

2009

## Symposium 2009

University of Maine at Farmington

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## ***Welcome to the Michael D. Wilson Symposium!***

*On this day when we showcase the independent creative research and scholarly works of our students, it is a pleasure once more to acknowledge the naming of Symposium Day in honor of Michael D. Wilson, Class of 1976.*

*Michael was a Special Education major who took great pleasure in helping others to succeed. In tribute to Michael's life-changing friendship, UMF's good friend Michael Angelides and his wife Susan have made possible significant enhancements to our celebration of student achievement.*

*This day is full of the wonderful results of persistence, learning, creativity, hard work, cooperation, and mentoring. Empowering students and helping them realize their potential — that's what UMF is all about. At the Michael D. Wilson Symposium Day you can see the results.*

***Theodora J. Kalikow***

*President*



*First held in February 1999, the UMF Symposium has grown into a wonderful tradition. Each spring we take a day off from classes and from our normal routines to share in the exciting work of faculty and students—mainly students.*

*In showcasing their scholarly and creative projects through papers, performances, poster sessions, etc., we are honoring our most deeply felt values as a public liberal arts college—specifically, active and engaged learning, academic rigor, student-faculty collaboration, and service to promote the common good. I find it particularly exciting that Symposium provides an opportunity for everyone—from beginning students to seniors who are completing an exciting capstone project—to share their work in a public venue.*

*I congratulate all the presenters along with their teachers and mentors. In addition, special thanks to the donors and organizers who have made this exciting day possible.*

**Allen H. Berger,**

*Provost and Vice President for Academic Affairs*

*Symposium Day is a wonderful opportunity for students to showcase their scholarly and creative work. During the academic year they pursue their interests through individual projects, group projects, and working in collaboration with faculty mentors. Symposium Day provides them with the stage to share their work with peers, friends, faculty, and staff. We send our congratulations to the students, and we also thank the faculty and staff who have helped the students achieve what they have today.*

**Kathy Yardley,** *Dean, College of Education, Health, and Rehabilitation*

**Rob Lively,** *Dean, College of Arts & Sciences*

This Symposium is organized by the University Culture Committee.

Linda Beck, Assistant Professor of Political Science

Paul Gies, Associate Professor Mathematics

Melissa Lecroix, Student Representative

Matthew McCourt, Assistant Professor of Geography

Cathleen McAnneny, Professor of Geography

Theresa Overall, Assistant Professor of Secondary/Middle Education, Chair

Paul Stancioff, Associate Professor of Physics

**Arts Week and Arts Fortnight are organized by the Department of Visual and Performing Arts and The Ministry of Experimental Arts.**

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Please note that if you wish to have lunch in the South Dining Hall, you may purchase  
a NQAFL (not quite a free lunch) ticket for \$3.00 in the Student Center Lobby  
(Students with meal plans should use their cards)

# Program at a Glance

**Tuesday April 28<sup>th</sup> 6:30 to 9:00 pm**

- Arts Night

**Wednesday April 29<sup>th</sup>**

- Wilson Session – Thomas Auditorium  
9:00 am – 4:30 pm
- Main Program – Various Venues  
9:00 am – 4:30 pm
- Poster Sessions – Education Center, Student Center and North Dining Hall C  
10:00 am – 12:00 noon
- Lunch – South Dining Hall\*  
12:00 noon – 1:00 pm
- INCARNATION for automobile orchestra  
High Street Parking Lot, 5:00 pm – 6:00pm

**Arts Fortnight, April 9<sup>th</sup> to May 3<sup>rd</sup>**

- Schedule of events
- Visual, Sound, Performance Art, and Installations

\* Please note that if you wish to have lunch in the South Dining Hall, you may purchase a NQAFL (not quite a free lunch) ticket for \$3.00 in the Student Center Lobby  
(Students with meal plans should use their cards)

# Michael D. Wilson Symposium Arts Night 2009

Tuesday, April 28

6:30 – 9:00 p.m.

## PROGRAM

### Alumni Theater

6:30 p.m.

#### **Clefnotes**

*Esther McLain, Melissa Patterson, Christy Carle, Haley Rice, Emmanuelle Renaud, Chantal Berube, Kathleen Kelley, Abner Clark, Jude Leaver, Adam Randall, John Mrazik, Kyle Morison*

Clefnotes, formerly known as Sole Expression, is a student-run a capella group that sings mostly contemporary songs. It is the only group of its kind at UMF. Program will be announced.

7:00 p.m.

#### **The Clouds**

*Joshua Ames*

An artistic exploration based on Aristophanes' play The Clouds. The play will include visual and performing art of students.

### Art Gallery

6:30 – 7:45 p.m.

#### **APOCARTERESIS/DESANGUANATION**

*Kenneth Masloski (inkmink) - programming*

An auditory interpretation of starving one's self to death (APOCARTERESIS) and purposefully bleeding out to death (DESANGUANATION).

#### **Jetfighter**

*Vincent Leonetti: Drums; Elliot Brackett Lyons: Guitar; Kenneth Masloski: Synthesizer and vocals*

The experimental rock band, Jetfighter, will perform songs for you and rock your face off.

# Nordica Auditorium

8:00 – 9:00 p.m.

## Beatbop: Jazz Electronica Improvisation

*Tom O'Donnell (staff): piano and laptop*

When most people think of jazz, they think of something old: 30's swing, 40's bebop, 50's cool jazz, 60's fusion. Time for something new. This solo performance combines acoustic piano and improvised electronic accompaniment consisting of drum and instrumental sound loops.

## Manusique

*Emmanuelle Renaud: piano, vocals.*

Emmanuelle Renaud, an exchange student at UMF, will sing a couple of songs she wrote and composed. Manusique (stage name) performs regularly at Open Mic at the Landing and has played as the opening act of La Mulette and Katia Goldmann in Le Mans, France.

## Believe You Can Fly

*Katie Steward and Britny Wyman*

Created specifically for Arts Night by Steward and Wyman, Believe You Can Fly is an anti-war dance piece. It is a metamorphosis from war to peace, hope, and carpe diem. Incorporating a series of songs from artists like Creed and Three Days Grace, the work is a semi-improvisational piece integrating many types of dance like jazz, lyrical, and hip-hop. (*Faculty advisor: Sarah Maline*)

## The World's Best Surprise Bag

*Meghan Dzyak: soprano (alumna); Gavin Pickering: tenor (student); Lily Funahashi: piano (faculty); Mary Jo Carlsen: viola (guest musician) ; Philip Carlsen: cello (faculty)*

Composed by Nate Burns for his Michael D. Wilson fellowship project, this work for piano, viola, cello, soprano, and tenor was written over three years. Originally conceived for a rock ensemble, the instrumentation has been changed to the current configuration.

# **Special Venue Wilson Research Scholars April 29<sup>th</sup> 2009**

**Thomas Auditorium, Preble Hall 9:00 – 4:30**

9:00 - 9:20

## **What do College Students Really Want? The Happiness-Wisdom Tension in Contemporary Conceptions of the “Good Life”**

***William B. Roy***

The purpose of the present study is to explore the tension between happiness and wisdom implicit in the work of Martin Seligman. Specifically, college students were confronted with a fictional “genie” that forced a choice between perfect happiness and profound wisdom. Participants were also asked to complete questionnaires assessing various psychological constructs, including generativity and subjective well-being. Of special interest is the possibility that college students who value wisdom are more likely to report that they are “happy” than college students who value happiness. Implications for our understanding of moral development in early adulthood will be discussed. (*Faculty sponsor: Steven W. Quackenbush*)

9:20 - 9:40

## **Berlin's Lonely: Canada's lack of Involvement in the Berlin Airlift**

***Matt Humer***

This presentation will examine why Canada did not participate in one of the best known instances of humanitarianism in the twentieth century, the Berlin Airlift. Military capabilities, economic incentives, and the political implications of this decision will be examined with the end goal of explaining why Canada chose such a seemingly odd decision. (*Faculty sponsor: Allison L. Hepler*)

9:40 - 10:00

## **Simulating and Analyzing the Coin-Moving Puzzle**

***Adam Case***

This presentation summarizes research performed in the creation of a program used for the simulation and computational analysis of the Coin-Moving Puzzle. Using the “Coin-Moving Puzzle Solver,” one may create and attempt to solve any coin-moving puzzle using up to 2,500 coins. An advanced GUI enables the user to adjust grid zoom, configure game rules, and save puzzle states. The program contains an “algorithm mode” allowing the user to create and explore a solution tree given the start and goal configurations. The A\* algorithm and puzzle heuristics are analyzed based upon their effectiveness to solve this puzzle. (*Faculty sponsor: Christopher L. Bennett*)



10:00 - 10:20

### **Grassroots participation in conflict resolution and peace building in Liberia**

***Oreva Olakpe***

An increasing number of conflict resolution theorists believe that in the international system “cultural insiders” are better suited to resolve internal conflicts because those within a culture hold higher stakes in the peace and stability of their country. Using the context of Liberia’s civil war and on-going peace process and reconstruction, I will examine the involvement and capability of community organizations, groups or institutions in the conflict resolution process. Accordingly, my research will test how effective “cultural insiders” have been in Liberia and if they can and should play a bigger role in conflict resolution.

*(Faculty sponsor: Linda J. Beck)*

10:20 - 10:40

### **Break – refreshments available**

10:40 - 11:00

### **Undergraduates' Knowledge of Person First Language**

***Stephanie Nobrega***

This presentation will review research about undergraduates' knowledge of person first language. The history of person first language, stigma surrounding disability and future implication of not using person first language will also be discussed. *(Faculty sponsor: Jewel L. Jones)*

11:00 - 11:20

### **DNA Sequencing as a Method for Larval Identification in Odonates**

***Adeline Harris and Christopher Stevens***

The purpose of this project is to use DNA sequencing in order to identify larval specimens of *Enallagma hageni* and *E. ebrium* that are morphologically indistinguishable as females. Odonates are an important part of terrestrial and aquatic food webs and represent a conservation concern. Obtaining DNA sequence information that identifies individuals to the species level will be of great benefit to further ecological research regarding their abundance, distribution, and conservation. This study will focus on obtaining a DNA sequence of previously identified males, which can then be used to accurately determine the species identity of females. *(Faculty sponsor: Jean A. Doty)*

11:20 - 11:50

### **Changing Nature: The Ecology of the Maine Woods**

***Dr. Drew Barton***

What did I do as Trustee (aka the “Trusty”) Professor? I worked on a book, *Changing Nature: The Ecology of the Maine Woods*, with Alan White (UM Professor of Forest Resources). I will read from Chapter 1 to provide an overview of the book. Then, I’ll talk in detail about Chapter 2, which examines the geological and ecological forces that formed the land and forests of Maine. I will focus on the recovery of forests

from the most recent glaciation and the lessons these stories reveal about the intrinsic workings of nature and the future of the Maine woods.

