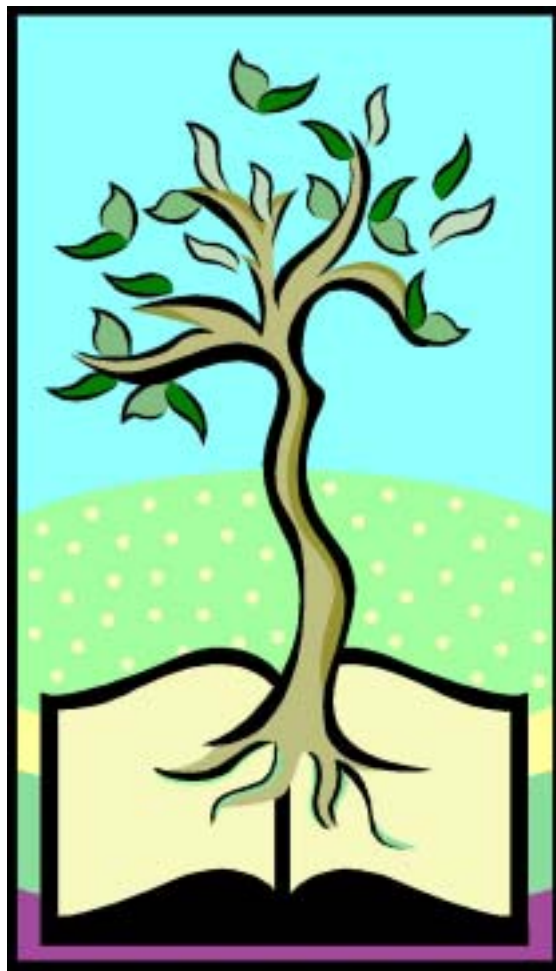


Michael D. Wilson Symposium

*UMF's Celebration of
Undergraduate Research and
Creative Achievements*



April Tenth and Eleventh,
Two Thousand and Seven

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 special pleasure this year to celebrate 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

Symposium Day is organized by the University Culture Committee.

Sheena Bunnell, *Professor, Social Sciences and Business*

Sarah Maline, *Associate Professor, Visual and Performing Arts*

Pebble Brooks, *Assistant Professor, Early Childhood & Elementary Education*

David Heroux, *Assistant Professor, Natural Sciences and committee chair*

Doug Reusch, *Associate Professor, Natural Sciences*

Paul Stancioff, *Associate Professor, Natural Sciences*

Theresa Overall, *Assistant Professor, Middle and Secondary Education*

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Please note that if you wish to have lunch in the South Dining Hall, you may purchase a NOAFL (not quite a free lunch) ticket for \$2.00 in the Student Center Lobby (Students with meal plans should use their cards)

Program at a Glance

Tuesday, April 10

Arts Night 2007

5:00 - 9:30pm

Wednesday, April 11

Special Sessions

UMF's Green Buildings

Education Center Lobby 9:00 - 3:00pm

Inaugural Wilson Scholars

Roberts C23 9:00 - 12:00

Main Program

Art Gallery, Education Center,

Roberts Learning Center, Student Center

9:00 - 10:20 Oral Presentations

10:20 - 10:40 Break

10:40 - 12:00 Oral Presentations

12:00 - 1:00 Lunch

1:00 - 2:20 Oral Presentations

2:20 - 2:40 Break

2:40 - Oral Presentations

Poster Sessions

Education Center and Student Center

Refreshments will be available all day in the Student Center,
Education Center lobby, and Roberts Learning Center

Michael D. Wilson Symposium Day

Arts Night 2007

Tuesday, April 10, 2007 5:00-9:30pm

5:00-6:00 pm

Front Porch of Psychology and
Merrill, Franklin and Psychology Parking Lots

Welcome

Kristen Bisson, liberal arts undeclared major, freshman

Opening Remarks

Dr. Theodora J. Kalikow, President, UMF

Car Life: a traffic jam session for automobile orchestra

Dr. Philip Carlsen, Professor of Music

Philip Carlsen's *Car Life*, a composition for automobile orchestra of fifty vehicles divided into three groups: council of sages, *vox populi*, and distant angel choir. The subtle harmony, antiphony, and cacophony of horns, radios, warning beepers, revving engines, and so on, will be coordinated by a signal corps of five conductors spread across campus. The piece will be done twice, at approximately 5:10 and 5:35. The best location for experiencing *Car Life* is probably the center of campus, but the audience is encouraged to walk around during the performances.

6:00-7:00 pm

Alumni Theatre

This World is Not the World

Written, produced and directed by **Gavin Pickering**, secondary education/ English, senior

Jewish Woman: **Samantha Baker**, interdisciplinary theatre /arts, senior

Jewish Man: **Eric Zimmerman**, special education, junior

American Woman: **Natalie Bean**, secondary education/English, senior

American Man: **Mark Denoncour**, English, sophomore

German Woman: **Mary Ellms**, creative writing/English, senior

Angel/Assistant Director: **Kristin McCormack**, elementary education, sophomore

The creation of this play has been quite a process. It all started when I saw Peter Simmel's production of "Edith Stein". There was a big yellow Star of David painted on the stage floor. I couldn't help but think about a play that would utilize this shape in a more direct way. I did research all of last summer, and came up with a sketch of what it might be like. The subject came up in a conversation with Natalie, who now plays the American Woman, and she couldn't wait to get started. She pushed me to start writing something more tangible. To help the process along, I cast the parts before anything was really written. We met almost every weekend in order to develop the best product possible. We now have a finished play that we can all be very proud of. Thank you all for this opportunity to express the hard work and dedication given by this amazing group of people. These are all extremely talented, and I'm so glad I was able to accomplish so much with them. - Gavin Pickering

Michael D. Wilson Symposium Day

Arts Night 2007

Whisky Dancer

Written, produced and directed by **Levi Galloway**, elementary and secondary education/English, graduate

Samuel Fortis:	Mark Denoncour , English, sophomore
Eddie Fortis, his son:	Eric Zimmerman , special education, junior
Arianna Fortis, Samuel's wife:	Maria Skillings , interdisciplinary theatre/arts, sophomore
Judy Marqlee:	Brianna Rush
Clare Marqlee, her daughter:	Jennifer Brown , interdisciplinary theatre/arts, senior
Mike Stan, a waiter:	Matt Black , secondary education/mathematics, junior

Whisky Dancer is a play written by Levi Galloway that follows the lives of two families that cross paths. Each family has suffered a painful loss and has become socially inept. They find in each other the strength to carry on from painful memories and stagnant behaviors.

Excursus

Dan Allen (trumpet), mathematics, freshman
Josh Canty (bass), political science, senior
Dustin Haskell (drums), elementary education, senior
Tom O'Donnell (piano), manager of network and server systems, Computer Center

Excursus will perform post-modern jazz interpretations of modern rock songs, video game and cartoon themes, and original material.

6:00-7:00 pm and 7:00-8:00 pm Art Gallery

Incite: the Senior Art Show An exhibition of works by senior art students: **Jennifer Amadon**, art, senior; **Deborah Arsenault**, art, senior; **Betsy Gray Bell**, art, senior; **Katrina Blanchard**, art, senior; **Alexis Judic**, non-matriculated student; **Chancell Luce**, art, senior; **Brandon Morgan**, art, senior; **Stewart Purinton**, art, senior

Quilisma

Meghan Dzyak, individualized major: music/writing, senior
Vincent Leonetti, art, junior

Quilisma is experimental musical efforts by Meghan Dzyak and Vincent Leonetti with guest performer, Christopher Clark in a live application, focusing on a palette of found sounds, electronic, rock, and experimental music to create the soundscape.

My Father's Dragon

Christopher Clark, creative writing, senior

The music is a mixture of experimental pop music, early hip-hop, and 1960's surf rock, which is created with drums, a laptop, voice, an old synthesizer, and guitar.

Michael D. Wilson Symposium Day Arts Night 2007

Electroacoustic Music Class

Andy Pott, art, senior; “Synthetica”; **Daniel Sharoh**, English, sophomore; “Trains and Elevators” & “Sine Wave”; **Andrew Thompson**, music/arts, sophomore; “Ride the Wave”; **Elliot B. Lyons**, music/arts, junior; “Waiting Will Get Easier With Time”; **Colleen Reynolds**, arts administration, sophomore; “Bus Stop”; **MacKenzie Gross**, English; sophomore; “Cigarette Burns”; **Jessica LeTarte**, freshman, "The Classics”

Music and sound art selections by students from **Steven Pane**’s electroacoustic music course.

7:00-8:00 pm Alumni Theatre

Pizzazz

Director: **Ian Griffith**, interdisciplinary theatre/arts, senior
G.P. Conroy **Tim Berry**, secondary education/English, junior
Marion **Natalie Bean**, secondary education/English, senior
Olivia **Samantha Baker**, interdisciplinary theater /arts, senior
Rooney **Matthew Caston**, interdisciplinary sociology/anthropology, sophomore
Mrs. Hand **Jessica Longstreet**, elementary education, senior

Pizzazz is a one-act play by Hugh Leonard in which the characters participate in a role-playing game, re-enacting a marriage on the rocks.

Sole Expression

Colleen Reynolds, arts administration, sophomore; **Brittany Dyer**, elementary education, junior; **Esther Mclain**, pre-law geology/chemistry, senior; **Johanna C. Tomaszewski**, psychology/women studies, junior; **Stephen Avery**, elementary education, senior; **Ryan Pickering**, psychology, senior; **Amy Gagne**, elementary education, senior; **Liz Steinmetz**, rehabilitation services, sophomore; **Eric Buckhalter**, psychology, freshman; **Luke Ellis**, secondary education/mathematics, freshman; **Gina Bergeron**, elementary education, senior; **Kathleen Kelley**, secondary education, freshman; **Sean McCarthy**, secondary education, freshman

Sole Expression is an a cappella ensemble that sings arrangements of contemporary music. They will announce their selections.

Merrill Hall Basement

The Art Renegades’ Exhibition

Mattie Bowden, creative writing, senior
Laura Grover, education/English, senior
Jessica Stuart, sociology/anthropology, senior

Members of **The Art Renegades** will have works exhibited throughout the basement of Merrill Hall. There are two mixed media drawings, *Untitled* by Mattie Bowden and *Untitled* by Laura Grover and a video installation with mixed media, *Trailer Trash* by Jessica Stuart.

Michael D. Wilson Symposium Day

Arts Night 2007

Merrill 26 (Behind Nordica)

Emotive

Kristen Bisson, liberal arts undeclared, freshman; **Danielle Cerone**, liberal studies bridge, freshman; **Caroleann Cookinham**, rehabilitation services, freshman; **Autumn Doiron**, art, junior; **Anthony Greenlaw**, geography, freshman; **Rachel Hardwick**, biology, senior; **Sean Parks**, secondary biology, senior; **Sky Purdy**, environmental science, sophomore; **Giselle Scherle**, philosophy/religion, junior; **Andrew Thompson**, music/arts, sophomore; **Alexandria Wiencek**, early childhood special education, sophomore; **Monica Williams**, elementary education, sophomore

An exhibition of works by students in Drawing I with **Katrazyna Randall**.

8:00-9:30 pm Nordica Auditorium

String Quartet

Joshua Case, music, junior:

1st violin Elaine Loekle:

2nd violin Jay Smith

Viola Evan Fellman

Cello **Eleesa Marnagh**, biology, senior

A brief talk by the composer will precede the performance.

Bach Goldberg Variations

Piano: **Steven Pane**, Professor of Music, Digital Turntable: **Tristan Smyth**, mathematics, senior;

Christopher Clark, creative writing, senior; **Members of the UMF Dancers**

The ensemble will present a collaborative interpretation of J.S. Bach's *Goldberg Variations*.

