the inhibition of growth against the bacteria. This study is novel and the interest is in conjugation of the ring and how it will affect the scavenging properties and antimicrobial strength.

Jaimie Little, *Reconstructing Relative Sea Levels Using Micro-fauna Zonation in Peri-tidal pools*

Due to rising sea levels in the Chesapeake Bay region, the Bay's coastal wetlands are being threatened. Wetlands are important ecosystems; they have strong moisture gradients, a distinctive zonation between flora and fauna, and hold an excellent archive of their history. By using statistical analyses to quantify foraminifera species distribution and relate species assemblages to elevation and salinity gradients, recent sea levels for specific marshes can be reconstructed; sea level trajectory can aid in restoration priorities. Based on the information we gathered from three study sites on the Bay, the data, r^2 , and root mean squared error values show promise for future predictive studies relating to sea level change.

Sarah McCoy, Vinnie Agrusa, *The Two-Person Orchestra: 20 Fingers, 88 Keys, and 8,800 Moving Parts*

While most musicians find themselves rehearsing and performing with large ensembles, pianists experience the majority of their practicing by themselves, with just the piano to entertain. An ensemble experience for a pianist is often overlooked. There is a certain adaptation and technique that comes with the addition of another pianist on the bench. Within the last 200 years, the repertoire for the piano ensemble has grown tremendously. Composers, such as Dennis Alexander, Norman Dello Joio, Claude Debussy, and Ludwig van Beethoven, have allowed pianists to explore a broad range of duet repertoire, both as original works and arrangements, at various levels of difficulty. By exploring these works, pianists are able to further their knowledge of duet technique and ensemble protocol as well as having a wonderful one-piano, four hands experience.

Joshua Miller, Sarah Richardson, Joshua Stein, Brittany Hazeldine, Mare Elise Jones, Chandler Smith, *Musical Theatre Reflections*

It has been said that “theater is a reflection of life”. Our presentation hopes to demonstrate how musical theatre, literature, and performance styles have changed over the past one hundred years to more accurately and effectively reflect the current issues, ideas and moral standards of a particular era. The Roman philosopher and dramatic critic Horace noted that excellent theatre employs both an entertainment and a didactic function. Musical Theatre is an ideal communication medium that fulfills both of these functions in an aesthetic way that many times can reach people more effectively than conventional means of communication.

Traci Jo Morgan, *Exhibiting Filipinos: Imperialism and Racism at the 1904 World's Fair*

The 1904 World's Fair, held in St. Louis, Missouri, was an enormous production, the largest such fair ever held. Organizers planned it as an educational fair, and they hoped to bring the old way of learning through textbooks to life. They saw the Louisiana Purchase Exposition as fairgoers' opportunity to experience the “University of the Future.” This fair would do something new: it would bring together what fair organizers called “the first assemblage of World's people.” It would transport distant peoples to the urban United States in a grand international showcase. Louisiana Purchase Exposition officials saw this assemblage as part of their educational mission. But one of these exhibits, the Philippines exhibit, became more than a simple introduction to a different culture. It was used as an imperialist propaganda tool.

Misha Price, *Kenya: A Country in Need of Much but Can Offer More*

On my second trip back to Kenya, in the summer of 2011, I spent 3 months there on missions. I helped lead 60 people on their first mission trips, connecting them to the culture and leading them in their humanitarian projects. During my time there I was involved in working at two hospitals, two orphanages, and a refugee camp. I spent much of my time immersing myself in the culture and made frequent trips to different towns in Kenya, as well as into the bush of the Great Rift Valley to work with the Masaai people. Through the many experiences, some good and some tragic, I returned home with a transformed perspective that has changed my life for the better. I hope to shed light on the many ways we can help others in countries like Kenya through the talents and education we have, but even more, the abundant blessings you receive from the people there when you go.

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Misha Price, *Genetic Expression of CYP2A6 and DRD2 and its Effects on Personality Traits*

My research, funded by the Title III Student Research grant, is a synergy of genetics and the social sciences. It attempts to show a connection between different versions of two genes within our genome and specific personality traits we display. The two genes being analyzed are CYP2A6 and DRD2, both known to have an influence on a person's social behaviors and even their choice of friends. CYP2A6 is known to have an effect on openness, which is one of the five personality traits the NEO-PI test examines. The other personality traits being identified with the NEO-PI are: conscientiousness, extraversion, agreeableness, and neuroticism. The volunteers from the student body had their DNA isolated and analyzed for the expression of these two genes and they also took the NEO-PI. The results from both lab based research and the survey are compared to find if social behavior is correlated with different versions of these two genes.