1:00 - 1:20

### **Walking the Oregon Coast**

***Trevor Spangle***

Last summer, Trevor Spangle hiked the Oregon Coast Trail from the mouth of the Columbia River to the border of California. His goal was to set out and explore the coastal region in his home state, and to press boundaries set within him. As a result, Trevor has been working on material for his first full length travel memoir. The presentation will give everyone a chance to see the pictures, hear the stories, and listen to Trevor's account of this challenging trek. *(Faculty sponsor: Gretchen T. Legler)*

1:20 - 1:40

### **Open Source Software in Radio Broadcasting**

***Derek Gilbert***

Low budget radio stations have few choices for radio automation solutions, which take care of the station while no human is able to cover a certain span of time. This project explores Rivendell, an open source broadcast system, and also tries to fill the void in areas that Rivendell doesn't cover through software development. The product of this research is the completed package needed by low budget broadcasters. *(Faculty sponsor: Gail L. Lange)*

1:40 - 2:00

### **Temperature Variation in Western Maine Ponds**

***Caroline Gallant***

Horns, Cranberry, and Tumbledown Ponds are located on Bigelow and Tumbledown Mountains in western Maine along the Appalachian Trail. These ponds are of significant ecological and recreational value. At present, historic records of seasonal markers such as ice-out dates are only available for larger, lower elevation lakes. By analyzing high-resolution water temperature data of these small, high elevation ponds, we hope to better understand their relationship to climate forcings. Surface temperatures at all three locations have similar daily trends, including a rapid mid-summer temperature increase attributed to a turnover event at Horns and Tumbledown. *(Faculty sponsor: Julia F. Daly)*

2:00 - 2:20

### **Narratives of War**

***Ty Thurlow***

An intense and unique view of how three vastly different narratives concerned with the Iraq War work together to produce an overarching narrative of our country's attitudes of the war. The three types of narratives include Media/Hollywood films, the thoughts and feelings of surviving family members of soldiers killed in the war, and the interpretations and observations of the author who has lost two friends in the Iraq War. Some of the material being presented is appropriate for adult audiences only. *(Faculty sponsor: Michael K. Johnson)*

2:20 - 2:40

**Break – refreshments available**

2:40 - 3:00

**A Concentrated Plea: Suffrage and Class Representation in the National Woman's Party**

***Jaimie Gagne***

In early 20th century America, the National Woman's Party attempted to combine the work of middle, working-class and elite women to advance suffrage. However, in spite of their egalitarian labor editorials and a membership full of labor allies, working-class women were a minority in the NWP. I have profiled a couple of working-class women who were involved in the organization and looked at the different ways in which working-class women contributed to the movement in order to better understand why the suffrage movement remained an elite-dominated movement. *(Faculty sponsor: Allison L. Hepler)*

3:00 - 3:20

**Transitional Issues of the Upward Bound UMF Student**

***Carla Powers and Danielle Cerone***

Students face transitional barriers when coming to college. However, Upward Bound alumni (first generation, low income students) may experience additional transitional barriers. Our research sought to find if these barriers were common to Upward Bound alumni here at UMF. The use of participant photography and interviews were used in order to express experienced transitional barriers. We also investigated possible support structures used to over-come the identified barriers by Upward Bound alumni at UMF. We think that the information we have gathered will be useful for faculty and counselors in assisting these students. *(Faculty sponsor: Elyse Pratt-Ronco)*

3:20 - 3:40

**Collaborative Online Environments: Impact on the Classroom**

***Samuel Valentine***

Over the course of the fall semester an online, collaborative environment (wiki) was designed for participating professors at UMF. In the spring semester, the wikis were launched and utilized by students for the purpose of collaborative research. Their other purpose was gauging the efficacy of such systems in classrooms. This talk will present the findings of that pilot study and make commentary on wiki's and their future. *(Faculty sponsor: John D. Messier)*

3:40 - 4:00

## **Representations of the Algerian War in French Cinema**

***Sara Groves***

Between 1954-1962 France and Algeria fought a war that ranks among the most drawn out and devastating in the decolonization processes of the twentieth century. During and after the war many in France ignored what had happened for fear of its national implications. Inquiry into the subject within France has been dominated by silence, and only recently have there been any scholarly efforts to honestly appraise France's role in the horrors of the war. An exception (often censored) to this silence have been several films that address the subject. What do the films convey of the legacy of the war in French popular culture? How are religious and racial tensions within France portrayed? How does the historical relationship between Algeria and France affect representations of their contemporary relationship?

*(Faculty sponsor: Daniel P. Becker)*

4:00 - 4:30

## **The Bieri-Neumann-Strebel Geometric Invariant of the Braid Groups**

***Daniel Allen***

How are the complex motions of subatomic particles related to a field as vastly different as cryptography? In this talk, we will explore the mathematical constructs that link these fields: the braid groups. In order to define the braid groups we will first discuss the definition of a group as a mathematical object which will allow us to investigate group presentations. Then we will define the Cayley graph of a group and use the group presentation to construct the Cayley graph of the braid group on three strands, and then compute the Bieri-Neumann-Strebel geometric invariant of this braid group. *(Faculty sponsor: Nicholas A. Koban)*

# Main Program

Any changes to the program will be posted by the Student Center mailroom and in the Education Center Lobby on the morning of Symposium Day.

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## Venue 1 Senior Art Show UMF Art Gallery

1:00 - 2:40

### **Senior Thesis Art Show Artists Talks**

*Tim Berry, Matt St. John, Sarah Levensalor, Steph Small, Autumn Doiron, and Meagan Irish*

UMF's Senior Art Show will showcase a variety of works from video installations to optical illusions and sculpture. This group of students have created a dynamic body of work with significant cultural relevance. Their subject matter includes social interaction and activism, feminism and the female form, iconography of consumerism, fully saturated investigations of beauty and the sublime and the interplay between cultural illusions and social myths. It promises to be an eclectic and dynamic display of student research. Artist talks will offer the audience an intimate view of the artists process as well as the ideas behind the making. (*Faculty sponsor: Katrazyna A. Randall*)

## Venue 2 Science, Dance Lincoln Auditorium, Roberts Learning Center

9:00 - 9:20

### **Introduction to the "Science Day" Session**

*Dr. Drew Barton, Professor of Biology*

9:20 - 9:40

### **Green Buildings- Using the built environment as a teaching tool for environmental sustainability**

*Stephanie Bossie and Pamela Davis Green*

UMF's LEED certified Education Center is a model of environmental sustainability in action. As a built environment, it provides an opportunity for community members of all ages to understand features that make a building "green". Through a US Green Building Council grant, the UMF Education Center serves as

the focal point for development of multi-level curriculum for preK-12 students, UMF students and faculty, and community members of all ages to explore how building design, site selection, alternative energy, renewable resources, and local materials can make a positive environmental impact. Come see what “green” is doing for you! (*Faculty sponsor: Grace T. Eason*)

9:40 - 10:00

### **EFFICACY OF VARIOUS MOUTHWASH BRANDS ON THE ELIMINATION OF BACTERIA**

***Victoria Pearson and Carleton Neil***

Oral bacteria have been attributed to decreased rates of healing, cardiovascular problems, and inefficiencies in the immune system. One technique to counter this is the use of mouthwashes. Recently some studies suggest a correlation between alcohol-based antiseptics and mouth rinses to increased rates of cancer in the upper gastro-intestinal tract. Our study examines the effect of alcohol concentration in such-based mouth rinses on the rate of bacterial growth in the mouth as well as the effectiveness of alternative rinses. Bacteria counts will be measured over a set period of time; results will verify the effectiveness of various mouth rinses. (*Faculty sponsor: Jean A. Doty*)

10:00 - 10:20

### **Winter Fields and Forests**

***Pamela Davis Green***

While winter botany presents special challenges in identification of plants and plant communities, Maine’s long winter season offers an extended opportunity to look closely for clues to identification of trees, shrubs, flowering herbs, ferns, and grasses without the distraction of leaves and blossoms. Explore a variety of plant habitats from forest-to fen-to field and discover distinguishing characteristics and profiles that aid in positive roadside identification. Eighteen wooded acres in Wayne, Maine serve as the focal point of this study, along with surrounding communities, as part of a year-long study of plants and plant communities through seasonal changes. (*Faculty sponsor: Nancy Prentiss*)

10:20 - 10:40

### **Break – refreshments available**

10:40 - 11:00

### **Exploring and eliminating the possibility of *Microsporum canis* in the Franklin County Animal Shelter and the possibility of a reservoir in the annex facility**

***Lora Cyr, John Duplinsky and Jason Millett***

This project addresses a possible problem with *Microsporum canis*, ringworm, in the Franklin County Animal Shelter. Though the threat has been considered a non-issue for the time being, reconfirmation of the findings is desired to ensure accuracy of previous tests and potentially eliminate the possibility of environmental reservoirs. Since the shelter has regular outbreaks, random samples will be taken from the shelter environment to find spores that could lead to a future outbreak. The completion of these tasks and identification of potential risks of the disease will be used to address the possible contamination issue. (*Faculty sponsor: Jean A. Doty*)

11:00 - 11:20

### **Oral Bacterium present in Humanoid, Canidae, and Felidae**

***Rafe Blood, Brandon Brown, and Michael Camacho***

This project is designed to determine which species, human, dog, or cat, has a more sanitary oral cavity, and to detect and identify certain bacteria that grow within the mouth. This will be the main objective of this experiment. It has been a widely discussed topic why certain animals have different species of bacterium growing inside their mouth. Some different ideas are: cleansing wounds, odor-eating, decomposing food particles, and preventing HIV. This experiment will be used to enhance our knowledge on what types of bacterium we come in contact with everyday living inside our mouths (*Faculty sponsor: Jean A. Doty*)

11:20 - 11:40

### **Excessive Rainfall and Lake Transparency**

***Michael Camacho***

Erosion and runoff negatively impact aquatic habitats, adding nutrients and influencing biological productivity. Secchi disk transparencies are widely-used to measure water quality in lakes; with decreasing transparency reflecting decreasing water quality. My research will use existing data to examine how excessive annual precipitation levels affect lake transparency. Initial analysis by Scott Williams (Maine VLMP) using existing secchi disk data coupled with regional weather data indicates that Maine lakes exhibit a complex suite of responses to increased precipitation levels. The purpose of the current study is to determine what factors are influencing these differing responses (*Faculty sponsor: Daniel E. Buckley*)

11:40 - 12:00

### **Methane: sources, acquisition and utilization**

***Rafe Blood***

Methane is naturally produced in the environment. Methane is also produced by the interactions of humans with the environment, through the wastes that we produce. These wastes can be in the form of byproducts that livestock farming produces and that we deposit in landfills. The acquisition of this human-produced methane can be utilized as an energy source. Utilization of this excess methane, before it enters the earth's environment, will also prevent it from becoming a source of dangerous greenhouse gases. The use of anaerobic digesters and other methane-capturing devices are efficient ways of utilizing these harmful, possibly beneficial, gases. (*Faculty sponsor: Paul N. Stancioff*)

1:00 - 1:20

### **Effectiveness of Common Household Cleaners against E-Coli**

***Rafe Blood and Kimberly Hudson***

Household pathogens such as: *Escherichia coli* are commonly found in kitchens. It is considered a contaminant on such surfaces as countertops and sinks. Increased levels of these contaminants can cause food poisoning. There seems to have been an increase in the usage of antibacterial household cleaners. Extended usage of these products may cause the organism that is meant to be affected to become resistant. We will attempt to demonstrate the effectiveness of these household cleaners on the microorganisms and hypothesize whether there may be an apparent resistance to the continuous use of these biocides over an extended period of time. (*Faculty sponsor: Jean A. Doty*)

1:20 - 1:40

### **The Genetic Adaptability of Bacteria in Response to UV Radiation**

***Abner Clark, Kathleen Kelley, and Abby Pettitt***

UV light can be both damaging and helpful to living organisms. Bacteria, one of the most archaic and simple forms of life, can be particularly susceptible to the effects of UV radiation. In many cases UV radiation is used as a bactericide in food safety applications. For this reason, it is important that the adaptive potential of bacteria to counter the harmful effects of UV is understood. The following research will attempt to assess the viability, in various intensities and settings, of UV light as a form of sterilization as it pertains to bacterial adaptation to radiation. (*Faculty sponsor: Jean A. Doty*)

