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WESTERN OREGON
UNIVERSITY

ACADEMIC EXCELLENCE SHOWCASE

THURSDAY, MAY 29, 2008

Proceedings of the 2008
Academic Excellence Showcase

Sponsored by:

The Honor Society of Phi Kappa Phi *and*
The Program for Undergraduate Research Experiences

WESTERN OREGON
UNIVERSITY

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WELCOME

A message from

Dr. John Minahan

President, Western Oregon University

Western Oregon University's Academic Excellence Showcase encourages students to demonstrate their research and scholarship, and allows the campus community to experience the varied scholarly and creative interests of our undergraduate students.

The abstracts of student presentations included in this publication are a representative sample of the achievements of our student body. These presentations are from a range of disciplines throughout the College of Liberal Arts and Sciences and the College of Education, but they all celebrate the pursuit of learning and knowledge.

I want to thank the students who have chosen to share their work with us, and the faculty for nurturing and guiding the pursuits of our students. Western Oregon University commends your dedication and we are proud of all you do.

A message from

Dr. Hilda Rosselli

Dean, College of Education and

Dr. Stephen Scheck

Dean, College of Liberal Arts and Sciences

Today's Academic Excellence Showcase provides a snapshot of the engagements of academic discovery that take place everyday at WOU. And this snapshot reveals an academic community very rich in diversity of scholarship. We are a community where faculty encourage students to view learning as a dynamic process that extends beyond the traditional classroom. Where students are urged to pursue their interests and to commit to a process in which questions are asked and researched, and artistic works are created and performed. Whether the scholarship is conducted on the stage, in the laboratory, in the library or in the field - there is a shared experience of intellectual and personal growth.

It is a pleasure to acknowledge the efforts of our students presenting their work today and we appreciate the support of their faculty. We strongly encourage those students participating today as observers to become involved and to take advantage of the faculty's eagerness to mentor you in your own engagement of discovery here at WOU.

A message from the

Western Oregon University Chapter of the Honor Society of Phi Kappa Phi

Co-sponsor of the 2008 Academic Excellence Showcase

Founded in 1897 and headquartered in Baton Rouge, La., Phi Kappa Phi is the nation's oldest, largest and most selective all-discipline honor society. Phi Kappa Phi inducts annually

more than 30,000 students, faculty, professional staff and alumni. The Society has chapters at nearly 300 select colleges and universities in North America and the Philippines. Membership is by invitation only to the top 10 percent of seniors and graduate students and 7.5 percent of juniors. Faculty, professional staff and alumni who have achieved scholarly distinction also qualify.

Western Oregon University's chapter was founded in 1979 and held the first initiation on May 9, 1980. For nearly 30 years, Phi Kappa Phi - with the support of its members, as well as faculty and staff across campus - has sponsored Academic Excellence on campus, celebrating our students' outstanding research and creative endeavors. Our chapter is pleased and honored to continue this important tradition of recognizing and celebrating student excellence.

A Message from the

Program for Undergraduate Research Experiences

Co-sponsor of the 2008 Academic Excellence Showcase

The Program for Undergraduate Research Experiences began in 2004, when a group of faculty formed a task force to examine the state of undergraduate scholarship at Western Oregon University. We were impressed by what we saw happening across the campus. We recognized that the research experience takes many forms - academic papers, exhibits, posters, laboratory investigations, performances, and service learning projects, to name just a few.

The PURE task force identified many ways to help facilitate and enhance undergraduate research experiences at WOU. One recommendation—to facilitate greater participation by the entire campus in celebrating our students' accomplishments—resulted in Academic Excellence Day. The Honor Society of Phi Kappa Phi, which had organized an Academic Excellence event for a number of years, partnered with PURE to sponsor the annual Academic Excellence Showcase. With our combined resources and planning committee, we developed a campus-wide event that has become a hallmark of the outstanding undergraduate experience offered at WOU.

Again this year, the campus community has responded enthusiastically to the call for participation, as evidenced by this impressive Proceedings volume. The Faculty Senate has encouraged faculty to reassign class time so students may attend the Showcase. A total of 78 faculty members from across campus have volunteered their time and energy to serve as session chairs, faculty sponsors, and mentors. As a result of their efforts, over 360 students are scheduled to present at this year's Showcase. This exciting event celebrates some of the most remarkable academic accomplishments made by WOU students. We are very proud of their success and honored to be a part of the 2008 Academic Excellence Showcase. We hope you will join us in attending as many sessions as possible and congratulating students on their outstanding scholarship.

ACKNOWLEDGEMENTS

The Academic Excellence Showcase Planning Committee gratefully acknowledges the generous support of this program provided by President John Minahan, the Provost's Office, and the Western Oregon University Foundation. Thanks are extended to Dean Stephen Scheck (College of Liberal Arts and Sciences) and Dean Hilda Rosselli (College of Education), whose support during the planning process

has been unwavering. A special thank you is given to Stewart Gilbert from University Computing Services for web design support; and Lisa Catto and Denise Visuaño from Public Relations for their hard work, talent and dedication. We are especially indebted to the session chairs and faculty sponsors, listed below, who are critical to the success of this event.

Session Chairs and Faculty Sponsors

Alexander, Joel
 Allen, Warren
 Artman, Margaret
 Baxter, Diane
 Beaver, Cheryl
 Behmard, Hamid
 Bergeron, Tom
 Bersani, Hank
 Bliss, Ann
 Boomer, Sarah
 Braa Dean
 Braza, Jerry
 Bucy, Mary
 Callero, Peter
 Cardinal, Marita
 Carter, Brynn
 Caster, Brian
 Courtney, Arlene
 Cress, Linda
 Dauer, Sue

Dello Stritto, Mary-Ellen
 Doellinger, David
 Dolan, Maureen
 Dutton, Bryan
 Ellingson, Don
 Foster, David
 Fung, Maria
 Geier, Max
 Gingerich, Terry
 Girod, Mark
 Griffin, Susan
 Harchanko, Joseph
 Harding, Carol
 Helppie, Kevin
 Henderson, Jessica
 Hsueh, Yvonne
 Hughes, Henry
 Jensen, Kimberly
 Jones, Deborah
 Kelly, Tom

Keulks, Gavin
 LeMaster, Michael
 Lowe, Benedict
 Maroney, Elisa
 Mayhead, Molly
 McFadden, Susan
 Myers, Chloe
 Oberst, Sharon
 Paraskevas, Cornelia
 Perlman, Mark
 Pettenger, Mary
 Plec, Emily
 Price, Michele
 Raborn, Jodie
 Rand, Tom
 Rector, John
 Rice, Gwenda
 Roscoe, Lauren
 Saxowsky, Denvy
 Scarlato, Mary

Shrestha, Uma
 Smiles, Tracy
 Smith, Doug
 Smith, Robin
 Stonecipher, Linda
 Strapp, Chehalis
 Taylor, Steve
 Templeton, Jeffrey
 Thomas, Darryl
 Thomas, Daryl
 Thompson, Kathy
 Van Steeter, Mark
 Wade, Philip
 Walczyk, Kevin
 Ward, Mike
 Winningham, Rob
 Wojcikiewicz, Steve
 Yehnert, Curtis

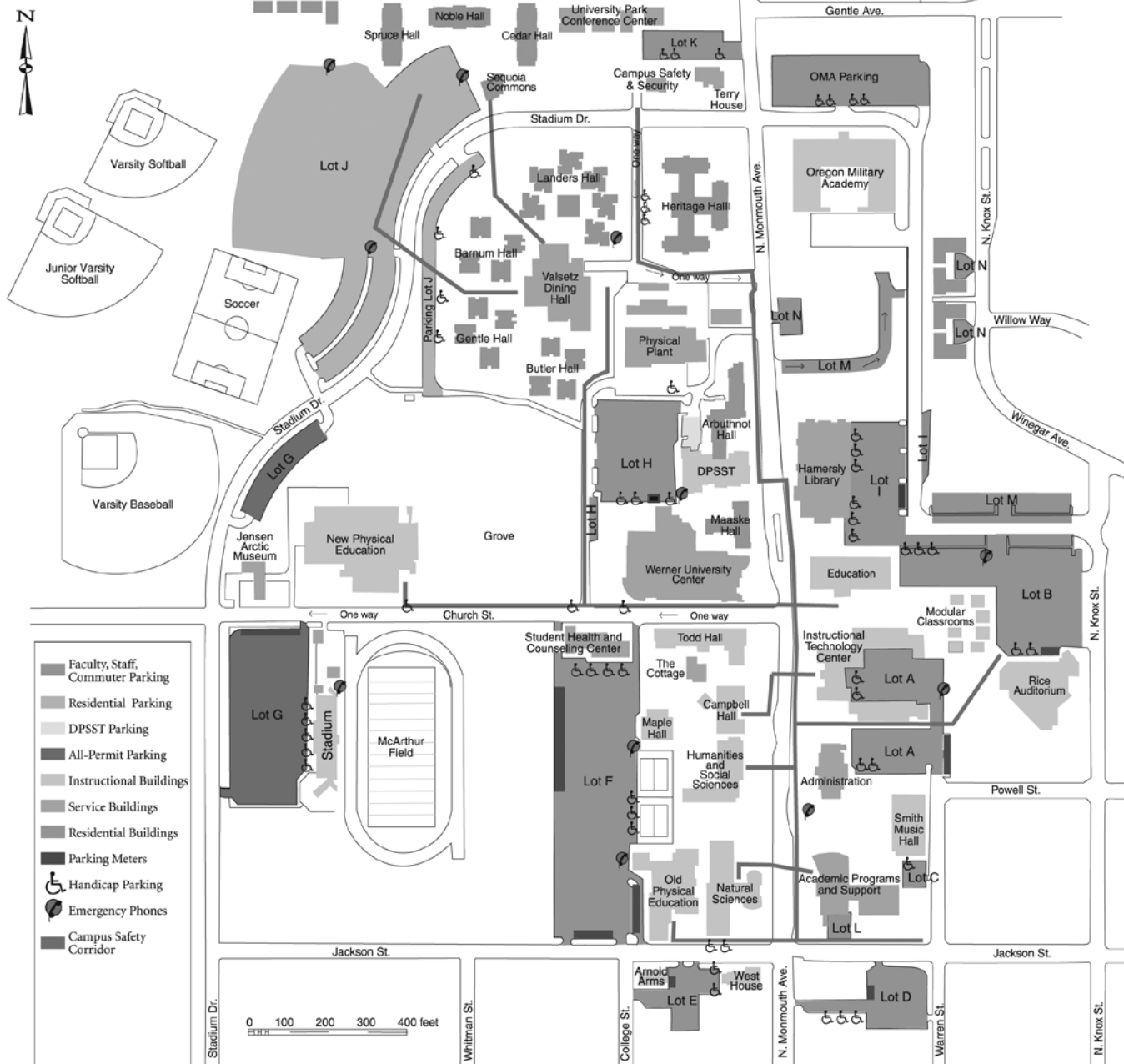
The 2008 Academic Excellence Showcase Planning Committee

Lisa Catto	Jeffrey Templeton, Chair
Jeanne Deane	Denise Visuaño
Bryan Dutton	Rob Winningham
Elisa Maroney	

Finally, from her Planning Committee colleagues, we extend a special and heartfelt thank you to Ms. Jeanne Deane for her untiring energy, patience and support.

CAMPUS MAP

WESTERN OREGON UNIVERSITY



Building Abbreviations

AA.....Arnold Arms	HE.....Heritag Hall	OP.....Old Physical Education
AD.....Administration	HL.....Hamersly Library	PP.....Physical Plant
AH.....Arbuthnot Hall	HS.....Humanities and Social Sciences	PS.....Public Safety
AP.....Academic Programs and Support Center	IT.....Instructional Technology Center	RA.....Rice Auditorium
AR.....Arbor Park	JM.....Jensen Museum	SM.....Smith Hall
BA.....Barnum Hall	LA.....Landers Hall	SP.....Spruce Hall
BU.....Butler Hall	MH.....Maple Hall	SH.....Student Health Center
CD.....Cedar Hall	MA.....Maaske Hall	TH.....Terry House
CH.....Campbell Hall	MC.....Modular Classrooms	TO.....Todd Hall
CO.....The Cottage	MS.....McArthur Stadium	UP.....University Park Conference Center
ED.....Education	NP.....New Physical Education	VD.....Valsetz Dining Hall
GH.....Gentle House	NS.....Natural Sciences	WC.....Werner University Center
GE.....Gentle Hall	NO.....Noble Hall	WH.....West House
	OM.....Oregon Military Academy	

PRESENTATION SCHEDULE GUIDE

time	location	CH 101	ED 217	HL 107	HS 112	HS 235	HS 237	HS 336	IT 211	MH	NS 101	NS 103	SM 121	SM 123	WC Cal	WC Col	WC Ore	WC San	WC Wil	WC Pacific Room Posters	
8:00																					
8:30																					
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ANTHROPOLOGY

Session Chair: Robin Smith

Session Title: Anthropology Symposium

Location: Hamersly Library (HL)

Presentations

1:00 - 1:30 p.m., HL 107

Jesus Zarate

Faculty Sponsor: Doug Smith

Title: Sitting with a SMILE

Abstract: My research demonstrates that the continuous need for positive social environment is necessary for the treatment success of renal failure patients. This research proposes that the distinctive networks of each patient has an effect on the social atmosphere of the clinic itself and finally on the holistic health of the patients. The benefit of this paper is to address the importance of a positive social networking and to make this knowledge available.

1:30 - 2:00 p.m., HL 107

Amy Franzen

Faculty Sponsor: Doug Smith

Title: Colonias and Crayons: An Anthropological Study of Children's Futures in Ladrillera, a colonia in a U.S.-Mexico Border Town

Abstract: An anthropological study of families and their children in the colonia of Ladrillera, located in the U.S.-Mexico border town of Agua Prieta, Sonora, based on field research conducted during the summer of 2007 while taking part in WOU's first ever U.S.-Mexico border field school. This paper utilizes the theories of underdevelopment and dependency to help us understand the experiences of children and families and examines the cultural, economic, and systemic causes of their current plight in the poorer and underdeveloped neighborhoods of the city.

2:00 - 2:30 p.m., HL 107

Danielle M. Kuehnel

Faculty Sponsors: Robin Smith and Doug Smith

Title: Far from Home: The Field Experience

Abstract: This short film draws from footage taken on the US-Mexico Border at Agua Prieta, during the first applied anthropology field school, during the summer of 2007. It displays the often challenging field experience for the participating students (who had never done field work), and for the field director (who had not previously managed and advised students while in the field), while also introducing the harsh realities of life on the border for the people who survive it every day.

2:30 - 3:00 p.m., HL 107

Joy Charron

Faculty Sponsor: Robin Smith

Title: The Working Child: Industrialization and Child Labor at the Thomas Kay Woolen Mill

Abstract: At the Thomas Kay Woolen Mill, in Salem, Oregon, I will discover the role child labor had in the era of industrialization through archival research and study of historical objects. Based on this information I will design, construct and mount a temporary exhibit to be displayed at the Mission Mill Museum housed at the Thomas Kay Woolen Mill.

3:00 - 3:30 p.m., HL 107

Lisa Catto

Faculty Sponsor: Robin Smith

Title: Rural Romans in Southern Italy: Excavating the Roman Imperial Site of Vagnari in Gravina in Puglia

Abstract: This project seeks to examine the life of rural Romans in southern Italy during the Roman Empire. Research will be conducted through a bioarchaeological field school taking place this July, which will excavate a Roman cemetery at an estate site called Vagnari, dating to the second and third centuries A.D. The human remains and grave goods excavated will be analyzed and the data interpreted to reconstruct the lives of this past population.

3:30 - 4:00 p.m., HL 107

Bradley Hull

Faculty Sponsor: Doug Smith

Title: From Bracer to Small Business Owners: The Transformation of Rural Oregon by Mexican Immigrants

Abstract: This project will investigate how Mexican community members in Oregon's rural Klamath County transformed from Bracero worker to business savant in this largely unstudied area of rural Oregon. My research will examine historical evidence revealing how the Bracer program began and why Mexican immigrants continued their pattern of migration into the Klamath Lake area. Ethnographic perspectives gained by Mexican heritage informants, native Oregonian informants, and community members. I will investigate the social, cultural, and economic influences these rural Oregon savants have employed to revitalize and change the cultural landscape of two rural communities.

4:00 - 4:30 p.m., HL 107

Mat Davila

Faculty Sponsor: Robin Smith

Title: Uncovering New Philadelphia: Communicating the Relevance of History through Archaeology

Abstract: This project will investigate methods of community involvement and interest resulting from archaeological research in the historic site of New Philadelphia, Ill. Research will be conducted through participation in the New Philadelphia Archaeological Research Project and through an investigation of documentary evidence. Observation will take place over the course of this ten week program. Observed will be the methods in which the significance of the findings at this site is conveyed to the local and nonacademic communities.