Drew Rohskopf, *The Effects of pH and Ion Concentration on Cardiolipin- Cytochrome C Binding*

The protein cytochrome c is anchored to the lipid cardiolipin in the mitochondria of cells. During programmed cell death cytochrome c dissociates from cardiolipin and permeates the outer membrane of the mitochondria. While the complete mechanism of this action is still unknown, more can be learned about the system in order to gain a better understanding of cell death. Increasing calcium concentrations have been seen during cell death and cytochrome c release, which could be connected to the phenomenon of cytochrome c dissociating from cardiolipin and continuing its path out the mitochondria. The relevance of this research revolves around the fact that the release of cytochrome c from the mitochondria marks the inevitable continuation of cell death. If more is known about the system, actions can be taken to cure diseases where cell death is either overregulated or under regulated such as Alzheimer's disease and cancer, respectively.

Becca Sellar, *An Examination of Three Compounds Found in Sunscreens and their Antioxidant and Free Radical Scavenging Properties*

Antioxidants are a crucial part of life because they are capable of stopping oxidation reactions, and therefore can stop or even prevent free radical damages within an organism. This is an important mechanism because uncontrolled free radical damage can lead to serious health problems in an organism, such as cancer. To better understand how antioxidants can play a role in the prevention of cancer, this study takes a closer look at the antioxidant properties of some compounds commonly found in sunscreens. These compounds, avobenzone, oxybenzone, and octocrylene, as well as the well known antioxidant Vitamin C were all tested at varying concentrations for their free radical scavenging abilities using two chemical and analytical techniques, DPPH and FRAP testing methods.

Ariel Sheppard, *Synthesis of Oxabicycloheptene Rings*

Laurenditerpenol is a molecule that has been shown to be an effective anticancer agent. However, the total synthesis has not been achieved because its structure is composed of two rings called oxabicycloheptene and cyclohexanol. These rings are a challenge to synthesize due to their bridged portion and the four stereogenic centers that are present in the rings. It is proposed that using a Diel-Alder reaction, the synthesis of this oxabicycloheptene ring is possible which can then be used as a step in the total synthesis of Laurenditerpenol. Before synthesizing the ring with stereogenic centers, it is useful to test the synthesis on simpler model compounds. This project involved synthesizing these compounds from combinations of 2 different dienes (furan, and cyclopentadiene) and two dienophiles (methyl acrylate and methyl crotonate) for a total of four different products containing the oxabicycloheptene ring. After synthesis, the products were analyzed using IR, ¹H NMR, and UV-Vis spectroscopy.

Evie-Noel Tafunai, *Early Birds vs. Night Owls: Who Has the Advantage in a College Environment?*

Circadian rhythms are influenced by many factors including the length of a specific human gene known as the Period 3 gene. The variation in this gene's length is correlated with a person's tendency to wake early in the morning or stay up late into the evening. These sleeping preferences have been shown to influence levels of alertness during activities throughout the day, with night owls exhibiting greater staying power than early birds when allowed to sleep until waking naturally at their preferred hour. In this study, the goal was to compare the staying power of early birds compared to night owls under the restraints of a college environment where most students are forced to rise at an earlier hour than preferred. Mars Hill College students were genotyped, asked to keep sleep logs, and asked to perform tests of alertness to determine whether these factors had an effect on their staying power.

BJ Tankersley, *Thinking Styles and Movement*

Some research suggests that movement through different forms such as exercise, dance, and controlled movement (e.g., rocking) enhance and stimulate thinking such as creativity and problem solving. The purpose of our study was to look at the relationship between thinking styles, problem solving, and controlled movement. The question we were interested in was: "Does movement affect thinking styles?" We recruited 60 participants to view word problems and then if they could not solve the problems, they were asked to either move (rock back and forth) or sit still. We predicted that movement will enhance problem solving.

Caitlin Teague, *What is a Dinosaur? What the Media May Not Have Told You*

Everyone knows what a dinosaur is – or at least they think they do. Dinosaurs are at the center of ongoing study and the field has rapidly changed over the past few decades. Due to the new data in paleontological science and new ways to understand extinct species, some media sources are now "behind the times" when it comes to accurately representing dinosaurs. Many illustrations, animations, and portrayals are now incorrect. Sources that are generally regarded as accurate, such as a documentary on Discovery or illustrated books can also be less-than-faithful to all the current knowledge. Using books from the MHC library, documentaries from popular networks, and scientific literature, this presentation will explore the truth about these fossilized creatures known as "dinosaurs."