1:40 - 2:00

### **The plight of hamburger lovers everywhere: Antibiotic resistant E. coli**

***John Leso and Matt Rabus***

This experiment will test for the prevalence of anti-biotic resistant strains of *E. coli* that could be found in locally bought ground beef. The antibiotics that will be used in this resistance study are Vancomycin, Erythromycin, Methicillin, Chlortetracycline and a kind of Fluoroquinolone called Ciprofloxacin. The administering of antibiotics in the feed of cattle has been linked to anti-biotic resistant bacteria that can cause not only the cattle harm, but the people who eat the cattle harm as well, (INFOSAN, 2008). This is further exacerbated by the fact that not only does the resistant bacteria live to be passed on and infect humans, but the very nature of its resistance makes it that much harder to treat once it has infected a human host, (INFOSAN, 2008). (*Faculty sponsor: Jean A. Doty*)

2:00 - 2:20

### **Polychaete DNA Sequencing**

***Vanessa Beck and Kenneth Masloski***

This experiment will use DNA sequencing to examine the relatedness of certain polychaete worms and to possibly identify new species. Polychaetes are rarely studied because of their small size and elusiveness in the wild therefore many species are lumped into phylogenetic groups simply by morphological structures and many remain unnamed altogether. Using modern DNA extraction methods several species



of polychaete will be dissected and their DNA analyzed. With sequencing it may be possible to identify new species based on the growing library of other sequences. The experiment will attempt to further untangle the already confusing and often disagreed-upon polychaete phylogeny. *(Faculty sponsor: Jean A. Doty)*

2:20 - 2:40

**Break – refreshments available**

2:40 - 3:00

**GIS Technology and Farmington Shoreland Zoning**

***Esther McLain***

I am working on a GIS project for Farmington. I am digitizing the shoreland map data, both loss and gain. The Sandy River is a dynamic river and over the past 16 years shoreland sections of the map that have developed and become important, not only to the county for taxation purposes, but also for the wildlife habitats that maybe located there. Finally, the main reason I would like to do this presentation is to let people know that creating this information is possible and that attaining it is easy and valuable to the state, researchers, and land owners. *(Faculty sponsor: Thomas E. Eastler)*

3:00 - 3:40

**The UMF Dancers: The Art of Movement**

***Michele Meservey and Fallon Nickelsen***

The UMF Dancers is not only a class to its members, it is a dance company and a group within the community. The lecturers, Michele Meservey and Fallon Nickelsen will introduce the company and talk about their experience as part of the group. The presenters will teach the audience about the eight basic loco motor movements: walking, running, jumping, hopping, leaping, sliding, galloping, and skipping. These techniques will be demonstrated with the help of UMF dancers: Michelle Dubocq, Shantelle Fogue, Nova Free, Peter Hardy, Elena Kohout, and Rebecca LaRovera. The UMF Dancers will perform at the end. *(Faculty sponsor: Margaret Gould Wescott)*

## Venue 3

### Education, History, Philosophy

### Education Center 114

9:00 - 9:40

#### **Early Childhood Researchers in Action**

***Kimberly Carmichael, Bethany Kimball, Mollie Lyne, Kirsten Malloy, Jessica Symes, Danielle Vashon, and Katie Corbett***

Early Childhood students from ECH 450 (Senior Research Seminar) discuss the process of becoming researchers as they present abstracts about their individual research projects. Students designed and implemented projects around a course emphasis on exploring the value of children's routines in early childhood settings. Principles of qualitative, quantitative and action research are demonstrated through a variety of student-designed projects including preschool social interactions with adults and peers, the relationship between routines and school readiness, meal time, reading, and nap time routines in early childhood programs, and strategies for helping children make transitions between activities. *(Faculty sponsor: V. Beth Hatcher)*

9:40 - 10:00

#### **The Right to Choose: how to enhance toddler's choice and initiative through Project Approach**

***Maggie Booth and Dalila Lino***

This paper explores how the Project Approach enhances toddler's choice and initiative. From a constructive perspective, choice is an individual activity that is essential to cognitive, as well as social development. Choice requires the child to think about alternatives, possibilities available to choose from and the necessity to limit those possibilities to those that are most essential or important. Allowing children opportunities to make choices fosters both intellectual and moral autonomy and helps children become capable decision makers. This study presents a Project work developed with a group of toddlers at the University of Maine at Farmington Infants and Toddlers Playgroup Program. The theories of Dewey, Freinet, Malaguzzi, and Katz are used to analyze and interpret the opportunities given to children to choose their experiences and pursue their interests. *(Faculty sponsor: Dalila Maria Brito da Cunha Lino)*

10:00 - 10:20

#### **Mentoring in the early years: four learning stories**

***Kaitlyn Dana, Maggie Booth, Mollie Lyne, and Dalila Lino***

This qualitative case study presents an experience of mentoring in the early years. The study was conducted at the University of Maine at Farmington Infants and Toddlers Playgroup Program and involved the instructor and three students from the Early Childhood Education Program. The main goal of this study is to implement at the UMF Infants and Toddlers Playgroup Program a developmental approach of a Mentor of Mentors program. This approach is implemented through an independent study and involves

seminars, direct observation and mentors direct experience. Data was collected through direct observation, analysis of mentor's portfolios and interviews. *(Faculty sponsor: Dalila Maria Brito da Cunha Lino)*

10:20 - 10:40

**Break – refreshments available**

10:40 - 11:00

**Universal Design in Education and Beyond**

*Kelly Johnson, Sarah Maxim, and Haley Rice*

This lively interactive session promises to uncover some interesting aspects of your personal computer while involving you and other audience participants. Bring your laptop or just take some notes. This session demonstrates some of the key aspects of universal design (UD) for Macs and PCs. Universal design refers to built-in components that support people with a wide range of abilities. If you are planning to teach or enter a field in health or human services, you will learn how these UD aspects and the Lomak could help individuals with disabilities to be full contributing members of the classroom, work setting, or community. *(Faculty sponsor: Loraine Spenciner)*

11:00 - 11:20

**Joseph P. Kennedy: The Collapse of a Public Image**

*Isaac J. Frith*

Joseph P. Kennedy's political career is overshadowed by his much more famous sons. However, during the course of his career Kennedy struggled to maintain his public image as the United States moved from isolationism to interventionism shortly before WWII. The purpose of this research was to examine Kennedy's public image and analyze why his stance of isolationism led to a decline in his public image while serving as ambassador to Great Britain. *(Faculty sponsor: Christopher S. O'Brien)*

11:20 - 11:40

**Politics with Bloodshed: An Introspective Look at the First Gulf War**

*Daniel D. Cox*

August 2010 will mark the 20 year anniversary of the development of the largest armed forces coalition since the 1940s. From being one of the boots that drew President Bush's "line in the sand", to the feeling of the wheels on the airplane touching down on American soil some eight months later, it offers a first-hand account of those experiences and emotions of being one of those fighting men and women. How did that experience fit within the broader scope of politics, military planning, diplomatic efforts, and ultimately the air and ground offensive are questions addressed during this presentation. *(Faculty sponsor: Christopher S. O'Brien)*

11:40 - 12:00

## **The Massachusetts Conspiracy of 1779**

***Eric Munson***

The Penobscot Expedition of 1779 was the largest naval defeat in United States history until the defeat at Pearl Harbor. The campaign was a failure resulting in the destruction of the fleet that was sent to destroy the fort and the court-martial of the expedition's naval commander, Commodore Saltonstall. Even though Saltonstall shared command with General Lovell, the leader of the ground forces, Saltonstall received full blame for the failure at Penobscot and was discharged from the Navy. This presentation will explore the failure at Penobscot, and potential reasons why Commodore Saltonstall received full credit for the failure at Penobscot. *(Faculty sponsor: Walter L. Sargent)*

1:00 - 1:20

## **Two Pages, No More, No Less: Works of Creative Nonfiction**

***Kylie Groat***

A reading of short "essais" written over the course of the semester by students in Gretchen Legler's Creative Nonfiction course. *(Faculty sponsor: Gretchen T. Legler)*

1:20 - 1:40

## **Men and Mountains: A Reading of Poems Centered on the Natural World**

***Jacques Rancourt***

After hiking the northern terminus of the Appalachian Trail over the past summer as an artistic platform, my presentation will be a reading of poems written from that experience. These poems confront the role of nature on our identity and the inability to find meaning in nature as a paradigm for natural order. *(Faculty sponsor: Jeffrey J. Thomson)*

1:40 - 2:00

## **Copyright in the Digital Age**

***Bret Woodworth***

A look at how copyright law and enforcement has changed in response to the digital age, some of the affects of these changes, and ideas of how they may further be changed. *(Faculty sponsor: George H. Miller)*

2:00 - 3:30

## **Children, masters, puppets, diviners: human beings' relationship to the natural world**

***Jennifer Bruce, Morgan Cousins, Chelsea Martin, Jennifer Palermo, Natalie Russell, and Nancy Boucher***

Modeled on Plato's *Symposium*, a conversation about some ideas from the Western Canon on human beings' relationship to the natural world *(Faculty sponsor: Matthew G. Freytag)*

## Venue 4

### Business Economics

### Education Center 113

9:00 - 9:20

#### **Wounded Icon**

***Ryan Goldhammer***

GE is the oldest surviving member of the Dow Jones Industrial Average dating back to Thomas A. Edison. It was for the longest time the bellwether of the market -- a stock for widows and orphans. It is now a victim of the current world-wide financial crisis -- a wounded American icon whose stock is selling under 10 dollars a share. Why GE capital will be emphasized and its role in GE's current decline. *(Faculty sponsor: Thomas A. Maroney)*

9:20 - 9:40

#### **Canada in Today's Economy**

***Andrew Dennis***

Canada is America's largest trading partner. As the U.S. declines further into its current financial crisis, how will this affect Canada? Our northern neighbor has already seen the collapse of Nortel, a multi-national telecommunications equipment manufacturer and its industry has increased layoffs and unemployment. The unemployment rate has spiked from 6.5% in the fourth quarter 2008 to 7.75% today, and real GDP was down 3.4% for the last quarter of 2008. Despite all this the Canadian Government has yet to issue any bail-outs. We are similar but yet very different. *(Faculty sponsor: Thomas A. Maroney)*

9:40 - 10:00

#### **Six Sigma Integration: The pathway to unparalleled quality**

***Owen Cassidy***

Many leading companies in the current world economy have flourished from large scale assembly of various complex products such as vehicles and electronics. Typically these products contain many smaller complex parts. Due to this, a high level of defects becomes a reality, thus creating a need for a more efficient method of quality control. The theory and practice of Six Sigma and Toyota's lean modification will be examined. Focus will also be given to the primary methods of insuring efficient and high quality production used by industry leaders such as Motorola, GE, and others. *(Faculty sponsor: Thomas A. Maroney)*

10:00 - 10:20

## **Starbucks**

***Andrew Harner***

This presentation will explore why Starbucks Corporation has taken such a dramatic downturn in today's economy. It will analyze Starbucks business model and study the business models of Starbucks top competitors. The two top competitors examined will be McDonald's Corp and Eight O'clock coffee which is one of America's top whole bean coffees right now. McDonald's has offered convenience but has sacrificed quality, Eight O'Clock has offered quality but not personal experience. Starbucks has offered an experience and quality and has tried to buy their success through mass expansion. This presentation will examine their rise and fall. *(Faculty sponsor: Thomas A. Maroney)*