Music of Radiohead for Four Digital Pianos

Ben Hills, interdisciplinary music, sophomore

Alix Raymond, psychology, senior

Tom O'Donnell, Manager of network and server systems, Computer Center

Dr. Y. Lily Funahashi, Lecturer of music

The quartet will perform three selections by Radiohead: *No Surprises*, *Karma Police* and $2+2=5$ as arranged for four digital pianos by Y. Lily Funahashi

The Pond Duck Quintet

Vocals/guitar **Sheridan Ellis**, history, junior

Vocals/bass **Nathaniel Burns**, philosophy, religion/music, junior

Vocals/piano **Andrew Thompson**, arts administration/music, sophomore

Vocal/guitar Justin Labbe

Drums Graham Duval

The band will perform some original music and selections from the Beatles' album *Abbey Road*. Works will be announced.

Special Session

UMF's Green Buildings

Education Center Lobby

April 11, 9:00 am - 3:00 pm

The UMF Education Center, which opened in January 2007, was the first public building in the state designed for certification for its low environmental impact ("green"). The work presented here is a collaborative effort of Sustainable Campus Coalition students, Professors Drew Barton and Grace Eason, students in their science courses, and Facilities Management Director, Bob Lawrence. We will present the following set of posters, videos, a powerpoint presentation, and tours of the Education Center to describe the operation and importance of key green features of the building.

Posters on Green Features of the Education Center.

Josh Case, Charlie Creagh, Deanna Davis, Melissa Eastman, Michaela Hitchcock, Dana Holmes, Andrew Merrill, Brian Schmedding, Robert Sherman, Chelsea Steele, Lauren Vensel, Molly Vespa.

Four posters will describe the nature and operation of key green features of the Education Center, as follows: (1) the infrastructure and geothermal heating and cooling system, (2) recycling and recycled materials, (3) wall, floor, and ceiling coverings, and (4) LEED certification, the independent process by which the building will be officially certified as green.

Student Videos on the Education Center and Frances Black Residence Hall.

Thomas Burnham, Erin Buthlay, Wil Davis, Sarah Guethle, Josh Harris, Kaitlyn Leech, Karissa Osthimer.

Two videos on the Education Center and one on the Frances Allen Black Residence Hall will provide a unique overview of green features of these buildings and will describe what it's like for those that live in and use the buildings.

Powerpoint Overview of Green Features of the Education Center.

Allison Giguere and Dale Menard.

This repeating presentation will provide an overview of the nature and operation of key green features of the Education Center, including the geothermal heating and cooling system, lighting and electricity systems, wall, floor, and ceiling coverings, recycling of construction wastes and use of recycled materials, and the furnishings.

Tours of Green Features of the Education Center.

Charlie Creagh, Lianne Fisk, Chelsea Grant, Michaela Hitchcock, Krissandra Horn, Caitlyn Laflin, Emily Stiles, Rachel Thompson, Molly Vespa.

Take an inside look at the features that make the Education Center a special place with low impacts on the environment! These short tours will feature the geothermal heating and cooling system, lighting and electricity systems, wall, floor, and ceiling coverings, recycling of construction wastes and use of recycled materials, and furnishings.

Special Session

Inaugural Wilson Scholars

C 23 Roberts Learning Center; 9:00 - 12:00

Moderator: Allen Berger

9:00 - 9:20

Poetry across Borders.

Danielle LeBlanc

With the assistance of the Michael D. Wilson Scholars Program, I was fortunate to travel across the border and into México City, touring through Guerrero, Ixtapa, Troncones, Querétaro, San Miguel Allende, Dolores, and Guanajuato while documenting my travels and my experiences as foreigner and a poet. My presentation will feature a PowerPoint slideshow of photos, excerpts from the writing I accomplished while in México and a glimpse into my research of the Mexican-American poetic scene including contemporary Chicano poetry movements and current poetic activism. *(Faculty sponsor: Jeffrey J Thomson)*

9:20 - 9:40

Dostoevsky and Masochism

Nate Rawson

I will present the results of my research into the major novels of Fyodor Dostoevsky and the role which masochism plays in them. In short, I found that sexual masochism seemed to be a primary motivating factor for many of his characters. Repression of this sexual energy leads the characters down sinful or saintly paths, but in Dostoevsky's philosophy one must be a masochist to love life and be a sinner first in order to be a saint. *(Faculty sponsor: Paul H Outka)*

9:40 - 10:00

The Communicative Process of Art: How Meaning is Produced and Consumed

Jessica Stuart

The presentation is a synthesis of my work as an artist exploring the realm of sociology, and as a sociologist exploring the realm of art. Half of the presentation will be a showing and talk on a body of work I have created, which explores sociological theory in visual form. The second half of the presentation is on my senior thesis work, which is a sociological study that employs interviewing, observation, and questionnaires to explore how art is conceptualized by the artist, manifested in a visual form, and ultimately consumed by the viewer. This study is an attempt at understanding communication from artists to viewers through visual language. *(Faculty sponsor: Kristina B Wolff)*

10:00 - 10:20

Health Issues in Uganda

Elizabeth Connelly

During winter break I spent two weeks in Uganda, Africa volunteering for Soft Power Health Clinic, an organization specializing in the prevention and treatment of Malaria. I will share my experience, discuss the current health issues facing the people of Uganda, and how health care is crucial to the improvement of Africa as a whole. I will also explore how improving health care in Africa is of personal interest to all members of the global community. *(Faculty sponsor: Mellisa A Clawson)*

10:20 - 10:40

Break – refreshments available

10:40 - 11:00

An introduction to Rhys Chatham: The intersection between classical and rock in the second wave of the New York downtown music scene

Meghan L. Dzyak

In the mid 1970s a new convergence of styles was heard throughout the New York downtown music scene; Rhys Chatham, a classically trained composer was at the center of this alchemy. His works mark an important crossover in late 20th century music with an amalgamation of No Wave/Punk, and minimalism that later influenced these genres. Previous scholarship (Gann, 1998) divides the New York Downtown Music Scene into sub-genres: conceptualism/fluxus, minimalism, performance art, art rock, free improvisation, post-minimalism, and totalism mostly ideas of the traditional classical idiom. The inclusion of the new/no wave and punk rock into the Downtown discourse has been overlooked. In this paper I argue that Rhys Chatham sparked a drastic change, which influenced the avant-garde and art rock of the 1980s and 90s. Analyzing his two major non-notated works, Guitar Trio and Drastic Classicism, I look at the combination of popular rock styles with classical technique to create a new avant-garde. Examples from recent musicians and bands will be used to show how important Chatham's music is to the present. *(Faculty sponsor: Steven Pane)*

11:00 - 11:40

Complex Dynamics: Fractal Generation

Dustin Gage

Fractal images are intriguing for general audiences for the complexity and beauty of their structure. Their ubiquity on the Internet as both images and fractal-generating applets led me to believe that I could 1.) produce an applet of my own and 2.) make it useful to the mathematical community. Last Fall, under the mentorship of Dr. Daniel Jackson, I succeeded in producing a web-based Java Applet for a user-friendly fractal generator, and then we used it as a mathematical tool to aid our research in complex dynamics. Presently the applet has gained enough functionality to be extended to the use by others as a tool for studying a few dynamical families which are of interest to other researchers. This talk will walk you through how to use the applet along with a discussion of Mandelbrot and Julia Sets. Lastly, I will explain how it can be a viable tool for researchers in the field. *(Faculty sponsor: Daniel Jackson)*

11:40 - 12:00

What do rehab grads do? A student's perspective on the national scope of practice study.

Sean M. Siebert

The Undergraduate Council of the National Council on Rehabilitation Education has specified key outcomes needed for accreditation and credentialing of undergraduate programs. A national scope of practice study has been started to inform this process. Educators from University of Maine at Farmington, The Undergraduate Council of the National Council on Rehabilitation Education has specified key outcomes needed for accreditation and credentialing of undergraduate programs. A national scope of practice study has been started to inform this process. Educators from University of Maine At Farmington, University of North Texas, and Penn State are collaborating to construct a survey instrument that will be implemented nationally, and help to assess what undergraduate rehabilitation alumni do in their current jobs. A student from the Rehabilitation Services Program at the University of Maine at Farmington will share what he has learned from his involvement in the research process. The focus of the presentation will be on the actual amount of time research takes versus expected time, the process of recruiting participants, formative evaluation, the value of presenting preliminary data at a national conference, and preliminary results of the study. *(Faculty sponsor: Karen E Barrett)*

Main Program

Any changes to the program will be posted by the Student Center Mailroom
and in the Education Center lobby on April 11th

Venue 1

Art

Art Gallery

9:00 - 10:30

Graduating Artists' Gallery Talks at the UMF Art Gallery

Jennifer Amadon, Deborah Arsenault, Betsy Bell, Katrina Blanchard, Chancell Luce, Brandon Morgan, Stuart Purinton

Graduating art majors here introduce and discuss their work a variety of mediums and perspectives. Jennifer Amadon paints large, intense, cinematography-inspired self portraits, Deborah Arsenault examines a chaotic domestic environment through her photography, Betsy Bell paints minutely detailed images of commonplace things that reveal the beauty of mathematics in natural form, Katrina Blanchard comments on the serious issue of obesity in young Mainers through video and sculpture, Chancell Luce addresses crass U.S. consumerism in her large sculptures made of wood and found objects, Brandon Morgan presents a video collage composed of the warring facets of his own personality, and Stuart Purinton creates an engrossing, surreal dreamscape in his video presentation. *(Faculty sponsor: Sarah R Maline)*

Venue 2

Photography

Student Center

All day

Photographs of England and Spain

Daryl Boire, Kristy Bunce, Katharine Eaton, Scott Hastings, Allie Hopkins, Nicole Jurdak, Anne Lasher, Lindsay Marston, Lacey McCormick, Kiley Perry, Cassandra Quintal, Tiffany Santy, Abby Wood

During the 2006 May term, our digital photography class went on a two week field trip to England and Spain. In England, we visited Stonehenge, Stratford-upon-Avon, Warwick Castle, Salisbury, Oxford, Bath, and London. Then we flew to Barcelona and stayed in a fishing village on the Mediterranean where we photographed the Fishermen's Festival and English school children engaged in water sports. We also took day trips to Gerona and Montserrat. We hope that you will enjoy our photographs which are on display in the UMF Student Center. *(Faculty sponsor: Ralph H Granger)*

Venue 3

Science

Lincoln Auditorium

Moderators: Mary Schwanke and Clyde Mitchell

9:00 - 9:20

Introduction to the 'Science Day' Session

Drew Barton

9:20 – 9:40

Analysis of Red Pine (*Pinus resinosa*) and Jack Pine (*Pinus banksiana*) Pollen

Katelyn Michaud

Because of the difficulty of separating red pine (*Pinus resinosa*) and jack pine (*Pinus banksiana*) in the pollen record, little is known about their paleoecological history and distribution. These species co-occur in Maine, along with white pine (*Pinus strobus*) and pitch pine (*Pinus rigida*). White pine pollen is distinguished mainly by the sculpturing of the furrow membrane, whereas pitch pine pollen is distinctive for its large grain size. We initially analyzed 50-100 pollen cells from three stands of the four Maine pine pollens by applying the six qualitative and three quantitative characters. In the summer 2006 we collected additional samples of red pine and jack pine pollen from six separate Maine stands for each species to be analyzed using the same six qualitative and three quantitative characters as in the preliminary study. Classification and regression-tree analysis allowed statistically robust separation of the four species. We developed preliminary binary classification trees for each species that give the probability of focal species identification in a given end node. This method should be helpful in distinguishing fossil pollen grains of these species in paleoecological studies. The presentation will introduce the first runs of the data collected from the final collection phase of the project. (*Faculty sponsor: Andrew M Barton*)

9:40 - 10:00

Experiential Learning on a Tropical Island: From Corals, Turtles and Triggerfish, to Cacti, Termites and Tree Frogs.

