

April 13, 2011

Your

OPPORTUNITY

SLAM

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 (Dr. George Peery) 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:

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Slam Stage Banner Design:

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

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ORDER OF CEREMONIES

*In the One Hundred Fifty-fourth Year of Mars Hill College
April 13, 2011
Moore Auditorium*

THE FANFARE: Mars Hill College Percussion Ensemble **8:45 A.M.**

Sam Cobb, Corey Denham, Charlie Edwards, Josh Linhart,
Nick Love, Justin Mabry, Brad Moore, Christopher Powell, Colton Stewart
Dr. Brian Tinkel, director

OPENING CELEBRATION **9:00–9:20 A.M.**

The Invocation	Ms. Breanna Mason <i>Biology Major</i>
The Vice President's Welcome	Dr. John Wells <i>Vice President of Academic and Student Affairs</i>
Welcome from the SLAM committee	Ms. Meagan Green <i>Social Work Major</i>
Charge to the Students, Faculty, and Friends	Mrs. Joy Clifton <i>Instructor of Physical Education</i>

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SESSION I: ORAL PRESENTATIONS

9:30–10:15 A.M.

Session I–A: *Dressed To Kill*

Location: Owen Theater

*Struggle and Massacre:
China's Leadership in the 1989 Beijing Student Movement*

Yi Lu
History and Mathematics Major

Textile Embellishment Techniques of Traditional Japanese Dress

Jessica Green
Fashion and Interior Merchandising Major

Session I–B: *Out of the Shadows*

Location: Broyhill Chapel

*Bringing the Dark to Light:
The Sex Trafficking of Women and Children in Asia and the United States*

Kaitlyn Allen
Psychology Major

Examining the Effects of Antioxidants on UV-Exposed Bacteria

Blake Sanders
Biology Major

Session I–C: *Sugar Coating?*

Location: 212 Nash

Diabetes in Athletes Playing College Sports

Sheena Jackson
Athletic Training Major

America the Homeless: An Investigation of Mental Health Care

Tina Rathburn
Psychology Major

Session I–D: *Teens and Proteins*

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

A Possible Role of Beta-catenin in Melanoma Metastasis

Joshua Corbin
Cellular and Molecular Biology Major

THIS IS WAR: Being LGBT in High School

Ciara Felder
Psychology 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: *Not the Same Ol', Same Ol'*

Location: Owen Theater

Developing Software to Replace an Existing Legacy System

Brad Hughes
Computer Science Major

*New Complexity: Reconciling Reality and Identity
Though Musical Metaphor*

Kit Powell
Percussion Performance Major

Session II–B: *Smoke & Mirrors*

Location: Broyhill Chapel

*Men are from Mars, Women are from Venus:
Gender Differences in Ethical Decisions*

Rebekah Crockett
Zoology Major
Cindy Yuan
Graphic Design Major
Sherri Christopher
Elementary Education Major
Adam Mincey
Biology Major

*Smoking Effects on Oral Bacteria Biofilm Synthesis
and Methods of Bacterial Control Using Hydrogen Peroxide*

Hailey L. Jones
Biology Major

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Session II–C: *All You Need is Love?*

Location: 212 Nash

*A Fitful Romance:
How Fallacies of Love Lead to Injustices in Our World*

Melissa Robertson
Religious and Philosophical Studies

Let's Talk About Sex

Tina Rathburn
Psychology Major
Paige Bedard
Political Science Major
Samantha Oldham
Business Major
Ashton Anderson
Holly McCormick
English Majors
Adam Wheeler
Sociology Major
Victor Sloan
Religion Major
Matthew Bresson
Zoology Major
Skyler Assif
Political Science Major
Carissa Mathis
Music Major
Shayla Knuckles
Biology Major
Jessica Shelton
Psychology and Sociology Major
Alex Childress
Sociology Major

Session II–D: *Product of Your Environment?*

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

*Mom, Worker, Student:
The Need for a Center for the Advancement of Women*

Christy Pike
Charlene Rumfelt
Social Work Majors

*Natural History and Its Effect on the
Kumeyaay-Diegueno Tribe of Southern California*