10:20 - 10:40

## **Break – refreshments available**

10:40 - 11:00

## **The Housing Crisis Part 1**

***Paul Williamson, Andrew Peale, Jillian Briggs, and Amy Kannenberg***

What were the main components to the facilitators of the current housing crisis? What is being done to help repair the battered housing market? Part one of this presentation will answer that first with a description of CDO's and their impacts, followed by a critical analysis of the rise and fall of mortgage giants Fannie Mae and Freddie Mac. *(Faculty sponsor: Thomas A. Maroney)*

11:00 - 11:20

## **The Housing Crisis Part 2**

***Ben Helinski and Paul Williamson***

Fannie and Freddie were not the only ones responsible for the housing crisis, however; Countrywide Financial was also largely influential to the downfall. In response to the devastating impacts on businesses and home owners, the Federal Reserve began the Toxic Asset Relief Program, or TARP, to manage the "bailout" money passed by Congress. The rush to pass it resulted in almost no strings being attached to the money. Was the money well spent? Part two of this presentation will address that along with some predictions for the future. *(Faculty sponsor: Thomas A. Maroney)*

11:20 - 11:40

## **The Failures of Investment Banking**

***Cassandra Cross, Christopher Campbell, Davin Currie, Matthew Humer, Meghan O'Connell, and Melissa Patterson***

This will be the introductory overview of the current financial crisis in terms of investment banking. In this first portion of our presentation we will explore a brief overview of events leading up to the financial demise, such as the creation of the collateralized debt obligation (CDO). The first investment bank to

require federal intervention was Bear Stearns. The next investment bank to fail was Lehman Brothers. These companies will be compared and contrasted to understand their failure. We hope to convey a better understanding of the current financial crisis and how it came about. We will explore specific incidences from each company to illustrate why they failed, as well as set the stage for the three remaining investment banks. *(Faculty sponsor: Thomas A. Maroney)*

11:40 - 12:00

### **The Failure of Investment Banking Part II**

***Cassandra Cross, Christopher Campbell, Davin Currie, Matthew Humer, Meghan O'Connell, and Melissa Patterson***

This will be the second portion of our presentation on the downfall of investment banking. In this presentation we will discuss and explore the failure of Merrill Lynch and the bailouts of Goldman Sachs and Morgan Stanley. We will explore their investment choices, general stock performance and give a detailed analysis of the intricacies that led to the current economic state. After the failures of the huge investment bankers, Bear Stearns, Lehman Brothers and Merrill Lynch, we will show how the investment banking industry went from five strong competitors to two weakened depository banks, and more importantly why it happened. *(Faculty sponsor: Thomas A. Maroney)*

1:00 - 1:20

### **Analysis of the Current Financial State of Quiksilver Inc.**

***Libby McCarthy***

This will be an overview of Quiksilver's history and commercial development. Quiksilver designs, produces, and distributes clothing, accessories, and products for the board riding consumer. Started in the 1960's it is now composed of nine brands that span across the surf, snow, and skate industry. Suffering in recent times from the current financial state of the country has set Quiksilver off its success track forcing it to sell off its large asset of French ski company Rossignol and Dynastar. Although facing financial troubles, it has been producing encouraging financial numbers for 2009. *(Faculty sponsor: Thomas A. Maroney)*

1:20 - 1:40

### **Commercial Banking 1**

***Matthew Judkins, Andrew Merriken, Josh Turner, and Nick Poplawski***

This particular symposium presentation will focus on the commercial banking industry and its recent downfall, particularly analyzing the financial institutions of Bank of America and Citigroup, and their effect on the global recession. The presentation will examine the importance of the commercial banking sector, its history, and why it played such a large role in the economic downturn of the last year or so. By focusing on Bank of America and Citigroup, it will indicate how the country's two largest commercial banking institutions reflect the overall performance of the market as well as the United States and global economy. *(Faculty sponsor: Thomas A. Maroney)*

1:40 - 2:00

## **Commercial Banking 2**

***Matthew Judkins, Andrew Merriken, Josh Turner, and Nick Poplawski***

The accompanying symposium presentation will also be focused on the commercial banking industry, but will center on the firms A.I.G. (American International Group) and J.P. Morgan. Both corporations were once at the core of the commercial banking industry, but have fallen because of the current recession. Although A.I.G. and J.P. Morgan are classified as commercial banks, they offer services such as investment banking, financial services, and insurance. The presentation will investigate the reasons why these financial institutions are experiencing severe losses, and why it is essential for them to succeed in order for the country to escape the current recession. *(Faculty sponsor: Thomas A. Maroney)*

2:00 - 2:20

## **Downshifting the Auto Industry Part 1**

***Scott Grigg and Charles Welch***

The purpose of this presentation is to examine the “big three” U.S. automakers, as well as Toyota, and look at the damage done to these automakers due to the current financial crisis. To properly examine the fall of these wounded industry icons and the sudden stumble that Toyota has taken we must examine the financial crisis itself and look in depth at these four automakers. This presentation will open with an overview of the financial crisis. The history of GM, followed by an overview of the company, its failed market strategy, and what the future may hold will follow. A look at Chrysler will directly follow this in an identical fashion, ending the first of two 15 minute time slots. *(Faculty sponsor: Thomas A. Maroney)*

2:20 - 2:40

**Break – refreshments available**

2:40 - 3:00

## **Downshifting the Auto Industry Part 2**

***Alden Gile and Matt Duffy***

In the second time slot we will continue examining the auto makers with Ford. A similar format will be followed, looking first at the company history, followed by an overview of the company, its faults, and finally a prediction for the company’s future. This will conclude the U.S. automakers and the presentation will continue with a look at Toyota, with emphasis on its operations in the U.S., done in a similar format. The presentation will end with a short conclusion with a forecast of how the current financial crisis may reshape the U.S. auto industry. *(Faculty sponsor: Thomas A. Maroney)*



3:00 - 3:20

### **Anheuser-Busch: A Wounded American Icon**

***Nathan Dumais***

The topic for this particular presentation is a wounded American icon that has been a leader in its industry since the mid 19th century. Anheuser-Busch is seen nationally and globally as another billion dollar company that has been affected by our current economic situation right along with the big financial and investment banks and other industry leaders. In this presentation I will be discussing Anheuser-Busch's history, the problems that the company faced, and its acquisition by InBev. *(Faculty sponsor: Thomas A. Maroney)*

3:20 - 3:40

### **Where Do You Want To Go Today?: An Overview of Microsoft Corporation.**

***Alyssa Forrest***

This symposium will provide an overview of the history of Microsoft over the last 10 years. Details of the past decade will include a financial analysis, progression of the company in the marketplace, and the overall performance of the company as a whole. Major decisions made by CEO's and problems that the company has faced will be explored. To conclude the synopsis there will be a discussion about what is to be expected of the company in the next 9 months and what will work for the company in the future during this unstable economic period. *(Faculty sponsor: Thomas A. Maroney)*

## Venue 5

### Psychology/Sociology

### Education Center 112

9:00 - 10:30

#### **So What Do You Think...**

*Students from PSY 400 Research Methods in Psychology*

Students present the results of their original research projects exploring various variables. *Tom Coolidge*: Does the spring thaw inspire kindness? *Becca Douin and Krista Fricka*: Are Holland codes predicted by astrological signs? *Thomas Deul, Christine Baldwin, Josh Tanguay*: Do Advertisements Instilling Guilt have a Altruistic Effect? *Jessica Goff, Nicky Wyman, Megan O'Neill*: Do different types of music affect retention? *Lauren Kowalczyk*: Is there a correlation between the season of one's birth, and their grade point average? *Matthew Hernandez*: Are men or women more jealous? *Angela West*: Do astrological signs affect extraversion/introversion? *Eliran Ifrach*: Is it sexual harassment? *Daniel Galipeau*: Does social anxiety affect personal attitudes about others? *Elizabeth Borski*: Are the GPAs of students whose parents have a college degree different from students whose parents do not? *Abigail Parker and Hanna Ross*: Are participants more likely to incorrectly identify mental illness in patients who have previously received diagnoses not consistent with reported symptoms? (*Faculty Sponsor: Susan A. Anzivino*)

10:20 - 10:40

#### **Break – refreshments available**

10:40 - 11:00

#### **Perception, Preference, and Prediction: Rumored Instructor Attractiveness as a Factor Predicting Course Enrollment, Attendance, and Success**

***Abigail Parker***

Research has shown that instructors' attractiveness is linked to improved student performance and better teacher evaluations, but there is currently no published research regarding whether perceptions of professor attractiveness are related to enrollment in, or predictions about, a course. This is of particular interest now, as websites used to rate professors often include some way of indicating the professor's attractiveness. This study assessed the relation between participants' thoughts regarding a professor's attractiveness and their likelihood to enroll in a course, as well as their perceptions of general course enjoyment, ease, seeking help, attendance, and overall course success. (*Faculty sponsor: Alison J. Terry*)

11:00 - 11:20

### **Lisa Simpson and the Manipulation of Parody**

***Sarah McKeown***

This is a presentation analyzing the use of humor in *The Simpsons* television show. Using their parody of the popular book series *Harry Potter* as an example, Ms. McKeown will be applying social psychology concepts to determine why viewers enjoy parody as a form of comedy. *(Faculty sponsor: Alison J. Terry)*

11:20 - 11:40

### **The Simpsons Present, Boy Bands: Obsession or Clever Marketing Scheme?**

***Katherine E. Kent***

Boy bands have the ability to sell out arenas, make millions of dollars off of merchandise, and bring thousands of tweens and teenagers to a frenzied state; how do they do it? What powers of persuasion do members of boy bands employ? This phenomenon is beautifully parodied in the episode of *The Simpsons* titled "New Kids on the Bleech". This presentation will utilize elements from Cialdini's *The Science and Powers of Persuasion* to analyze how these factors are employed for a variety of purposes by boy bands. *(Faculty sponsor: Alison J. Terry)*

11:40 - 12:00

### **The Intellectual Contrast Effect: Do Perceptions of a Male Honors Student Vary as a Function of the Intelligence of His Close Associates?**

***Joshua P. Tanguay***

Participants in this experiment were exposed to one of several videos in which a fictional honors student is studying for a test with two other undergraduates. A fourth student arrives late to this study session and does his best to "catch up." The central purpose of the experiment is to explore whether perceptions of the honors student vary as a function of the extent to which the tardy student displays signs of "intelligence." The implications of the results for our understanding of "person perception" will be discussed. *(Faculty sponsor: Steven W. Quackenbush)*

1:00 - 1:20

### **Comic Books and Video Games: A Look Into America's Blame for Juvenile Delinquency**

***William M. Moss, Jr.***

This presentation will delve into where Americans place blame for juvenile delinquency and misbehavior. It will contrast the themes of comic books in the 1950's, the comic book code, and video games today. There will be discussion pertaining to the causes for concern, why the fears take hold, governmental action, and the American public's reoccurring blame of mass media for juvenile misconduct. *(Faculty sponsor: Susan A. Anzivino)*

1:20 - 1:40

### **The Professorial Underground**

**Matthew Caston**

Many studies examine higher education in the workplace, but very few look at the personal experiences, challenges, and expectations a professor encounters within the university. In my senior research study, I examine the experiences and challenges of the UMF professor and compare them to the expectations placed on them by their colleagues, their students, and themselves. Specifically, I look at rank, gender, and parenthood in the workplace in relation to the tenured and adjunct faculty members here at UMF. *(Faculty sponsor: Kristina B. Wolff)*