Nancy Prentiss and members from the 2006 Tropical Island Biology class.

Presenters will give a slide show that features the highlights of the May 2006 Tropical Island Biology travel course to St. John in the U.S. Virgin Islands. The natural world offered a 24-hour biology lab and snorkeling paradise for 13 UMF students who lived for ten days at a remote field station within the Virgin Islands National Park. Hiking excursions included visits to prehistoric Taino Indian sites and to sugar plantation ruins. Students also experienced current environmental problems associated with the island and surrounding coral reefs. (*Faculty sponsor: Nancy K Prentiss*)

10:00 - 10:20

Possible Causes and Correlation for Trauma Signs in Veal Hearts

David Kell, Kristin Beale and Richard Robinson

Dissections of veal heart, at UMF and in other studies have shown many signs of trauma on internal heart surfaces (redness, swelling and clots) and in the bicuspid and tricuspid valves (redness, swelling and blisters). Literature suggests mechanical or pathological causes. Causes that are mechanical in nature are due to normal maturation processes while pathological causes could be due to one or many agents potentiated by adverse environmental conditions including temperature, surroundings, maternal contact, food intake and low antibody levels in the newborn calf. Our initial results showed a higher percentage of these signs when compared to one other study, and that it was due to a lack of sufficient colostral antibody transfer to the newborn calf, though our most recent control group study has pointed to a sampling error. Additional dissections and tests for IgG (the major antibody found in colostrum) have been designed to show if these results for IgG levels in veal serum were valid. Statistical analyses of the data collected from past dissections performed at UMF, comparing different trauma signs to each other, heart weight, the opposing side of the heart, and results found in the literature are also performed to find possible correlations or patterns. *(Faculty sponsor: Richard W Robinson)*

10:20 - 10:40

Break – refreshments available

10:40 - 11:00

The relative contributions of male and female Bushtits (*Psaltriparus minimus*) to nest-building in the Chiricahua mountains of southeastern Arizona

Sarah Sloane and Carlyle Smart

In Bushtits (*Psaltriparus minimus*), a cooperatively breeding bird, both male and female members of a breeding pair engage in all aspects of parental behaviors: nest-building, incubation, and feeding of nestlings and fledglings, whether or not helpers are present. Since females bear the cost of egg-production, males may be expected to compensate by engaging more actively in these other energetically costly nesting activities. In previous studies Sloane found that females spend more time incubating than males. In this study we examined the possibility that the male would expend more energy in nest-building than the female, allowing her to place energy into egg production. Very preliminary results suggest that males gather more material and therefore visit the nest more often than females. Females visit less often, but spend more time at the nest per visit, shaping and manipulating materials. These results may support the hypothesis that males expend more energy than females in nest-building since gathering materials involves long flights and active searches. The collection of further data (ongoing) will shed more light on this possibility *(Faculty sponsor: Sarah Sloane)*

11:00 - 11:20

Antibiotic Resistance Studies of the Bacterium *E. coli*

Abby West, Jamie Young, Kristin Beale

The purpose of this project was to ascertain the changes that occurred in the DNA sequence of the *E. coli* gene *gyraseA* and *gyraseB* as a result of exposure to antibiotics over subsequent generations. The project focused on the changes in the DNA sequence of the bacterium over subsequent generations of Ciprofloxacin and Cotrimoxazole antibiotic exposure. Observable changes in the DNA sequence lead to the discovery of a resistance mechanism. The results of this experiment could be applied to research involving inhibition of resistance once the mechanism is understood. Further applications may include blocking resistant genes or turning off a mutation. *(Faculty sponsor: Jean A Doty)*

11:20 - 11:30

Harvey Aft Excellence in Chemistry Award

Chemistry Faculty

Each year the chemistry faculty recognizes a student who has excelled in upper-level chemistry courses, has outstanding general scholarship, has demonstrated interest in chemistry, and projects a good attitude toward the field. Please join us when we announce the winner and present the award.

11:30 - 11:50

Quorum Sensing Found in *Vibrio fischeri* and *Escherichia coli*

Sean Parks, Cherieann Harrison, Eben Baker

In this project we explored the relationship between bacterial population density and bio-luminescent output of *Vibrio fischeri*. It has been shown that quorum sensing is used in photobacterial colonies (Miller and Bassler 2001). We constructed a model showcasing this correlation. This was done by periodically quantifying colony growth and luminescence. These two species were studied by culturing the bacteria in both photobacterium agar and broth. Additionally, airborne quorum sensing was explored using antibiotic resistance and *Escherichia coli* colonies cultured in close proximity. (*Faculty sponsor: Jean A Doty*)

11:50- 12:00

'Science Day' Discussion

Mary Schwanke

1:00 - 1:20

Your Dog Ate What?!

Elizabeth Hebert, Kimberly Trimpop

This project was designed to test the difference between human and domestic household pets mouths in terms of oral bacteria presence and abundance. Oral cultures from a variety of subjects were collected and cultured on a general agar medium to ensure maximum growth. After a sufficient growth period, a colony count of all bacteria was preformed using computer analysis and gram staining techniques. Families of any bacteria present were identified, and the richness and abundance of the bacteria were assessed. These conclusions determined who is more cleanly, us or them? (*Faculty sponsor: Jean A Doty*)

1:20 - 1:40

In Search of ca-MRSA at the University of Maine at Farmington's Fitness and Recreation Center

Kate Dumont, Emily Jones

Methicillin Resistant *Staphylococcus aureus* (MRSA) is an ever-growing threat in the community. If community awareness is not heightened about this particular strain of *S. aureus* it can be life threatening. This project was designed to test a local fitness center for MRSA. This particular strain of *staphylococcus* is a growing concern in the fitness world because it is capable of inhabiting many different niches. This experiment may lay to rest some local fitness enthusiast's apprehensions. (*Faculty sponsor: Jean A Doty*)

1:40 - 2:00

I Didn't Ask for E. coli as My Salad Dressing: An Investigation Into Leafy Greens

Holly L. Tripp and Rebecca F. Hall

The goal of this project was to determine if *Escherichia coli* was present on fresh leafy produce found at local food markets in Farmington, Maine. This was achieved by isolating *E. coli* from both spinach and romaine lettuce samples purchased from local merchants. We hope that this research will increase food safety awareness and promote safe food handling practices. (*Faculty sponsor: Jean A Doty*)

2:00 - 2:20

Putting the Lid on Bacteria: an investigation on the effects of toilet seat covers on bacterial dispersion

Kristin Chambers and Nina Griffin

Water droplets serve as a key mechanism for microbial transport. Toilets are reservoirs for microbes and flushing can release them via aerosol dispersal throughout the bathroom. Closing a toilet seat cover can reduce the dispersal of bacteria and prevent infectious diseases that they may cause. In our study, we put *E. coli* into a toilet and flushed with and without a seat cover down to determine the extent of reduction of microbe dispersal. Our hypothesis was that having a toilet seat cover down would significantly reduce, but not eliminate, the concentrations and distances traveled by bacteria from a single toilet flush. (*Faculty sponsor: Jean A Doty*)

2:20 - 2:40

Break – refreshments available

2:40 - 3:00

Is Stream Chemistry Influenced by Underlying Bedrock?

Ryan Jennison

The influence of underlying geology on water chemistry was investigated in three brooks in Farmington, ME. Major cations, anions, pH, acid neutralizing capacity, temperature, and stream discharge were measured for comparisons between bedrock types, sample locations, and sampling dates. Cascade Brook, which is underlain by limestone, was expected to contain a high concentration of calcium (Ca^{2+}) to sulfate (SO_4^{2-}), along with a relatively high pH. Beaver Brook, which is underlain by sulfide shale, was expected to contain a low concentration of Ca^{2+} to SO_4^{2-} , along with a relatively low pH. An unnamed brook that drains Clifford Woods, which is underlain by sandstone, was not expected to be influenced as the other two brooks were. Beaver Brook had the highest concentrations of Ca^{2+} , opposing the hypothesized results. There were no significant differences in SO_4^{2-} or pH associated with the three geology types. (*Faculty sponsor: Sarah W Hardy*)

3:00 - 3:20

Antipredatory responses of Black-capped Chickadees (*Parus atricapillus*) in the presence of a predator

Carlyle Smart

Small birds foraging behaviors may be affected by the presence of avian predators because of the increased risk of mortality. Black-capped Chickadees (*Parus atricapillus*) may exhibit three different responses to the presence of a predator: predator inspection, predator avoidance or mobbing. To study chickadee s responses to predators, five feeders were observed in Farmington, ME from January 16, 2007 to March 9, 2007. A plastic model owl was placed at one of three different distances from the feeder: 0.91 meters, 1.84 meters, and 3.04 meters and the responses of the birds were observed. The presence of the model significantly inhibited the foraging of the chickadees when it was placed near the feeder but its affect decreased as the distance between the model and the feeder increased. Chickadees also, approached the feeder significantly more often from the side opposite the model. In conclusion, in this study chickadees used primarily predator avoidance when confronted with a model predator. (*Faculty sponsor: Sarah A Sloane*)

Venue 4

Business Economics 1

Education Center Room114

Moderator: Thomas A. Maroney and John Messier

9:00 - 9:20

The Benefits of Outsourcing

Jonathan Fox, Louis Fox

The Benefits of Outsourcing will be a 20 minute powerpoint presentation describing the positive side of offshoring jobs overseas. Jonathan Fox is a student in Tom Maroney's Management class and will create a powerpoint on outsourcing using actual case studies from his father Louis Fox who will be present. Louis has been involved with Verizon, Merrill Inc., and Office Tiger's offshoring operations and now runs his own consulting firm called Global Resource Management. The presentation will be backed by real examples from Louis Fox's experiences overseas. *(Faculty sponsor: Thomas A Maroney)*

9:20 - 9:40

Glass Ceiling Myth or Fact

Brenda Espinoza

This Presentation will analyze the scarcity of women in top management positions. This has been referred to as women 'hitting the glass ceiling'. Where did this phrase originate and is it an accurate reflection of women in management? *(Faculty sponsor: Thomas A Maroney)*

9:40 - 10:00

Quicksilver A Growing Company

Andy Ricker, Dan Rihm

Quicksilver Inc. started in 1970 in Australia. They started as a surf company that made wetsuits and have grown into a multinational conglomerate. It is one of the largest sporting goods and outdoor companies worldwide. This presentation will analyze the strategic development of Quicksilver Inc. from a 70's cult surf company into a diversified multicultural corporation. They own such brands as Dynastar skis, Rossignol Skis, DC shoes, Mervin Manufacturing Company (Snowboards), and Cleveland golf. They also have very large soft goods and apparel. How did a niche surf company come to own Rossignol skis, a legacy alpine and Nordic ski company? *(Faculty sponsor: Thomas A Maroney)*

10:00 - 10:20

Management and Marketing of Entrepreneurial Ventures

Christian Dietzel

I run a small pedal cab business in Old Orchard Beach during the peak tourist season. This presentation will outline the entrepreneurial startup steps that led to Beach Bike Cab, with an emphasis on the history of management, marketing, and financing of a micro-start up business. *(Faculty sponsor: Thomas A Maroney)*

10:20 - 10:40

Break – refreshments available

10:40 - 11:00

The Rising Economies of India and China: Compete or Cooperate

Paul Williamson

The US GDP (\$12.49 trillion est. 2005) is the largest economy in the world. Don't look behind you; they may be gaining on you, Ratchel Paige once remarked. The US must look over its shoulder at the rising economies of the Indian Subcontinent and the People's Republic of China. India and China combined account for 45% of the world's population (the US 5%). This presentation examines the accelerated economic growth of these two economies and inquires whether the US should compete or cooperate. *(Faculty sponsor: Thomas A Maroney)*

11:00 - 11:20

Why do good people do bad things to get ahead?