Jaimie Little
Zoology Major

Session II–E: *Restrictions and Possibilities*

**Location: 108 Moore
(Band Room)**

*Sexuality and Cognition:
Do We Consciously Choose Our Preferences?*

Amanda Armstrong
Psychology Major

*Restrictions and Limitations of Athletes
with Prosthetics in Division II Sports*

Barbara Holland
Athletic Training Major

INTER-SESSION Snack Break

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

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

Dr. George Peery

Professor Emeritus of Political Science
Mars Hill College

**Curiosity, Contemplation, & Contentment:
Creativity in a Smartphone, Facebook, and Twitter World**

LUNCH BREAK

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

Mars Hill College

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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

*T.A.R.D.I.S.
(Theatrical Appreciation Regarding Development In Stagecraft)
Dr. Who?*

Location: Owen Theater

Myriah Clifton
Musical Theatre Major
Jennifer O’Rear
Stephanie O’Rear
Michelle Hendrickson
Theatre Majors

Arts Break–B

*From Rags to Romance:
Twentieth-Century Musical Masterpieces
by Debussy, Bolcom, and Bernstein*

Location: Broyhill Chapel

Benjamin Little
Sarah McCoy
Scott Hale
Zakia Allah
Music Majors

Arts Break–C

Cadenza 2011 Presentation

Location: Nash 212

Rachel Buller
English Major
Jaime Botello
Art Major
Rachel Connor
English and Spanish Major

Arts Break–D

Location: Spainhour

Broadway! On the Hill?

Musical Theatre Scenes Class

Featured Performers:

Joshua Miller, Brittany Hazeldine, Sarah Richardson,

Chandler Smith, Josh Stein,

Assisted by:

Virginia McKnight

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***

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SESSION V: ORAL PRESENTATIONS

2:45 - 3:30 P.M.

Session V–A: *Food for Thought*

Location: Owen Theater

Orthorexia Nervosa: Can Eating Healthy Negatively Affect Athletic Performance and Activities of Daily Living

Lauren Dogariu
Athletic Training Major

*Foraging Behaviors of Common Bottlenose Dolphins, *Tursiops truncatus*, in Relation to Environmental and Social Variables Within the Waterways of Savannah, Georgia*

Rachael Randall
Biology Major

Session V–B: *Cross Court*

Location: Broyhill Chapel

World of Neighbors

Christina Dalamangas
Religious Studies Major

Rib Fracture Caused by Follow-Through of a Back Hand in Collegiate Tennis Player

Tyler Miles
Alexis Myers
Athletic Training Majors

Session V–C: *All Shook Up!*

Location: Nash 212

Sam Phillips, Elvis, & Rock 'n' Roll: A Cultural Revolution

Trey Mayberry
History Major

Nest Predation of Forest Songbirds in Western North Carolina

Aki Masunaga
Biology Major

Session V–D: *Law and Order*

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

*Unbelief, Lawlessness, and Satan:
Viewing the Freer Logion as a Scribal Response to
Open-Ended Eschatological Themes in Mark*

Seth Clark
Religion Major

Who's Looking Out for You?: Altruism in America

Jeffrey Brooks
Computer Science and Math Major
Lea Foden
Psychology Major
Chandler Hill
Finance Major
Beth Hoffman
Elementary Education Major
Heather Lynn Huckabee
Sociology Major
Samantha Rybicki
Zoology Major

CLOSING CELEBRATION

3:45 P.M.

Location: Moore Auditorium

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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

Kaitlyn Allen, *Bringing the Dark to Light: The Sex Trafficking of Women and Children in Asia and the United States*

The author of this presentation became interested in the topic of sex trafficking while driving through the red-light districts in India this past summer, seeing that human trafficking has become acceptable in some parts of our world. The author wished to better understand our present day society in the United States, what happens here, and also in Asia regarding sex trafficking. The presentation will focus on various facts about sex trafficking, conceptions of women and children that lead to this phenomena, what enables the industry to thrive, psychological dimensions of trafficking, and ultimately how we must meet this crisis as a society. The presentation seeks to encourage our campus to discuss this important topic, to provoke individuals to become more educated on this topic, and to discuss ways that we might intervene.