ART

Session Chair: Jodie Raborn

Session Title: Professional Concerns Portfolio Presentations

Location: Campbell Hall (CH)

Presentations



8:30 - 8:45 a.m., CH 101

Mark Youngsma

Faculty Sponsor: Jodie Raborn

Title: Art Portfolio Presentation: Presenting Artwork in Painting and Printmaking



8:45 - 9:00 a.m., CH 101

John Aikens

Faculty Sponsor: Jodie Raborn

Title: Art Portfolio Presentation: Presenting Artwork in Graphic Design and Sculpture



9:00 - 9:15 a.m., CH 101

Kate Bappe

Faculty Sponsor: Jodie Raborn

Title: Art Portfolio Presentation: Presenting Artwork in Graphic Design and Printmaking



9:15 - 9:30 a.m., CH 101

Kara Brooks

Faculty Sponsor: Jodie Raborn

Title: Art Portfolio Presentation: Presenting Artwork in Graphic Design and Printmaking



9:30 - 9:45 a.m., CH 101

Katie Etzel

Faculty Sponsor: Jodie Raborn

Title: Art Portfolio Presentation: Presenting Artwork in Painting and Printmaking



10:00 - 10:15 a.m., CH 101

Esther Fasana

Faculty Sponsor: Jodie Raborn

Title: Art Portfolio Presentation: Presenting Artwork in Graphic Design and Printmaking



10:15 - 10:30 a.m., CH 101

Laura Heitz

Faculty Sponsor: Jodie Raborn

Title: Art Portfolio Presentation: Presenting Artwork in Painting and Printmaking



10:30 - 10:45 a.m., CH 101

Nichoel Holmes

Faculty Sponsor: Jodie Raborn



10:45 - 11:00 a.m., CH 101

Jason Kroessin

Faculty Sponsor: Jodie Raborn

Title: Art Portfolio Presentation: Presenting Artwork in Painting and Printmaking



11:00 - 11:15 a.m., CH 101

Lisa Pike

Faculty Sponsor: Jodie Raborn

Title: Art Portfolio Presentation: Presenting Artwork in Painting and Printmaking



11:15 - 11:30 a.m., CH 101

Robert Allen

Faculty Sponsor: Jodie Raborn

Title: Art Portfolio Presentation: Presenting Artwork in Graphic Design

BIOLOGY

Session Chair: Michael LeMaster

Session Title: Biology Symposium

Location: Natural Sciences (NS)

Presentations

2:00 - 2:30 p.m., NS 103

Emily Uhrig

Faculty Sponsor: Michael LeMaster

Title: Temporal Variation in the Female Sexual Attractiveness Pheromone of the Red-sided Garter Snake, *Thamnophis sirtalis parietalis*

Abstract: Female garter snakes lose their attractivity to males shortly after emerging from winter hibernation. Here I present a study designed to determine whether temporal changes in the quantity and/or quality of the female sexual attractiveness pheromone are responsible for the observed loss of attractivity. Behavioral experiments demonstrated that females are significantly less attractive to males within two weeks of emergence. Chemical analyses showed a significant qualitative difference in the structure of the pheromone between newly-emerged females and females two weeks post-emergence. These results support the hypothesis that changes in the female sexual attractiveness pheromone are responsible for diminishing post-emergence female attractivity in garter snakes.

BIOLOGY

Session Chair: Bryan Dutton

Session Title: Biology Research Posters

Location: Werner University Center (WC)

Posters

9:00 - 11:00 am, WC Pacific Room

K. L. Noll¹, N. E. Hanson², B. E. Dutton¹, M. N. Parenteau³, S. M. Boomer¹;

¹Western Oregon Univ., Monmouth, Ore., ²Rice Univ., Houston, Texas, ³NASA Ames Res. Ctr., Moffett Field, Calif.
Faculty Sponsor: Sarah Boomer

Title: Geochemistry and Ecology of Red Mat Systems (GERMS) - A Long-Term Monitoring Project at Red Layer Microbial Observatory Sites in Yellowstone National Park

Abstract: We are interested in understanding hot spring communities in Yellowstone, which contain distinct layers of Red Chloroflexi bacteria most related to Roseiflexus. Our previous work has demonstrated Red Chloroflexi are genetically diverse, showing site-specific genetic variation - which suggests that site-specific variables may drive selection. Since 2004, teams of undergraduates and teachers involved in our GERMS Program have assessed three red layer sites (Fairy, Hillside, Imperial) in terms of water chemistry and red layer content. My recent population studies using 16S rRNA gene analysis (general bacterial and Chloroflexi-targeted) suggest that many temperature and water chemistry changes correlate with population shifts.

9:00 - 11:00 am, WC Pacific Room

Emily Uhrig

Faculty Sponsor: Michael LeMaster

Title: Bigger is Better: Size-dependent Pheromone Production in the Red-sided Garter Snake, *Thamnophis sirtalis* parietalis

Abstract: Male red-sided garter snakes prefer to court females with larger fat stores remaining following winter hibernation. Here we present a study that examined whether the necessary variation exists in the sexual attractiveness pheromone, a female-specific pheromone, to account for the observed male preference. Behavioral trials confirmed that males significantly prefer to court females with higher body condition indices. Chemical analyses of the pheromone showed that significant qualitative differences exist in the pheromone profiles between light-bodied and heavy-bodied females. These results support the hypothesis that male garter snakes utilize variation in the female sexual attractiveness pheromone to differentiate between females of varying body condition.

CHEMISTRY

Session Chair: Arlene Courtney

Session Title: Chemistry Capstone Seminars

Location: Natural Sciences (NS)

Presentations

9:00-9:40 a.m., NS 101

Alvin Gatimu

Faculty Sponsor: Arlene Courtney

Title: Nano Armor: Inorganic Fullerene-Like Materials

Abstract: As the world gets smaller figuratively, materials research is doing so physically. Nano-scale research on inorganic Fullerene-like materials (IFs) has become very popular. Their tribological (lubricating) abilities continue to be explored while their potential to provide unrivalled ballistics and shock-wave protection has generated further enthusiasm. To investigate this possible future use as armor, the synthesis, structure and resulting properties of IFs will be discussed.

9:45-10:25 a.m., NS 101

Laurel Hubbard

Faculty Sponsor: Arlene Courtney

Title: Lipstick, Ketchup or Blood?

Abstract: Leucocrystal violet (LCV) is an agent used for detecting blood at crime scenes. The objective of this research project was to determine the specificity and sensitivity of this blood enhancement reagent. Three different formulations of the reagent were tested to see if any were more sensitive or specific than the others. To test specificity, several materials were tested with each different formulation of LCV. To test sensitivity, several dilutions of blood were tested with each formulation of LCV. The LCV was found to be very specific and could detect blood at a dilution of 1:50,000

10:30-11:10 a.m., NS 101

Shanley Young

Faculty Sponsor: Arlene Courtney

Title: Sniffing Out Drugs; The Forensic Analysis of Drug Evidence

Abstract: What happens to potential drug evidence after it is collected? This presentation will examine the drug testing procedure performed by today's forensic chemists. The focal point will be the presumptive and confirmatory testing of illicit drugs. A concise explanation of chain of custody practices, controlled substance laws and courtroom testimony will be presented.

11:15- 11:55 a.m., NS 101

Jenna Moser

Faculty Sponsor: Arlene Courtney

Title: Distinguishing Glass Fragments Using the Annealing Process

Abstract: Glass fragments are often analyzed in forensic casework. The unknown fragments are compared to

standards to help differentiate between possible sources. The process of annealing has been studied to see if different categories of glass can be differentiated. The categories studied include flat, container, tempered, windshield (laminated) and heat-exposed glass. This process includes measuring the refractive index of glass before and after annealing, and comparing the difference in refractive index between each category of glass. Results from this and similar studies show that tempered glass is easily distinguishable from other categories.

1:00-1:40 p.m., NS 101

Jennifer Smouse

Faculty Sponsor: Arlene Courtney

Title: Forensic Toxicology: What Can They Find in Your Urine?

Abstract: Toxicologists study the effect of poisons and other chemicals on the body by analyzing various samples taken from the body. Urine is the most common sample and is routinely analyzed for the presence of illegal substances. Although urine drug testing is required for various reasons, each sample follows the same analysis procedure. After the toxicologist receives the sample, it is subjected to an immunoassay screening test. The drug must then be isolated using solid phase extraction in order to conduct a confirmation test. Confirmation of the drug's identity is achieved using a gas chromatography/ mass spectrometry (GC/MS).

1:45-2:25 p.m., NS 101

Dallas Swanson

Faculty Sponsor: Arlene Courtney

Title: Cyborgs and Hot Dogs

Abstract: Hearts, kidneys, hands and hair: what do these four body parts have in common? They have successfully been transplanted from one human being to another. Success of organ transplant cannot be merely defined by attachment of the donor tissue, but this new tissue must function for years to come. The problem is that the immune system is designed to indiscriminately detect and destroy foreign objects within the body. Thus organ transplantation has never become the panacea, but as the knowledge of the biochemistry of the immune system grows each year, the treatments and the success of transplantation have multiplied.

2:30-3:10 p.m., NS 101

Zach Christopherson

Faculty Sponsors: Arlene Courtney and Michael LeMaster

Title: I Like the Way You Smell; A Chemical Analysis of Pheromone Variation, and it's Potential Role in Reproductive Isolation Among Garter Snakes

Abstract: Pheromones are chemical cues that affect the behavior and/or physiology of conspecific animals. Structural variation in pheromones associated with reproduction is one mechanism by which closely related animal species can remain reproductively isolated. Utilizing chemical analyses, I compared the female sexual attractiveness pheromone of three species of garter snakes, the red-sided, the red-spotted, and the Northwestern garter

snake. The red-sided and red-spotted are subspecies to one another whereas the Northwestern is a completely different species from the two. Analysis of the data suggests that sufficient variation does exist at the species level to allow for this pheromone to function in reproductive isolation.

COMMUNICATION STUDIES

Session Chair: Emily Plec

Session Title: Top Papers in Media & Rhetorical Criticism

Location: Humanities and Social Sciences (HS)

Presentations

1:00 - 1:20 p.m., HS 237

Tiffany Rockwell

Faculty Sponsor: Molly Mayhead

Title: The Platinum Perfect Bride: Romantic Consumerism in Bridal Magazines

Abstract: This paper explores the modern bride ideology of romantic consumerism as the equation of perfection, luxury and romantic love. This focuses on uncovering the modern bride ideology in bridal magazines. Ideological criticism of the advertisements and articles in three bridal magazines serves to reveal the dominant ideology. It shows what ideologies are marginalized, such as different races, sexual orientations, and income level. To set context, this paper also explores the history and explanation of how the modern bride ideology became the dominant ideology.

1:20 - 1:40 p.m., HS 237

Kaleen Flukinger

Faculty Sponsor: Molly Mayhead

Title: The Conviction of Scott Lee Peterson: How the Media Influenced Defense Attorney Mark Geragos' Opening Statement

Abstract: The trial of Scott Peterson for the murder of his wife and unborn son received extensive pre-trial media coverage. Mark Geragos provided the defense for Mr. Peterson. This paper focuses on the effects of the extensive pre-trial media coverage on Mark Geragos' opening statement and seeks to discover how it reflects the influence of the pre-trial media coverage and asserts the innocence of Mr. Peterson. Answering this question attempts to validate the legitimacy and fairness of our legal system and determine whether it is possible to successfully balance the First Amendment with the Sixth Amendment in a high-profile crime case.

1:40 - 2:00 p.m., HS 237

Greg Dirks

Faculty Sponsor: Emily Plec

Title: A Murder Justified: A Framing Analysis of the Kendra James Shooting

Abstract: The police shooting of Kendra James took place on May 5, 2003 in Portland, Ore. This analysis outlines the events that led up to the shooting, as well as the Oregonian's

framing of those events. The initial Oregonian articles frame the events in terms of officer inexperience and racial discrimination. Later articles' headlines provide additional framing as the event unfolded, again emphasizing racial discrimination and highlighting Portland police misconduct. The study concludes with a discussion of the implications of this framing of the Kendra James shooting, as well as other areas for future research and study.

2:00 - 2:20 p.m., HS 237

Tashia Pettyjohn

Faculty Sponsor: Emily Plec

Title: Analyzing Vonnegut: A Bitter Pill of Advice for Educated America

Abstract: Kurt Vonnegut, American author and speaker, addressed the 1970 graduating class of Bennington College with a variety of concerns. Vonnegut's unique use of satire and agitation rhetoric in his call for social change directed students' attention to recent key events as well as offered words of advice from their own leaders, religious and otherwise. Using vivid language, Vonnegut demonstrates principal characteristics of a rhetoric of agitation and creates a sense of ethos that appeals to his young, politically active audience. The message of his speech echoes through time and regains importance today as we face similar concerns and circumstances.

The following students are unable to present at the Showcase but were honored with "Top Undergraduate Paper Awards" at the 2008 Northwest Communication Association Conference.

Jody Piquet

Faculty Sponsor: Molly Mayhead

Title: Perfect Imperfection: The True Face of Beauty

Jesse Alexander

Faculty Sponsor: Molly Mayhead

Title: Wrongful Convictions and False Justice: John Grisham's *The Innocent Man*

DANCE

Session Chairs: Sharon Oberst, Susan McFadden, Deborah Jones and Darryl Thomas

Session Title: Academic Excellence in Dance

Location: Maple Hall (MH)

Performances and Presentations

9:30 - 9:55 a.m., Maple Hall

Barbie McGehee and Heather-Laura Howell
(Presentation)

Faculty Sponsor: Sharon Oberst

Title: Helen Tamiris: An Introduction to Her Work in Modern Dance and Musical Theatre

Barbie McGehee:

Abstract: This presentation is a research paper on Helen Tamiris, a modern dancer and choreographer from the 20th century. This presentation will include a power point presentation with pictures of Helen Tamiris.

Heather-Laura Howell:

Abstract: Tamiris was one of the first choreographers to use jazz and spiritual music to explore social themes via dance. She is probably best known for her suite of dances called *Negro Spirituals* which was created between 1928 and 1941 and for *How Long Brethren?* (1937), a dance for the Federal Dance Project of the WPA that explored the problems facing African-Americans and won *Dance Magazine's* first award for group choreography. Tamiris also made works based on American themes working in concert dance and musical theatre, including *Annie Get Your Gun* (1946), *Touch and Go* (1949), *Flahooley* (1951), *Carnival in Flanders* (1953), *Fanny* (1954), and *Plain and Fancy* (1955).

9:55 - 10:05 a.m., Maple Hall

Chelsey Hammond-Williams

(Performance)

Faculty Sponsor: Deborah Jones

Title: Chasing Tranquility

Abstract: *Chasing Tranquility* is dynamic quartet that explores playful yet calming movements that move in and out of various groupings. With a pleasantly confident attitude, the dancers move in, out and around each other using both sharp and continuous movements and gestures. Inspired by the music of Steve Reich, *Chasing Tranquility* is a satisfyingly serene dance piece that captures the true essence of the music.

10:05 - 10:20 a.m., Maple Hall

Andrew Parodi

(Presentation)

Faculty Sponsor: Susan McFadden

Title: Martha Graham's Theory of Dance

Abstract: Martha Graham's upbringing was the antithesis of the forerunners of modern dance, Isadora Duncan and Ruth St. Denis. Martha Graham's dancing career is not traced to the influence of the mother, but to the influence of the father. Martha Graham ascribes to her father the position of teacher of her first ever dance lesson. Martha Graham's father was an early version of a psychiatrist, and he diagnosed people based on their manner and movement. When she could no longer dance, Martha Graham wanted to die. I believe that this is because dance for her was her connection to her father.

10:20 - 10:35 a.m., Maple Hall

Allie Boyden

(Presentation)

Faculty Sponsor: Susan McFadden

Title: A Spontaneous Mastermind: Merce Cunningham

Abstract: This presentation will cover a brief history of Cunningham's life and the beginning of his career. The

relationship between Cunningham and his partner John Cage will also be explored. Also discussed will be the process by which Cunningham became a successful choreographer and how his career continues to flourish. Examination of his individual choreographic works will show the elements and characteristics of his unique style of movement.

10:35 - 10:45 a.m., Maple Hall

Jessica Evans

(Performance)

Faculty Sponsor: Deborah Jones

Title: Strewn

Abstract: A modern dance piece about how in the whirlwind of being, women are raw and sexual, broken and strong, vulnerable and confident.

10:45 - 11:00 a.m., Maple Hall

Elizabeth Scott

(Presentation)

Faculty Sponsor: Sharon Oberst

Title: Susan Stroman on Broadway

Abstract: In this presentation, Susan Stroman's work as a choreographer, and director and how her work has brought dance back to the Broadway musical will be examined. Susan Stroman is best known for her direction and choreography of the Broadway musical *The Producers*, winner of a record-making 12 Tony Awards including Best Direction and Best Choreography.

11:00 - 11:15 a.m., Maple Hall

Emily Sword

(Presentation)

Faculty Sponsor: Darryl Thomas

Title: Dance Team Choreographic Exploration

Abstract: A presentation of a Hip Hop piece and a Jazz piece choreographed for competition for the Silverton High Dance team. A short oral presentation about the process behind each exploration, as well as a few thoughts on the whole experience of being in a leadership role for the first time will also be discussed.

11:15 - 11:30 a.m., Maple Hall

Dance Repertory Group: Allie Boyden, Johnna Case, Rebecca Chadd, Brittany Humphrey, Megan Little, Sophia Maletz and Ashley Rice

(Performance)

Faculty Adviser and Sponsor: Darryl Thomas

Title: Guest Artist, Margo Van Ummersen's *Rye* (1994)

Abstract: Each fall term, the dance program invites a guest artist to set or create a dance work on the dance students at WOU. The guest artist holds an audition and selects outstanding dancers to participate in this process. *Rye* (1994), set to the music of Philip Glass, is the piece that choreographer, Margo Van Ummersen set on the WOU dancers this year.