Brian London

The primary focus of this presentation is to provide a summary and analysis of David Callahan's, *The Cheating Culture*. His premise is an ethical line of questioning regarding the motivation of Americans obsessive mania to win at any ethical cost. A wide range of issues will be discussed including: academic integrity, performance enhancers in sports, and insider trading in business. The synthesis of this information and presenter commentary will provide insight into this ethical concern. *(Faculty sponsor: Thomas A Maroney)*

11:20 - 11:40

Corporate Ethics in Developing Countries

Marcus Aman

Looking specifically at John Perkins "Confessions of an Economic Hitman", the presentation will show how and why ethical and moral infractions occur behind the closed doors of the corporate boardrooms. Building infrastructure within developing countries requires outside contractors from well established countries to bring in resources enabling construction. Due to corruption, many of these countries are financially exploited; causing more harm than benefit to their economy. *(Faculty sponsor: Thomas A Maroney)*

11:40 - 12:00

Justice Roger B. Taney

Meghan Heath

Roger B. Taney was Chief Justice of the U.S. Supreme Court during turbulent times (1836-1864). This presentation will provide an overview of his major opinions and focus on the contentious Dred Scott decision of 1857. *(Faculty sponsor: Thomas A Maroney)*

1:00 - 1:20

Sino-Civil Law v. Anglo-American Common Law

Samuel Valentine

This presentation will offer a cross cultural analysis of the legal systems of the Peoples' Republic of China and the United States. China's civil system will be compared and contrasted with the United States' Anglo-American common law jurisprudence. *(Faculty sponsor: Thomas A Maroney)*

1:20 - 1:40

The National Labor Relations Act

Thomas Labrie

The National Labor Relations Act of 1935, also known as the Wagner Act named after Robert Taft of New York, had the effect of legalizing unions and collective bargaining. This presentation will present a brief history of the labor movement in the United States prior to 1935 and identify and elaborate upon more significant sections of the National Labor Relations Act. It will also comment upon the concurrent jurisdiction of federal and state regulation of labor management activities. *(Faculty sponsor: Thomas A Maroney)*

1:40 - 2:00

Corporate Social Responsibility as Argued by Milton Friedman

Nick Juliano

The late Milton Friedman, Nobel Laureate (1976), stated the conventional approach to corporate social responsibility in his New York Times management article "The Social Responsibility of Business is to Increase its Profits." The article is an interesting analysis but only one of many. This presentation will analyze Friedman's major arguments and comment upon its alternatives. *(Faculty sponsor: Thomas A Maroney)*

2:00 - 2:20

Company Profile: Irving Oil Corp.

Sarah Levensalor

Irving Oil is a major diversified multinational corporation based in St. John New Brunswick. This presentation will present the history and development of this company into a billion dollar privately-held company. It will examine its strategy for projected sustained growth. *(Faculty sponsor: Thomas A Maroney)*

2:20 - 2:40

Break – refreshments available

2:40 - 3:00

Company Profile: Irving Oil Corp.

Jen Morton, Vincent Rubino

Irving Oil is a major diversified multinational corporation based in St. John New Brunswick. This presentation will present the history and development of this company into a billion dollar privately-held company. It will examine its strategy for projected sustained growth. *(Faculty sponsor: Thomas A Maroney)*

3:00 - 3:20

Legalizing Marijuana

Cassandra Quintal

This presentation will examine the controversial issue of legalizing Marijuana; It will address current Federal and Maine state laws pertaining to Marijuana possession and medical usage. The rationale behind the laws will be clarified through the history of the drug and the physiology and psychological effects of THC. *(Faculty sponsor: Thomas A Maroney)*

3:20 - 3:40

Old Navy - The Brand

Justin Chambers, Patrick Connors, Bronson Frizzell, Kevin Salonen

This presentation is part of BUS 491: Strategic Management, the capstone business/economic course. Our analysis of The Gap Inc. will focus on their strategic business unit, the Old Navy brand. This will include a brief history, their mission, target market, direct and indirect competitors, and a SWOT analysis. A strategic analysis of Old Navy will be conducted, focusing on their financial statements and their current developments, including an extensive literature review of magazines and business journals. *(Faculty sponsor: Thomas A Maroney)*

3:40 - 4:00

The Role Banana Republic Plays in the Overall Market Segmentation and Product Differentiation Strategies Employed by GAP Inc.

Michael Hamel, Adrian Sulea, William Robertson, Alex Heath, Ian Lewis

Our presentation will focus on the strategic analysis of the Banana Republic. The presenters are part of Business 491: Strategic management, the capstone course in the business economics program. The Banana Republic message conveys a sense of affordable luxury. As part of the GAP, INC., Banana Republic has differentiated itself by bringing quality clothes at a reasonable price. In the past couple years Banana Republic has become a cash cow to its corporate parent one. While the Gap has been experiencing the valley and peaks of the business cycle, Banana Republic has been growing at a constant rate in financial returns as well as in its market reach. Consistency in growth can be attributed to a strategy of global expansion, making the Banana Republic brand recognized world wide. We will analyze and describe the major aspects of Banana Republic's ways of doing business and its strategic growth strategy. *(Faculty sponsor: Thomas A Maroney)*

4:00 - 4:20

Gap Inc. - The Parent Corporation

Arlen Flinseth, Adam Gariety, Cassandra Quintal and Andy Ricker

This presentation is a part of Business 491: Strategic Management, business economics' capstone course. It focuses on the history and financial aspects of Gap Inc., which was founded in 1969 in San Francisco, California. It has become America's largest apparel retailer. It includes such familiar brands as the GAP, GAP Kids, Old Navy, Banana Republic, Forth and Towne, Baby GAP and the online Piperlime. This presentation focuses upon an analysis of the Gap's market segmentation and their current operating circumstances. *(Faculty sponsor: Thomas A Maroney)*

4:20 - 4:40

The Gap - The Brand

Jasper Brown, Melissa Johnston, Gerrit Vander Kaaden, Nate Varney

This presentation focuses on a strategic analysis of the GAP Inc. The Presenters are part of Business 491: Strategic Management, a capstone business course. This presentation focuses primarily on the flagship store GAP Inc, its history, leadership controversies, trials and tribulations as well as current market share. The purpose of this presentation is to present a better understanding of The Gap's origins, its growth, and current concerns. Recent

issues include resignation of the chief executive officer, loss of market share, and a failure to meet current fashion demands; all of which are indicative of a company in trouble. *(Faculty sponsor: Thomas A Maroney)*

Venue 5

Business Economics 2/ Health

Education Center Room 113

Moderators: Frank Engert and Jennifer Pageot

9:00 - 11:40

How to Change the World

BUS 362 - Social Entrepreneurship - class

Social entrepreneurship deals with the innovative application of business skills to accomplish a social purpose. Students in BUS 362 are assisting a local nonprofit in its plans to develop a business to import and market baskets and other items produced by Zambian women. The proceeds will support a women's center and an orphanage in rural Zambia. After a brief presentation on the Zambian women, their products and their environment, students will present their marketing plans, supply chain analyses and discuss pertinent legal issues. *(Faculty sponsor: Frank M Engert)*

1:00 - 1:20

Fit for the Future

Robin Chace, Devin Gill, Travis Monmaney

Fit for the Future is a service learning project in HEA 411 Health Education Planning. The largest threat for our immediate future is the alarming obesity rate among American children today. The goal of this health education program was to encourage exercise and fitness of kids, ages 4-12, participating in the after-school program at the University of Maine at Farmington's Fitness and Recreation Center. Community Health students were required to apply a theoretical framework for program planning, the Precede Proceed Model. *(Faculty sponsor: Graciela L Bryant)*

1:20 - 1:40

Go Girls! Health Education Project

Nicole Grass and Taryn Trefethen

Go Girls! is a service learning project for HEA 411 Health Education Planning, planned and implemented by Nicole Grass and Taryn Trefethen. The goal of this project was to encourage self-esteem and positive self-image in 6th grade girls at Cascade Brook Elementary School through health education at a day-long empowerment camp at Camp Susan Curtis. The curriculum will be addressing issues surrounding self-esteem and body image. Topics will

include the role the media plays in developing body image, eating and exercising for health instead of weight loss and preventing eating disorders. This project was planned by applying the Precede-Proceed planning model. (*Faculty sponsor: Graciela L Bryant*)

1:40 - 2:00

SAFE (Safety Awareness Family Education)

Elle D. Knight & Katriel M. Ramú

SAFE is a service learning project in our Health Education Planning class (HEA 411). The project is being planned and implemented by Katriel Ramú and Elle Knight. One goal is to empower kindergarten students at Phillips Elementary School in Phillips, ME to identify and respond to potentially dangerous situations, specifically stranger safety and getting lost, through health education. Health information is also being provided to families and the community at large. The project applies a planning model known as Precede-Proceed through implementation within the community setting. (*Faculty sponsor: Graciela L Bryant*)

Venue 6

Miscellaneous

North Dining Hall B

Moderators: Jonathan Cohen and Sylvia Charon

9:00 - 10:00

I've learned more in this course than any course I've taken while at UMF

Chelsea Goulart, Alyce Cavanaugh, Alex Pringle, Barbara St. Peter(s), Chantalle Bard, Kristy Bunce, Shane Gallagher, Katie O Neil, Sarah Tucker, Shawna Newton, Jasmine Brooks, Allison Giguere, Kelsey Ketchum

Students will share their experiences in courses which had Service Learning or Civic Engagement components during this past academic year. They will speak to the title of the program which is: I've learned more in this course than any course I've taken while at UMF The academic subjects represented are: Health, Women's Studies, Political Science, Early Childhood Education, Mathematics, Psychology, Ski Industries, Dance and Environmental Science. There will be a 20 minute question and answer period at the end of the presentations. (*Faculty sponsor: Mary L Schwanke*)

10:00 - 10:20

Teaching Foreign Language to Students with Special Needs

Deborah Scamman

This study stresses the need for and advantages of foreign language programs for students with special needs. Foreign languages in America have traditionally been reserved for college-bound students. With the No Child left Behind (NCLB) act, all students are now required to study a foreign language. However, students in the special education program attending mainstream French classes in the local middle school are not learning appropriately. This research aims to determine how to serve this population better. We will discuss the problems these students face and how to better facilitate their learning. How does a student who has trouble focusing or controlling his or her behavior learn to speak a foreign language? This study started in February and will end in June. It takes place in

Mount Blue Middle School with seven students in classes of two and three every third day alternating with the regular French class. We will discuss methodologies used, successes and difficulties. *(Faculty sponsor: Sylvie Charron)*

10:20 - 10:40

Break – refreshments available

10:40 - 11:00

Culture in the Classroom

Chelsea Goulart

Culture in the Classroom is a series of books for children based on the essential idea of cultural exchange; the series will be based on a young girl's adventures in other cultures and will focus on the national standards to which elementary (kindergarten-fourth grade) literature is held. Aligned to the national elementary curriculum, the series will provide insight into food, language, clothing, holidays, and religious views of multiple cultures including, but not limited to: European, Latino, African, and Middle Eastern. Through the Wilson Scholarship Program, I plan to travel to a variety of countries and visit their elementary classrooms to immerse myself in the young minds of another attitude. I began this process in Mexico and Belize and will be presenting a draft of the first book in the series which will include illustrations. *(Faculty sponsor: Jeffrey J Thomson)*