Amanda Armstrong, *Sexuality and Cognition: Do We Consciously Choose Our Preferences?*

Many people hold the idea that sexual preferences can be consciously controlled by the individual. This idea leads to forms of prejudice, and ultimately discrimination. People who hold more prejudiced thoughts towards homosexuality or express homophobia may do so because of their perception that it is a conscious choice; however, evidence provided in this presentation suggests that human preferences in sexuality are, in reality, unconscious choices. The results of an experiment conducted at Mars Hill College will be discussed; it was found that individuals who were more homophobic also felt that sexuality is a conscious choice. This research encourages a deeper understanding of sexual preferences, an understanding that may lead to lower levels of homophobia.

Jeffrey Brooks, Lea Foden, Chandler Hill, Beth Hoffman, Heather Lynn Huckabee, Samantha Rybicki, *Who's Looking Out for You?: Altruism in America*

We will be examining American social policies and the education system and their affects on classism. We will be looking, in particular, at the socioeconomic stereotypes that have stemmed from the associations with these institutions. Social and educational systems reflect our cultural values; currently, the American ideology is one of individualism. We value possessions, status, and excess. Our proposed ideology is one of altruism, but altruism through the individual. We feel that if each American's focus was on one another, and that if they practiced this focus in their individual, daily lives, then our society would not only function at a higher level, but our society as a whole would make a change for the better.

Cadenza, *Cadenza 2011 Presentation*

In this session, Mars Hill College's literary and art magazine --*Cadenza*--will showcase some of the superior submissions from the upcoming spring publication. Our aim is to show students that a venue exists through which artistic creativity is celebrated and shared on campus. Come hear your peers present their creative talents as they read their short stories and poems, and show their art work.

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Seth A. Clark, *Unbelief, Lawlessness, and Satan: Viewing the Freer Logion as a Scribal Response to Open-Ended Eschatological Themes in Mark*

When one examines the manuscripts of the Gospel of Mark, one finds four major different endings to this work. The earliest manuscripts of Mark show that it ends at 16:8 after three women are ordered to tell the disciples that Jesus has risen and will meet them in Galilee. The focus of my study is the least well-known fourth ending, known as the Freer Logion and considered an expansion of the second ending of Mark, the Longer Ending. The Freer Logion is only found in the Codex Bezae Cantabrigiae and presents the themes of unbelief and lawlessness as agents of Satan, the chief antagonist of Jesus in Mark. This paper argues that the Freer Logion was intentionally inserted into the Longer Ending of Mark to provide closure to themes found but left open-ended in Mark and the Longer Ending.

Myriah Clifton, Stephanie O'Rear, Jennifer O'Rear, Michelle Hendrickson, *T.A.R.D.I.S. (Theatrical Appreciation Regarding Development In Stagecraft) Dr. Who?*

What is the theatre experience without the sound, lighting, make-up, costumes and stage setting? Not nearly as much fun! The purpose of this Arts Break is to give the public an appreciation for the unknown aspects of technical theatre through the underappreciated British phenomenon Doctor Who. Multiple design aspects will be incorporated such as complicated Make Up design, Costume design, Lighting design, Sound design, and Set Construction into a performance based on Doctor Who.

Joshua Corbin, *A Possible Role of Beta-catenin in Melanoma Metastasis*

Melanoma is a cancer type that often metastasizes and spreads through the body quickly, and my research explores a molecular pathway that might be involved. The Wnt/beta-catenin cellular signaling pathway plays a critical role in development and homeostasis. As a result of Wnt signaling, beta-catenin (a protein) is stabilized in the cytoplasm of the target cell. Once stabilized, beta-catenin promotes the expression of Wnt genes, some of which are involved in cell division and motility. Research suggests that when mutations occur that cause beta-catenin to be stabilized at a higher rate, cells can be at risk for becoming cancerous. Beta-catenin has been found to be over-expressed in 1/3 of melanomas. I have conducted research, during which I have stained canine skin tumors with the use of an antibody that is specific to beta-catenin. By seeing the expression of beta-catenin in the cancerous tissues, I will hopefully be able to make speculations on beta-catenin's role in metastasis of canine skin cancers.