1:40 - 2:00

### **The Ticket to Fame: A Content Analysis of the Media's Popularization of Serial Killers**

**Linsey Albrecht**

This is a senior research project that compares well known serial killers who have gained a large amount of notoriety through the media with those who were not well publicized. Newspapers, magazines, and documentaries are compared to examine possible relationships between the amount and type of mass media exposure and the demographics of the serial killers and/or their victims. *(Faculty sponsor: Kristina B. Wolff)*

2:00 - 2:20

### **Class, Ethnicity and the Classroom: Educational Values and Their Influences**

**Sarah Bigelow**

The purpose of this senior research project is to explore the formation of educational values. Influences such as ethnicity and socioeconomic status will be examined as possible influences on one's educational values and possibly academic plans for the future. Data will be gathered by using surveys and one-on-one interviews with UMF students and staff from Spurwink, a non-profit organization. The results of these surveys and one-on-one interviews will hopefully provide insight into the development of educational values and whether or not ethnicity and class play a role. *(Faculty sponsor: Kristina B. Wolff)*

2:20 - 2:40

**Break – refreshments available**

2:40 - 3:00

### **Clothing as a Mask: A Study of Clothing's Influence on Identity in American Society**

**Blossom D. Kravitz**

This senior project, "Clothing as a Mask: A Study of Clothing's Influence on Identity in American Society," explores how people present themselves in the clothing that they wear, focusing on clothes being worn as fashion or function or as an amalgamation of both. Through the use of participant observation techniques, data was gathered at four locations across Maine in an attempt to better understand the ties

between identity and clothing. Preliminary findings confirm that fashion and identity have strong attachments to each other. *(Faculty sponsor: Kristina B. Wolff)*

3:00 - 3:20

### **Rehabilitation and Recidivism: A Program Evaluation**

***Jessica Mathews***

My project, "Rehabilitation and Recidivism: A Program Evaluation" is a study designed to look into the success and failure of rehabilitation programs in both public and private prisons across the country. The success and failure rates of these programs will be compared with prison recidivism rates, to determine whether or not rehabilitation is likely to decrease these rates. I will also be making suggestions for rehabilitation program reforms. *(Faculty sponsor: Kristina B. Wolff)*

3:20 - 3:40

### **Fansons: A Cultural Study of Hanson Fans**

***Kimberly Hotham***

For my senior project, I examined the amount of resources spent by fans of the band Hanson. By using data collected through online surveys completed by Hanson fans, this study explores how individuals see themselves in relationship to the fandom as a whole. This data provides insight into the culture of the Hanson Fan and explores factors of this culture such as whether or not the length of time one has been a fan dictates the amount of time and money spent, and whether or not the amount of resources spent affects one's image within the fandom. *(Faculty sponsor: Kristina B. Wolff)*

## Venue 6

### Political Science/France/Art/Senior Class Speakers/ Fiction Reading

### C23 Roberts Learning Center

9:00 - 10:20

#### **Civic Engagement: Holding Public Officials Accountable**

***Nancy Boucher, David Irwin, Lauren Proceviat, Nancy Varin, Ashlee Buzzell, Jeffrey Lees, and Geoffrey Knudsen***

Civic engagement is a critical component of American democracy, ensuring the accountability of public officials to citizens and their civil society organizations. As part of their honors course on civic engagement and social accountability, seven UMF student will present their service-learning projects with various non-profit organizations around the state, including: The Children's Task Force, Maine Economic Research Institute, Maine League of Conservation Voters, Prescription Policy Choices, and Western Mountains Alliance. Complementing these studies on efforts at social accountability by citizen groups is a project on constituency relations within the President of the State Senate's Office. (*Faculty sponsor: Linda J. Beck*)

10:20 - 10:40

**Break – refreshments available**

10:40 - 11:00

#### **The Past and Future of Gun Control**

***Esther McLain***

People flocked to gun stores after the most recent election. Why do you think that is? I would like to talk about the 2 pinnacle cases in gun legislation: Heller v. D.C and Miller v. U.S. Sometimes you cannot legislate problems into non-issues. There have been solutions offered and solutions that could be offered to combat the ongoing gun violence. Justice Scalia brought that this country was built off of guns and protest against tyranny and that unbalanced power between the people and the government is an open door for tyranny. With power/freedoms comes the responsibility not to abuse them! (*Faculty sponsor: James P. Melcher*)

11:00 - 11:20

#### **Encouraging Local Economic Growth through Community-Scale Wind Power**

***Nancy Varin***

In order to retain a greater share of the revenue from wind power on the state level, it is necessary to encourage small and community-scale projects. Successful developments on this level will promote local ownership and retain the economic value of wind power generation in our communities. The model of wind power that I propose is Community-Based Energy Development (C-BED), which allows local owners to pair with private investors to fund projects and sell their energy to local utilities. C-BED legislation

capitalizes on the increasing desire of local businesses, schools, municipalities, and individuals to pursue wind power generation. *(Faculty sponsor: James P. Melcher)*

11:20 - 11:40

### **The Maine France Partnership: What Is It And How We Can All Benefit**

***Coralie Gendrin, Amelie Poilbout, Marie Le Pape, Maël-Yann Le Capitaine, Samuel Pitel, Emmanuelle Renaud, et Marie-Laure Delanoe***

Our French exchange students (from Le Mans, Angers, and Brest), with Lynne Eustis and Sylvie Charron, will introduce the University of Maine System exchange program with universities in Western France. Students will present the regions where they come from and their universities in Brest, Le Mans and Angers, and how they have benefited from the exchange program. We will then discuss how students and faculty at UMF in all fields can benefit from this wonderful bilateral exchange. Delightful delicacies from France will be served thanks to a grant from the Program Maine-France-Quebec (PMFQ). *Bienvenue à tous! (Faculty sponsor: Sylvie Charron)*

11:40 - 12:00

### **Walk Across Maine in Drag-athon -After the Dress Comes Off**

***Timothy Berry***

In late February 2009 Tim Berry walked 300 miles across the state of Maine for charity dressed in drag. The purpose of this project was to make people question their levels of tolerance and was intended as a serious artistic investigation into Maine culture and how it relates to something typically outside of itself (like a drag queen) trying to do something good within/for it. The documentary film created about this walk contains a range of information about Tim's personal experience as well as a discussion of how it engaged a community in a visual, emotional, and cerebral dialogue. *(Faculty sponsor: Katrazyna A. Randall)*

1:00 - 2:00

### **Senior Class Speaker Auditions**

***Senior Class Members***

Members of the senior class will be auditioning for a speaker part in Commencement 2009.

2:00 – 3:00

### **Fiction Writers Read**

Nick Berry, Renate Dubois, DJ Thomas, Matt Daigle, and more

Five students will read their short fiction, stories of life that will hold your hearts and minds. Come listen! *(Faculty sponsor: Elizabeth Cooke)*

**Venue 7**  
**Literature/Readings/etc.**  
**CR123 Student Center**

9:00 - 10:20

**Self-Taught Poetry: An Alternative Tradition of Laboring Writers in Britain**

*Daniel Airhart, Miranda Cote, Jennifer Jackson, Tesse Rau, Taylor Steeves, and Kelly Wright*

In the 18th century, rising literacy rates led to artisans, servants, dairymaids, and other laborers trying to earn their livelihoods by writing for the first time in history. Using the tags "Ploughman Poet" and "Northamptonshire Peasant Poet," Robert Burns and John Clare created and exploited the idea of native genius. Such poets claim to write more authentically about human experience, love and desire, labor, class and social conflict, and the natural world. Papers explore male and female self-taught poets' perspectives on topics such as gender and aesthetics, the georgic and pastoral, and the struggle for self-definition as poets and laborers. (*Faculty sponsor: Misty A. Beck*)

10:20 - 10:40

**Break – refreshments available**

10:40 - 11:40

**Advanced Fiction Reading**

*Stanley Brown, Adam Chabot, Sarah Gauvin, Sabrina Landry, Matt Luzitano, Kat Nicoll, J.W. Oliver, Tyler Robinson, Jacques Rancourt, and Jamie Strout*

Students currently taking English 310, Advanced Fiction, will read either complete short pieces of fiction, or short excerpts of longer pieces. Ten students have volunteered to read their work, of two to three pages each. Expect a variety of voices--from sorrowful to joyful, innocent to treacherous, sarcastic to sincere, profound to giddy--and an equally diverse array of subject material and settings. The entire reading should take no more than one hour; feel free to come and go as needed. (*Faculty sponsor: Patricia E. O'Donnell*)

1:00 - 2:00

**Respect Works: Voices Talking About Sexual Violence**

*Shantelle Forgue, Liam Bechen and Samantha Wiley*

At SAVES (Sexual Assault Victims Emergency Services, Inc.), I have learned facts and statistics and heard about a lot of people's experiences. These stories are not always firsthand, but the lessons that can be taught listening to personal encounters with trauma and violence and its effects on both individuals and communities, really illustrate the role interpersonal violence plays in our society. This open mic is a chance for students to speak about personal stories, loved ones, or to share a piece of writing about sexual violence that impacted them greatly. (*Faculty sponsor: J. Chad Duncan*)



2:00 - 2:40

### **Senior Reading - Readings of Personal Work and Favorite Literature by Senior Creative Writing Majors**

*Trevor Spangle, Elliott Vogel, Harry Davis, Dory Diaz, Stan Brown, and Beth Mathieu*

This reading is to showcase both work by senior creative writing majors who are currently taking the seminar course, and an opportunity for creative writing students to read their favorite work by other authors. For the most part, the reading will be work created during the students' time at UMF, and should consist of poetry, fiction, and non-fiction. This reading will precede the Senior Reading, a longer, special event taking place in May. This reading might be conceived of as more free form, allowing for students to mention influences they might have on their own writing (by reading their favorite authors), or reading works that are less prominent in their portfolio, which may not be read at the Senior Reading. Additionally, it is an opportunity for the creative writing majors to practice their public reading skills, in preparation for the reading in May. *(Faculty sponsor: Patricia E. O'Donnell)*

2:40 – 3:00

**Break – refreshments available**

3:00 - 4:30

### **Making the World a Better Place Through Leadership in Our Community**

*Seven group presentations from PSY247, "Psychology of Leadership." Gus Booth, Lauren Bridges, Christopher Campbell, Angela Courchesney, Yury Dubro, Nathan Dumais, Lindsey Fisher, Eliran Ifrach, Lesley Kittredge, Lisa Kittredge, Lillian Lake, Korina Lee, Katherine Liversidge, Kayla Madore, Ellen Marlow, Matthew McKenna, Kasey McPhail, Katie Melanson, Andrew Merriken, Lindsey Moloney, Micaela O'Shaughnessy, Brain Randall, Donni Russell, Lisa Therrien, Whitney Thurlow, Miranda Travers*

Members of the PSY247 Psychology of Leadership course were asked to make the world a better place by being leaders in our community. Presentations will discuss the triumphs and pitfalls of their efforts to fundraise for the Maine Make-A-Wish program, facilitate activities for Winter Fun Days at Titcomb, run after-school and buddy programs in local elementary schools, aid in a campaign against family violence, and provide research for the Farmington Historical Society. *(Faculty sponsor: Alison J. Terry)*

**Venue 8**  
**Poster Session 1**  
**Education Center Lobby and Hallway**

Please note that poster presenters must be available at their posters for one of the two hours between  
10:00 am and 12:00 noon.

poster #1

**Testing a New, Non-Destructive Method of Chemical Analysis of Lithic Fragments: A Case Study Using Mt. Kineo Rhyolite and Munsungan Chert**