11:00 - 11:20

Bernard Gert: Between Immanuel Kant and John Stuart Mill

Michael Hughes

In modern history, Immanuel Kant and John Stuart Mill have dominated the debate over the nature and demands of morality. On one side of the debate, Kant contends that morality has to do with the reasons that motivate the actions of moral agents. Specifically Kant argues that, in order to be moral, a person's reasons for acting must be universalizable. On the other side of the debate, John Stuart Mill rejects Kant's claim that morality is concerned with a person's reasons for acting the way she does. Instead, Mill asserts that it is the consequences of one's actions and, particularly, the amount of happiness and pleasure generated by one's actions that determine the degree to which one's actions are moral. Later philosophers have identified numerous problems with both accounts of morality, which has led many modern ethicists to attempt to provide an alternative theory. During my symposium, I will discuss how Bernard Gert unites Kant's impartialism and Mill's consequentialism to create one alternative theory that appears to avoid many, though perhaps not all, of the objections raised against Kant and Mill's moral theories. *(Faculty sponsor: Jonathan Cohen)*

11:20 - 11:40

Miss Mary Morrill: UMF Graduate / Chinese Missionary

Adam T. Coffin

Miss Mary S. Morrill was a graduate of the Farmington Normal School, now the University of Maine Farmington. Her portrait used to hang at the university and is now in storage. Miss Morrill became a single missionary to China with the China Inland Mission Board and was killed in the Baoding Massacre by the Boxers in July of 1901. It is my intent to present more information on the life of this heroic alumna and her many contributions to society both on and off campus. *(Faculty sponsor: Sarah R Maline)*

11:40 - 12:00

Wikipedia Improvement Project

Amanda Brown, Chelsea Goulart, Beth Mathieu, Siobhann Patrie, Denise Taylor, Johanna Tomazewski, Stephanie Wright, Christy Clifford

Wikipedia is an online encyclopedia that has become the first (and too often, the last) resource for information about just about anything. It is open to editing by anyone. We found many pages on Wikipedia that deal with feminism and feminist theory, but those pages are in bad shape. They are inaccurate and prejudicial. Individuals' opinions are presented as well-established facts, and authoritative sources are virtually absent. Our project is to improve Wikipedia's presentation of feminism, to make it more accurate, fair, relevant, and representative. In this presentation, we will show our results so far. *(Faculty sponsor: Alice Adams)*

1:00 - 1:20

Life in Guatemala

Katie Pendleton

This presentation is meant to provide some insight into some of what I experienced during my two-week stay in Magdalena, Guatemala. Most the presentation will focus on education because I taught English at La Escuela El Gorrion while there. While education is my main focus, I will also briefly touch on the agricultural and cultural aspects of Guatemala as well. The presentation will be based on pictures that were taken at the school, my Guatemalan family's home, and the surrounding towns. *(Faculty sponsor: Valerie Huebner)*

1:20 - 1:40

Native American Representations in Primary-level Social Studies Textbooks

Lorraine Masterman

Social studies textbooks either misrepresent or compartmentalize Native Americans. While social studies textbooks today may not be as heavily relied upon for direct instruction, most classroom teachers still keep them on hand as a tool of reference. Much of the information about Native Americans in these textbooks is predictable: they were hunter-gatherers and were nomadic; they attacked innocent and hard working settlers; they stood in the way of westward progress and exist only in the past. All examples are used as justification for the unfortunate fate bestowed upon a technologically inferior race. Certainly, other marginalized groups share this unfortunate fate. Slavery is often shown as a temporary lapse in judgment but one that was economically necessary for colonial survival and without present implications. Because history was written by white men, women's history was unapologetically ignored. Economic disparity is too depressing to include. Much can be said about the flaws of American history. However, this presentation will explore only one: Native American Representations in Primary-level Social Studies Textbooks. *(Faculty sponsor: Allison L Hepler)*

1:40 - 2:00

Multiculturalism in the Classroom

Kaylene Dolloff and Paula Pratt

We, Kaylene Dolloff and Paula Pratt, have been able to observe multiculturalism in the classroom, as well as interviewed teachers, education technicians, and multicultural secondary students to gain knowledge on how to integrate multiculturalism and education as one. We have also done a review of literature based on multicultural education. On Symposium day, we would like to give an oral presentation to discuss the importance of multiculturalism in the classroom, multicultural students' views of education, and also the key points of our primary and secondary research discoveries. During the presentation, we will use PowerPoint to display our data. *(Faculty sponsor: Sue A Thorson)*

2:00 - 2:20

Holistic Education

Shawn Fanjoy

I would like to share my research findings the teaching philosophy of holistic education. I obtained my research from various academic articles and text books. I also interviewed high school and college faculty in order to find out how they felt about holistic education. My essay begins with figuring out who I am, who I was and who I want to be. That journey of discovering my self leads me down the path of finding my own teaching philosophy. When I discovered holistic education I wanted to understand it more, so I developed questions to help me further understand the philosophy. All the questions I had were answered through intense research with credible sources. After fully understanding what researchers had to say about holistic education, I then wanted know how teachers in the field felt about the philosophy. At the end of my research presentation I tie all the information together and develop my own philosophy of education. This presentation is my journey of what kind of teacher I am going to be. I would like to share this journey with anyone who would like to hear it during Symposium Day. *(Faculty sponsor: Sue A Thorson)*

2:20 - 2:40

Break – refreshments available

2:40 - 3:00

Understanding Child Development: Case studies of a 3 year old and 4 year old child

Kassi Melton: 3 year old child; Megan Kelly: 4 year old child;

Student created video case studies examine the developmental status of preschoolers across developmental domains. *(Faculty sponsor: Loraine Spenciner)*

3:00 - 3:20

Yoga More than just stretching

Ezra Pryor

Yoga is many things beyond the stretching we have come to know in the West. Join me as I diagram the four types of yoga, and the eight limbs of yoga. *(Faculty sponsor: Dan R Seabold)*

Venue 7

English I

North Dining Hall A

Moderator: Michael Johnson

9:00 - 9:20

African American Literature in the 1930's

Adam T. Coffin

In the 1930's, African American novelists and writers were being forced to contend with a multitude of issues that were left over from the 1920's and the Harlem Renaissance. Race, poverty, and a lack of fair wages, educational opportunities, and basic human rights were some of the topics examined. The works of authors such as Langston Hughes and Zora Neale Hurston will be looked at in depth. *(Faculty sponsor: Michael K Johnson)*

9:20 - 9:40

Literary Theory and Cultural Studies II: Contemporary Literature

Tabitha Clark

The trickster tale is a form of African folklore that traces some of its origins all the way back to Western Africa. The evolution of the trickster tale from its origins in Western Africa to America, up through the present day is a complex relationship between narrator, the trickster character and the reader. Through my paper, *The Trickster Tradition*, I explore these complex relationships through novels such as *Tales of Color* and *the Conjure Line* by Charles Chesnutt, *Jazz* by Toni Morrison and *Mid-night Robber* by Nalo Hopkinson. *(Faculty sponsor: Michael K Johnson)*

9:40 - 10:00

Beauty through Subculture: An Explication of how the Selected Music, History, and Philosophies of Hardcore Punk Apply to Aesthetic Theory

Joe Normandin

This research paper delves into the applicability between various aspects of the hardcore punk subculture and aesthetic theory. Split into three sections, the paper first discusses the origins and selected philosophy behind aesthetic theory through texts written by these philosophers and theorists: Longinus, Immanuel Kant, David Hume, Pierre Bourdieu, Barbara Herrnstein Smith, and Dick Hebdige. The first section concentrates on how judgment, taste, and value allows an individual to come to a valid and justified conclusion on whether or not an object of interest possesses beauty. The second section keeps to this vein by explicating how the selected music and philosophies of Minor Threat and Capitalist Casualties two quintessential hardcore punk bands possess beauty via individual judgment, taste, and value. In this second section, the hardcore punk philosophies of straight edge and D.I.Y. are introduced and explained, as is their evolutionary enlargement to the music and subculture of hardcore punk. The third and final section spotlights 924 Gilman St. the hardcore punk venue/membership club located in Berkeley, California specifically focusing on how the rules and regulations of 924 Gilman St. revolve around, and embody, the selected music and philosophies of hardcore punk, thus creating a true, valid beauty. *(Faculty sponsor: Michael K Johnson)*

10:00 - 10:20

Grimes A- Hoy! A Queer Analysis of Act II, Scene 2 in Benjamin Britten's Peter Grimes

Meghan Dzyak

Grimes Ahoy! is a queer analysis of the climactic second scene of Benjamin Britten's opera Peter Grimes. This paper investigates how Benjamin Britten projects his homosexual, outcast status of 1940's England on his main character Peter Grimes. An overview of queer analysis and musical setting of Grimes character are discussed using a humanist model focusing on Cartesian Dualism and Ulrich's Theory of Inversion. Throughout the opera, Grimes is referenced as an outcast, a title he despises. He wishes only to realize the meaning of love and his fondness for Ellen; however, these desires become unattainable because of his uncontrollable temper and the controversy surrounding the deaths of his two boy apprentices. Tension builds as the villagers chase Grimes to his home, on a

cliff above the town. There, inside his shanty boathouse, Grimes bares all, from his feelings for Ellen to his detest for the villagers. *(Faculty sponsor: Michael K Johnson)*

10:20 - 10:40

Break – refreshments available

10:40 - 11:00

Finding the freaks in Palindromes

Abigail Stevens

Upon its release in 2004, Todd Solondz's film, *Palindromes*, received mixed reviews, largely due to, what was considered by many, an insensitive portrayal of disabled figures. With the support of Tod Browning's film, *Freaks*, in conjunction with the scholarly works of Rosemarie Garland Thomson, Leslie Fiedler, and Robert Bogdon, I posit that the insensitivity should be read as an indictment of how American culture reworks the freak show, maintaining the marginalization of disabled figures, under the guise of goodwill. We witness: the religiously zealous ring leaders Mama and Beau Sunshine's selective allocation of God's love; the spectacle of a child reciting her provenance, a story that suggests disability stems from sin and the only hope is through religious salvation; the asexualizing of female characters, through apparel that is more fit for post menopausal women than pubescent girls; and medical intervention that maintains the purity of the Sunshine stock. In short, I intend to demonstrate through Todd Solondz's *Palindromes* how America's treatment of individuals with disabilities is an evolution without progress.