Rebekah Crockett, Cindy Yuan, Sherri Christopher, Adam Mincey, *Men are from Mars, Women are from Venus: Gender Differences in Ethical Decisions.*

Previous research has indicated that a difference may exist between how females and males comprehend values and ethics and how they react to ethical situations. The presentation will focus on multiple theories of why there is a gender difference in ethical thinking and the positive and negative effects of females and males having differing views of morality.

Christina Dalamangas, *World of Neighbors*

My project, funded by Title III Student Research grant, is seeking to understand the different beliefs of Jews and Christians in Madison and Buncombe counties. I formulated questions based on the Pluralism Project conducted by Harvard University fifteen years ago, asking such things as: What does it mean to be a follower of this faith tradition; how could someone within the faith help someone else understand? For this project, I have interviewed ten leaders in the Jewish and Christian faiths: four Baptists, one Episcopalian, one Presbyterian, one Roman Catholic priest, and two rabbis. One surprise was that more of the people I interviewed were open to women as leaders in their faiths. I wonder if there could be more inter-faith conversations in the community of western North Carolina. This presentation will show excerpts from my interviews and present the questions I want to understand in the next phase of research.

Lauren Dogariu, *Orthorexia Nervosa: Can Eating Healthy Negatively Affect Athletic Performance and Activities of Daily Living*

Orthorexia Nervosa is defined as “The maniacal obsession for healthy foods”. Orthorexia begins as a healthy lifestyle change consisting of better eating habits to lose weight and improve overall wellbeing. This lifestyle change can turn into an obsessive disorder that only allows these individuals to eat biologically pure foods. This obsession with eating healthy foods can become the main priority in an individual’s life and has the potential to interfere with a normal social lifestyle; these factors as well as the side effects of Orthorexia can make it hazardous for an individual to compete in athletics. Choosing to eat biologically pure foods makes it very difficult to intake all the essential nutrients. The body must adapt to the malnourishment and therefore can have a strong negative effect on athletic participation. The purpose of this research will be to define signs and symptoms of an individual suffering from Orthorexia, as well as show the dangerous effects this disease can have on the body.

Ciara L. Felder, *THIS IS WAR: Being LGBT in High School*

This thesis describes the psychological problems a teenager faces when identifying with the Lesbian, Gay, Bisexual, and Transgendered community while in a high school setting. These problems include, but are not limited to the abuse of drugs and alcohol, depression, identity confusion, loneliness, fear, and rebellion. In writing this thesis I completed research, a case study, and interviews to understand to what a gay teen may face on a regular basis. A young male who identifies with the LGBT community was interviewed along with people who come in contact with him on a daily basis. The young man was followed for two days at his high school to appreciate what a normal day at school is like for him.

Jessica Green, *Textile Embellishment Techniques of Traditional Japanese Dress*

The kimonos of Ancient Japan involve detailed, intricate embellishment and dyeing techniques making them amazing works of art. The imagery and designs of kimonos also have an important cultural significance. This presentation dissects the various embellishment techniques with a focus on how such detailed designs were possible with few resources and little technology. Many of today’s textile artists continue to use these same traditional techniques. This presentation discusses the work of these artists, their inspiration and why they choose to continue using these ancient techniques – with a particular focus on Itchiku Kubota, a very successful textile artist famous for his devotion to the study of tsujigahana (a dyeing technique).