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Megan Trasport, *The Inhibitory Effects of *Desmognathus Quadromaculatus* Secretions on *Pseudomonas Aeruginosa*.*

The bacterium *Pseudomonas aeruginosa* is commonly found in soil and is generally harmless to humans; however, it can have detrimental affects on humans with certain conditions, especially those with cancer, Cystic Fibrosis (CF) or severe burns. *P. aeruginosa* can cause infections such as respiratory infections, soft tissue infections, dermatitis and bone and joint infections. This bacterium is resistant to most antibiotics, but recent studies show that the peptides found in the secretions given off by certain amphibians have anti- *Pseudomonas* properties. Salamanders secrete mucus as a way of protecting themselves from an array of bacteria found in their environment and my research tests the skin secretions from salamanders, specifically members of the species *Desmognathus quadromaculatus*, to determine if it has an inhibitory effect on *P. aeruginosa*.

Alexandra Van Dusen, *Meeting Food Necessities in Western North Carolina*

This project showcases the town of Mars Hill's own organization, Fields of Hope, and how it helps alleviate hunger in this community. This project, a short walk from the campus, was begun by town residents A.C. and Susie Honeycutt, after they discovered a horrible epidemic of hunger growing in their own community. They sought to alleviate the staggering number of local children and families going without food or proper nutrition daily. And it is working! Fields of Hope gives out thousands of pounds of food every year, bringing not just food, but hope and faith to many people who would otherwise suffer. This project celebrates local heroes and will show how not only community members but also Mars Hill students, past, present, and future, get involved with changing the world.

The SLAM Committee

Mrs. Joy Clifton, Division of Mathematics & Natural Sciences, Committee Chair

Ms. Tyler Carlson, Student Representative

Ms. Dani Franco, Student Representative

Dr. Andrea Rockel, Division of Mathematics & Natural Sciences

Dr. Greg Clemons, Division of Humanities & Social Sciences

Ms. Murphie Culpepper, Dean of Students & First Year Experience

Dr. Teresa Sumpter, Division of Fine Arts & Professional Programs

Mr. Mike Thornhill, Director of Communications

Dr. Beth Vogler, Division of Fine Arts and Professional Programs

Special Thanks To

The Chartwells staff

Campus Activities Board

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Lora Coomer

Brett Coomer

Kristie Hollifield

Information Technology Staff

Dr. Dan Lunsford

Phil Murray & the Graphic Design students

James Neadstine

Dr. Nina T. Pollard

Richard Seagle

Jamie Spowles

Dr. Brian Tinkel & MHC Percussion Ensemble

The dedicated Students, Staff, Faculty, and Friends of Mars Hill College

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Also a Special Thanks to
The Council of Independent Colleges (CIC) and Walmart
for helping to support SLAM 2012.

Students at Mars Hill College have benefitted from a Walmart College Success Award for two years. During that time many first-generation students have received funds for research projects that they designed and carried out under the guidance of a faculty mentor. The SLAM audience has heard about some of those projects today.

CIC/Walmart congratulates all the SLAM presenters.

MHC STUDENTS

— MONEY FOR STUDENT RESEARCH —

If you liked what you saw and heard today,
If being at SLAM made you think of a research project you want to do, then . . .

- think some more
- talk to a faculty member
- apply for a research grant.

\$500 mini grants or \$750 full grants are available for all students.

The last grant submission date for spring semester is **April 23, 2012**.

Submit your proposal at
<http://www.mhc.edu/academics/student-research>

For more information, contact Marshall Angle (mangle@mhc.edu).

NOTES

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NOTES

The Plenary Speaker

Windsor Hanger

Windsor Hanger was born and raised right here in Western North Carolina. A 2006 graduate of Asheville High School, Windsor worked with two classmates at Harvard to launch Her Campus Media after winning the i3 Innovation Challenge, Harvard College's business plan competition, with the idea in March 2009. Windsor graduated from Harvard in 2010 with an honors degree in the History of Science and has been working on Her Campus ever since.

At Her Campus, Windsor leads business development, marketing, and sales, and has been responsible for bringing on clients including The Body Shop, New Balance, Pinkberry, LOFT, Intel, and Victoria's Secret. Before founding Her Campus, Windsor interned in the marketing department at Bloomingdale's, as well as in the Beauty and Advertising departments at *OK!* magazine. Windsor enjoys getting dolled up, dancing, reading, meeting new people, practicing yoga, working out, and cooking with her boyfriend, Alex. Her passions also include chocolate ice cream, hanging out on her mom's farm with her three younger sisters, sushi, digital media and Her Campus. Windsor has been named to *BusinessWeek's* 25 Under 25 Best Young Entrepreneurs, *Inc.* magazine's 30 Under 30 Coolest Young Entrepreneurs, *Glamour* magazine's 20 Amazing Young Women, and *The Boston Globe's* 25 Most Stylish Bostonians.



Windsor has spoken at the Women: Inspiration & Enterprise Symposium hosted by Arianna Huffington, Donna Karan & Sarah Brown, Harvard Women in Business's Intercollegiate Business Convention, Northeastern University, Boston University School of Management, and now, SLAM!

Follow Windsor on Twitter: @windsorhanger