(Faculty sponsor: Michael K Johnson)

11:00 - 11:20

A Comparison of Doctorow's "Ragtime" to Morrison's "Jazz"

Carolyn Hinckley

This presentation compares two African American characters in novels by E. L. Doctorow and Toni Morrison. I will compare and contrast the musician Coalhouse Walker in Doctorow's *"Ragtime"* to the character Joe Trace in Morrison's *"Jazz."* One question my paper will examine is: Does an African American writer's representation of an African American character differ from the work of a European American author? *(Faculty sponsor: Michael K Johnson)*

11:20 - 11:40

An Interpretation of narrative structure in Mark Z. Danielewski's "House of Leaves" based in the work of Jacques Lacan

Caleb Collins

Mark Z. Danielewski's *House of Leaves* focuses on the mysterious physical structure of what is known only as the house on Ash Tree Lane. The novel's narration occurs on three levels of interwoven narration supplied by three unique authors. This presentation will discuss how the narrative structure employed in *"House of Leaves"* is a representation of the mirror stage as described in the works of Jacques Lacan. Through an analysis of *"House of Leaves,"* this presentation will seek to establish that the book serves as an interaction between the individual and text that, in turn, functions as an exploration of the mirror stage, as illustrated by Lacan in his essay *"The Mirror Stage as Formative of the Function of the I as Revealed in Psychoanalytic Experience."* Slavoj-i-ek's interpretations of Lacanian theory from his book *"Looking Awry"* will also be employed as a means of further developing the perspective of *"House of Leaves"* as an exploration of the mirror stage. The life of Danielewski himself will also be discussed as a means of illustrating the pervasive nature of the mirror stage as it is employed in the book and relates to the reader. *(Faculty sponsor: Michael K Johnson)*

11:40 - 12:00

Beauty and the Post Human

Tabitha Clark

What is the post-human beauty queen going to look like? Is she going to be a Pamela Anderson with breasts augmented to twice their natural size with a stylish tummy-tuck and thigh lift to match? Or is she going to be sporting the latest in body-art? Looking at the trends of beauty as they progress through the last century and the growing availability of cosmetic surgery to the average working person these questions are both valid and unsettling. Radical body modification is becoming more common, but primarily it is originating from two specialists: the tattoo/piercing artist and the plastic surgeon. Their clientele at first glance might look like apples and oranges in comparison, but really they are all working towards the same goal: defining where they stand in a culture that is fixated on the titled of us vs. them. Through my presentation I will look at some of the newest and arguably most radical, forms of body modification available to the public, and present some of my theories as to what this means about post-human body image. *(Faculty sponsor: Paul H Outka)*

Venue 8

Creative Writing / Readings

The Landing: Student Center

Moderators: Pat O'Donnell and Jeff Thomson

1:00 - 1:20

Life is Short (So am I): A Story of Hope & Success

Mallory Cyr

I was not expected to live past the age of two. I will graduate from college this May. Because of errors in the development of the nutrition I received, in early years of childhood, I was deprived of essential nutrients for growth and live at a height of only three feet and nine inches tall. Here at UMF, I am currently enrolled in an independent study with Professor O'Donnell and four other students, who are also beginning book-length projects. The writing will be workshopped by other writing students, as well as the class instructor. I am due to graduate as a BFA major in Creative Writing in the spring, and plan to continue this work over the summer and after until I have a complete and publishable manuscript. In this presentation I will be reading a section of my work in progress autobiographical memoir about my life experiences, specifically my struggles and eventual victories of my years in college. I hope to be able to use my own voice to show that life may not always deal a fair hand, but with a certain amount of spirit, and determination, anything really is possible. *(Faculty sponsor: Patricia E O'Donnell)*

1:20 - 2:20

Reading from the BFA Senior Seminar

Justin Ames, Amanda Barnes, Katie Baum, Josh Boucher, Mattie Bowden, Chris Clark, Mallory Cyr, Liz Delano, Chelsea Goulart, Bernadette James, Dani LeBlanc, and Mark Rice

Students from the BFA Senior Seminar will read from their creative work. *(Faculty sponsor: Jeffrey J Thomson)*

2:20 - 2:40

Break – refreshments available

2:40 - 3:30

Advanced Fiction reading

Students in Advanced Fiction

A group of students in Advanced Fiction will volunteer to read their short fiction pieces, all written during this semester. Expect variety in tone and subject matter, from dark to light, warm to bitter. *(Faculty sponsor: Patricia E O'Donnell)*

Venue 9

Social Science/Psychology

Education Center Room 112

Moderators: David Correia and Misty Beck

9:00 - 9:20

The Future of Financial Aid

Jeremy Klockars

This is a presentation of my senior research project about student loans and financial aid. As many of you know, student loans are becoming a larger part of the financial aid package. I studied how current students think their debt will impact future decisions, including living arrangements and graduate school. I also asked students about the various ways they pay for college and if they view it as affordable, and worth the expense. *(Faculty sponsor: Kristina B Wolff)*

9:20 - 9:40

Participatory GIS in the Rangeley/High Peaks Region: An Analysis of Regional Landscape Values

Students from GEO340 Land Use and GEO304 GIScience

Two upper-level geography classes have completed a grant-funded study of community landscape values in the Rangeley-High Peaks region of western Maine. The project gathered input from approximately four hundred respondents about areas of particular importance to them. This input was digitized, aggregated and analyzed using geographic information systems (GIS) software in order to produce maps of community landscape values. Our presentation reflects on our research process and our results, as well as future phases of research for the Rangeley-High Peaks partnership for community mapping. *(Faculty sponsor: Matthew McCourt)*

9:40 - 10:00

Sustainable and Intensive Agriculture in The Philippines

Joanna Wilbur

This presentation will cover the agricultural development in the Philippines with an eye to understanding current economic and ecological issues associated with current conditions. The recent history of both commercial and sustainable agriculture in the region makes the Philippines an ideal location for such a comparison. In addition, the presentation will explain the contacts I have made with agricultural producers in the Philippines, and what steps I plan to take for further research when visiting the commercial and sustainable agriculture projects in the country in July and August of 2007. *(Faculty sponsor: David C Correia)*

10:00 - 10:20

Adventures in Honduras

Jeremy Klockars

I will present photographs from a trip I took this past February to Honduras. The group worked on repairing a school and building a kitchen for the rural village of El Junco. *(Faculty sponsor: Kristina B Wolff)*

10:20 - 10:40

Break – refreshments available

10:40 - 11:00

A Comparison of American and Asian Diets

EiEi Hlaing

Obesity and the importance of calcium intake have always been an issue in the United States. Increasingly, Americans are paying more attention towards healthier diets. Food habits and nutritional intake of Americans will be compared with those of Asians, particularly Burmese. In addition to addressing issues such as obesity, osteoporosis, and finding a healthier lifestyle by assimilating into each other's food habits, the psychological effects of mealtime behavior in these two different societies will be discussed. Twenty five subjects each, from the United States and Myanmar are given food questionnaires to fill out. The results of the study will be compared and discussed in terms of macro and micro nutrients and lifestyle differences. The study is to bring more awareness of cross cultural perspective on food and culture to the UMF campus. *(Faculty sponsor: Margaret Farmer)*

11:00 - 11:20

Victory in the Kitchen; Rationing in WWII

Matt Humer

This abstract's focus is on the changes that occurred in American society in relation to food and food culture during World War II. The emphasis will be on the analysis of primary documents and first hand accounts to gain a better understanding of the homefront during this period. *(Faculty sponsor: Allison L Hepler)*

11:40 - 12:00

Suitability of the Massachusetts Health Care Plan for the State of Maine

Alex Pringle

This year's Maine Policy Scholar, Alexander Pringle, has chosen to research a public policy problem which affects the people of Maine, namely health care policy. Health care is increasingly becoming a pressing national issue as the costs increase by double digits year after year. This problem is especially large in Maine as we have few health care providers to choose from and many people are dependent on Medicare and Medicaid to provide for their needs. Massachusetts has recently lead the nation by attempting to reform their health care system, and the focus

of his project is determining how suitable the Massachusetts' plan is for the state of Maine. (*Faculty sponsor: James P Melcher*)

1:00 - 1:20

A Sensible Drug Policy at UMF

Mike Simpson

Campus drug policy is severely flawed. Students use illegal drugs in their dorm rooms, or share beers with R.A. s, and our zero tolerance policy is nothing but counterproductive and inefficient. Scare tactics and disinformation no longer keep students away from drugs, and studies have shown that D.A.R.E's misinformation actually causes students to use drugs rather than Just Saying No . Simple programs that are already in place at prestigious universities like McGill and Brown like harm reduction and medical amnesty would greatly affect the student's relationship with the school. A sensible drug policy here on campus would not only make UMF unique, but it would also increase retention rates as well as reduces public safety funds wasted on the draconian drug policy we now have in place. This presentation will show the harm caused by the current policies, and the many benefits of what I consider a sensible drug policy. (*Faculty sponsor: James P Melcher*)

1:20 - 1:40

Patronizing the Elderly: The Effect of Condescending Speech on College Students Attitudes toward a Nursing Home Patient

Shawna M. Newton and Sarah E. Tucker

The central purpose of this study is to examine the effects of patronizing speech on college students perceptions of an elderly woman. Specifically, we created videos depicting a scenario in which a nurse engages in (a) normal or (b) patronizing discourse with an elderly nursing home patient. We predicted that the participants would respond more negatively to the elderly woman if the nurse adopts the patronizing style of communication that adults frequently employ when speaking to young children. Further, we expected this effect to be especially robust among those participants who displayed negative attitudes regarding the elderly in their responses to an ageism questionnaire they had completed before viewing the video. (*Faculty sponsor: Steven W. Quackenbush*)

1:40 - 2:00

Explorations in Visual Word Recognition

Lennie Goff II

This presentation examines the visual processes involved in the behavior of reading an individual word. It will examine classical psychological measurement styles and paradigms (psychophysics, perception, cognition, and neuroscience) of the visual recognition of words. The presentation will review many of the ongoing problems in the field such as the questions of serial v. parallel processing and perception without awareness. It will be concluded with a presentation of several new experiments examining the many theories in the psychology of recognizing words. (*Faculty sponsor: Marilyn A Shea*)

2:00 - 2:20

The Enumeration of Sets in a Visual Array

Jason Cyr

Numerous studies have documented a system for nonverbally representing numbers of items in visual and auditory arrays in both humans and animals. These studies still leave some questions. For instance, how does attention select which items to enumerate, and how many can be enumerated all at once (Halberda, Sires, & Feigenson, 2006). In this direct replication of Halberda et al. 2006, I plan to show that the even the approximate number system has its limits. (*Faculty sponsor: Marilyn A Shea*)

2:20 - 2:40

Break – refreshments available

2:40 - 4:10

People, personalities, and probabilities

Students of PSY 400

Research Methods Class Presentation. The students of Research Methods will present their original research projects which include the following: Jason Bessey Gender differences in the Wason selection task Patrick Bouchard & Hannah Garner Does chocolate improve your memory? Krystle Catell & Brianna Dietrich Birth order and attitudes toward the drinking age Tim Crockett Fear and its effect on academic performance Travis Hill Gender differences in attitudes towards persons with disabilities Lori Hutchinson & Tiffany Montgomery A study of factors related to job satisfaction Julie Libby Defining your perfect day Casey Lindwall Can personality traits predict college major? Ryan Pickering Is Gaydar real and who's better at Gaydar? Jennifer Pluff Knitting and stress Virginia Shannon Holland's personality types and college major Sarah Tucker, Shawna Newton, & Lindsay Smith Patronizing the elderly (*Faculty sponsor: Susan A Anzivino*)

Venue 10

Political Science/Senior Speeches

C23 Roberts Learning Center

Moderators: Mathew Freytag

1:00 - 2:00

Democracy

The students of the Democracy First Year Seminar, featuring Rachel Benner, Michael Boucher, Krysta Lilly, Kurt Martin, and Heather Tracy

Work and conversation on topics including: The Grange and democracy in rural areas; Democracy and individual autonomy; Democracy and consumer culture; Self-interest in a democracy. (*Faculty sponsor: Matthew Freytag*)

2:20 - 3:20

Senior Class Speeches for Commencement

TBA

Members of the senior class will be auditioning for the honor of speaking at their commencement in May.

Posters

Note: Posters will be set up during the morning. Authors will be present at their posters for an hour between 10:00 and 12:30, and should leave a note to indicate additional times when they will be present to answer questions.