Barbara Holland, *Restrictions and Limitations of Athletes with Prosthetics in Division II Sports*

My presentation is geared to introduce the limitations and restrictions for disabled athletes with prostheses in the NCAA Division II athletic setting. The American Disabilities Association helps to ensure the safe and fair participation for all disabled athletes in competition. Disabled athletes have special restrictions regarding the material their sport prostheses are made of or the type of covering that must go on the outside of the prostheses before they may participate. To make sure that both able-bodied athletes and disabled athletes are protected from injury due to the hard metal materials used in prostheses, soft coverings may be required over the prostheses. With new and improved prosthetics sports became a realistic dream for athletes that had lost a limb. However, with these improvements new policies and procedures are needed to protect the athlete and ensure safe and fair participation for all athletes in sports.

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Brad Hughes, *Developing Software to Replace an Existing Legacy System*

With increasing technological advances, more and more systems are making the switch from print to digital form. Mars Hill College supports approximately 320 students with Federal Work Study aid, all of which use the “paper and pencil” method developed in the early 1990s. Is there an improved, simplified way to tally campus-wide Work-Study hours than the current method? Through an electronic system, Mars Hill College would save time, money, materials, physical space, the environment, and more. This presentation will discuss the processes involved to design and implement Mars Hill College’s new work-study reporting system, TimeTracker.

Sheena Jackson, *Diabetes in Athletes Playing Collegiate Sports*

Diabetes is a lifelong disease of the pancreas. Type one diabetes occurs when the pancreas does not produce enough insulin to control blood sugar levels in the body. Type two diabetes presents with high blood sugar levels in the body, due to a problem with the receptor sites in the cell. Exercise guidelines and restrictions usually come from the physician. Additional guidelines for Type 1 diabetes have been suggested by the National Athletic Trainer’s Association’s position statement “*Management of the Athlete with Type 1 Diabetes Mellitus*” and The American Diabetes’s Association. This presentation will review the pathomechanics and common causes of diabetes and review current practice recommendations for Athletic Trainers in the care of a diabetic athlete.

Hailey L. Jones, *Smoking Effects on Oral Bacteria Biofilm Synthesis and Methods of Bacterial Control Using Hydrogen Peroxide*

Smoking has long been known to damage the body, but we are now learning it could be beneficial to cells. Oral bacteria have positive and negative impacts on the oral cavity. Smoke contains known oxidizing agents. Smokers have an increased risk of dental decay; this research tested if this was due to smoke exposure creating bacterial resistance to oxidizing agents like hydrogen peroxide. Hydrogen peroxide is used often as a bactericidal agent; the minimum amount of hydrogen peroxide needed to kill bacterial colonies was determined for non-smoker bacteria and applied to the bacterial growth from smokers. A difference in sustained growth between the groups indicated whether the bacteria had gained resistance to hydrogen peroxide from the consistent exposure to smoke. Results from this study offer beneficial knowledge to smokers as to why traditional oral hygiene methods are often not suitable for them.

Benjamin Little, Sarah McCoy, Scott Hale, & Zakia Allah, *From Rags to Romance: Twentieth-Century Musical Masterpieces by Debussy, Bolcom, and Bernstein*

The 20th century gave birth to many wonderful styles of music. Represented among them are impressionism, ragtime, and show tunes. Impressionism was a movement that spanned the entire world of the arts. Debussy’s composition *La Cathédrale engloutie* is a shining example of the techniques of impressionism applied to form, harmony, and all other musical elements. Such techniques characterized this time of vague meaning and presentation. Ragtime spanned across American cities in the early 20th century as dance music. In the 1970’s, ragtime became rediscovered, with William Bolcom at the forefront of the revival. Bolcom mixes classical and jazz traditions, creating technical modern ragtime pieces. His composition *Old Adam* is the first movement of a suite entitled *The Garden of Eden*. Leonard Bernstein’s compositions combined elements of jazz, show tunes, folk, and classical music. His score for *West Side Story* helped to bridge the gap between jazz traditions and classical music.