EARTH SCIENCE

Session Chairs: Philip Wade and Arlene Courtney

Session Title: Energy Perspectives and the Environment

Location: Natural Sciences (NS)

Presentations

9:00 - 9:30 a.m., NS 103

Sam Thompson and David Hawes

Faculty Sponsors: Philip Wade and Arlene Courtney

Title: The Productive Possibilities of Two of Earth's Most Powerful Forces: Wind and Water

Abstract: The incredible ability of both wind and water to cause overwhelming damage and destruction is evident by surveying the aftermath of both hurricanes and floods. While society does suffer the blow of these natural terrors, the causes of each can also be harnessed and made useful to mankind. The science and technology behind both wind and hydro-generated energy is an exciting and evolving discipline. This presentation focuses on how wind and water will play a crucial role in coping with the increasing energy demands of the twenty-first century and ending our dependency on nonrenewable, polluting fuels.

9:30 - 10:00 a.m., NS 103

Rebekah Joiner and Kimber Saville

Faculty Sponsors: Philip Wade and Arlene Courtney

Title: Beyond the Bomb: The Development of Nuclear Energy in the United States.

Abstract: Due to the dwindling supply of fossil fuels, the development of alternative forms of energy is becoming a necessity. This presentation addresses the development of nuclear energy as an alternate source within the United States. It will cover the development of nuclear energy and how reactors work, as well as the benefits associated with its production. It will also address its risks, including economic, health, and environmental issues. In conclusion, this presentation will examine the necessity of changing public opinion if the future development of nuclear technology is to continue.

10:00 - 10:30 a.m., NS 103

Danielle Buffington and Nicki Teague

Faculty Sponsors: Philip Wade and Arlene Courtney

Title: It's Getting Hot in Here: A Look at Solar and Geothermal Energy and its Prospective Future in Oregon

Abstract: As a nation that is widely dependent on other countries to supply our energy demand, we tend to overlook our own potential for creating clean and efficient energy. Two forms of renewable energy that are accessible and abundant to the U.S. are solar and geothermal energy. Other countries, such as Iceland and Germany, have implemented these sources efficiently and have reaped the benefits. We will discuss the technological advantages and disadvantages, tax incentives, and the costs associated with installing and maintaining solar and geothermal systems. Our discussion will focus on how Oregonians can successfully apply these

forms of renewable energy and benefit from these sources, such as providing local jobs. So get ready to learn about how you can plug into the sun and cozy into the ground in a cost effective and environmentally friendly way.

10:30 - 11:00 a.m., NS 103

Betsy McDonald and Stephanie Shields

Faculty Sponsors: Philip Wade and Arlene Courtney

Title: Fossil Fuels Revealed

Abstract: In the age of technology, life is run by some of the oldest products on earth, fossil fuels. These fuel the economy and debates equally, causing misconceptions about what these energy resources truly are and their subsequent environmental impacts. The most common types are coal, oil shales, tar sands, oil, natural gas, and hydrates. Through an examination of the formation, history, technology, and process of these forms of fossil fuels, we will provide an overview of each type. This knowledge will enable a more balanced perspective and pave the way for the future of fossil fuels in the modern world.

11:00 - 11:30 a.m., NS 103

Jaclyn Thompson

Faculty Sponsors: Philip Wade and Arlene Courtney

Title: Clean and Convenient Energy Sources; "Hemphasi" on Biomass

Abstract: Our planet has a major energy crisis, and it is imperative to find a solution soon. We are not tapping into resources that could potentially solve our world's energy problem. Biomasses, such as ethanol and hemp, are sources at our fingertips that we need to begin to take full advantage of. If the right steps are taken, we will be able to produce cleaner fuel, textiles, fabrics, papers, and much more from renewable resources that are abundant on Earth's surface. This presentation focuses on how we can begin to take those steps.

EARTH SCIENCE

Session Chair: Jeffrey Templeton

Session Title: Volcanoes of the World

Location: Werner University Center (WC)

Posters

9:00 - 11:00 a.m., WC Pacific Room

Ian Macnab

Faculty Sponsor: Jeffrey Templeton

Title: Potential Hazards of Mafic Volcanism Revealed by Laki Craters, Iceland

Abstract: Located in southern Iceland atop both the Mid-Atlantic Ridge and the Iceland hotspot, Laki Craters provides valuable insights into mafic volcanism. The swarm of eruptions in 1783 and 1784 occurred along a 27 km long fissure system and produced one of the largest basaltic

lava flows in historic times (14.7 km³). Individual episodes typically began as short bursts of explosive phreatomagmatic eruptions before transitioning into sustained, effusive eruptions. While lava destroyed many nearby structures, SO₂ and other gases released had far wider reaching impacts. The gases created an acid aerosol "dry fog" across large portions of the northern hemisphere, causing widespread acid precipitation, increased human mortality, and crop failure. Aerosols reduced incoming solar radiation resulting in the coldest winter temperatures recorded in historical times for many areas of the northern hemisphere. Continued study of Laki Craters may provide a model of the potential hazards that future large, effusive eruptions pose.

9:00 - 11:00 a.m., WC Pacific Room

Brett Thompson

Faculty Sponsor: Jeffrey Templeton

Title: 1973 Eruption of Heimaey

Abstract: The 1973 eruption of Heimaey, which is located in Iceland, is evidence of the epic battle between humans and nature. Heimaey is special because it is one of two locations on Earth where a divergent plate boundary rises above sea level, and it is also located over a hot spot. There has been only one recorded major eruption of Heimaey above the surface of the ocean. The eruption consisted of pyroclastic flows, lahars, lava flow, and lava bombs. The 1973 eruption also made history by being the first time humans tried to intervene and divert the flow of lava from an eruption. Volunteers successfully saved their town and port from being destroyed by an eruption that lasted for over 5 months. They did so by building a make shift dam to slow, stop, and divert the flow. The Heimaey eruption in 1973 was a turning point in ingenuity and showed that humans can do almost anything when they put their minds to it.

9:00 - 11:00 a.m., WC Pacific Room

Matt Doyle

Faculty Sponsor: Jeffrey Templeton

Title: Archeological Significance of Explosive Eruption of Mt. Vesuvius

Abstract: Mt. Vesuvius is a volcano that erupted on August 24 A.D. 79 blanketing the towns and thousands of residents of Pompeii, Stabiae, and Herculaneum. Pompeii was buried 10' deep, while Herculaneum was buried under 75' of ash. The ash preserved and protected Pompeii, which at the time of the eruption was a beautiful city, against the elements until future archaeologists unearthed this snapshot of time. Mt. Vesuvius, a roughly 4300-foot high, deadly volcano, is located near the Bay of Naples, in the region of Campania, in Italy. The tectonic setting of Mt. Vesuvius is a convergent plate boundary where the African Plate is subducted beneath the Eurasian Plate. This explosive volcanic eruption is the first to be described in detail. Most significantly, the eruption generated pyroclastic flows that moved down the sides of the mountain at over 100 mph killing all who were left within the city. At temperatures of 1,000°F, it burned flesh and carbonized bone. A plinian eruption is the most violent type, causing significant death and destruction. Plinian eruptions are characterized by explosive fragmentation of viscous, gas-rich magma, huge pyroclastic surges and flows, and releases

of large amounts of volcanic gases. They also produce large eruption columns, up to seven to 12 miles high that level off and spread up to 200 to 300 miles, causing fallout of tephra.

9:00 - 11:00 a.m., WC Pacific Room

Alicia Thompson

Faculty Sponsor: Jeffrey Templeton

Title: Mt. Pelée: Killer of the Caribbean

Abstract: In 1902, Mt. Pelée erupted and killed 26,000 to 36,000 people in Saint-Pierre on the island of Martinique. Mt. Pelee is located along a subduction zone between the Caribbean and South American Plates. Since colonization of the island, four eruptions have occurred: one in 1792, another in 1851, the catastrophic eruption of 1902, and a reawakening in 1929. This stratovolcano is capable of erupting deadly gases, tephra fall, lava flows, mudflows, pyroclastic flows and surges, landslides, and creating tsunamis. In 1902, Mt. Pelée produced deadly pyroclastic flows and surges that rolled through the town of Saint-Pierre covering the nearly 30,000 residences and killing most of them. There were a few lucky survivors, like Luudger Sylbaris, who was being held in the town's underground jail. In 1929, Mt. Pelée again produced a pyroclastic flow. The eruptions in 1902 and 1929 dramatically illustrated two previously undocumented hazards for volcanologists to address, pyroclastic flows and surges.

9:00 - 11:00 a.m., WC Pacific Room

Ben Shivers

Faculty Sponsor: Jeffrey Templeton

Title: Soufrière Hills, A Volcano in the Spotlight

Abstract: The recent eruptive activity at the Soufrière Hills Volcano has caught the attention of everyone in the geologic community and thrust it into the spotlight. Located on the island of Montserrat, in the West Indies, Soufrière Hills is a stratovolcano lying on a subduction zone where the South American Plate descends beneath the Caribbean Plate. Soufrière Hills is a complex area of andesitic domes that periodically build up and then collapse. Each dome collapse usually results in pyroclastic flows, ash venting, and/or explosive eruptions. The Soufrière Hills Volcano first erupted July 18th, 1995 and is still active today. The most destructive eruption occurred on June 25th, 1997 and led to a pyroclastic flow that killed 19 people. The pyroclastic nature of the volcano has rendered its slopes nearly uninhabitable and made it one of the most intriguing and closely monitored examples in the field of volcanology.

9:00 - 11:00 a.m., WC Pacific Room

Joseph Krom

Faculty Sponsor: Jeffrey Templeton

Title: The 1982 Eruption of El Chichon

Abstract: El Chichon Volcano is located in Chiapas, Mexico within the Transcurrent Fault Province, an area affected by two major strike-slip faults. Based on radiocarbon ages gathered by scientists, it is believed that El Chichon has erupted at least 11 times within the last 8,000 years. El

Chichon is a trachyandesite tuff cone with an associated lava dome complex. El Chichon most likely erupts because of the fluid movement, faulting, and fracturing that occurs beneath it. Past eruptions have produced pumice, ignimbrites, and pyroclastic flows. El Chichon produces rare but explosive ignimbrite forming eruptions of M=6 and greater. Ignimbrites are composed of ash and pumice that weld together in various ways. The 1982 eruption of El Chichon has allowed volcanologists to have a greater understanding of how and why powerful ignimbrite eruptions occur.

9:00 - 11:00 a.m., WC Pacific Room

Matthew Buche

Faculty Sponsor: Jeffrey Templeton

Title: Overview of the Nevado del Ruiz and the lahars of the November 13, 1985 eruption

Abstract: The Colombian volcano, Nevado del Ruiz (5,400 m), lies 170 km east of the oceanic trench, where the Nazca Plate is subducting beneath the South American Plate. The Quaternary eruptive material transitions from andesitic and dacitic lava flows to more explosive pyroclastic products during the Holocene and historic activity. Historic eruptions occurred in 1604, 1845, and 1985. During the November 13, 1985 eruption, rapid melting of snow and ice from the summit's ice cap triggered a total of 60 million m³ of lahar debris. The lahars were highly destructive to villages located at channel openings adjacent to the volcano. Approximately 23,000 people perished at Armero located 50 km east of the summit. Tragically, lahars were predicted prior to the catastrophe. This eruption illustrates the importance of organized and cooperative efforts to reduce the risks of volcanic eruptions.

9:00 - 11:00 a.m., WC Pacific Room

Allison McGonagle

Faculty Sponsor: Jeffrey Templeton

Title: Tambora: A Year Without Summer

Abstract: Tambora is located on the Sunda Arc in Indonesia where the Indo-Australian plate is subducting beneath the Eurasian plate. The 1815 eruption of Tambora was the largest explosive eruption in recorded history, but only a few eruptions from this volcano have been documented. The 1815 eruption produced abundant tephra and pyroclastic flows. The cloud of ash from the eruption is blamed for causing famine and most of the deaths that occurred. The 1815 eruption of Tambora caused Earth's overall temperature to decrease by as much as 3°C, particularly in the Northern Hemisphere. This drop in temperature led to 1816 being known as the year without a summer.

9:00 - 11:00 a.m., WC Pacific Room

Levi Hogan

Faculty Sponsor: Jeffrey Templeton

Title: Krakatau Eruption of 1883

Abstract: In 1883, one of the most devastating natural catastrophes occurred on the apparently dormant Indonesian island of Krakatau. Located near the subduction zone

between the Indo-Australian and Eurasian Plates, Krakatau erupted in a series of four major explosions on August 26 and 27, 1883. The third explosion was so far reaching that it was heard over 4,000 km away. The release of ash and aerosols during the blast impacted global weather and ocean temperatures for a number of years. The tsunamis resulting from the series of eruptions proved deadly for the inhabitants of neighboring islands, killing over 36,000 people. Scientifically, the eruption of Krakatau was especially significant because it was one of the first major volcanic eruptions to be communicated and documented globally using instruments of modern science. Analysis of the eruptive history of Krakatau and the deadly destruction it caused provides insight into understanding and preparing for future eruptions.

9:00 - 11:00 a.m., WC Pacific Room

Sarah Johnson

Faculty Sponsor: Jeffrey Templeton

Title: The Eruption of Mt. Pinatubo and Effects on Global Climate

Abstract: Mt. Pinatubo is a stratovolcano located on the island of Luzon in the Philippines. It is part of a chain of volcanoes that formed from the subduction of the Philippine Plate under the Eurasian Plate. Its eruptive history is subdivided into two periods, Ancestral Pinatubo, which was relatively inactive, and modern Pinatubo, which began after about a 10,000-year dormant period. Mount Pinatubo has had a series of violent eruptions since it formed 35,000 years ago. The last major eruption, in 1991, was the second most violent eruption of the 20th century. This eruption generated an ash column 7 km high and sent 17 to 20 megatons of SO₂ into the atmosphere. The fine tephra and aerosols affected global temperatures for several years after the eruption giving scientists an opportunity to directly observe the sensitivity of global climate to temperature fluctuations and to test the accuracy of climate models in predicting future consequences of global warming.

9:00 - 11:00 a.m., WC Pacific Room

Chris Meyer

Faculty Sponsor: Jeffrey Templeton

Title: Kilauea: Insights into Mafic Magmatic Processes

Abstract: Kilauea Volcano, located on the big island of Hawaii, has been active for about 1,000 years as a result of a hotspot beneath the Pacific Plate. The volcano has been actively erupting over this time period. Recent activity is mainly from the Pu 'u 'O'o vent located on the east rift zone. The magma is basalt in composition and erupts effusively with occasional fountains. Lava flows produce pahoehoe and a'a lava with pillow lava at the shoreline and underwater. The mafic magma compositions at Kilauea are result of the vent moving over the side of the main chamber. Kilauea is an ideal natural research laboratory for expanding the science of volcanology. Studying Kilauea provides a better understanding into the magmatic processes that control the formation of our planet.

9:00 - 11:00 a.m., WC Pacific Room

Heather Hintz

Faculty Sponsor: Jeffrey Templeton

Title: Katmai, Novarupta, and the Valley of 10,000 Smokes: The Great Eruption of 1912

Abstract: Katmai is located in southwest Alaska along the subduction zone between the Pacific and North American Plates. The eruption of Katmai in 1912 is considered to be the greatest eruption in the 20th century. Seismic monitors throughout the world recorded many earthquakes, including 14 M 6-7 that happened during and after the eruption. Katmai sent pyroclastic flows into the Ukak River valley, which was subsequently named the Valley of 10,000 Smokes. During three days of constant eruptive activity, Katmai erupted rhyolite, dacite, and andesite in nine discrete packages, totaling 13 km³ of magmatic material. Compositional differences between these packages have been mapped to show flow distance after the eruption. Ignimbrite boundaries indicate the transition from explosive to effusive eruptions, and the distinct layers produce a rough timeline of effusive to explosive eruptions.

9:00 - 11:00 a.m., WC Pacific Room

Brittanie Andrew

Faculty Sponsor: Jeffrey Templeton

Title: The Past and Future of the Yellowstone Supervolcano

Abstract: Only recently has the general public become aware of the supervolcano located under Yellowstone National Park in Wyoming. An unmoving hotspot is the interpreted cause of the current geologic and hydrothermal activity. This hotspot has caused three major Earth changing eruptions occurring in the past 17 million years. Evidence of these events are seen in the landscape of the surrounding terrain as ignimbrites. Ignimbrites form from large-scale pyroclastic flows of pumice, ash, and hot gas. Interpreting the evidence from past eruptions gives scientists a better understanding of the potential damage that could come from future eruptions, causing concern as to the extent of the next Yellowstone supervolcano eruption.