Poster Session 1 Education Center

poster #1

Using the PIWI model to support parent-child interactions in a playgroup practicum

Chantalle Bard, Loretta Hamilton, Jennifer Jones, Annie Sutherland

Students present a poster and work samples that illustrate their experiences in facilitating inclusive parent-child playgroups at UMF. The playgroups use a research-based model, called PIWI (Parents Interacting With Infants) that focuses on parents' observations of and interactions with their infants and toddlers. *(Faculty sponsor: Dolores J Appl)*

poster #2

Social Stories: Creating stories for children in early childhood and elementary settings

Loretta Hamilton: Clean Up Time; Jessica Neely: Feelings; Courtney Tumeinski: Transitions; Penny Galloway: My Day at Halfway Down the Stairs; Sarah Maxim: Time for Bed; Kimberly Gurney: Going to the Bathroom; Maegan Cunliffe: Going to the Bathroom; Jennif

What are social stories and how can teachers use social stories in the classroom? Learn more about social stories and how you can create a social story using PowerPoint software. Bring your laptop or take notes as you view various social stories that students have created for children in ECS 307. Then learn how to create a social story using pictures or graphics, speech, and action buttons so that all children, including a child with a disability, could listen to your story. *(Faculty sponsor: Loraine Spenciner)*

poster #3

Social Stories: Using social stories in early childhood settings

Sandra Duplisea: Happy Things at Halfway Down the Stairs; Sarah Davison: Outdoor Time; Annie Sutherland: Routine of School; Angela Gelinas: Circle Time; Michelle Spiller: When the Sun Goes Down and We Go to Bed

What are social stories and how can teachers use social stories in the classroom? Learn more about social stories and how you can create a social story using PowerPoint software. Bring your laptop or take notes as you view various social stories that students have created for children in ECS 307. Then learn how to create a social story using pictures or graphics, speech, and action buttons so that all children, including a child with a disability, could listen to your story. *(Faculty sponsor: Loraine Spenciner)*

poster #4

Stuff It

Bethany Marshall, Isaac Hutchinson

Our poster shows how we are coordinating Stuff It with Kids Night Out. Stuff It is a way to integrate an environmental theme into Kids Night Out, an event where UMF sports teams sponsor games for children

throughout SAD 9. Elements of *Stuff It* as conceptualized by our professor, Dr. Kathleen Welch, is included. We also show how we will coordinate the event. School children will receive fliers on how they can recycle by bringing used clothes to the event. The clothes will be given to a local thrift store. Activities for the day include: the men's and women's basketball teams playing *stuff it* where they attempt to stuff as many recycled clothes balls into a hoop. Cheerleaders will use colorful visuals that display an environmental message, such as *Recycle*. Besides the game, there will be a skit where *Mr. Stuff*, a junk monster, spars with *Ms. Recycle*. *Mr. Stuff* is a papier mache puppet who carries the amount of paper, beverages, and other junk the average American uses in a day. *Ms. Recycle*, the heroine, will explain how we don't need to waste so much stuff and how we can make changes. *(Faculty sponsor: Kathleen J Welch)*

poster #5

Laughter Clubs

Melissa Ingalls and Alyce Cavanaugh

A poster on laughter clubs will be created by Melissa Ingalls and Alyce Cavanaugh. While doing a project for class, we contacted an expert in the field, and were given an initiative to possibly start a laughter club at UMF. The poster will be sort of an advertisement for this potential laughter club on the UMF campus. It will briefly overview laughter clubs and brush up on some health benefits of laughing, what a laughter club is, contact information, and website links. *(Faculty sponsor: Kathleen J Welch)*

Poster Session II Student Center

poster #6

Corn Cobb Furnaces

Aaron Welch

Will discuss corn furnaces and how this new technology impacts the environment in comparison to other traditional heating sources. Show how we are using corn a food source as a source for fuel to heat homes and this growing trend in eco-friendly technologies. The cost benefits of using corn or pellet furnaces compared to other heating sources of homes. How this helps American farmers by using their crops in other ways, crops that may not normally be able to be sold for food consumption. Corn furnaces are an interesting new application of an old resource that has great possibilities for its affordability and cleanliness in comparison to other heating sources. *(Faculty sponsor: Julianna Acheson)*

poster #7

Terrace Farming in the Andes Mountains

Aaron Welch

How cultures in the Andes Mountains both ancient and modern have used terrace farming to conquer the environment. How humans have developed techniques used in the terrace farming in the Andes Mountains. Discuss how this method of farming works so well in this mountainous environment allowing cultures to thrive through out history. Show how the technique of terrace farming helps preserve the limited farm land in this environment. *(Faculty sponsor: Julianna Acheson)*

poster #8

Fad Diets: Have we Gotten Back to the Basics, or is it Back to the Drawing Board?

Danielle Desjardins

Are modern day diet programs truly the key to a healthier, happier, and thinner you? A closer look is taken into South Beach, The Zone, and the Atkins diet programs. How close do these plans come to the ancient Neolithic

diet of 12,000 years ago? The outlines and basic facts of these diet programs, as well as their myths, are laid out for you to make your own judgment on the validity and accuracy of these attempted Back to Basics plans. (*Faculty sponsor: Julianna Acheson*)

poster #9

Understanding Race & Gender in Professional Wrestling

Amanda Laliberte

Donned the face of American culture, the World Wrestling Entertainment Company (WWE) televises programs to over 130 countries in 18 languages weekly. In America alone, their programming reaches more than 14 million viewers. It is argued that Professional Wrestling is not technically a sport and demonstrates values that are the exact opposite of traditional sportsmanship. With that in mind, this study explores the presentation of gender and race on the popular televised programs Monday Night Raw and Friday Night Smackdown through content analysis. (*Faculty sponsor: Kristina B Wolff*)

poster #10

Desiccation Resistance of Variable Water-milfoil (*Myriophyllum heterophyllum*)

Ryan Jennison

Variable Water-milfoil (*Myriophyllum heterophyllum*) is an invasive plant capable of altering aquatic habitats. Once established, *M. heterophyllum* displaces native plants and potentially impacts water quality. Aquatic plant fragments can be transported on boats and trailers to other water bodies posing threats of infestation. We investigated the desiccation resistance of *M. heterophyllum* to determine how long plants can remain viable out of water and to better understand the infestation risk they pose. Plants were dried outdoors and then placed in containers of lake water maintained in the UMF greenhouse. The first trial used shoots dried on a clothes rack to simulate fragments found on a boat trailer. Another trial was conducted with milfoil left in a pile on the ground. Milfoil left on the rack for 24 hours or longer showed no signs of viability when returned to the water in the greenhouse, whereas milfoil that was left in piles for up to 29 days remained viable, putting out new shoots when returned to the water. *M. heterophyllum* viability following removal from water varies from hours to days depending upon its moisture content and micro-habitat conditions. (*Faculty sponsor: Daniel E Buckley*)

Poster #11

Synthesis, Characterization, and Reactivity of Nanoscale MgO and VxOy/MgO from a Variety of Precursors: Effect of Synthesis Parameters

Ezra Pryor

High surface area nanoscale materials, especially magnesium oxide (MgO), have shown to possess unique reactivity towards a large number of compounds when compared to bulk (low surface area) MgO. Vanadium oxide impregnated MgO has shown to have enhanced reactivity over MgO. In previous studies, impregnation parameters such as vanadium source and loading time have shown to influence the overall reactivity of the final material. Detailed studies of this influence had not been conducted prior to this work. This project studied the effect of precursor loading time on the material composition and reactivity. The influence of the impregnation parameters was studied by reacting each sample with a test molecule. Destruction of paraoxon was used since it can be followed simply with visible light spectroscopy. Synthetic routes to VxOy/MgO and results of paraoxon destruction versus each impregnation parameter will be shown. This information will be used to determine the most effective route to the synthesis of VxOy/MgO. (*Faculty sponsor: David Heroux*)

poster #12

DISTRIBUTION, STATUS, AND SCALE-RELATED HABITAT ASSOCIATIONS OF A GLOBALLY RARE DAMSELFLY IN MAINE

RON BUTLER, MARY TOMLINSON, ALINE POTVIN, HANNAH ROBBINS, KIMBERLY TRIMPOP

The dragonfly and damselfly (Order Odonata) fauna of Maine is extremely diverse including 35% of all North American species. The globally rare Scarlet Bluet (*Enallagma pictum*) reaches the northern extent of its geographic range in central Maine. To extend our knowledge of the distribution and habitat requirements of this rare damselfly, we surveyed 48 Maine ponds and lakes in 2005. We conducted damselfly surveys at known Scarlet Bluet breeding sites and nearby null sites, and we collected data related to pond characteristics, aquatic and shoreline vegetation, and the extent of human alteration of shoreline habitat at several spatial scales at each site. Our surveys established five new breeding locations for this rare species and re-confirmed sites where the species had only been reported once in the past. Our results suggest that Scarlet Bluet habitat associations differ as a function of spatial scale, but that large beds of undisturbed nearshore aquatic plants assemblages (including floating plants) are critically important at the local scale. The implications of these findings with regard to shoreline development and the conservation of damselflies and other aquatic invertebrates will be explored (*Faculty sponsor: Ronald G Butler*)

poster #13

Temperature Variability in Classrooms at UMF

Mike Camacho, Jen Cramer, Kevin Donoghue, Erika Hoddinott, Sarah Jones, Andy Knapp, Danielle Lemoi, Ricky Noel, Ian Putnam, Stephen Wells

Temperature variability and response time temperature to environmental conditions may be measured on a variety of spatial and temporal scales. Using HOBO data loggers, temperature variability in three classrooms was measured to assess the response of room temperature to differences in heating/cooling systems, building construction, and changes in occupancy. Rooms were selected in Ricker, Roberts, and the new education building, and were selected to minimize other variability (for example, classroom size, orientation, or shading). The response of classrooms to changes in outdoor temperature and sky cover will also be evaluated. Preliminary results indicate variability within classrooms emphasizing the influence of air exchange to hallways and window treatments. (*Faculty sponsor: Julia F Daly*)

poster #14

Snow stratigraphy of Bald Mtn., Weld

Mike Bodkin, Jason Choquette, Allison Giguere, Monica Hall, Allison Martin, Chris Sparacio, Kevin Stewart, Philip Swanson, Bryan Way

The characterization of local precipitation trends is important in understanding future climate change projections, as well as lending insight into important records of past climate change. The documentation and correlation of three snow events on Bald Mtn. in Weld reflect differences in snow accumulation due to elevation and wind conditions. Snow pits dug near the base, middle, and top of the mountain were measured and described to track differences in the thickness and condition of snow from each of three major storm events in February, 2007. In addition, samples of snow from each event were collected at each elevation and submitted for stable isotope analysis. (*Faculty sponsor: Julia F Daly*)

poster #15

Geology and Geochemistry of the Fish Pond Volcanics, The Forks, Maine

Thomas Gregg

The Fish Pond Volcanics are exposed along the ridges north and east of Fish Pond, located 4 miles northwest of The Forks. To constrain the tectonic setting of these rocks, we are currently documenting field relationships and their element compositions. The unit includes flows, thin intrusions, and pyroclastic deposits. The

flows are dark green and aphanitic. Bimodal intrusions, including mafic and felsic varieties, are interpreted as feeder dikes to the volcanic rocks. The pyroclastic deposits include dark to light green tuffs and lapilli tuffs. The dikes intrude the underlying strata of The Forks Formation that crops out to the southeast. Crinoids present within this calcareous unit indicate a shelf facies. Along the upper contact, tuffs grade into green slates beneath black slates of the Devonian Carrabassett Formation to the northwest. A Siluro-Devonian age is based on conodonts collected from The Forks Formation. XRF data places the unit in the within-plate field on Ti-Zr-Y and Ti-Mn-P tectonic discrimination diagrams. The within-plate signature and passive margin setting are consistent with a slab breakoff mechanism, as proposed by Schoonmaker et al. (2005) for the West Branch Volcanics. Alternatively, the late Silurian Salinic disturbance may be related to breakoff of the northwest-dipping Ganderian slab. (*Faculty sponsor: Douglas N Reusch*)

poster #16

Magnetic characteristics of the Temple Stream and Day Mountain Formations: metamorphic pyrrhotite or detrital magnetite?