Jaimie Little, *Natural History and its Effects on the Kumeyaay-Diegueno Tribe of Southern California*

The natural resources and environment of a region greatly affect how the land can and will be used by people. Rivers, biodiversity, forests, and minerals as well as the geology and physical topography of a region are interrelated. The formation of the land, thousands to millions of years ago, is unique to a specific region; the elevation, climate, rock types, soil composition and pH all act together to affect the various inhabitants, both the flora and the fauna, thereafter. These factors directly influence the type and range of human activity. What the land can sustain and provide for people determines how they will use it to make a living. This presentation presents the dominating aspects of the natural history of Southern California and how the land, the physical and biota, have played and continue to play a part in the lives and settlement of the Native American Kumeyaay-Diegueno Tribe of the Southern California region.

Yi Lu, *Struggle and Massacre: China's Leadership in the 1989 Beijing Student Movement*

In the late spring of 1989, protests demanding political reform started on Beijing university campuses and soon spread across the nation, an event that later became known as the 1989 Chinese Student Movement. Today, as China's communist regime guides the country's promising economy, it nonetheless bans open discussion on the Movement. Meanwhile, many Westerners simplify the Movement, equating it principally with the consequent June Fourth Massacre and symbolically with the single image of a courageous man defying a column of tanks. This presentation aims to contribute to the historiography of the Movement—those fateful two months in which demonstrations empowered ordinary citizens and challenged the government amid profound anxiety and a constant sense of uncertainty—by examining the complexity behind the decision-making process of China's leaders.

Aki Masunaga, *Nest Predation of Forest Songbirds in Western North Carolina*

Many songbird species in North America are declining, and a major cause of these declines could be nest predation. Forest-nesting birds may be affected by anthropogenic effects, such as forest fragmentation and the condition of forest habitats. Human activities may alter the abundance and activities of nest predators which will increase the risk of nest predation. This project asks whether the risk of nest predation is related to three macrohabitat characteristics of a forest plot: percent forest cover in landscape, housing density, and elevation. In addition, I focused on two microhabitat variables: nest visibility and accessibility. I used the nest survival data collected in the summers of 2009 and 2010 during a field study. Nest predation risk increased with greater housing density, but this effect varied with elevation. This project is important because it will help us understand how habitat conditions and human activities are associated with nest predation and the long-term survival of forest songbirds.

Trey Mayberry, *Sam Phillips, Elvis, & Rock 'n' Roll: A Cultural Revolution*

In the 1940's, major record companies in the North failed to capitalize on a growing interest in Rhythm and Blues with musicians such as Fats Domino, Bill Haley, Chuck Berry, and Little Richard. A young man from rural Alabama, however, sensed what the major labels could not. Although Sam Phillips could not wholly articulate what that "something" was, he nonetheless saw potential in a cross-pollination of blues and country music. Phillips thus set out to create a new genre of music tailored to America's booming postwar teenage population. Lacking capital and the newest technological recording devices, Phillips relied instead on unique cultural experiences and a fire in his heart, fueled by early childhood encounters with the blues. Not only was Phillips one of the major creators of Rock 'n' Roll, but his success in tapping the new teenage consumer through Elvis Presley contributed to jump-starting a cultural revolution.

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Taylor Miles and Alexis Myers, *Rib Fracture Caused by Follow-Through of a Back Hand in Collegiate Tennis Player*

In the sport's world a rib fracture is most commonly caused by direct contact. It is rare to see an unexplainable fracture, especially when it is assumed to be caused by a sport-specific movement. There is potential for an injury like this to be brought about by other underlying factors such as malnutrition or improper technique. This presentation will explore several mechanisms that may have contributed to the rib fracture in a collegiate tennis player. This particular tennis player complained of right chest wall pain and was initially treated for an oblique strain or costochondral separation. After a plateau in the recovery process the athlete was referred to the team physician and diagnosed with a rib fracture. As we explore the possible underlying conditions that might have caused this injury we will discuss how each mechanism would affect her diagnosis and treatment.

Joshua Miller, Brittany Hazeldine, Sarah Richardson, Chandler Smith, Josh Stein, *Broadway! On the Hill?*

This presentation of musical scene selections will examine and explain all the different aspects of putting together a set of musical scenes that entertain as well as demonstrate individual and group talent. We will show what we considered when casting scenes and songs, as well as what one learns in the process of blocking and plotting a scene.