9:00 - 11:00 a.m., WC Pacific Room

Thomas VanNice

Faculty Sponsor: Jeffrey Templeton

Title: Newberry Obsidian Flow

Abstract: Imagine a field of rhyolitic lava and layer upon layer of black glassy rock called obsidian. This is exactly what you would see if you were to walk along the Big Obsidian Flow at Newberry Volcano. Newberry is located approximately 20 miles south of Bend, Ore. in the Cascade Range, which is a result of the Juan de Fuca Plate being subducted beneath the North American Plate. Newberry Volcano is a shield volcano that is quiet at present; however, around 1,300 years ago the last large eruption occurred. Releasing large amounts of pumice and tephra, this eruption caused pyroclastic flows and led to the formation of the Big Obsidian Flow. At approximately 6,000 feet long and in parts over 65 feet thick, it is one of the largest in North America.

9:00 - 11:00 a.m., WC Pacific Room

Donnie Kasper

Faculty Sponsor: Jeffrey Templeton

Title: The 1980 Eruption of Mount St. Helens, Washington

Abstract: Mount St. Helens is a stratovolcano located in southwestern Washington about 96 miles south of Seattle. As part of the Cascade Range, it is a direct result of the Cascadia Subduction Zone. The volcano has erupted frequently over the last 200 years, with 9 different major eruptions. During the May 18, 1980 eruption, the volcano produced lahars, lateral blasts, pyroclastic flows, and debris avalanches. St. Helens erupts very explosively, and rocks found from the eruption include dacite, andesite, pumice, basalt, and tephra. During the May 18 eruption, the north flank failed, triggering a 2.3 cubic kilometer avalanche. This in turn led to a northwardly directed lateral blast that destroyed an area of 600 square kilometers. As for recent activity, there has been dome growth since October, 2004. But just recently, growth ceased as of January 2008. Mount St. Helens is still active and should to be treated with full precautions.

9:00 - 11:00 a.m., WC Pacific Room

Tanja Aas

Faculty Sponsor: Jeffrey Templeton

Title: Mount Rainier: Potential Hazards to the Seattle-Tacoma Area

Abstract: Mount Rainier is a stratovolcano located in the state of Washington southeast of the Seattle-Tacoma area. Rainier is the highest mountain in the Cascade Range, which stretches from northern California to southern British Columbia, Canada. This mountain range is linked to the Cascadia Subduction Zone off the Pacific coast. Though Mount Rainier has not been active since 1894, its "sister" to the south, Mount St. Helens had a violent eruption in 1980. Scientists believe that Mount Rainier will erupt again and cause harm to the 150,000 people living in Seattle and Tacoma. Historic eruptions on Mount Rainier have produced large mudflows stemming from the 26 glaciers near the top that have reached the Puget Sound lowlands.

9:00 - 11:00 a.m., WC Pacific Room

Kristin Mooney

Faculty Sponsor: Jeffrey Templeton

Title: Mount Hood: Should Portland Be Concerned?

Abstract: There are a number of potential hazards that could result if Mount Hood were to erupt, including lava flows, pyroclastic flows, lahars, debris avalanches, and tephra fall. The proximity of surrounding populated areas increases the risk associated with the volcano. Although the risk to the Portland area due to actual tephra fallout is low, the area could experience hazards indirectly related to the cloud as it passes. The greatest risks posed are lahars and debris avalanches that could reach the Portland area as early as an hour after an eruption. Emergency plans, so far, only include getting to high ground (30m above the river) as fast as possible. To reduce the risk to human life, more planning, including the making of a route map, is underway.

9:00 - 11:00 a.m., WC Pacific Room

Brenna Susee

Faculty Sponsor: Jeffrey Templeton

Title: Mt. Shasta and the History of Its Debris Flows

Abstract: Mt. Shasta is located in northern California near the southern end of the Cascade Range. It is a stratovolcano with an eruptive history that is similar to that of Mt. St. Helens with an occurrence rate of one eruption every 800 years. The topography around the mountain has volcanic rocks, glacial rock debris, and fluvial deposits. The eruption mode of Mt. Shasta includes pyroclastic flows, andesite lavas, lahars, and debris flows. It is usually a highly viscous eruption. The hummocky topography surrounding the volcano was a mystery to geologists until after the 1980 Mt. St. Helens eruption. The hummocks are inferred to have formed from sector collapse and a large-scale debris avalanche from the ancestral Mt. Shasta. If it did erupt again it would cause a serious threat to the livelihood of many homes and surface waters in the region.

EARTH SCIENCE

Session Chair: Don Ellingson

Session Title: Global Warming

Location: Werner University Center (WC)

Posters

2:00 - 4:00 p.m., WC Pacific Room

Jennifer East, Caity Vermillion and Meghan VanCamp

Faculty Sponsor: Don Ellingson

Title: Melting Planet

Abstract: Recent studies have shown that due to global warming, ice caps and glaciers around the world are receding at an alarming rate. Projections made only a few years ago show current glacial area wouldn't occur until much farther in the future. Due to this rapid meltdown, a ripple effect is spanning outward affecting animal habitats, sea levels, and ocean currents.

2:00 - 4:00 p.m., WC Pacific Room

Emily Hardy and Shawn Coreson

Faculty Sponsor: Don Ellingson

Title: Current Trends in Oceanic Temperatures and the Implications on Marine Ecosystems

Abstract: Since the dawn of time, earth temperatures have fluctuated, resulting in net increases and decreases in the average global temperature. Currently measurements indicate we are in the midst of a rising trend in the average global temperature. Because of water's chemistry, the ocean is more resistant to temperature change than the gaseous atmosphere. However, studies of ocean heat content indicate ocean temperatures are generally increasing. This is potentially harmful to many marine ecosystems. There are optimal temperatures for each ecosystem. This presentation will look at the ocean warming trends and demonstrate how small changes in ocean temperature can have detrimental effects on local population diversity and productivity.

2:00 - 4:00 p.m., WC Pacific Room

Katie Benton

Faculty Sponsor: Don Ellingson

Title: What Facts Determine the Earth's Climate?

Abstract: Events that can change the climate can have two separate causes. These causes can originate from sources outside of the earth such as a change in output of radiation from the sun or events from the earth itself such as a change in the ocean, atmosphere or land systems. Milankovitch cycles also have a great affect on the earth's climate. Milankovitch cycles come in three different elements, the eccentricity, axial tilt, and precession. The earth's eccentricity is the shape of the orbit of the earth around the sun. If the orbit becomes more elliptical or more circular that changes the distance from the earth and the sun, this directly affects the distance that the sun's rays must travel before hitting the earth. The second element of the Milankovitch cycle is axial tilt. The earth is tilted at 23.5 degrees and that degree effects the location and the angle at which the sun's rays directly hit the earth. The third element of Milankovitch cycles is precession. Precession is the oscillating top like motion of the earth as it spins. As the earth oscillates in this manner it changes the areas that the sun hits directly do to the tilt. This could cause greater seasonal contrasts and more extreme climates in each season.

2:00 - 4:00 p.m., WC Pacific Room

Daniel Dziekan

Faculty Sponsor: Don Ellingson

Title: Why is the Climate Changing?

Abstract: There are many different reasons why the world's climate is changing. The main reason the climate is changing is because of human intervention. As humans, we create a lot of pollution and greenhouse gases that the world cannot handle and in turn is starting to destroy our environment. The pollution and greenhouse gases can come from almost anything we do, from driving to creating things in factories. The greenhouse gasses in the atmosphere are changing the world's climate.

2:00 - 4:00 p.m., WC Pacific Room

Robert Mock

Faculty Sponsor: Don Ellingson

Title: What is Causing Climate Change?

Abstract: The earth's climate is warming at an alarming rate. The global energy balance is being affected by both external (human-driven) and internal process. A growing concentration of anthropogenic greenhouse gases is the expected cause of the climate change. The earth's surface temperature has raised 1.33 ± 0.32 F in the past 100 years ending in 2005. Climate model predictions expect the temperature to continue to rise to 2.0 to 11.5°F in the 21st century unless major external processes alter their courses.

2:00 - 4:00 p.m., WC Pacific Room

Theresa Larson

Faculty Sponsor: Don Ellingson

Title: What is the Greenhouse Effect?

Abstract: Information will be provided about reasoning behind the greenhouse effect. How much solar radiation does Earth receive, emit, and absorb? What would our Earth be like without greenhouse gases? We will answer these questions and more by comparing data to find realistic answers about this process. Statistics will also be shown to illustrate the dangers this process presents, and if there is anything we can do to limit some of the harmful consequences.

2:00 - 4:00 p.m., WC Pacific Room

Keoni Wong

Faculty Sponsor: Don Ellingson

Title: Greenhouse Gas Concentrations

Abstract: Temperatures are increasing rapidly due to greenhouse gas (GHG) emissions causing drastic changes in the 21st century, some places showing more obvious changes than others. Changes of GHG and aerosols along with solar radiation and more land cover leads to a hotter earth and glacier melting along with higher sea levels. From 1970 until recently, there has been a 70 percent increase in carbon dioxide, methane, and nitrous oxide. These increases came after the industrial revolution. North America has had diminished snow cover along with retreating ice in Arctic regions. 11 of the 12 warmest years ever recorded came in the last 12 years. These changes have caused earlier spring arrival and increase in frost free season.

2:00 - 4:00 p.m., WC Pacific Room

Patrick Landis

Faculty Sponsor: Don Ellingson

Title: Is the Earth's Warming Merely Accounted to Variability

Abstract: I plan on skimming the surface of a couple of different pieces of evidence that global warming is not just due to natural variability. I am going to find information on the sea level, average air temperature, and average ocean temperatures. For each of these three I plan on picking five or six different areas around the world to sample. This will help me to get a good sampling to tell whether it really can be due to variability or not. I also plan on looking at 10 to 20 years worth of data if not more.

2:00 - 4:00 p.m., WC Pacific Room

Joseph Krom

Faculty Sponsor: Don Ellingson

Title: The Cause of the Ice Ages and Other Climate Changes Before the Industrial Era

Abstract: Prior to the Industrial Era, changes in the Earth's radiation balance were the primary cause of climate change. Further, several factors caused these changes in the Earth's radiation balance to occur. Therefore, to determine the direct cause of climate change, one must establish the specific factors that caused the Earth's radiation balance

to change in the first place. Scientists now believe that the regular variations in the Earth's orbit around the Sun, known as Milankovich cycles, are a specific factor that caused the cycling of the Ice Ages to occur. In addition to the Milankovich cycles, many other factors are being identified by scientists as possible causes to other important climate changes that occurred in the pre-Industrial Era.

2:00 - 4:00 p.m., WC Pacific Room

Michelle Hammond and John Wiseman

Faculty Sponsor: Don Ellingson

Title: Getting High

Abstract: The oceans cover approximately 70 percent of earth's surface. Imagine that number increasing and the percent of land decreasing. Unfortunately, imagining it is not necessary whereas it is occurring now. Thermal expansion has already caused the oceans to raise four to eight inches and an increase in greenhouse gases has caused more ice cap melting. The current rise of sea level is observed at about 1.8mm a year. Although that may seem somewhat small, over 14 years that's about one inch. Sea level rising has a major impact on our society because it could affect many humans as well as animals and their habitats.

2:00 - 4:00 p.m., WC Pacific Room

Erin Van Atta

Faculty Sponsor: Don Ellingson

Title: Can Individual Extreme Events be Explained by Global Warming?

Abstract: Individual extreme events cannot be taken as proof that the climate is changing. However, climate extremes are expected due to increasing greenhouse gases in the atmosphere. A single event, such as a drought or hurricane, cannot be pinpointed to being caused solely by global warming, because they are caused by a combination of factors. The only thing we know so far about global warming and extreme events is that human activities are increasing our risk for them to happen. Climate models vary, but most will validate this increasing threat of extreme weather events.

2:00 - 4:00 p.m., WC Pacific Room

Tyler Ciscell and Miyoko Fujii

Faculty Sponsor: Don Ellingson

Title: Future Consequences of Global Warming

Abstract: We will be exploring the possible consequences of global warming in the near future. We will look at rising political tensions between nations, loss of habitat and life (for both humans and animals), and major climate changes. We will also look into melting of ice and snow caps, rising ocean levels, and many other consequences.

2:00 - 4:00 p.m., WC Pacific Room

Brad Adams

Faculty Sponsor: Don Ellingson

Title: Abrupt Global Climate Change

Abstract: The West Antarctic shelf and Greenland ice pack melting or the Atlantic gulf stream stopping are not likely to happen in the 21st century based on the current data. This does not mean that they can't happen. The increasing greenhouse gases have raised the chances of abrupt global climate changes. Abrupt climate changes have also been triggered in the past by natural events.

2:00 - 4:00 p.m., WC Pacific Room

Sarah Meyer

Faculty Sponsor: Don Ellingson

Title: Everyone Needs to Help

Abstract: As a philosophy major I thought about using solipsism to argue that the material world doesn't exist, and so global warming is irrelevant. Or that fatalism to argue that everything is predetermined, so there is no way to prevent global warming and there is no way to change whatever will happen. But my instructor recommended I use utilitarianism or cynicism to argue that everyone needs to reduce the amount of pollution they generate.

2:00 - 4:00 p.m., WC Pacific Room

Kody Kirkpatrick

Faculty Sponsor: Don Ellingson

Title: Global Warming... as Bad as it is Made Out to be

Abstract: The earth is constantly changing and evolving in way science has yet to fully explain. Humans have only been around for a short period of time compared to the earth. Right now many scientists bring a lot of attention to the fact that the earth is warming up, that humans are mostly to blame, and that CO2 is direct cause. We should remember that the earth has naturally been going through its own warming and cooling cycle for a very long time, and that each change in the past half million years corresponds with an increase or decrease in CO2.

2:00 - 4:00 p.m., WC Pacific Room

Michael Murphy, Von Blanchard, and Aaron Dove

Faculty Sponsor: Don Ellingson

Title: Global Warming on Venus

Abstract: Venus is a strange place. Global warming has run wild and space explorers are finding unusual things and coming up with head-spinning hypothesis. Could there be life on Venus? Some say yes! There might be tiny bacteria in the clouds 30 miles above the surface of Venus. The Climate 30 miles up is much cooler than on the surface, a mere 158oF compared to 900oF on the surface. The atmosphere that high is very similar to the atmosphere on the earth. The European Space Agency sent a probe to Venus in 2005 named Venus Express. It's an investigation of the planet's atmosphere and we could have samples of the Atmosphere by as early as 2010.

EARTH SCIENCE

Session Chair: Steve Taylor

Session Title: Earth Science in Context: Land Use and Watershed Function in the Willamette Basin

Location: Werner University Center (WC)

Posters

2:00 - 4:00 p.m., WC Pacific Room

Faculty Presenter: **Steve Taylor**

Title: Earth Science in Context: Land Use and Watershed Function in the Willamette Basin

Abstract: This theme session involves presentation by 20 WOU Earth Science students enrolled in ES473 Environmental Geology and ES407 Senior Seminar, spring term 2008. The focus of the session is on the geologic framework, land-use history, and environmental setting of the Willamette Basin in western Oregon. Over 70 percent of the state's population lives in the watershed and it represents one of the most dynamic urban-mosaic landscapes in the United States. Expanding population and economic growth requires development of sustainable management practices balanced by maintenance of essential watershed functions. This compilation of work provides a sampling of the critical natural resource issues associated with the Willamette Valley. Topics include: geologic framework, regional climate history, geomorphic hazards, disturbance and riparian vegetation, geomorphic response to forest practice, river restoration, and water resource evaluation.

2:00 - 4:00 p.m., WC Pacific Room

Josh Troyer

Faculty Sponsor: Steve Taylor

Title: Tectonic Framework of the Willamette Valley, Oregon

Abstract: The Cascade Volcanic Arc is the result of millions of years of tectonic activity along the Cascadia Subduction Zone. The Cascadia Subduction Zone is an oceanic-continental convergent plate margin where the Juan de Fuca plate is being obliquely subducted beneath North America. Subduction and related andesitic volcanism are roughly subdivided into five major episodes, beginning about 35 Ma and continuing to the present. The evolution of the Cascade Volcanic Arc has shaped the varied physiography of the present-day Pacific Northwest. The Willamette Valley is situated between the Cascade Range to the east and the Coast Range to the west. The lowland is broadly interpreted as a forearc basin associated with arc volcanism and accretionary uplift. Bedrock of the Willamette Valley consists of oceanic basalts largely overlain by terrestrial and marine sediments, related to episodic deltaic deposition. Volcanic rocks are interspersed throughout the basin and the entire valley is overlain by Quaternary surficial deposits. Angular unconformities are common in the Willamette Valley owing to regional tilting and localized faulting throughout the basin. Clockwise rotation of fault blocks has resulted from a long history of oblique convergence and accretionary tectonics.

2:00 - 4:00 p.m., WC Pacific Room

Ben Shivers

Faculty Sponsor: Steve Taylor

Title: Physiographic Framework of the Willamette Lowland Aquifer System

Abstract: This paper focuses on the physiographic framework of the Pacific Northwest, specifically the geology of the Willamette lowland aquifer system and its natural vegetation. The Willamette Lowland is a 5,680 sq. mi. area positioned between the Oregon Coast Range to the west, and the Cascade Range to the east. The Willamette aquifer system is separated into the five hydrogeologic units, these include: (1) the basement confining unit, (2) the Columbia River basalt aquifer, (3) the Willamette confining unit, (4) the Willamette aquifer, and (5) the Willamette silt unit. These units have variable porosity and permeability, and establish the groundwater resource base for a large percentage of Oregonians. Large Pleistocene glacial-outburst floods, coupled with volcanic activity, have covered the Willamette Valley with unconsolidated surficial deposits as thick as 250 feet. Fertile soils at the surface have given birth to approximately 11,764,000 hectares of forested area in Oregon and Washington, and the agricultural zones we see today.