***Ian Edward Putnam***

Research in archaeology must always lie within the accepted moral constraints set by the community. Currently, most lithic artifacts (rocks modified by ancestral humans) may only be analyzed in a non-destructive way. With the value our society puts on ancestral preservation (National Historical Preservation Act, 1966), it is unacceptable to destroy and chemically analyze many of these artifacts. The destructive nature of chemical sourcing inhibits the ability to conduct geo-archaeological research. It may be possible to produce precise compositional data without destroying the artifact. This pilot study seeks to devise a non-destructive geo-sourcing technique using Maine lithic flakes. (*Faculty sponsor: David Gibson*)

poster #2

**Lichen as Pollution Indicators**

***Dale Menard and Michelle Michaud***

In this study, we investigated the amount of pollutants in the tissue of lichen species *Flavoparmelia caperata* from both a clean town and mill town in Maine (New Portland and Jay, respectively). Lichen samples were microwave-digested using HF, H<sub>2</sub>O<sub>2</sub>, and HNO<sub>3</sub>. The digested samples were then analyzed using Inductively Coupled Plasma-Optical Emissions Spectroscopy (ICP-OES). Elements tested for were S, As, Cd, Ni, Al, Be, Cu, Fe, Pb, Ba, K, Ca, Cr, Zn, and Mg. From this we gain a better understanding of how lichens can be used as indicator species for pollution. (*Faculty Sponsor: David S. Heroux*)

poster #3

**Measurement of the Trans Fat levels in Food by Infrared Spectroscopy**

***Justin Stewart***

Scientific evidence shows coronary heart disease (CHD) is a function of low-density lipoprotein (LDL) levels in the blood. The LDL levels are due, in part, to the dietary intake of saturated trans-fat, mostly found in snack foods. This work will detail the measurement of the trans-fat levels by Fourier Transform Infrared Spectroscopy (FTIR). Basic foods will be examined (oils, butter, margarine), as well as heavily processed food items (cookie fillings, etc.). The FTIR method of trans-fat measurement is simple, rapid, and precise. It should provide an accessible measurement method that will inspire (perhaps) improved dietary choices. (*Faculty sponsor: Martin T. Morocco*)

poster #4

### **Does Antibiotic Resistance Lead to Resistance from Bacteriophage Infection As Well?**

***Victoria Pearson***

The increase of bacterial resistance to antibiotics over the past 70 years has led to an increase in research for alternative methods for microbial treatment. Methicillin-resistant *Staphylococcus aureus* (MRSA) is one bacterium that has become resistant; in 2005 there were over 94,000 cases within the U.S. One alternative method currently being researched is host-specific bacteriophages that can be exploited for treatment of bacterial infections. This study examines if antibiotic resistance in *E. coli* leads to phage resistance as well. This will be determined by comparing frequency of plaque formation; results will determine if this resistance does carry over. *(Faculty sponsor: Jean A. Doty)*

poster #5

### **The Comparison of Isotopic Data and Snow Stratigraphy of Bald Mountain**

***Avery Buch, Nicole Choquette, Laura Columbia, Matthew Feldman, and Russ Schmelzer***

This project investigates oxygen isotope values of snow samples from Bald Mountain in Weld Maine, summit elevation 2,100 ft. The isotopic samples will be paired with the snow stratigraphy at the base, mid elevation, and summit. Snow samples were taken at the bottom and top snow layers of each pit. We will also compare the isotopic values to temperature histories captured by data loggers buried at the sample sites. We expect to see similar weather and temperature trends in each pit and the isotopic values will reflect changes in temperature and storm track. *(Faculty sponsor: Julia F. Daly)*

poster #6

### **Determining The Climate and Ecological History of Bald Mountain Through Tree Core Analysis**

***Scott Arndt, Benjamin Engel, Elizabeth Hassett, Leslie Janarelli-Norton, Sarah Jones, and Dale Menard***

Bald Mountain is located in Weld, Maine (2270 ft, 44.65 N, 70.35 W). The purpose of this study was to determine if climatic and ecological changes can be deciphered from the natural growth rate that effects tree ring size. Using a tree corer, samples of spruce trees were taken at the base, mid-elevation, and the summit of the mountain. The diameter of the trees was also recorded. Microscopic analyses of the tree cores show that there are variations in growth rings patterns which can indicate changes in forest density, temperature, altitude, precipitation, and other growth factors. *(Faculty sponsor: Julia F. Daly)*

poster #7

### **Temperature and Light Intensity on Bald Mountain**

***Alicia Bento, Caroline Gallant, Richard Matthews, Bethany Plummer, Logan Simpson, and Lindsay Ward***

At Bald Mountain in Weld, Maine, summit elevation 2,100 feet, our goal was to identify the differences in temperature and light intensity between varying depths of the snow pack at three elevations (~1200 ft, ~1500 ft, and ~2100 ft). At each site, we placed two loggers, one at the bottom of the snowpack and one

just under the surface. The loggers recorded temperature and light from January 31st to March 14th, 2009. The data collected will be compared to meteorological records from that time frame to determine how they correlate to one another, and to test the influence of elevation. *(Faculty sponsor: Julia F. Daly)*

poster #8

### **Quantifying our Reliance on Non-fuel Mineral Resources**

***Bethany Plummer***

Non-fuel mineral resources are often overlooked in discussions of the economy. Because many of them are critical, especially with respect to the development of alternative energy sources, a closer look at their supply and demand is warranted. Over the past thirty years, we have relied more and more on foreign imports of these minerals. Most of these, for example indium and gallium, are imported at a high percentage and are supplied by countries that are neither neutral nor very friendly to us. *(Faculty sponsor: Thomas E. Eastler)*

poster #9

### **Determining the Source of Felsic Dikes in the Bucksport Formation, coastal Maine**

***Michael Webb and Anthony Greenlaw***

Several cross cutting felsic dikes intrude the Bucksport Formation in outcrops along rte. 1A, across from the Penobscot Narrow's Bridge, near Bucksport, Maine. The dikes range in width from 1 m to 10 cm, and have a granitic mineralogy and an aplitic texture. These dikes may be related to the nearby Mount Waldo Pluton (382 my) to the west, or the Wallamatogus Pluton (> 400 my) to the east. Geochemical data, in conjunction with petrographic observations, will be used to determine the source of these felsic intrusions. *(Faculty sponsor: David Gibson)*

poster #10

### **Analysis of Possible Felsic End Member of the Mount Waldo Mixed Magma Pluton**

***Crystal Reed and Jamie Beaulieu***

The Mount Waldo Mixed Magma Pluton (371 +/- 2 Mya) of coastal Maine is primarily composed of a seriate to pophyritic biotite, hornblende, titanite-bearing granite containing enclaves of intermediate to felsic materials and basaltic dikes. While these basaltic dikes have been identified as a possible source for the mafic end member material responsible for this mixed magma series, a felsic end member has yet to be identified. A series of felsic dikes intrude the Bucksport Formation on US Route 1A south of the Penobscot Narrows Bridge along the western shore of the Penobscot River. On the eastern shore of the Penobscot River is the two-mica Wallamatogus Pluton (397 +/- 2 Mya), another possible source of the Mount Waldo felsic end member. Geochemical and petrographic analysis of the felsic dikes may determine if they are the felsic end member of the Mount Waldo Mixed Magma system. *(Faculty sponsor: David Gibson)*

poster #11

## **Water Contamination in Kaoma, Zambia**

**Abby Pettitt**

A study was conducted during the summer of 2008. It consisted of testing for *Escherichia coli* (*E. coli*) presence in a variety of water samples in the village of Kaoma, Zambia. *E. coli* is a strong indication of recent sewage or animal waste contamination. The data clearly show that surface water, and poorly stored water, sampled contains *E. coli*. Bore holes (wells) and closed system storage devices were found to be free of *E. coli*. The local residents' perceptions about water and water safety will also be discussed as part of the results of this project. (*Faculty sponsor: David S. Heroux*)

poster #12

## **Using Effective Heat Sinks and Thermal Absorbers in a Small Maine Greenhouse**

**Benjamin Engel**

All greenhouses must meet the demands of maintaining a reasonable temperature in the heat of the day while also minimizing the energy necessary to keep it sufficiently warm at night. In Maine, this can be a difficult challenge, especially in an existing primitive greenhouse. The goal was to achieve this balance while still maintaining maximum usability of the greenhouse and minimizing the budget. Research was conducted in the greenhouse on numerous materials and configurations using temperature and light sensors. Using this data, real life applications to benefit the greenhouse were implemented and their usefulness was evaluated. (*Faculty sponsor: David S. Heroux*)

poster #13

## **Bedrock Geology of Clifford Woods, Farmington, Maine**

**Sarah Jane Clair Jones**

Bedrock Geology of Clifford Woods, Farmington, Maine Controversy exists over whether the Madrid Formation of the Central Maine Basin accumulated in a forearc basin or trench. In Clifford Woods, Farmington, dominantly metasandstones and minor black shale dip steeply and top to the northwest. Compared to exposures of Madrid Formation in North Anson, grain size is smaller (0.3 mm vs. 0.8 mm), but overall composition based on petrographic and XRF data suggests they are the same. The unit has a uniform magnetic signature (53,700 gammas), higher than pelitic rocks to the SE. High quartz content and zircons favor a forearc basin setting. (*Faculty sponsor: Douglas N. Reusch*)

poster #14

## **Site Geology and the Efficiency of Ground-Sourced Heat Pump Systems**

**Kevin Donoghue**

Ground-sourced heat pumps are a practical, cost-saving, and environmentally friendly method of heating. My research is focused on how site geology affects overall efficiency. The permeability of samples collected ranges from  $1.8 \times 10^{-3}$  cm s<sup>-1</sup> (till, Chesterville) to  $1.1 \times 10^{-2}$  cm s<sup>-1</sup> (sand, Farmington). In a counter-top model, preliminary results suggest that heat transfer on the order of 5-20 watts is associated with a thermal gradient around  $1^\circ\text{C cm}^{-1}$ . The large difference in soil permeability

suggests that site geology may be a significant factor in determining overall system efficiency. (*Faculty sponsor: Douglas N. Reusch*)

poster #15

### **Sustainable Campus Coalition: A Year of Collaborations**

#### ***The UMF Sustainable Campus Coalition***

The Sustainable Campus Coalition is a group of students, faculty, and staff who promote environmental sustainability at UMF and in the Farmington community. This has been an active year for the SCC, marked by collaborations with many groups. This poster will summarize those projects, including the Energy Forum (with Western Mountains Alliance), Bill McKibben's visit (UMF Diversity Committee), greenhouse gas assessment (Town of Farmington), the Maine Student Climate Change Summit (Sustain Maine), elementary school compositing (Mallett School), the Salvage & Recycling Project (Diversity Committee and Mariella Passarelli's Guatemala Travel Course), and Grace Eason's Education Center project (with everybody). (*Faculty sponsor: Andrew M. Barton*)

poster #16

### **Natural Science Travel Courses: Experiential Learning in Far Away Places**

#### ***Natural Science students and faculty***

Imagine getting out of Dodge! This stand-alone slideshow offers glimpses of the travel course experiences enjoyed by adventuresome UMF students and faculty from the Natural Science Department. Highlighted are scenes from Ireland/Scotland, Costa Rica, the Virgin Islands, Labrador/Newfoundland, Desert Southwest, Pacific Northwest, Canadian Maritimes and Guatemala. (*Faculty sponsor: Nancy Prentiss*)

poster #17

### **Geometric Art**

#### ***Students in MAT104 sections 3,4 and 5***

As part of their study of geometry students, in MAT104 are required to produce several different types of art projects that make use of various geometric skills. This display of their art work contains 3 types of tessellations, Islamic type art and perspective drawing. (*Faculty sponsor: Pamela A. Mitchel*)