Christy Pike, Charlene Rumpfelt, *Mom, Worker, and Student: The Need for a Center for the Advancement of Women*

Developing a Center for the Advancement of Women on the Mars Hill College campus presents an opportunity to address the needs of women in the Mars Hill College Adult and Graduate Studies program (formerly known as ACCESS), as well as in the Western North Carolina region. Through focus groups, our intent was to ascertain from this student population what additional support services would help them achieve greater academic and personal success as one component of the Center's work. Our findings identified the need for access to services including childcare, financial aid, and communication with campus offices. The focus groups also identified many potential workshop ideas, as well as other suggestions such as hosting teacher-student forums, and developing a book-share center. Overall, we found that there was wide support for the Center, and that the student focus groups were engaged in this possibility for the future.

Kit Powell, *New Complexity: Reconciling Reality and Ideality Through Musical Metaphor*

Some music is easy to learn; some is difficult. Consider, however, a piece ten minutes in length that took one of the best musicians in the world 1200 hours to learn? That's thirty forty-hour weeks of work on a single piece of music. A piece that isn't written for any specific instrument, has no singable melody, and generally has no definitive pulse. Why, one might ask, would such a piece even exist? The answer lies in the process and the questions generated during it, such as: Is it possible to truly realize a composer's intentions on paper? Is it possible to perform those intentions, and does it matter if it's impossible? Does the audience "get" it? These are the questions the musical style New Complexity succeeds in asking. I propose that the answers are both profound and different for each person, fostering open-minded conversation about what music is all about.

Rachael Randall, *The Foraging Behaviors of Common Bottlenose Dolphins, *Tursiops truncatus*, in Relation to Environmental and Social Variables Within the Waterways of Savannah, Georgia.*

Understanding the ecological and social context of foraging behaviors is a fundamental concept in ecology. In summer 2009 and 2010, I conducted boat-based surveys for dolphins. When dolphins were encountered, location, group size, activity, creek width, and depth were recorded. I studied six foraging behaviors of bottlenose dolphins, *Tursiops truncatus*, (strand feeding, deep diving, whacking, herding/circling, kerplunking, and begging) in relation to tidal stage, creek width, water depth, and dolphin group size. Strand feeding only occurred in waterways having a creek width of less than 100m. Deep diving only occurred at depths of 3.35-6.39m and 6.40-9.44m. Whacking occurred most frequently at the creek edge. Begging occurred most often when a large number of dolphins were present. Strand feeding and herding/circling were correlated with tidal stage, only occurring during low tide. Many of the foraging behaviors that bottlenose dolphins exhibit appear to be strongly correlated with characteristics of the natural environment.

Tina Rathburn, *America the Homeless: An Investigation of Mental Health Care*

After working at the local homeless shelter in Asheville for the past three years, I became inspired to delve deeper into the pressing issue of homelessness in the United States to uncover more fully the intricacies of this widespread social concern. This presentation investigates the negative impact that the deinstitutionalization of mental health care and specifically the current reliance on psychotropic drugs has on today's homeless. We will review the history and especially some of the policies behind the current situation of homelessness in America today ending with suggestions and advocacy for further improvement of the current system assisting this population. I will also present my own research, which focuses on homelessness in Western North Carolina and includes two case studies to illustrate the impact of this issue locally.

Tina Rathburn, Paige Bedard, Samantha Oldham, Ashton Anderson, Holly McCormick, Adam Wheeler, Victor Sloan, Matthew Bresson, Skyler Assif, Carissa Mathis, Shayla Knuckles, Jessica Shelton, and Alex Childress, *Let's Talk About Sex*

In our presentation, we will attempt to address myths, stereotypes and misconceptions that have mislead students and their understandings of health/sexual education. We want to bring to light myths and misconceptions that students at Mars Hill College seem to believe are true and correctly identify the facts. In our presentation, we will provide the facts about STD's, pregnancy, and general health concerns facing college students and provide information about resources for these issues. We want to ensure that we are not endorsing Mars Hill College students to be sexually active, but that they should have the knowledge to make educated decisions concerning their bodies and future.