2:00 - 4:00 p.m., WC Pacific Room

Ian Macnab

Faculty Sponsor: Steve Taylor

Title: Quaternary Geology and Geomorphology of the Willamette Basin, Western Oregon

Abstract: The Willamette Valley of northwestern Oregon is associated with widespread Quaternary-age sedimentary deposits. Understanding the nature of the deposits not only provides a history of Quaternary depositional environments in the valley, but also information on surficial materials that form important regional aquifer systems. The oldest of the five major Quaternary-age sedimentary units are deeply weathered, 2.5-0.5 Ma fluvial sands and gravels flanking the valley margins. Tectonic deformation isolated these terraces from further deposition. Subsequent lowering of the valley resulted in up to 500 m of fill. The upper 10 - 50 m is comprised of braided channel alluvium that interfingers with 40 - 100 m thick fans emanating from the mouths of Western Cascade drainage basins. Dividing these gravels are dozens of 15 - 12.7 ka Glacial Lake Missoula flood deposits. These strata are up to 35 m thick and are composed of gravel, sand, silt, and clay. During the past 12,000 years, the braided channel system that dominated the depositional environment of the Late Pleistocene evolved into the anastomosing and meandering system present today.

2:00 - 4:00 p.m., WC Pacific Room

Tanja Aas

Faculty Sponsor: Steve Taylor

Title: Environmental Setting and Land Use in the Willamette Basin

Abstract: The Willamette Valley of western Oregon is characterized by agricultural and urban land use, with multiple pathways for environmental degradation. The southern part of the basin is associated mainly with grass

crops, while the central and northern portions support various types of crops including grains, field crops, tree fruits and nuts, small fruits and berries and vegetables. The primary threat to rural degradation of water and soil quality is via the widespread application of herbicides and insecticides. These pesticides find their way through the channel network, ultimately discharging into the lower Columbia. This paper provides an overview of the environmental setting of the Willamette Basin and an expose on the threat of pesticide use to regional water quality.

2:00 - 4:00 p.m., WC Pacific Room

Laura Stallard

Faculty Sponsor: Steve Taylor

Title: Present-Day Climate and Vegetation of the Willamette Valley

Abstract: This paper examines the present-day climate and vegetation patterns in the Willamette Valley, and forms part of a larger theme session entitled "Earth Science in Context: Land use and Watershed Function in the Willamette Basin". The Willamette Valley climate zone encompasses a 200-km-long lowland that lies between the Coast and Cascade ranges. This region is characterized by generally cool, wet winters and warm, dry summers. The Mediterranean climate pattern results in a unique assemblage of vegetation, including the dominance of coniferous forests. The focus of this poster is on elevation-controlled changes in vegetation throughout parts of the Willamette Valley, as a function of local climate variation.

2:00 - 4:00 p.m., WC Pacific Room

Bobby Kelso

Faculty Sponsor: Steve Taylor

Title: Quaternary Climate and Vegetation History of Western Oregon

Abstract: This paper presents a summary of paleoclimate and vegetation studies in western Oregon during the late Quaternary. The Willamette Valley climate is dominated by mild winters with massive accumulation of precipitation. In the summer months rains begin to disappear and we are dominated by warm, dry high pressure systems. In the Cascades and Coast Range we see a similar pattern, but there is a slight variation. The winter variation brings snowfall to higher elevations and short lived, intense thunderstorms in the summer. The vegetation, in association with the law of uniformitarianism, helps us unravel the past climate. Different plant assemblages occurred in the Willamette Valley and surrounding mountain regions during the past 100,000 years. Since plants are extremely sensitive to even minimal climate changes, we can determine relatively precise climate variations over time, based on the sedimentary record.

2:00 - 4:00 p.m., WC Pacific Room

Brittnie Andrew

Faculty Sponsor: Steve Taylor

Title: Groundwater Hydrology of the Willamette Basin, Oregon

Abstract: 70 percent of the population in Oregon lives above

the seven major aquifer systems in the Willamette Valley. The seven primary hydrostratigraphic units include the High Cascade, Upper Sedimentary, Willamette Silt, Middle Sedimentary, Lower Sedimentary, Columbia River Basalt, and the Basement Confining. Precipitation recharges these units at an average rate of 22 in/yr between the high and lowland areas. The period of greatest rainfall occurs from November to April and allows for more water to infiltrate than is withdrawn from the regional aquifer systems. Summer months with evaporation and irrigation account for the most water use. Regional groundwater levels fluctuate by about 65 ft each year and are projected to decline with time as population in the valley increases and recharge varies with changing climate dynamics.

2:00 - 4:00 p.m., WC Pacific Room

Heather Hintz

Faculty Sponsor: Steve Taylor

Title: Land-Use History and Hydrologic Alteration in the Upper Willamette Basin

Abstract: The upper Willamette basin from Eugene to Albany was settled by Euro-Americans in the 1840's. Since then, the Willamette River had been a vital part of the economy and way of life. The river was historically the fastest and safest way to transport goods and people. Over time, this river section has been altered from multiple channels to a simplified and often single channel system (Benner and Sedell 1997). Settlers simplified channels by constructing 'cut-off dams', draining wetlands, and diverting secondary channels. With a simpler channel, the river travels at a higher velocity, inducing bank erosion and channel bed degradation. Additional alteration of channel hydraulics resulted in greater floodplain recurrence intervals in the mid-valley, and provided a measure of flood control. Even though similar processes may occur naturally, they span a greater time frame compared to the effects of human alteration. River restoration in the upper basin is currently underway. Local dam removal and wetland enhancements are helping to bring the river back into harmony.

2:00 - 4:00 p.m., WC Pacific Room

Kristin Mooney

Faculty Sponsor: Steve Taylor

Title: Earth Kills! - Geomorphic Hazards in the Willamette Basin, Western Oregon

Abstract: Every year, lives are lost, and many people lose a great deal of money in property damage due to naturally-occurring surface processes. Decreasing the risk posed by these hazards costs money, but can save lives. Geomorphic hazards in the Willamette Basin include flooding, debris flows, landslides, and stream bank erosion. Risk increases with population growth and expansion into hazard-prone areas; for example floodplains, hillslopes, riparian areas, or any combination of these. Increased mitigation and risk reduction is increasingly more important to the safety and welfare of Oregonians. Strategies for reducing these hazards often fail, mainly due to lack of scientific information and unawareness by policy makers. Many times local governments, which are not well informed, are put in charge of handling the hazard. Such strategies often do not take into account the actual risk

posed by the hazard, the underlying geomorphic processes, or the appropriate mitigation technique. We live in Oregon and it is important for us to be aware of the geologic hazards that we may encounter. It is also important for us to have knowledge on how these hazards can be properly mitigated, so that we can make informed decisions. This paper provides examples of case studies related to geomorphic hazards in the Willamette Basin.

2:00 - 4:00 p.m., WC Pacific Room

Matt Buche

Faculty Sponsor: Steve Taylor

Title: Landslide Processes in the Oregon Coast Range: Willamette Valley's Western Margin

Abstract: The Oregon Coast Range (OCR) forms the western highlands of the Willamette River basin. Rates and mechanisms of mass wasting are influenced by lithology, bedrock structure, climate, and tectonics. OCR mass wasting processes are complex because of a complicated geologic history and dynamic climo-tectonic setting. Significant landslide terrains are associated with the Eocene deltaic fan deposits of the Tyee formation, which experienced uplift during the late Miocene. South-to-north facies progradation of deltaic-submarine ramp deposits is responsible for the two dominant slide types of the area: deep-seated landslides (>0.1 km²) and shallow, rapidly moving debris flows. Research on deep-seated landslides suggests that their impacts on hillslope and river morphology are underestimated. Debris flows have been extensively researched because of their sensitivity to climatic drivers. The inclement weather of the February and November, 1996, storms caused numerous debris flows and spawned political debates concerning forest harvesting practices and their effects on slope stability. Continued research on mass wasting processes is critical for developing environmental policies that conserve natural resources, salmonid populations, and human life.

2:00 - 4:00 p.m., WC Pacific Room

Donnie Kasper

Faculty Sponsor: Steve Taylor

Title: Landslide and Debris Flow Occurrence in Headwaters of the Willamette Basin

Abstract: There are many mass movement processes that affect the terrain we live in. This is extremely evident here in the Willamette Basin. We are surrounded by mountain ranges; to the east are the Cascades, and the west, the Coast Range. Steep mountain slopes combined with intense precipitation patterns render this region particularly prone to landslides and debris flow. These processes are in some cases deadly, and result in millions of dollars in property damage annually. Mass movement processes in upland subbasins of the Willamette include creep, earthflow, landslide, slump, and debris flow. These processes have different magnitudes and frequencies, depending on terrain factors and landuse history. Climate, snowpack, road cuts, vegetation, timber harvesting, hillslope gradient, geology and soils are all factors controlling the occurrence of these mass movement processes. Understanding of these processes is critical for the development of regional watershed management and hazards mitigation plans.

2:00 - 4:00 p.m., WC Pacific Room

Emily Hardy

Faculty Sponsor: Steve Taylor

Title: Biogeomorphic Considerations in the Willamette Valley: Ecological Response Geomorphic Disturbance Regime

Abstract: The Willamette Valley, nestled between the Coastal and Cascade mountain ranges, is home to more than just the college students of Western Oregon University. Different geomorphic conditions within the valley are ideal habitats for diverse plant communities. Quercus (oak) woodlands, Pseudotsuga (Douglas Fir)-dominated forests, and grassland ecosystems blanket the landscape, yielding a variety of native flora. This species-rich region is susceptible to environmental disturbance, both man-induced and natural. Fires, landslides, debris flows, and floods are some of the ecosystem-altering events that occur with relative frequency in both the headwaters and valley bottoms. An understanding of regional geomorphic processes yields insight into the patterns of vegetative succession. In particular, case studies of environmental gradients are considered with a focus on plant associations, disturbance patterns, and the processes by which systems recover over time.

2:00 - 4:00 p.m., WC Pacific Room

Shawn Coreson

Faculty Sponsor: Steve Taylor

Title: Vegetative Response to Landscape Disturbance: Is There a Correlation Between Debris-flow Type Disturbances and Invasive Species in the Oregon Coast Range?

Abstract: The Willamette Basin of western Oregon is associated with a wide variety of geomorphic and anthropogenic disturbances in riparian zones. These processes include timber harvest, cultivation, flooding, and mass wasting (landslides and debris flows). Riparian areas are particularly vulnerable to habitat disturbance. Because debris-flows transfer large amounts of soil, rock and organic material, extensive scour and deposit zones are formed. These disturbed stream channels and riparian areas are well suited for vegetative colonization from both native and invasive species. Investigation of invasive plants suggests that while plant communities vary in their susceptibility, invasion may be dependent on the type of soil disturbance, or at least increase the likelihood that an invasive plant might occupy an area. The migration and distribution of both native and invasive plant species have important ecological implications for river restoration and regional land management strategies.

2:00 - 4:00 p.m., WC Pacific Room

Kevin Friscia

Faculty Sponsor: Steve Taylor

Title: Geomorphology and Ecosystems: Riparian Plant Associations in Mountainous Landscapes of Western Oregon

2:00 - 4:00 p.m., WC Pacific Room

R.C. Mock

Faculty Sponsor: Steve Taylor

Title: Geomorphic Response to Forest Practice in the Willamette Basin

Abstract: Willamette Basin forests are suffering from a diminishing energy supply and a loss of ecosystem services. Forest practices are associated with increased soil erosion and landslides. With disturbed soils, watershed productivity has historically experienced declining trends. In order to maintain optimum levels of forest production, balanced by minimized geomorphic effects, alterations in forest practice is a necessity. This paper examines the relationship between timber harvesting methods and erosion processes in upland basins of the Western Cascades. The effects of road construction and clearcutting are examined.

2:00 - 4:00 p.m., WC Pacific Room

Levi Hogan

Faculty Sponsor: Steve Taylor

Title: The Influence of Timber Harvest on Sediment Transport in Headwaters of the Willamette Basin

Abstract: Uplands of the Willamette Basin are home to a very productive temperate forest and associated timber industry. With this valuable economic resource comes the concern that logging activities may increase hillslope sediment erosion and consequently impact water quality, channel stability, and riparian ecosystems. In the 1950s, a series of watershed experiments were initiated at the H.J. Andrews Experimental Forest. This 30 year examination of hydrologic, geomorphic, and biological effects of timber harvest provided substantive data on sediment transfer in three separate forested watersheds. A separate study explored the 50-year record of sediment accumulated behind the reservoir at Dorena Lake elsewhere in the Western Cascades. Both studies, the focus of this presentation, provide insight into the effects of timber harvest on the discharge rates of water and sediment in headwater basins of the Willamette. Results indicate that logging does impact sediment transfer. However, the connection between the two is more complex than a simple associative relationship. Many other variables must be taken into account to fully understand the dynamic relationship between logging and water quality.

2:00 - 4:00 p.m., WC Pacific Room

Allison McGonagle

Faculty Sponsor: Steve Taylor

Title: Effects of Forest Roads on Hillslope Hydrology and Sediment Production in the Willamette Basin

Abstract: Upland areas of the Willamette Basin are associated with a long history of logging and related road construction. Sediment derived from forested areas can greatly impact the rates of geomorphic processes and water quality in downstream areas. Soil erosion on forest roads can come from many different sources, with controlling variables that include slope angle and spatial position. A key event that has been subject to much research is that of the 1996 storm and flood in western Oregon. Intense rainfall caused widespread erosion in forested areas. Road erosion was dependent upon

local geology, forest condition, and construction style. In addition, soil texture and degree of vegetative cover also played a role in controlling erosion rates. Forest roads in clear-cut areas were associated with significantly more sedimentation and higher erosion rates.

2:00 - 4:00 p.m., WC Pacific Room

Alicia Thompson

Faculty Sponsor: Steve Taylor

Title: Dams and Gravel Mining: Alteration of Riparian Ecosystems and Watershed Function in the Pacific Northwest

Abstract: Did you know that there are nearly 75,000 dams in the continental US and they are wreaking havoc on river hydrology and ecological services across the country? These dams were built with good intentions such as providing jobs, flood control, and energy production. However, dams have significantly impacted river hydrology and riparian habitats. Here in the Pacific Northwest, there are 2,048 dams and many are no longer in use. There is currently a trend by some river managers to remove dams and restore rivers to their unaltered state. Several of the related problems identified in the Northwest include the amount of sediment accumulated behind the dams, downstream erosion, and the practice of in-stream gravel mining. Gravel mining involves the removal of sediment from the channel for use in construction materials. Gravel mining adds to the effect of downstream erosion with significant alteration to the channel bed, armoring of gravel, and loss of spawning habitat for salmonids.

2:00 - 4:00 p.m., WC Pacific Room

Patrick Stephenson

Faculty Sponsor: Steve Taylor

Title: Landuse and River Restoration in the Willamette Basin: Linkage Between River Management, Geomorphic Process, and Salmonid Recovery

Abstract: The Willamette Valley is set in a dynamic landscape characterized by mountainous river systems, recreational water ways, a world renowned sport fishery, and prosperous agriculture. If these natural resources are not carefully restored and managed, they may be lost forever. River restoration projects are commonly used where waterways have been damaged by human impact. Current studies are focused on determining the natural variability of river systems and restoring natural processes to pre-settlement conditions. In order to reach this goal of natural river restoration, several criteria must be met: (1) understanding of river complexities and geomorphic process, (2) development of theoretical similarities between river systems, (3) formulation of new criteria and standards for monitoring techniques, (4) practical application of scientific modeling, and (5) development of effective models tempered by economic and social realities. With these methodologies, current river systems may be restored and future damage may be entirely avoided. This paper examines the river restoration process, with examples of work in the Willamette Basin.

ENGLISH

Session Chairs: Tom Rand, Cornelia Paraskevas and
Uma Shrestha

Session Title: English Department Academic
Excellence Showcase

Location: Werner University Center (WC)

Presentations of Awards, Short Student Presentations/ Readings, and Poster Presentations

9:00 - 9:15 a.m., WC Columbia Room

General Welcome and Presentation of Certificates for
Outstanding Students in English, the Leta Edwards Writing
Scholarship, and 2007-2008 Writing Associates

9:15 - 9:30 a.m., WC Columbia Room

Katie Tvrđy

Faculty Sponsor: Carol Harding

Title: Articulation in W. G. Sebald's Austerlitz: The
Reevaluation of the Holocaust Discourse

Abstract: Through an examination of how the vague
characterization of Austerlitz functions within the novel,
and also, how the use of the narrator as a barrier between
the reader and the main character in combination with the
construction of the novel as a framed narrative accomplish
the central purpose of the work, this essay will substantiate
how Austerlitz effectively diverges from the discourse of
previous Holocaust literature, and in doing so, succeeds in
questioning the genre.

9:30 - 9:37 a.m., WC Columbia Room

Evan Christopher

Faculty Sponsor: Henry Hughes

Abstract: I plan on reading four original poems in the
following order: Ode to a part-time poet, Camelot, a poem
about sex, and les petit mort. Poems are constructed with
careful attention to content and form and some may be
considered explicit to certain readers.