**Venue 9**  
**Poster Session 2**  
**Student Center Hallways**

Please note that poster presenters must be available at their posters for one of the two hours between  
10:00 am and 12:00 noon.

poster #18

**Stone Soup Gardens**

***Lila Haynes and Bethany Graffam***

Stone Soup Gardens (SSG) is a community collaborative. It is focused on fostering community involvement through education and shared resources as well as promoting curiosity, discovery, and innovation for the benefit of society. SSG will create a network of experts and laypeople with an interest in community health education, food security, mental health, and chronic disease prevention at the same time as improving the social capital in the region. The site is a destination for learning and widely run and utilized by students. Participants include those of all ages, skill sets, and abilities. *(Faculty sponsor: Maurice W. Martin)*

poster #19

**Better Business Boudoir: How a Business Woman's Clothing Affects Perception of Her Business Qualities**

***Tomi Lee Kilburn, Lisa Therrien, Abigail Parker, and Micaela O'Shaughnessy***

Must women dress in a masculine fashion, as Hilary Clinton does in her pantsuits, or do women need show to their feminine side, as Sarah Palin did with her skirt suits, to be accepted as leaders in the business world? This presentation will discuss a recent study that used photos of women in different types of business attire to analyze the perceptions of women in the workplace. *(Faculty sponsor: Alison J. Terry)*

poster #20

**Student Based Photography Exploration and Reflection: Transitional Issues of the Upward Bound UMF Student**

***Carla Powers and Danielle Cerone***

Students face transitional barriers when coming to college. However, Upward Bound alumni (first generation, low income students) may experience additional transitional barriers. We wanted to find if these barriers were common to Upward Bound alumni here at UMF. The use of participant photography and interviews were used in order to express these transitional barriers. We also investigated to see if they have found support structures to over-come them. We think that the information we have gathered will be useful for faculty and counselors in assisting these students. *(Faculty sponsor: J. Chad Duncan)*

poster #21

### **Coordinated School Health Programs**

***Rachel Beaulieu, Elizabeth Bergeron, Kelley Damboise, Bethany Kimball, Mary Doyle, Amy Ellis, and Libby Parr***

A coordinated approach to school health enlists all resources of a school and community to improve students' health and learning, and organizes them so they can work together in a systematic way. A coordinated school health program is an effective, efficient systemic model designed to "connect health with education." The purpose is to improve students' health and their capacity to learn through the support of families, communities and schools. Students will present their ideas of how this model can be a reality in schools. *(Faculty sponsor: Stephanie A. Swan)*

poster #22

### **Life As They Know It: Ethnographic Content Analysis of Hemophiliac Online Communities**

***Matthew Lariviere***

The research presented describes ways in which hemophiliacs and their families communicate and understand their condition. By using content analysis of online blogs I compare the way in which hemophiliacs, medical experts and family members explore issues related to or how hemophilia impacts one's identity and to define limitations of how life is for a hemophiliac. Reported results will include a comparison with responses from student questionnaires. *(Faculty sponsor: Kristina B. Wolff)*

poster #23

### **Alternative Vehicles, Alternative Energy**

***Students of PHY 110, Physics of Cars***

With once-mighty car companies on the brink of bankruptcy and a new president pledging to push green energy, 2009 is a good time to take a look at the technology behind cars and energy generation. Groups of students have carried out term projects on alternative fuels, alternative vehicles, and alternative modes of providing the electrical energy that might power those alternative vehicles; these groups will present their projects in poster form. Topics include photovoltaics, passive solar heating, wind energy, geothermal energy, hydroelectric power, ethanol, biodiesel, nuclear fission, nuclear fusion, electric vehicles, hybrid electric vehicles, and the electrical grid. *(Faculty sponsor: Christopher Magri)*

poster #24

### **Global Climate Change: Implications for our Future Environment**

***Kristin Klaiber, Brandon Emerson, Stuart Blanchard, Kelly Wright, Christie Wilkerson, Jennifer Price, Kathryn Bears, Steve Thompson, Tiffany Kennison, David Bersell, Justin Norman, Savanna Dickey, Amanda Roy, Ashley Buzzell, Kimberly Morissette, Christina***

The effects of greenhouse gases on the global climate and the implications of global warming are highly charged scientific and political issues. Climate changes in cycles of 100,000, 40,000, 21,000, and 1500 years with the most profound swings between periods of continental glaciation and the warm, inter-



glacial temperatures of today. Atmospheric carbon dioxide levels oscillate in synchrony with these climate shifts. Bolstered by carbon emissions from industrial processes, levels of atmospheric carbon dioxide are higher today than at any time during the past 400,000 years. We do not know how, or if, this carbon overload will affect the global climate system. Thirty one students explore the impact of climate change on the global environment with 12 poster presentations. Topics include volcanism, wind power, catastrophic events, increasing storms, greenhouse gases, health, and the politics of climate change. *(Faculty sponsor: Andrea Masterman Nurse)*

Poster #25

### **Sex and Gender in Cross-Cultural Perspective Poster Presentations**

Students of ANT 377/WST 377 , Sex and Gender in Cross-Cultural Perspective

Students in this Anthropology/Women's and Gender Studies Cross listed course have created posters which reflect their final term projects. They researched a host of individualized topics related to the cross-cultural construction of sex, gender, sexuality, sexual orientation, gender roles, gendered work and a host of other related topics. These posters are visual representations of each students' original work on this topic. *(Faculty Sponsor: Juliana Acheson)*

## Venue 10

### Poster Session 3

### North Dining Hall C

Please note that poster presenters must be available at their posters for one of the two hours between 10:00 am and 12:00 noon.

poster #25

#### **Environmental Health Website Presentations**

***Julie Adley, Liela Banks , Christine Chambers, Bethany Charles, Shelby Childs, Barry Coolbrith, Nathan Delano, Michael Dobinski, Joshua Garneau, Jason Lemieux, Ryan Pelletier, Kristen Ray, Heather Razin, Leslie Rogers, Olivia Schmidt, Julie Sexton, Aaron Simpson, Dan Stefanilo, Mestawot Tilahun, and Jasmyn Wagg***

As a culminating project for Environmental Health, students are required to research an environmental health topic and create an original website with information that is tailored to a specific population. These future health educators will present their ability and skill to effectively communicate health messages to needy populations. In today's environment, being well versed in health information technology is a critical skill for health professionals. Students have been granted freedom in topic selection and in many cases have carried forward research from previous courses or will have the opportunity to further research their area of interest in future community health classes. *(Faculty sponsor: Stephanie A. Swan and Denise Boothby)*

poster #26

#### **Student Projects in Cryptography and Databases**

***Derek Gilbert, William Moss, and Megan MacDonald; Jason Clement and Dan Nickerson; Joshua Bossie and Benjamin Wells; Adam Case and Christopher Pelkey; Ira Fellows; Nicholas Marshall; Michael McPherson; Christopher Reed; Shane Martin***

Students from the Cryptography and Database classes will present their individual or small group projects. Cryptography projects include methods involved in encrypting (i.e., converting to an unintelligible form) messages. Analysis strategies to try to recover the original data from unintelligible messages will be presented. Database projects will illustrate the design process (with diagrams) as well as the techniques to create the database and to retrieve information from the database. Students have designed their database to implement an application of their choice. *(Faculty sponsor: Gail L. Lange)*

# Arts Fortnight Schedule of Events

## Thursday, April 9 – Sunday, May 3

### One Act Festival

Thursday, April 9 – Saturday, April 11 7:30 p.m.

Sunday, April 12 2:00 p.m.

Alumni Theater

*Joshua Ames, Rebekah Church, Angela Hooper, Kenny Lamb*

One act festival of student directed and produced plays. Admission: \$7 adults, \$4 seniors and children, free for UMF students. (*Faculty advisor: Andrea Southard*)

### The Second Annual Pixel Hunter Video and Animation Festival

Monday April 13 7:00 – 9:00 p.m.

Lincoln Auditorium

Pixel Hunter Video and Animation Festival is a selection of time-based media from the UMF student body. The works are diverse, sometimes challenging and always surprising. )*Presented by faculty advisor: Dawn Nye*)

### Introduction to Theatre Student Projects

April 14 9:50 a.m.

Alumni Theater

*Mathew Collier, Joshua Daigle, Holly Emmons, Brianne Libby, Erin Powers, Todd Philbrook*

Ten-minute plays presented as projects for Introduction to Theatre class. (*Faculty advisor: Andrea Southard*)

### Night of Minimalism

Tuesday, April 14 7:30 p.m.

Nordica Auditorium

*The Minimalist Ensemble*

A program of minimalist musical works featuring "In C" by Terry Riley.

### Death of the Hired Man

Wednesday, April 15 – Thursday, April 16 7:30 p.m.

Alumni Theater

*Jared Hannah*

A student-directed play. (*Faculty advisor: Peter Simmel*)

### **UMF Concert Band Spring Concert**

Thursday, April 16 7:30 p.m.

Nordica Auditorium

*UMF Concert Band*

*Conductor: Anita Jerosch*

The UMF Concert Band presents a program of film music, with excerpts from Star Wars, Lord of the Rings, Somewhere in Time and Schindler's List. Featuring soloist, Dustin Harrison on trumpet. Admission \$6 adults, \$5 senior citizens, free for UMF students.

### **bob. The Senior Art Show**

Thursday, April 16 Reception 5:00 – 7:00 p.m.

Exhibit open through Arts Fortnight; Artist Talk on MDW Symposium Day

Art Gallery

*Tim Berry, Autumn Doiron, Meagan Irish, Sarah Levensalor, Matt St. John, Steph Small*

The Senior Art Show will showcase a variety of works from video installations to optical illusions and sculpture. The dynamic body of work with significant cultural relevance, reflects an eclectic and dynamic display of student research. Their subject matter includes social interaction and activism, feminism and the female form, iconography of consumerism, fully saturated investigations of beauty and the sublime and the interplay between cultural illusions and social myths. (*Faculty advisor: Katrazyna Randall*)

### **Introduction to Theatre Student Projects**

Tuesday, April 28 9:50 a.m.

Alumni Theater

*Playwrights: Eric Brooks, Sarah Gordon, Jake Sears, Katy Soule, Kealeigh Sullivan, Nicholas Waltz and Sean Williamson. Cast: TBA*

Several ten-minute plays will be presented as reader's theatre. (*Faculty advisor: Andrea Southard*)

### **Third Annual Michael D. Wilson Symposium Arts Night**

Tuesday, April 28 6:30 – 9:00 p.m.

Art Gallery

Alumni Theater

Nordica Auditorium

An evening of eclectic programs in three locations. The Senior Art Show and experimental music in the Art Gallery, a student-produced play and Clefnotes in the Alumni Theatre and music and dance in Nordica Auditorium. Please see "Arts Night," earlier in this program for details.

## **INCARNATION for automobile orchestra**

Wednesday, April 29 5:00 – 6:00 p.m.

High Street Parking Lot

*Philip Carlsen, conductor, et al*

UMF's third traffic jam session, featuring an orchestra of fifty to sixty automobiles, solemnly gathered in the High Street parking lot for a socio/musico/theatrical ritual of sublimely antiphonal, incantatory car-cophony. There will be two 20-minute performances.

## **Passport**

Thursday, April 30 9:00 p.m.