Melissa R. Robertson, *A Fitful Romance: How Fallacies of Love Lead to Injustices in Our World*

Erich Fromm's essay, "Love, the Answer to the Problem of Human Existence," explores the different relationships that human beings attempt to alleviate loneliness, claiming that a love relationship characterized by knowledge, respect and care is crucial to the human condition. Fromm's description of a proper love relationship differs from some popular American cultural ideas, which are often objectifying. Fromm's love relationship, where the individuality and integrity of both parties is expressed and honored, directly correlates with the practice of a relational justice. This kind of justice-relationship draws on the ideas of Reinhold Niebuhr in *Love and Justice* and discusses how the characteristics of a healthy love relationship are a necessary foundation of justice in the social sphere.

Blake Edward Sanders, *Examining the Effects of Antioxidants on UV-Exposed Bacteria*

Can fruit peels possibly be of any use medically? Extracts of fruit peels have been found to contain antioxidants that protect the bacterium *Escherichia coli* against damage induced by UV light. Antioxidants can prevent many damaging events from happening within cells. They are crucial and essential part of healthcare and medicine due to the protective effects from free radicals, which are the initiators for oxidative chain reactions resulting in the damage of cells and DNA. The external environment, especially UV rays/light, is a source of free radicals which cause oxidation and damage to cells. This presentation will present findings from research in which extracts from different fruit peels were tested to for protective effects on *Escherichia coli*, a bacterium with high susceptibility to UV light. Extracts were made from star fruits, oranges, and grapefruits and research shows that these fruit extracts do protect the bacterium from UV damage.

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NOTES

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NOTES

The Plenary Speaker

George Peery

George Peery was brought into the world and grew up in Tazewell, Virginia. He had an unremarkable academic itineration through Tazewell public schools where, being skinny and never a candidate for football, he summarily failed in the other important things like basketball, baseball, and girls. Along the way, however, he inadvertently discovered the joys and satisfactions of technology and the delights of books and culture. He attended King College (Bristol, TN) graduating in History and Political Science, where he also learned a lot about writing and language; music and theatre; working with kids in a YMCA summer camp out of Richmond, Va.; tennis, anchoring the #6 slot; & soccer, yet never getting into a game as King's #2 goalie. He taught Seventh Grade in south-side Virginia, and graduated from Union Theological Seminary (Richmond, VA) with a divinity degree. He went on to get a Masters in Government from the University of Virginia, and a PhD in Political Science from Emory University.



The day Neil Armstrong and Buzz Aldrin landed on the moon (a serious convergence of technology, politics, and culture) Peery landed at Mars Hill to begin his teaching career at the college. In his three-decade tenure he taught American Government courses, and participated in developing a number of offerings in the general studies curriculum: EST, film, and Civic Life. For eighteen Januaries he organized and accompanied MHC students in a Washington DC seminar, an intensive fortnight of politics, technology, and culture in the nation's capitol. He also served as department and faculty chair. He is currently President of the World Affairs Council of Western North Carolina.

An "early adopter" of computers, his initial graduate survey data was recorded on 80-column punch cards. At MHC, he was among a coterie of faculty that introduced more advanced technologies into classrooms and encouraged their incorporation into labs, assignments and research. He works from Windows and Mac platforms. He bought his wife a Prius the year it won "Car of the Year" award. In some areas, though, he's a laggard and a Luddite. He drives a seveteen-year old stick-shift Honda with over 200,000 miles on it. He had to be convinced by his 30-something-year-old children several years ago to purchase his first cell phone. He's not a cable guy, remaining among the 15% of Americans who only get their television signals "off air." He doesn't own a GPS, preferring hard-copy paper maps that fold, or are printed from MapQuest or Google. He doesn't own a Kindle or I-Book, has books and magazines and newspapers all over the place. He doesn't Tweet. He occasionally texts. He loves some YouTube stuff, has downloaded audio from MySpace, but wonders about chicken videos and Lady Gaga extravaganzas. And yes, he has a Facebook account, but he doesn't check it every week.