9:37 - 9:44 a.m., WC Columbia Room

Padraig Maloney

Faculty Sponsor: Henry Hughes

Title: Select Original Poetry

Abstract: Various selected original poetry on various
subjects.... About five poems.

9:44 - 9:51 a.m., WC Columbia Room

Jessica Evans

Faculty Sponsor: Henry Hughes

Title: Select Original Poetry

9:51 - 9:58 a.m., WC Columbia Room

Tyler Bentley

Faculty Sponsor: Henry Hughes

Title: Creative Non-fiction

9:58 - 10:05 a.m., WC Columbia Room

Andrea Taskinen

Faculty Sponsor: Henry Hughes

Title: Select Original Creative Non-fiction

Abstract: The essay, "Giver of Eyes," recounts the experience
of my time volunteering at a South Indian orphanage and
English school.

10:05 - 10:13 a.m., WC Columbia Room

Daniel Bruner

Faculty Sponsor: Gavin Keulks

Title: "Where All the Ladders Start:" The Conduits of Art in
the Poetry of W.B. Yeats

Abstract: By closely examining three crucial poems spread
over the course of W.B. Yeats' work, this essay attempts to
answer a latent question from the author's poetry: what
type of "tragic war" - a description offered in Yeats' *Ego
Dominus Tuus* - begets art? With *Ego Dominus Tuus*, *Words*,
and *The Circus Animals' Dissertation*, Yeats moves through
the many types of turmoils that become the conduits of Art
- metaphysical, political, romantic, and heart-encapsulated.
With his words, Yeats provides no simple definition of
this underlying, art-creating dissonance, but embraces the
"struggle of the fly in marmalade," which births many
transcendent things.

10:13 - 10:21 a.m., WC Columbia Room

Talia Hess

Faculty Sponsor: Carol Harding

Title: Intertextuality in Steinbeck and Sinise's *Of Mice and
Men*

Abstract: Traditional ideas of inspiration "portray the
successor not as a passive recipient of the predecessor's ideas
or techniques, but rather as an active agent who reshapes
the precursor's material" (Landwehr 5). Acting as this active
agent, Sinise made effective changes to Steinbeck's novel, *Of
Mice and Men*, for his 1992 film adaptation. These changes
appear in the form of elaboration or contextual fabrication
to create a film more accessible to the modern audience who
may not have background in Depression-era California. With
this in mind, we can analyze Sinise's 1992 cinematic artistic
interpretation of Steinbeck's classic *Of Mice and Men*.

10:21 - 10:29 a.m., WC Columbia Room

Allison Houck

Faculty Sponsor: Curtis Yehmert

Title: Victim or Victimizer?

Abstract: This paper explores the position of Daisy Buchanan's character in *The Great Gatsby*. In his article *Herstory and Daisy Buchanan* critic Leland S. Person depicts her as a helpless victim of the struggle between the male characters of the novel, but a closer look at her personality and actions indicate she is by no means a passive bystander in the progression of the story. Daisy's choices prove that her motivation in life is materialistic and driven by a desire for security, and she should not be considered a victim.

10:29 - 10:37 a.m., WC Columbia Room

Kayla Johnson

Faculty Sponsor: Carol Harding

Title: The Taming of the Mermaid: An Intertextual Analysis of Culture in Andersen's Little Mermaid and Disney's Film Adaptation

Abstract: Each version of the Little Mermaid reveals ideas about its cultural constructions which correspond with its own time and place: 1989 United States and 1837 Denmark. Both Disney and Andersen project their individual ideas about government, religion, economy, and sacrifice through the two versions of The Little Mermaid. Andersen is able to tame the ancient, wild, and dangerous sea maiden and make her appropriate for children and 1837 Denmark while Disney is able to mold Andersen's Little Mermaid into the 1989 United States Ariel that is relatable to its specific audience.

10:40 - 10:45 a.m., WC Columbia Room

Rob Harriman

Faculty Sponsor: Margaret Artman

Title: The Summer I Learned to Read

Abstract: I will be reading a short essay about the summer following my high school graduation when, as a sullen and unmotivated teenager, I moved to Texas to live with my father and his wife, Dee. Dee was an awful and unlikable character who, paradoxically, introduced me to the works of some of the twentieth century's greatest writers, and sparked in me a lifelong passion for reading. And Texas is a terrible place.

10:45 - 10:50 a.m., WC Columbia Room

Christina Cain

Faculty Sponsor: Cornelia Paraskevas

Title: Teaching Writing for Dummies

Abstract: Writing teachers must answer two important questions: how will I approach writing and what will students understand from my approach? *Teaching Writing for Dummies* addresses these questions through discussion and advice on assigning topics, creating a writing curriculum, guiding prewriting, encouraging revision, generating peer response, and responding and evaluating to student writing.

10:50 - 10:55 a.m., WC Columbia Room

Stacey Reimers

Faculty Sponsor: Cornelia Paraskevas

Title: Writing and I Have a Love / Hate Relationship, but Mostly Just Hate

Abstract: My experiences with writing have not been the most encouraging. My junior year of high school was a year of stress, pressure, tears, intimidation and frustration. I wrote a letter to my teacher so that he could see the affect he had on me. The letter is my point of view now and intended for him to read, while my journal entries are from when I was taking his class and not for him. You will be able to see the impact this had and why it is important for teachers to allow discovery of thoughts and opinions of their students, rather than force them.

10:55 - 11:05 a.m., WC Columbia Room

Elise Andersen

Faculty Sponsor: Cornelia Paraskevas

Title: Learning from the Dinosaurs

Abstract: A craft analysis "essay" using a children's book as a mentor text from which I learned different writing techniques.

11:05 - 11:15 a.m., WC Columbia Room

Julie Rementeria, Timothy LaDuke and Jessica Harper

Faculty Sponsor: Uma Shrestha

Title: Oregon Etymology

Abstract: Etymology is the study of historical linguistic change manifested in individual words. Oregon's etymological history is diverse and interesting. We will present our findings on the history of place names in Oregon, focusing mainly on Polk County and the city of Monmouth.

11:15 - 11:20 a.m., WC Columbia Room

Cydne Tullis and Melissa Stanley

Faculty Sponsor: Uma Shrestha

Title: Perceptions of Language Use

Abstract: Results and conclusions on the perception of dialect boundaries in the United States, based on an informal survey.

GEOGRAPHY

Session Chair: Mark Van Steeter

Session Title: Climatology/Climate Change

Location: Werner University Center (WC)

Posters

11:30 a.m. - 1:30 p.m., WC Pacific Room

Ryan Daven

Faculty Sponsor: Mark Van Steeter

Title: Climatic Processes and Mental Illness

Abstract: It has long been shown that climate change, specifically gradual increases in global temperatures, influences vegetation, atmospheric composition, and many aspects of human life; however, until recently, there has been limited research on the effects of global climate change on people dealing with mental illness. Research has shown that there are statistically significant correlations with relative humidity and average temperature as they pertain to psychiatric hospital admission and affective disorders. In short, much of the research has shown strong relationships between average temperature and a disorder known as Seasonal Affective Disorder. The formulation of this disorder evolved from much of the research regarding climatic processes and their relationship to persistent mental illness.

11:30 a.m. - 1:30 p.m., WC Pacific Room

Kelvin Vaughan

Faculty Sponsor: Mark Van Steeter

Title: Global Warming and Snowpack in the Pacific Northwest

Abstract: Snowpack in the Pacific Northwest is predicted to decrease significantly within the next 40 years. The precipitation will be more likely to fall as rain rather than snow in the winter months. This work addresses the causes of these warmer winters and the detrimental effects on ski areas in the region.

11:30 a.m. - 1:30 p.m., WC Pacific Room

Anthony Sutton

Faculty Sponsor: Mark Van Steeter

Title: Arctic Climate Change, a Focus on Sea Ice

Abstract: The effects of global warming on sea ice significantly impacts climate change. Sea ice has the greatest albedo, or ability to reflect the sun's radiation of anything on the planet. Therefore, shrinking of sea ice in the Arctic causes drastic changes in regards to climate change. By focusing on sea ice, this study addresses how declining albedo, accelerates climate change, causes difficulties in marine ecosystems and triggers problems for native cultures of the Arctic.

11:30 a.m. - 1:30 p.m., WC Pacific Room

Jennifer Gage

Faculty Sponsor: Mark Van Steeter

Title: The Affects of Climate Change on West Coast Beaches

Abstract: The current climate is changing and affecting many things as we know them. Sea level has been rising for a long time but recently has been rising at a faster rate than expected. Thermal expansion, ice sheets melting, and the possibility of large portions of the ice sheets breaking off add to this. The rising sea levels will have a big impact on many of the world's beaches. Other impacts on beaches due to climate change are erosion from increased storm intensity and human impacts from beach stabilization projects. This poster discusses the processes affecting west coast beaches and future expectations.

11:30 a.m. - 1:30 p.m., WC Pacific Room

Taylor Albertson

Faculty Sponsor: Mark Van Steeter

Title: Deforestation's Impact on Climate

Abstract: Human actions are now coming back to haunt us. Every year 53,000 square miles of tropical forests are cut, burned, and cleared. The plant and animal life lost is extremely difficult to restore and deforestation releases carbon dioxide through burning and decay. Carbon dioxide is a major cause of global warming, and deforestation removes the trees that absorb carbon dioxide through photosynthesis. This work explores how deforestation affects the global climate and what to expect in the future.

11:30 a.m. - 1:30 p.m., WC Pacific Room

Rachel Johnson

Faculty Sponsor: Mark Van Steeter

Title: The Effects of Global Warming on Ocean Currents

Abstract: Global warming causes a decrease in ocean salinity by adding fresh water from melting ice sheets and glaciers. It also causes an increase in ocean temperature. Since ocean currents are partly driven by differences in salinity and temperature, global warming changes these currents. The climate of Europe in particular is determined by the warm water brought north by the Gulf Stream current. Any change to this current would have a drastic effect on Europe.

11:30 a.m. - 1:30 p.m., WC Pacific Room

Mark Barnes

Faculty Sponsor: Mark Van Steeter

Title: Affects of Global Warming on the Great Barrier Reef

Abstract: Through emissions of greenhouse gasses we are heating our planet, in doing so our oceans are heating and rising at an alarming rate. This affects the human population and also the vast marine life of the oceans. Making home to a vast amount of these life forms, the Great Barrier Reef thrives in waters between 18 degrees Celsius and 30 degrees Celsius, and if the ocean heats up by two degrees Celsius, 97 percentage of the reef would be bleached making it uninhabitable for these animals. This is just one of the problems

faced by the reef if the planet continues to heat. This work explains the process of coral bleaching, projections for the future, and what can be done to protect the Great Barrier Reef.

11:30 a.m. - 1:30 p.m., WC Pacific Room

Charley Waller

Faculty Sponsor: Mark Van Steeter

Title: Northern Patagonia Climate Variation

Abstract: The distribution of tree species in northern Patagonia have significantly changed in recent times. Multiple factors such as land use, fire suppression and climate change are likely causes. Changes in tree distribution and growth cycles correlate with regional changes in climate. This work explores current and future scenarios for the northern Patagonia forest.

11:30 a.m. - 1:30 p.m., WC Pacific Room

Trever Redding

Faculty Sponsor: Mark Van Steeter

Title: Changes in Disease Distribution as Climates Warm

Abstract: The range of many diseases is controlled by climate. The distribution of diseases is changing due to the current rise in global temperature. Worldwide changes in disease distribution are explored as well as what diseases Oregonians are likely to encounter in the future.

11:30 a.m. - 1:30 p.m., WC Pacific Room

Darla Hiebenthal

Faculty Sponsor: Mark Van Steeter

Title: The Effects of Sea Level Rise in a Warming World

Abstract: Global warming is causing a rise in sea level. The rise is due to increased inputs of water from melting ice as well as thermal expansion of the oceans as they warm. Instability of melting ice sheets in Antarctica pose a potentially catastrophic rise in sea level if vast areas of ice dislodge into the ocean. Since a large percentage of the human population live in coastal areas, current and future sea level rise pose a significant threat.

GRADUATE SCHOOL

Session Chairs: Linda Stonecipher and Mary Bucy

Session Title: Graduate Reception Graduate School

Location: Werner University Center (WC)

Posters and Reception

3:30 - 4:30 p.m., WC Oregon Room

Jennifer Schulze

Faculty Sponsor: Sue Dauer

Title: The Impact of a Critical Literacy Study in First Grade

3:30 - 4:30 p.m., WC Oregon Room

Cynthia Villwock

Faculty Sponsor: Mary Bucy

Title: C.S.I. Chemeketa Style: Development of a High School Science Camp

3:30 - 4:30 p.m., WC Oregon Room

Celina A. Mesa, Lorrel Palmer and Shannon Talbott

Faculty Sponsor: Jessica Henderson

Title: Join Us ... Protect the Ones You Love

3:30 - 4:30 p.m., WC Oregon Room

Shannon Talbott

Faculty Sponsor: Jessica Henderson

Title: Assets and Risks Associated with Early Sexual Debut among Adolescent African American Males in Mobile, Alabama

3:30 - 4:30 p.m., WC Oregon Room

Bridget Johnson

Faculty Sponsor: Jessica Henderson

Title: Framing Asthma: A Content Analysis in U.S. Newspapers

3:30 - 4:30 p.m., WC Oregon Room

Weiwei Zhang

Faculty Sponsor: Mary Bucy

Title: The Use of Electronic Dictionaries Among ESL Learners

Musicians Performing during the Reception:

Pianists: Carolyn Matthews & Karley Herrick

Vocals: Sherry Alves

Vibes: Adam Bates

Saxophone: Dieter Rice

HEALTH, PHYSICAL EDUCATION AND EXERCISE SCIENCE

Session Chairs: Brian Caster and Daryl Thomas

Session Title: Health, Physical Education and Exercise Science Symposium

Location: Werner University Center (WC)

Presentations, Panel Discussion, and Performance

9:00 - 9:15 a.m., WC Santiam Room

Bridget Johnson

(Presentation)

Faculty Sponsor: Jessica Henderson

Title: Framing Asthma: A Content Analysis in U.S. Newspapers

Abstract: Asthma is a public health concern. Over 22 million Americans have asthma. The U.S. spent over \$14 billion in health care for asthma. Although the general public gains most of its health information from mass media, little is known about how asthma is portrayed in U.S. newspapers. The present study involved a review and content analysis of asthma articles from seven major U.S. newspapers. A few of the areas the content analysis will examine include: management strategies, fear messages, and challenge and stigma cues. Implications for adequately addressing asthma in the media are discussed.

9:15 - 9:30 a.m., WC Santiam Room

Christina Modolo
(Presentation)

Faculty Sponsor: Brian Caster

Title: Is a Flip Turn Faster than a Touch and Go at the Wall in Swimming?

Abstract: A comparison of the freestyle flip turn was done with the touch and go at the wall in a velocity/acceleration analysis. The results showed the touch and go at the wall being faster, however the flip turn is assumed to be the more efficient way of changing direction at the wall. Why, if according to biomechanics the flip turn is faster, did the touch and go at the wall provide faster stats? This biomechanical analysis presentation will provide some answers to this question and give some information about the flip turn and how it was done improperly in this analysis.

9:30 - 9:45 a.m., WC Santiam Room

Shannon Talbott
(Presentation)

Faculty Sponsor: Jessica Henderson

Title: Assets and Risks Associated with Early Sexual Debut among Adolescent African American Males in Mobile, Alabama

Abstract: Adolescent risk behaviors are often attributed to a lack of developmental assets. The associations among certain behaviors, assets and early sexual debut (before the age of 13) were examined in survey data of over 1,000 African American males aged 13-18 living in Mobile, Alabama. Results have implications for the Developmental Asset Model as a framework for promoting sexual and overall adolescent health.

10:00 - 10:45 a.m., WC Santiam Room

Alexa Haller, Aileen Babcock and Katelyn Brizendine
(Presentation)

Faculty Sponsor: Marita Cardinal

Title: Teaching Strategies for Children's Physical Education

Abstract: Physical Education should be taught in such a way that promotes life-long love for health and physical activity. In order to teach today's children how to safely and effectively become thriving, healthy adults, we must incorporate varied teaching strategies into our Physical Education classes. Focusing on their innate sense for playful movement, we can work towards the goal of having every

child see physical activity in a positive light. In this session, students from the course, PE 434: Elementary Physical Education Teaching Practicum share highlights from their teaching experiences, including lesson planning, teaching methods, and systematic observation and evaluation techniques.

11:00 - 11:30 a.m., WC Santiam Room

Keely Beach, Kendra Bebout, Abigail Nilsen, Ellen Yliniemi and Tara Halligan
(Presentation)

Faculty Sponsor: Jerry Braza

Title: Global Health: Spotlight on Disabled Vietnamese Orphans

Abstract: This presentation will focus on the personal and environmental health of Vietnam. During Spring Break, 10 students and two faculty/staff advisers traveled to Hanoi, Vietnam as part of an Alternative Break Program through the WOU Service Learning office. In partnership with the Forgotten People Foundation, students brought supplies to an orphanage where abandoned and disabled children and adults live. Vietnam suffers from poor sanitation and pollution, affecting the communities' well-being. At an orphanage in Bac Ninh Province, the Catholic sisters who had full responsibility for the children/adults lacked adequate healthcare training and specific knowledge of the disabilities they were treating.