Nordica Auditorium

*Steve Pane (faculty): synthesizers; Nathaniel Burns (student): iPods, bass, guitar, synthesizer, and more; Graham Duval (non-student): drum set and synthesizer. In The Dual are Shea Ellis: guitar, banjo, mandolin, vocals (alumnus) and Justin Labbe: guitar and vocals (non-student)*

This is an electro-acoustic piece with an accompanying light show. The lights are composed and programmed to be part of the over all vision for the piece. In addition, two iPod Touches will be used as synthesizers, sequencers, drum machines, and for generative music. The opening act is a folk duo called The Dual.

## **Joshua Case - Senior Composition Recital**

Friday, May 1 7:30 p.m.

Nordica Auditorium

*Steve Pane and Lily Funahashi: piano; Philip Carlsen: cello; French horn, violin and viola: TBA*

This concert will feature three musical works composed by Joshua Case (2008 Michael D. Wilson Research Scholar) during the 2008-2009 academic year. The works include: Two Movements for Piano, String Trio, and Quartet for Piano, Horn, and Strings. In addition, the composer will introduce each piece and discuss his musical ideas with the audience.

## **UMF Community Chorus Spring Concerts**

Saturday, May 2 7:30 p.m.

Sunday, May 3 3:00 p.m.

Old South Church

*UMF Community Chorus*

*Conductor: Bruce McInnes*

*Accompanist: Patricia Hayden*

The UMF Community Chorus will perform works by Haydn, Mendelssohn, Purcell, post-Easter selections of Handel's Messiah and a group of spirituals. Admission \$6 adults, \$5 senior citizens, free for UMF students.

**All events open to public. Presented by UMF Department of Visual and Performing Arts and the Ministry of Experimental Arts.**

# Visual, Sound, Performance Art and Installations

These installations are at various locations around the campus and will be displayed at various times during “Arts Fortnight” which runs from April 9<sup>th</sup> to May 3<sup>rd</sup>.

## **Guerrilla Girls Tribute (guerilla art)**

*Melissa Page and Justin Norman*

4/13 – 4/17 throughout campus.

## **New American Dreams (interactive installation)**

*Garrett LaForge*

Tuesday, 4/14 11:00 a.m. – 5:00 p.m. Student Center

In a country being hit hard by a crippling recession, people are losing sight of what it means to be American. The dream of the self-made man is gone, replaced by a need just to get by - and it shows. This is a culture of instant gratification and immediate pleasure, and it's time we directly addressed that. This display places sex in the public eye, forcing us to either talk about it or deliberately ignore it.

## **Fast Food Advertising Campaign (visual art)**

*Patrick Fontaine and Joanna Wilbur*

4/13 – 4/18 throughout campus.

## **Airplanes (interactive installation)**

*Joshua DeMello*

4/14 – 4/30 Merrill stairwell from first to fourth floors

Community project to compose unity of support of public art in uninhabited spaces. The community effort in the making of the airplanes creates the actual sculpture.

## **The Three Little Pigs (visual art)**

*Jessica Allain, Justin R. Jett, Kasey Simoneau*

4/27 – 5/2 Roberts Learning Center and Student Center

The three little pigs are a representation of the separation of classes and the big bad wolf represents American banks.

## **Kruger Box (interactive installation)**

*Melissa Page*

Tuesday, 4/28 8:00 – 10:00 p.m. Merrill Hall 4<sup>th</sup> floor Piazza

Installation inspired by artist Barbara Kruger.

### **Inflatable (installation)**

*Katie Keough*

Wednesday, 4/29 1:30 – 5:00 p.m. Library Green or the Beach, depending on wind conditions.

### **Atak-a-pus (guerilla art)**

*Myriah Carreiro*

Thursday, 4/30 all day Library Green

### **Layla (visual art)**

*Carmon Parker*

Time and place: TBA

In 1970, Derek and the Dominoes released the album "Layla and Other Assorted Love Songs". Fans later found out that Derek was really Eric Clapton, one of the best blues guitarist in the history of music. The songs on this album, including Layla, were written for his then-love Patty Boyd, who was dating George Harrison of the Beatles.

### **Untitled (installation)**

*Matt St. John*

Throughout campus, time TBA

This past fall, St. John collected a large volume of leaves for an indoor installation titled "fee-bee" which mocked some of the behaviors of the Black-Capped Chickadee, piling over 25 bags of leaves into a small closet. When the piece was over, he bagged all the leaves once more and plans to release them back into the outdoor environment in some way.

### **Nothing is Read (installation)**

*Robert Boudreau*

Time and place TBA

### **Flash Mob (performance art)**

*Ruby Bond, Agnes Brackett, Sarah Brown and Sarah Gauvin with audience participation.*

Time and place to be a surprise.

### **Death of an Artist/Birth of an Artist (interactive visual art)**

*Samuel Mills*

Time and place: TBA

*Above student works from Sarah Maline's art history classes.*

## **Politiphonic (sound art)**

*Andrew Thompson*

Merrill Hall 4<sup>th</sup> floor Piazza time TBA

Politiphonic is a sound installation that deals with people's thoughts of the very nature of politics. A myriad of audio equipment simultaneously offers isolation and community to the audience. People's words are pushed, pulled, gathered and distorted in an attempt to convey the many facets of our modern political system.

## **A Whiteout in Winter (interdisciplinary installation)**

*Benjamin D. Prentiss*

Merrill Hall, time and room TBA

This installation combines physical art, text and music. The purpose is to create the elements and feeling of a winter whiteout using these three mediums.

In addition, student works from classes of Tom Higgins, Anthony Holmquist, Christopher Lavery, Dawn Nye, Elizabeth Olbert, Katrazyna Randall and Barbara Sullivan will be exhibited throughout all the floors of Merrill Hall.



# The Michael D. Wilson Research Fellows and Scholars

The Michael D. Wilson Scholars represent some of UMF's best students from across all disciplines. The program recognizes UMF students' tremendous creativity, and expands UMF's commitment to undergraduate research and faculty mentoring. Each scholar was awarded funding to help underwrite an original undergraduate research or creative project. The scholar awards are funded by a generous gift of Michael and Susan Angelides, in honor of their good friend, and UMF alumnus, Michael D. Wilson, class of 1976. The students were nominated by a UMF faculty mentor and, after a competitive selection process, were chosen by the UMF Institutionalizing Undergraduate Research Development Team. The awards are given each semester.

## 2008-2009 Research Fellow

**Daniel Allen**, *Sigma Invariants of Braid Groups*

Faculty Sponsor: Dr. Nicholas A. Koban

## Fall 2008 Wilson Scholars

**Joshua Case**, *Senior Recital and Compositions*

Faculty Sponsor: Dr. Philip Carlsen

**Ben Engel**, *Effective Heat Sinks and Thermal Absorber Materials and Designs for a Small Greenhouse*

Faculty Sponsor: Dr. David Heroux

**Isaac Firth**, *Kennedy: The Forging of a Public Image*

Faculty Sponsor: Dr. Christopher O'Brien

**Jamie Gagne**, *Tackling the Class issue in the Women's Suffrage Movement: The Working-Class Women of the National Woman's Part*

Faculty Sponsor: Dr. Allison Hepler

**Caroline Gallant**, *Temperature Variation in Western Maine Ponds*

Faculty Sponsor: Dr. Julia Daly

**Eric Munson**, *The Penobscot Expedition and the Courts-martial of Lt. Colonel Paul Revere, and Commodore Dudley Saltonstall*

Faculty Sponsor: Dr. Walter Sargent

**Stephanie Nobrega**, *An Undergraduates' Knowledge of First Person Language*

Faculty Sponsor: Dr. Jewel Jones

**Victoria Pearson**, *Antibiotic Resistance and Co-Evolution in E. coli*

Faculty Sponsor: Dr. Jean Doty

**William Roy**, *What do College Students Really Want? The Happiness-Wisdom Tension in Contemporary Conceptions of the "Good Life"*

Faculty Sponsor: Dr. Steven Quackenbush

**Samuel Valentine**, *Implementing Collaborative Online Work Environments in the Classroom*

Faculty Sponsor: Dr. John Messier

## Spring/Summer 2009 Wilson Scholars

**Emily Baer**, *Art as Activism: Historical Context and Contemporary Relevancy*

Faculty Sponsor: Kate Randall

**Addie Harris**, *DNA Sequencing as a Method for Larval Identification in Odonates*

Faculty Sponsor: Dr. Jean Doty  
**Andrew Thompson**, *Missa Ukulele*  
 Faculty Sponsor: Dr. Phil Carlsen  
**Amy Blankenship**, *Couch Surfing Across America: Fiction Built Upon Found Truths*  
 Faculty Sponsor: Pat O'Donnell  
**Gillian Laidlaw**, *The Lumberyard: An Ethnography of Northern Forest Lumber Workers*  
 Faculty Sponsor: Dr. Julianna Acheson  
**Mike Camacho**, *Excessive Rainfall Affect on Lake Transparency*  
 Faculty Sponsor: Dr. Dan Buckley  
**Sara Groves**, *Representations in French Cinema of the Algerian War*  
 Faculty Sponsor: Daniel Becker  
**Anthony Greenlaw**, *A Petrographic and Geochemical Investigation of Central Maine Plutons – A Single Intrusive Sheet or Individual Plutons*  
 Faculty Sponsor: Dr. David Gibson  
**Carla Powers and Danielle Cerone**, *Student Based Photography Exploration and Reflection: Transitional Issues of the Upward Bound College Student*  
 Faculty Sponsor: Dr. Chad Duncan  
**Chris Stevens**, *DNA Sequencing as a Method for Larval Identification in Odonates*  
 Faculty Sponsor: Dr. Jean Doty  
**Ty Thurlow**, *Narratives of War*  
 Faculty Sponsor: Michael Johnson  
**Ian Putnam**, *Testing a New, Non-Destructive Method of Chemical Analysis of Lithic Fragments: A Case Study Using Mt. Kineo Rhyolite and Munsungen Chert*  
 Faculty Sponsor: Dr. David Gibson  
**Oreva Olakpe**, *Post-war Conflict Resolution: Grassroots involvement in Liberia after the 1999-2003 Civil War*  
 Faculty Sponsor: Dr. Sylvie Charron  
**Christian Tuttle**, *Allegories of Ivory in La Chanson de Roland*  
 Faculty Sponsor: Eric Brown  
**Derek Gilbert**, *Open Source Software in Radio Broadcasting*  
 Faculty Sponsor: Gail Lange  
**Adam Case**, *Designing and Analyzing New Algorithms and Heuristics to Solve the Coin-Moving Puzzle*  
 Faculty Sponsor: Dr. Chris Bennett  
**Ken Masloski**, *Grasshopper Diversity in Central Maine*  
 Faculty Sponsor: Dr. Ron Butler

*The Wilson Research program is facilitated by the Undergraduate Research Council whose mission is to further develop and implement the goal of institutionalizing undergraduate research at UMF.*

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# ***NOTES***

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## *A Tribute to Michael D. Wilson*

*Michael D. Wilson graduated from UMF in 1976. He loved teaching, helping children grow and develop. He reached out to help people whenever he could. He also had a deep love for the beauty and serenity of the wilderness where he felt a deep sense of connection.*

*Michael chose to live his life in a manner that was true to his beliefs. Many people remember him as a special person and a good friend. He died in a tragic accident in 1977, just as he was preparing to begin a new teaching position in a small town in Aroostook County.*

*Michael D. Wilson Symposium Day is made possible by a gift from Michael and Susan Angelides, who remember Michael with gratitude.*



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