William Desmond O'Brien

Correct interpretation of the contact between the Temple Stream and Day Mountain Formation of the Seboomook Group is critical to understanding the regional geology of west-central Maine. In order to locate this contact more precisely, pilot magnetic surveying was conducted on a barren hill 3 kilometers north of Fairbanks, Maine. Large reproducible anomalies on the order of 10 meters by 100 meters and up to 6000 nanoteslas occur over a 2 meter thick sandstone bed within the Day Mountain Formation. Detrital magnetite, therefore, is the likely cause of the anomalous magnetic field. (*Faculty sponsor: Douglas N Reusch*)

poster #17

The Temple Stream Formation, West-Central Maine: Devonian or Silurian?

Bryan Way

The Temple Stream Formation comprises a 250-m thick sequence of dark pelitic strata, locally strongly graphitic and sulfide-rich, within the Rumford domain between Farmington and Phillips, west-central Maine. Moench and Pankiwskyj (1988) included this unit within the Devonian Seboomook Group. Alternatively, Solar & Brown (2001) correlate the Temple Stream Formation with the Late Silurian Smalls Falls Formation, implying a significantly different stratigraphy and regional structure. A study of black shales in the Maritime Appalachians found greater geochemical variability across the transect than within stratigraphic sections (Fyffe and Pickerell, 1993). In an attempt to better constrain the age of the Temple Stream Formation, samples have been collected to compare their major and trace element concentrations with fossil-dated samples (e.g., Middle Ordovician Partridge Formation, Late Silurian Smalls Falls Formation, and Early Ordovician Penobscot Formation). Preliminary XRF spectrometry data suggest an inverse correlation between $Zr/(Al+Ti)$, an indicator of grain size, and sulfide content. This is consistent with surface area control on organic carbon preservation and subsequent sulfate reduction. A speculative explanation for the minor calcareous horizons within and above the Temple Stream Formation invokes carbonate precipitation caused by the alkalinity produced during sulfate reduction. (*Faculty sponsor: Douglas N Reusch*)

poster #18

Chaotic Strata near Periphery of the Rumford Domain, New Vineyard, ME.

Jason Choquette

Post-depositional, pre-lithification-type features were discovered in a shale quarry near New Vineyard, Maine. These features indicate a submarine soft sediment slump origin. This project focuses on mapping these features and determining the possible mechanisms that initiated the submarine slump. (*Faculty sponsor: Douglas N Reusch*)

poster #19

Turing Machines

Paul Gies's first year seminar class

The students of FYS 100 Logic and Incompleteness will present several Turing machines in poster form, along with explanations and demonstrations of how they work. *(Faculty sponsor: Paul J Gies)*

poster #20

Robotics and Machine Learning

Evan Fowles

Robots are playing an increasingly important role in society today. They build cars, vacuum houses, and explore other planets. In this presentation, we will explore how a machine is programmed to do tasks. We will also explore the options available to hobbyists and students for building and programming robots on the market today. Finally, I will demonstrate machine learning by having two robots transverse an obstacle course. One robot will be able to see the obstacle course, while the other will have to learn the layout from the first robot. *(Faculty sponsor: Gail L Lange)*

poster #21

Astronomy in Culture

students of FYS 100: Sky, Earth, & Native Culture

The role of astronomical observations in timekeeping, agriculture, religion, architecture, etc., will be presented for several ancient cultures. Peoples such as the Maya, Aztec, and ancient Chinese and Egyptians will be discussed. *(Faculty sponsor: Christopher Magri)*

poster #22

Alternative Energy

students of PHY 110: Physics of Cars

As gas prices rise, alternatives to the gasoline internal combustion engine are being sought. We discuss alternative petroleum sources like tar sands and alternative fuels like biodiesel and ethanol. Electric vehicles and hybrid electric vehicles will also be presented, along with methods of producing the needed electricity: wind, solar, geothermal, and nuclear energy. *(Faculty sponsor: Christopher Magri)*

poster #23

ANT 240 Cultural Ecology

The poster sessions will include all of the students from Dr. Acheson's Cultural Ecology class. Their projects will focus primarily on a host of various adaptive techniques that humans have used or are currently using to adapt to life on earth. The projects include pastoralism, horticulture, foraging, hunting, intensive cultivation and hybrid varieties of the previous forms. Projects focus on a wide variety of geographic locations from the Arctic to the equator. *(Faculty sponsor: Julianna Acheson)*

poster #24

ANT 300 Food and Culture

The poster sessions will include ethnographic research on humans and food consumption in a variety of societies. Some of the projects focus on macro-analysis of large scale food systems while others focus on local, ethnographic accounts of the role that food plays in culture—e.g. ritual, religions, celebrations, technology, gender roles, etc. Students in this session have conducted research on a wide variety of geographic regions and through various epochs. There is far more to food than eating! *(Faculty sponsor: Julianna Acheson)*

Michael D. Wilson Scholars

The Michael D. Wilson Scholars represent some of UMF's best students from across all disciplines. The program recognizes UMF student's 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.

Inaugural Wilson Scholars (fall 2006)

Elizabeth Connelly, nominated by Scott Erb
Meghan Dzyak, nominated by Steven Pane
Dustin Gage, nominated by Daniel Jackson
Danielle LeBlanc, nominated by Jeffrey Thomson
Aline Potvin, Hannah Robbins, Kimberly Trimpop, nominated by Ron Butler
Nathaniel Rawson, nominated by Paul Outka
Sean Siebert, nominated by Karen Barrett
Jessica Stuart, nominated by Michael McFalls

Spring 2007 Wilson Scholars

Jamie Young, nominated by Jean Doty
Kristen Beale, nominated by Jean Doty
Meghan Dzyak, nominated by Steven Pane
Evan Fowles, nominated by Gail Lange
Dustin Gage, nominated by Dan Jackson
Michael Hughes, nominated by Jonathan Cohen
Ei Ei Hlaing, nominated by Margaret Farmer
Deborah Scamman, nominated by Christine Darrohn
Carlyle Smart, nominated by Sarah Sloane
Abby West, nominated by Jean Doty
Joanna Wilbur, nominated by David Correia
Sarah Tucker; Shawna Newton, nominated by Steven Quackenbush
Aline Potvin; Kimberly Trimpop, nominated by Ron Butler
Chelsea Goulart, nominated by Jeffrey Thomson
Jessica Stuart, nominated by Kristina Wolff
Mallory Cyr, nominated by Pat O'Donnell
David Kell, nominated by Richard Robinson
Ezra Pryor, nominated by David Heroux
Lennie Goff II, nominated by Marilyn Shea

2006-2007 Development Team members: Mellisa Clawson, associate professor of early childhood/education; David Heroux, assistant professor of chemistry; Michael Johnson, associate professor of American literature; Robert Lively, dean of the college of arts and sciences; Sarah Maline, associate professor of art history/gallery director; Steven Quackenbush, associate professor of psychology; Kristina Wolff, assistant professor of sociology; and Kathy Yardley, dean of the college of education, health and rehabilitation.

List of Student Presenters

Jennifer Amadon	Katharine Eaton	Kelsey Ketchum
Marcus Aman	Brenda Espinoza	Jeremy Klockars
Justin Ames	Shawn Fanjoy	Andy Knapp
Deborah Arsenault	Arlen Finseth	Elle Knight
Eben Baker	Evan Fowles	Thomas Labrie
Chantalle Bard	Jonathan Fox	Amanda Laliberte
Amanda Barnes	Bronson Frizzell	Anne Lasher
Katie Baum	Dustin Gage	Danielle LeBlanc
Kristin Beale	Shane Gallagher	Danielle Lemoi
Betsy Bell	Penny Galloway	Sarah Levensalor
Rachel Benner	Adam Gariety	Ian Lewis
Katrina Blanchard	Angela Gelinas	Krysta Lilly
Mike Bodkin	Allison Giguere	Brian London
Daryl Boire	Devin Gill	Chancell Luce
Josh Boucher	Lennie Goffill	Bethany Marshall
Michael Boucher	Chelsea Goulart	Lindsay Marston
Mattie Bowden	Nicole Grass	Allison Martin
Jasmine Brooks	Thomas Gregg	Kurt Martin
Amanda Brown	Nina Griffin	Lorraine Masterman
Jasper Brown	Kimberly Gurney	Beth Mathieu
Kristy Bunce	Monica Hall	Sarah Maxim
Mike Camacho	Rebecca F. Hall	Lacey McCormick
Alyce Cavanaugh	Michael Hamel	Kassi Melton
Robin Chace	Loretta Hamilton	Dale Menard
Justin Chambers	Cherieann Harrison	Katelyn Michaud
Kristin Chambers	Scott Hastings	Travis Monmaney
Jason Choquette	Alex Heath	Brandon Morgan
Chris Clark	Meghan Heath	Jen Morton
Tabitha Clark	Elizabeth Hebert	Jessica Neely
Christy Clifford	Carolyn Hinckley	Shawna Newton
Adam T. Coffin	EiEi Hlaing	Ricky Noel
Caleb Collins	Erika Hoddinott	Joe Normandin
Elizabeth Connelly	Allie Hopkins	William D. O'Brien
Patrick Connors	Michael Hughes	Katie O Neil
Jen Cramer	Matt Humer	Sean Parks
Maegan Cunliffe	Isaac Hutchinson	Siobhann Patrie
Jason Cyr	Melissa Ingalls	Katie Pendleton
Mallory Cyr	Bernadette James	Kiley Perry
Sarah Davison	Ryan Jennison	Aline Potvin
Liz Delano	Melissa Johnston	Paula Pratt
Danielle Desjardins	Emily Jones	Alex Pringle
Christian Dietzel	Jennifer Jones	Ezra Pryor
Kaylene Dolloff	Sarah Jones	Stuart Purinton
Kevin Donoghue	Nick Juliano	Ian Putnam
Kate Dumont	Nicole Jurdak	Cassandra Quintal
Sandra Duplisea	David Kell	Katriel Ramú
Meghan L. Dzyak	Megan Kelly	Nate Rawson

List of Student Presenters

Mark Rice	Kimberly Trimpop
Andy Ricker	Holly L. Tripp
Dan Rihm	Sarah Tucker
Hannah Robbins	Courtney Tumeinski
William Robertson	Samuel Valentine
Vincent Rubino	Gerrit Vander Kaaden
Kevin Salonen	Nate Varney
Tiffany Santy	Molly Vespa
Deborah Scamman	Bryan Way
Sean Siebert	Stephen Wells
Mike Simpson	Abby West
Carlyle Smart	Joanna Wilbur
Chris Sparacio	Paul Williamson
Michelle Spiller	Abby Wood
Barbara St. Peter	Stephanie Wright
Abigail Stevens	Jamie Young
Kevin Stewart	Students in BUS 362 - Social Entrepreneurship - class
Jessica Stuart	Students from GEO340 Land Use and GEO304 GIScience
Adrian Sulea	Students from Paul Gies's first year seminar class
Annie Sutherland	Students from the 2006 Tropical Island Biology class.
Philip Swanson	Students in Advanced Fiction
Denise Taylor	Students of FYS 100: Sky Earth & Native Culture
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NOTES:

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.

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