1:00 - 1:45 p.m., WC Santiam Room

Erick Banks, Kira Batcheller, Avery Cotton, Joslyn Esser, Andrea Franks, Samantha Goodwin, Jessica Guth, Christopher Hamilton, Autumn Hughes, Christopher Keller, Barbara McGehee, Cara Miller, Robert Patterson, Courtney Stowell, Matthew Torassa and Jonny Troyer
(Performance/Presentation)

Faculty Sponsor: Marita Cardinal

Title: Scholarship Through Social Dance

Abstract: Social dancing serves many functions -- as a form of creative and artistic expression, a form of socio-cultural and historical understanding, a way of fostering communication and social connection among people, and a lifetime physical activity to enhance one's health and well-being. In this session, students from the social dance course will present examples of Boyer's Domains of Scholarship (discovery, integration, application, and teaching) through performance of their choreographies in a variety of ballroom, Latin, and rhythm social dance forms; sharing of their stories and experiences in service-learning and community outreach; and presentation of their teaching expertise (with audience participation).

2:00 - 2:15 p.m., WC Santiam Room

Kaila Hawley
(Presentation)

Faculty Sponsor: Tom Kelly

Title: A Physicians Assistant's Manual to Improving the Health of Alaska Native People, Through Promoting Physical Activity and Proper Nutrition

Abstract: This presentation will detail the development of a resource manual for health professionals dealing with the general health and well being of predominantly Alaskan Native peoples. Physicians Assistants are commonly found in under served areas in Alaska, and are often faced with the challenges of being the primary care provider, as well as the challenge of influencing their patients' lifestyles and choices regarding nutrition and physical activity. In the context of the course PE 488 Exercise Motivation and Adherence, the Transtheoretical Model of behavior change was implemented in the development of the manual and its application to the targeted population.

2:15 - 2:30 p.m., WC Santiam Room

Amelia Carmine, Katie Dennis, Kelsey Newman and Bethany Sherer

(Presentation)

Faculty Sponsor: Jerry Braza

Title: Project Help 'Em Out

Abstract: Homelessness is a growing and devastating problem across the United States. Without a concerted effort to help the homeless population, the problem will continue to grow and burden more American families and individuals. Project Help 'Em Out's aim was to collect essential supplies for Simonka Place, a women and children shelter in Keizer, Oregon to help improve the health and overall well-being of those who come to the shelter for assistance. Members of Project Help 'Em Out achieved far greater success than imagined and were able to donate more than 15 boxes of supplies to Simonka Place.

2:30 - 2:45 p.m., WC Santiam Room

Brenden Kirchner

(Presentation)

Faculty Sponsor: Tom Kelly

Title: Evaluation of Marketing Claims of a Select Sports Nutrition Supplement

Abstract: The purpose of this presentation is to analyze the claims made by those marketing the supplement Gamma-Ow/CLA. Such establishments claim the product is a safe, legal alternative to anabolic steroids, declaring the product significantly increases levels of testosterone, human growth hormone, catecholamine, muscle mass and overall strength, and decreases cortisol levels and fat mass. Can these statements be trusted? The supplement's claims were analyzed via studies examining the compound's interaction with the body's metabolic pathways and the reactions/results they illicit. Based on the research examined, the claimed ergogenic effects of Gamma-O w/CLA, excluding catecholamine and cortisol levels, were not supported.

2:45 - 3:15 p.m., WC Santiam Room

Julie Heard, Melissa Gibler, McKenzie Dusschee and Jessica Montas

(Presentation)

Faculty Sponsor: Jerry Braza

Title: United Communities Against Meth

Abstract: United Communities Against Meth (UCAM) is a conglomerated effort to mitigate meth abuse in the communities of Monmouth, Independence, and Dallas, Oregon. In collaboration with the Independence, Ore., YMCA, UCAM is working towards coordinating education and prevention programs for youth and towards providing access to information and resources in treatment centers.

Objectives for this presentation include:

- Creating awareness about meth and its effects on the communities of Monmouth and Independence.
- Describing UCAM's goal of making sure our community knows there is help.
- Disseminating information about UCAM's upcoming events.

3:15 - 3:45 p.m., WC Santiam Room

Kimberly McDonald and Celina Mesa

(Panel Discussion)

Faculty Sponsor: Warren Allen

Title: Biotechnical Engineering Concerns for the Individual and Society

Abstract: In light of new and innovative advances in Biotechnical engineering and manipulation issues such as cloning of foods and of the eventual human being, along related with genetic manipulation considerations that the Human Genome Project have provided are looming on the horizon to challenge us in issues of Privacy and Discrimination that we are ill prepared for. Many of these issues will be presented and offered for an open discussion.

HEALTH, PHYSICAL EDUCATION AND EXERCISE SCIENCE

Session Chairs: Brian Caster and Daryl Thomas

Session Title: Health, Physical Education and Exercise

Science Posters

Location: Werner University Center (WC)

Posters

11:30 a.m. - 1:30 p.m., WC Pacific Room

Emily Arnell and Tyler Mitchell

Faculty Sponsor: Brian Caster

Title: Biomechanical Analysis of the Tennis Serve

Abstract: The tennis serve is the most important shot in a tennis player's offensive game but the hardest shot to master. In this analysis of tennis biomechanics the following information will be presented to gain a deeper understanding of the serve: History of tennis, tennis racquet head sizes (different types of tennis racquets and their pros and cons), phases of the tennis serve, biomechanical principles related to the tennis serve, and analysis results, including graphs and charts representing a phase timing analysis of the tennis serve and an acceleration and velocity analysis of a serve and volley.

11:30 a.m. - 1:30 p.m., WC Pacific Room

Laura Gilbert, Keri Knight and Amber Sams

Faculty Sponsor: Jessica Henderson

Title: Build Up Their Immunity for a Strong Community

Abstract: Educational materials about immunizations were developed utilizing social marketing research principles. The goal of this campaign was to increase awareness of “herd immunity.” The target audience was vaccine-hesitant parents of young children in Jackson County, Oregon. The theoretical basis for the campaign was the Social Norms Theory and the concept of herd immunity. Formative evaluation was conducted through interviews with 22 parents and a health educator to assess promotional appeal, understanding of the immunization message and elements to increase compliance with immunization recommendations.

11:30 a.m. - 1:30 p.m., WC Pacific Room

Stephani Catt, Stacy Crites, Kari Erickson and Ashley McElroy

Faculty Sponsor: Jessica Henderson

Title: Give Your Child the Power to Fight Off Disease!

Abstract: Educational materials about immunizations were developed utilizing social marketing research principles. One goal of this campaign was to increase parents’ awareness of the importance of vaccines without scaring them. The target audience was parents of infants and young children. The theoretical basis for the campaign was the Health Belief Model. Formative evaluation was conducted through interviews with parents who had children who utilized the YMCA facilities to assess promotional appeal, understanding of the immunization message and elements to increase compliance with immunization recommendations.

11:30 a.m. - 1:30 p.m., WC Pacific Room

Bonnie Heitz, Melissa Morris and Della Kobbe

Faculty Sponsor: Jessica Henderson

Title: Do Your Part ... Protect the Vulnerable

Abstract: Educational materials about immunizations were developed utilizing social marketing research principles. One goal of this campaign was to increase awareness that their actions affect their own family as well as the community. The target audience was parents who live in Jackson County who have “borderline” intentions about vaccinating their children. The theoretical basis for the campaign was the Social Norms Theory. Formative evaluation was conducted through interviews with 12 parents and a health professional to assess promotional appeal, understanding of the immunization message and elements to increase compliance with immunization recommendations.

11:30 a.m. - 1:30 p.m., WC Pacific Room

Wade Murray, Bethany Sherer, Laura Wilson and Renee Wells

Faculty Sponsor: Jessica Henderson

Title: Protecting One ... Takes Everyone

Abstract: Educational materials about immunizations were developed utilizing social marketing research principles.

The goal of this campaign was to change current perceptions regarding childhood immunizations. The target audience was vaccine-hesitant parents of young children in Jackson County, Oregon. The theoretical basis for the campaign was the Social Norms Theory. Formative evaluation was conducted through interviews with parents, future parents and a health communication specialist to assess promotional appeal, understanding of the immunization message and elements to increase compliance with immunization recommendations.

11:30 a.m. - 1:30 p.m., WC Pacific Room

Celina Mesa, Lorrel Palmer and Shannon Talbott

Faculty Sponsor: Jessica Henderson

Title: Join Us ... Protect the Ones You Love

Abstract: Join Us ... Protect the Ones You Love educational materials about immunizations were developed utilizing social marketing research principles. One goal of this campaign was to raise awareness regarding community protection through immunization. The target audience was vaccine neutral/hesitant caregivers of young children. The theoretical basis for the campaign was the Health Belief Model. Formative evaluation was conducted through focus groups with nurses, teachers, health educators, and mothers to assess promotional appeal, understanding of the immunization message and elements to increase compliance with immunization recommendations.

HISTORY

Session Chair: Kimberly Jensen

Session Title: Women in Oregon History: From Suffrage to Medicine

Location: Hamersly Library (HL)

Presentations

8:30 - 8:45 a.m., HL 107

Jeanne Deane

Faculty Sponsor: Kimberly Jensen

Title: The Oregon Woman Suffrage Campaign of 1912

8:45 - 9:00 a.m., HL 107

Kelsey Hutchinson

Faculty Sponsor: Kimberly Jensen

Title: The Oregon Woman Suffrage Campaign of 1912

9:00 - 9:15 a.m., HL 107

Kristin Johnson

Faculty Sponsor: Kimberly Jensen

Title: The Oregon Woman Suffrage Campaign of 1912

9:15 - 9:30 a.m., HL 107

Amy Earl

Faculty Sponsor: Kimberly Jensen

Title: The Oregon Woman Suffrage Campaign of 1912

9:30 - 11:30 a.m., HL 107

Kelsey Hutchinson, Kristin Johnson, Kelly McGuire, Val Groshong, Craig Perkins, Steve Stone, Caitlin Summers, Lauren Macaluso, Carole Mainwaring, Jennifer Patterson, Scott Brown, Gina Kirby and Stephani Catt
Faculty Sponsor: Kimberly Jensen

Title: Women Physicians in Oregon Medicine

HISTORY

Session Chair: David Doellinger

Session Title: History Senior Seminar Presentations

Location: Hamersly Library (HL)

Presentations

5:00 - 5:15 p.m., HL 107

Faculty Presenter: David Doellinger

Title: Welcome and Introduction

5:15 - 5:30 p.m., HL 107

Ashley Barnes

Faculty Sponsor: Benedict Lowe

Title: Paintings in Roman Pompeii: Correlations between Paintings and Room Use

Abstract: The paintings found in Pompeii are some of the best preserved in all of the ancient world, and therefore are great to look at to gain an understanding of fashions and trends in Roman artwork. This paper will focus not only on the subject of the paintings, but look deeper to see if a correlation can be made between paintings and room use. By looking at paintings found in Pompeii, and learning what rooms were used for, connections between the two can definitely be seen, as will be shown in this paper.

5:30 - 5:45 p.m., HL 107

Jessica Bertling

Faculty Sponsor: Kimberly Jensen

Title: The Woman Suffrage Movement in Oregon

Abstract: Woman suffragists successfully enfranchised women in the western United States as early as the 1890's. The woman suffrage campaign did not accomplish universal female suffrage until the ratification of the 19th Amendment in 1920. Using the woman suffrage campaign in Oregon as a case study, this paper will examine how the political and social atmospheres of the frontier west provided suffragists an environment for early success.

5:45 - 6:00 p.m., HL 107

Matthew Bond

Faculty Sponsor: David Doellinger

Title: Ivan the Terrible: Centralization in Sixteenth Century Muscovy

Abstract: Russian Tsar Ivan IV attempted to centralize power

and strengthen the state while limiting the influence of the boyar and princely classes through his ruthless policies. Ivan pursued this goal from 1565-1572 with the creation of the Oprichnina, a territory which he had sole control of and was policed by armed squads known as Oprichniki. Through an examination of his correspondence with Alexander Kurbsky (a former friend and Muscovite prince), Kurbsky's biography of Ivan, and first hand accounts of Oprichniki, this paper will examine Ivan's efforts to strengthen the state from factions within the nobility.

6:00 - 6:15 p.m., HL 107

Rebecca Carlson

Faculty Sponsor: Max Geier

Title: Don Juan de Oñate's Prosecution for 'Crimes and Excesses' in the Provinces of New Mexico, 1614

Abstract: In 1614, Juan de Oñate was convicted of a variety of "crimes and excesses" that occurred during his governorship of New Mexico. Although he was guilty of no worse crimes or excesses than previous conquistadores, Oñate was held to a higher standard than previous explorers because of Spain's Ordinance of 1573, which declared that pacification should be carried out charitably and without force. However, the idealistic goals in the Ordinance contradicted with the system of exploration that was already in place, in which explorer's had to fund the mission themselves. This required the explorer to balance the twin goals of recouping expenditures and "charitably" spreading Christianity.

6:15 - 6:30 p.m., HL 107

Sarah Coelho

Faculty Sponsor: Benedict Lowe

Title: Theoderic the Great versus Boethius: The Conflict of 524 A.D.

Abstract: During the reign of Theoderic the Great, a Roman senator by the name of Boethius fell out of favor with the king and was imprisoned and executed. Theoderic, though a Goth himself hoped that during his time as king, relations between the Goths and the Romans would be good, and that the two nations would share the same desires. However in the latter part of his reign the king became more and more paranoid of the Roman senators, which culminated when he arrested and executed his friend Boethius, a Roman senator, in 524 A.D.

6:45 - 7:00 p.m., HL 107

Joshua Duder

Faculty Sponsor: John Rector

Title: Roanoke: England's Failed First Colony and the Spanish Plausibility

7:00 - 7:15 p.m., HL 107

Kelly Gordon

Faculty Sponsor: David Doellinger

Title: The Peace of Westphalia and the Origins of Westphalian Sovereignty

Abstract: While the Peace of Westphalia that ended the Thirty

Years' War has traditionally been regarded as the beginning of the modern nation-state, Westphalian sovereignty actually had its beginnings in earlier policies. The Peace of Westphalia was not so much a groundbreaking document as much as it was a confirmation of a system that was rapidly becoming the status quo. By examining the Peace of Westphalia and comparing it to official foreign policies and doctrines that existed prior to the Thirty Years' War, it will become apparent that the Peace of Westphalia was only a small point on the path to the international system that became its namesake.

7:15 - 7:30 p.m., HL 107

Mark Lowry

Faculty Sponsor: Benedict Lowe

Title: Boniface VIII and Philip IV: Conflict Between Church and State, 1296-1303

Abstract: The issue between Boniface VIII and Philip IV, King of France was an issue between church and state. It will look at how the problem between the two men started, the important documents that may have continued the issue, and the consequences of this fight. During Boniface VIII papacy, 1294-1303, he used the conflict with Philip, King of France, to expand the power of the Church, and protect the Church from secular rulers' influence.

7:30 - 7:45 p.m., HL 107

Luke Martin

Faculty Sponsor: Benedict Lowe

Title: Boniface VIII

Abstract: In the middle ages the conflict between secular and spiritual rulers often caused problems leading to conflict. Pope Boniface VIII marks the end of this problem creating a pivotal point in history. The rise of learned men and strong secular rulers caused the loss of political power during the papacy of Boniface VIII. Pope from 1294 until 1303 Boniface issued three major papal bulls, Clericis laicos, Auscultate filii, and the Unam sanctum. I will compare his stance to previous papal positions to address constancy and show that Boniface VIII was not a radical pope but a victim of circumstance.

7:45 - 8:00 p.m., HL 107

Mindy Nichols

Faculty Sponsor: Benedict Lowe

Title: Did Ancient Romans Love their Children? Infanticide in Ancient Rome

Abstract: Ancient Roman law codes suggest that parents practiced infanticide throughout the Empire's history. An analysis of Roman funerary tombs, however, indicates that parents loved their children. This paper examines a variety of complex reasons infanticide was practiced in ancient Rome, ranging from a desire to protect the family's financial interests to the hope that a wealthier family would find the child and provide it with a secure future. Infanticide appears to have been a method to limit family size in Ancient Rome.

8:15 - 8:30 p.m., HL 107

Jeffrey Sawyer

Faculty Sponsor: John Rector

Title: U.S. Interrogation and Detention of Enemy Combatants Since September 11, 2001: Making its Citizens Safer?

Abstract: There are thousands of men who have been detained illegally by the U.S since the beginning of the War on Terror. They have yet to be afforded basic rights granted under international law. Along with the denial of rights, many of these men claim to have been viciously abused and/or tortured. Torturing and abusing prisoners detained in the War on Terror has not made Americans safer, and is an unethical practice. This paper and presentation seeks to analyze whether orders of torture were given from the top and to break down the CIA's role in torture in past conflicts.

8:30 - 8:45 p.m., HL 107

Anthony Sutton

Faculty Sponsor: John Rector

Title: Cuban Health Care Since the 1990s

Abstract: When the socialist party took power in Cuba, it became a goal of the government to provide access and care to its citizens through means of universal health care system. To address the adequacy of health, this study focuses on health care both prior to and following the fall of the Soviet Union in the early 1990s by examining statistical health information in comparison to secondary sources. After the collapse of communism in the Soviet Bloc and its loss of trade partners, Cuba solved economic problems and improved the effectiveness of its health care by opening up to world trade.

8:45 - 9:00 p.m., HL 107

Jordan Wilde

Faculty Sponsor: Benedict Lowe

Title: Ancient Greek Hoplites and their Origins in the Homeric Period

Abstract: This paper argues that the origins and existence of Hoplites can be traced back to the Homeric period of Ancient Greece. It examines references to warriors in Homer's Iliad, the style and composition of armor and weaponry from archaeological digs, and artistic representations on vases.

9:00 - 9:15 p.m., HL 107

Joshua Woods

Faculty Sponsor: Kimberly Jensen

Title: Homeland Insecurity: United States and East German Internal Security Practices in the Cold War

Abstract: In the opening years of the Cold War, the United States and East Germany both pursued domestic espionage programs which violated the privacy and rights of their citizens. The heads of state of the United States and East Germany allowed their intelligence leaders to develop systems of domestic civil rights infractions in the late 1940s and early 1950s. An analysis of FBI documents will provide insight into the United States situation, allowing for comparison with East Germany's oft-vilified intelligence organization, the Stasi.

MATHEMATICS

Session Chair: Hamid Behmard

Session Title: Talks by the Mathematics Majors

Location: Werner University Center (WC)

Presentations

8:30 - 8:45 a.m., WC Willamette Room

Courtney Stowell

Faculty Sponsor: Hamid Behmard

Title: Circles and Ellipses in Taxicab and Chinese Checkerboard Geometries

Abstract: In this presentation we will define distance between points in both Taxicab and Chinese Checkerboard geometries. We will describe what circles and ellipses are in both of these geometries, and how these objects differ from their Euclidean counterparts. In particular, we will look at the analogue of π in both cases.

8:45 - 9:00 a.m., WC Willamette Room

Rosco Huebner

Faculty Sponsor: Hamid Behmard

Title: The Dam Proof, What the Hex?

Abstract: For those of you who love board games this presentation will definitely keep you entertained. The Game of Hex has been around for over fifty years and has proved to be a very entertaining for all ages and abilities. Come learn about the game of Hex and its application to game theory.

9:00 - 9:15 a.m., WC Willamette Room

Jason Bruggeman

Faculty Sponsor: Hamid Behmard

Title: A Party Worth Losing Your Hat

Abstract: Suppose that n guests come to a party and throw q categories of clothing into a pile on the floor. After the party, everybody leaves discombobulated and randomly picks up one of each categories of clothing from the pile. What is the chance no one gets his or her own clothing back? The problem is based on an old combinatorial problem known as "The Old Hat Problem".

9:15 - 9:30 a.m., WC Willamette Room

Andrew Pickett

Faculty Sponsor: Hamid Behmard

Title: Perfect Order Subsets in Group Theory

Abstract: The order of an element g in a group, is the smallest positive integer n such that gn is the identity of the group. An order subset is the set of all the elements in a group that have the same order. When the cardinality of every order subset divides the order of a group, we say this special group has perfect order subsets. A minimal POS group can be thought of as a "smallest" group with perfect order subsets. Through exploitation of some special numbers, we are able to generate a finite list of these minimal POS groups.

9:30 - 9:45 a.m., WC Willamette Room

Darrel Palke

Faculty Sponsor: Hamid Behmard

Title: Breaking Cryptology with Quantum Computing

Abstract: Quantum Compu... wait, are you still there? If so, come see how this theoretical idea could be the end to modern cryptology as we know it! Though Quantum Computing is still in its infancy, a day will come where all our data isn't safe! Be prepared and come to this talk.

9:45 - 10:00 a.m., WC Willamette Room

Kristal Temple

Faculty Sponsor: Maria Fung

Title: Singular Points on Planar Curves

Abstract: In this presentation we show examples of singular points on planar curves, and will describe both algebraic and geometric techniques for determining such singularities.

10:00 - 10:15 a.m., WC Willamette Room

Chris Mock

Faculty Sponsor: Mike Ward

Title: Arthur Cayley: The First paper on the Theory of Groups

Abstract: Arthur Cayley wrote the first paper on Groups theory in 1854. Cayley thought of finite groups as alternate sets of solutions to the symbolic equation $x^n=1$. We will discuss this point of view and other contents of his paper, including the formation of Cayley tables to view elements of the groups he worked with!

10:15 - 10:30 a.m., WC Willamette Room

Amanda Charlton

Faculty Sponsor: Hamid Behmard

Title: Steganography

Abstract: Cryptography, the practice of hiding information, is what many first think of when spoken to about secret codes. However, there are other options for secret codes. I chose to study Steganography; the practice of hiding information in such a way that no one outside of the system can tell that there is in fact a secret message. A famous example of a Steganography system is Simmons Prisoner Problem. My presentation will explain some of the mathematics involved in creating Simmons specific system, designation of a secret channel, and the transmission of a secret message.

10:30 - 10:45 a.m., WC Willamette Room

Elizabeth Burke

Faculty Sponsor: Hamid Behmard

Title: Solving Nim and Subtraction Sets

Abstract: Nim, sometimes called a "takeaway game", is a completely solvable game. The fate of the two players is already defined in which is known as a nimber sequence. The nimber sequence records winning moves for every position of a heap which eventually becomes periodic. With the use of subtraction sets we are able to not only find these winning and losing positions, but also find a formula that computes

the number sequence for any two element subtraction set and some three element subtraction sets.

10:45 - 11:00 a.m., WC Willamette Room

Kim Correll

Faculty Sponsor: Hamid Behmard

Title: Middle-alpha Cantor Sets

Abstract: Middle-alpha Cantor sets are formed on the real line between 0 and 1. Two of these sets intersect in a unique way at the golden ratio. This intersection only contains 0. The presentation explains why a small intersection is a remarkable result.

11:00 - 11:15 a.m., WC Willamette Room

Rosco Huebner, Chris Mock and Andrew Nerz

Faculty Sponsor: Mike Ward

Title: The Rubik's Cube

Abstract: Come learn about one of the world's most challenging puzzles, the Rubik's Cube. From cubies to the superflip, we will discuss how to display your cube in a mathematical form, while also teaching you basic moves on your cube.

11:15 - 11:30 a.m., WC Willamette Room

Meghann Barger

Faculty Sponsor: Hamid Behmard

Title: The Probability of Relatively Prime Polynomials

Abstract: We will be exploring polynomials where the coefficients come from finite fields, and their probability of being relatively prime. First we will explore $Z_2[x]$ where all coefficients come from the set $\{0,1\}$ and all arithmetic is done modulo two. Then we will explore polynomials from $Z_5[x]$ where the coefficients come from $\{0, 1, 2, 3, 4\}$ and the arithmetic is done modulo five.

MATHEMATICS

Session Chair: Cheryl Beaver

Session Title: Mathematics and Mathematics Education Poster Session

Location: Werner University Center (WC)

Posters

11:30 a.m. - 1:30 p.m., WC Pacific Room

Masaki Ikeda and Wesley Parker

Faculty Sponsor: Mike Ward

Title: Ludwig Sylow & His 3 Theorems

Abstract: The integers, rationals and real numbers under addition are infinite groups, while finite groups have a countable number of elements. For those interested in history, we have the biography of a Norwegian high school teacher, Ludwig Sylow, who changed the field of mathematics. For those interested in art, we have a hand-drawn portrait by

Christie Laird. For the mathematically inclined, we have three theorems, published in 1872, that changed finite group theory.

11:30 a.m. - 1:30 p.m., WC Pacific Room

Elizabeth Burke and Kim Correll

Faculty Sponsor: Mike Ward

Title: Simple Finite Groups

Abstract: A group whose only normal subgroups are the identity and the group itself are called simple groups. The largest (finite group) of these is called the "Monster," having an order of approximately 8×10^{53} . Simple groups are classified into what is known as the classification of finite simple groups, which was formed over time by many great mathematicians from Galois to Gorenstein.

11:30 a.m. - 1:30 p.m., WC Pacific Room

Rosco Huebner, Chris Mock and Andrew Nerz

Faculty Sponsor: Mike Ward

Title: The Rubik's Cube

Abstract: Observe a Presentation board explaining the inner workings of one of the world's greatest puzzles. Learn to solve by using a system of movements on your cube based on the cubes starting position. Learn how the cube itself is displayed in a mathematical form

11:30 a.m. - 1:30 p.m., WC Pacific Room

Amanda Charlton, Jenne Elston and Cassie-Ann Jacinto

Faculty Sponsor: Mike Ward

Title: Algebraic Coding Theory

Abstract: When your CD scratches why does it still play? We examined topics such as error detecting, error correcting, and decoding messages.

11:30 a.m. - 1:30 p.m., WC Pacific Room

Andrew Pickett

Faculty Sponsor: Mike Ward

Title: Gauss - the Greatest Mathematician of All Time

Abstract: Gauss is responsible for solely founding multiple fields in mathematics. Before he was out of school (college) he had thoroughly developed hyperbolic geometry, independent of Lobachevsky and Bolyai. His paper on "the celestial movements of heavenly bodies" created the study of orbits in space and remains a cornerstone of astronomy to this day. Gauss is also responsible for the first successful proof of the Fundamental Theorem of Algebra, which consolidated Number Theory as a discipline.

11:30 a.m. - 1:30 p.m., WC Pacific Room

Emily Cunningham

Faculty Sponsor: Cheryl Beaver

Title: Math Art from Clock Arithmetic

Abstract: Imagine that instead of a twelve hour clock, we had a six hour clock. Then, just like 1 hour after 12 o'clock it is 1

o'clock, on our six hour clock 1 hour after 6 o'clock it would be 1 o'clock. Writing this as an addition problem we'd have $6+1=1$. Similarly 3 hours after 5 o'clock on our six hour clock it would be 2 o'clock, or $5+3=2$. This poster shows how the unusual arithmetic rules that arise from a six hour clock can lead to some beautiful math art designs and symmetries.

MATHEMATICS

Session Chair: Michael Ward

Session Title: Pi Mu Epsilon Induction Ceremony

Location: Werner University Center (WC)

2:00 - 2:15 p.m., WC Willamette Room

Presenter: Wesley Parker

President, Oregon Delta Chapter, Pi Mu Epsilon

Title: Pi Mu Epsilon Induction Ceremony

2:15 - 3:45 p.m., WC Willamette Room

Invited Speaker: Maria Fung

Professor, Department of Mathematics, Western Oregon University

Title: Hamilton's Quaternions--A Brief Introduction

Abstract: In this talk we will discuss how Sir William Rowan Hamilton discovered the quaternions in his persistent attempts to calculate with "triplets." We will focus on the rich algebraic structure of the quaternions, from a real vector space to an associative non-commutative algebra. Finally we will exhibit an isomorphism from the quaternions of length one, which form a hypersphere in R^4 , to the special unitary group of matrices, $SU(2)$.

MODEL UNITED NATIONS

Session Chair: Mary Pettenger

Session Title: Model United Nations Mock Session

Location: Humanities and Social Sciences (HS)

10:00 -11:00 a.m., HS 112

Max Beach, Bre Chambers, Lance Cummins, Ryan Hale, Brandon Harris, Ligali Harruna, Melissa Lee, Chris Marsaglia, Jeff Sawyer, Ekaete Udosenata and Nikole Allen
Faculty Sponsor: Mary Pettenger

Title: Model United Nations Mock Conference

Description: The Model United Nations Club will hold a one-hour mock session/conference, discussing a current event with each student representing a different country. Observers will learn what Model United Nations Club members do at conferences.

MUSIC

Session Chair: Joseph Harchanko

Session Title: Student Recital

Location: Smith Music Hall (SM)

Performances

11:00 a.m. - 1:00 p.m.*, SM 121

Zack Taylor

Faculty Sponsor: Joseph Harchanko

Title: Shostakovich Cello Sonata

11:00 a.m. - 1:00 p.m.*, SM 121

Keeley Kennedy

Faculty Sponsor: Yvonne Hsueh

Title: "Flight of the Bumble Bee" - N. Rimsky-Korsakov

11:00 a.m. - 1:00 p.m.*, SM 121

Ashley Berry

Faculty Sponsor: Yvonne Hsueh

Title: Violin performance

11:00 a.m. - 1:00 p.m.*, SM 121

Karen Amonson

Faculty Sponsor: Tom Bergeron

Title: Flute Sonata - Paul Hindemith

11:00 a.m. - 1:00 p.m.*, SM 121

Jessica Henson

Faculty Sponsor: Tom Bergeron

Title: All of Me - Simons & Marks

11:00 a.m. - 1:00 p.m.*, SM 121

Dieter Rice

Faculty Sponsor: Tom Bergeron

Title: Lilith Mvt I - William Bolcom

11:00 a.m. - 1:00 p.m.*, SM 121

Brian Jones, Adam Bates and John Shaw

Faculty Sponsor: Tom Bergeron

Title: Joy of Spring - Clifford Brown

11:00 a.m. - 1:00 p.m.*, SM 121

Katey Bridge, Adam Bates and John Shaw

Faculty Sponsor: Tom Bergeron

Title: Peel Me A Grape - Dave Frishberg

11:00 a.m. - 1:00 p.m.*, SM 121
Erica Hall and Karley Herrick
Faculty Sponsor: Tom Bergeron
Title: Danny Boy (trad.)

11:00 a.m. - 1:00 p.m.*, SM 121
Angelina Boesch
Faculty Sponsor: Kevin Walczyk
Title: Horn Concerto No.4 - W.A. Mozart

11:00 a.m. - 1:00 p.m.*, SM 121
Carolyn Matthews
Faculty Sponsor: Diane Baxter
Title: Piano performance

11:00 a.m. - 1:00 p.m.*, SM 121
Karley Herrick
Faculty Sponsor: Diane Baxter
Title: Piano performance

11:00 a.m. - 1:00 p.m.*, SM 121
Chie Nakagawa
Faculty Sponsor: Diane Baxter
Title: Piano performance

11:00 a.m. - 1:00 p.m.*, SM 121
Karen Jepsen
Faculty Sponsor: Diane Baxter
Title: Piano performance

11:00 a.m. - 1:00 p.m.*, SM 121
Susie Strickler
Faculty Sponsor: Diane Baxter
Title: Piano performance

11:00 a.m. - 1:00 p.m.*, SM 121
Bethany Glasscock
Faculty Sponsor: Diane Baxter
Title: Piano performance

11:00 a.m. - 1:00 p.m.*, SM 121
Sam Benedict
Faculty Sponsor: Kevin Helppie
Title: Madamina il Catalogo e questo - W.A. Mozart

11:00 a.m. - 1:00 p.m.*, SM 121
Jessica Mullis
Faculty Sponsor: Kevin Helppie
Title: Der Holle Rache - W.A. Mozart

11:00 a.m. - 1:00 p.m.*, SM 121
Catherine Marinelli
Faculty Sponsor: Kevin Helppie
Title: Deh Vieni non Tardar - W.A. Mozart

11:00 a.m. - 1:00 p.m.*, SM 121
Dylan Jones
Faculty Sponsor: Kevin Helppie
Title: Ich Grolle Nicht - R. Schumann

11:00 a.m. - 1:00 p.m.*, SM 121
Sherry Alves
Faculty Sponsor: Kevin Helppie
Title: Weird Nightmare - Billy Strayhorn

** Exact times to be announced*

MUSIC

Session Chair: Joseph Harchanko

Session Title: Musicology Showcase

Location: Smith Music Hall (SM)

Presentation

1:00 - 1:30 p.m., SM 123
Amy Boudreau
Faculty Sponsor: Kevin Walczyk
Title: Tchaikovsky's Symphony No.6

Abstract: It is said that life imitates art but at times, art embodies life and all of the excitement and tragedy that comes along with it. This is the case with P.I. Tchaikovsky's Sixth Symphony, his final piece before his death. The Symphony No. 6 "Pathetique" is a snapshot, a brief glimpse into Tchaikovsky's world of passion, love, disappointment, and loss. During this lecture, his life will be explored and experienced through his music.

MUSIC

Session Chair: Joseph Harchanko

Session Title: New Music by Student Composers

Location: Smith Music Hall (SM)

Performances

2:00 - 3:00 p.m., SM 121

Student Composers and Times To Be Announced

MUSIC

Session Chair: Joseph Harchanko

Session Title: Technology Showcase

Location: Smith Music Hall (SM)

Presentations/Performances

3:00 - 4:00 p.m., SM 123

Scott Kingston

Faculty Sponsor: Joseph Harchanko

Title: Asymmetrical Speaker Design and Implementation

3:00 - 4:00 p.m., SM 123

Ronan Baker

Faculty Sponsor: Joseph Harchanko

Title: 5.1 Surround mix

3:00 - 4:00 p.m., SM 123

Jon Preston

Faculty Sponsor: Joseph Harchanko

Title: 5.1 Surround mix

3:00 - 4:00 p.m., SM 123

Jeremy Seick

Faculty Sponsor: Joseph Harchanko

3:00 - 4:00 p.m., SM 123

Stephen Pierce

Faculty Sponsor: Joseph Harchanko

Title: 5.1 Surround mix

3:00 - 4:00 p.m., SM 123

Patrick Cahill

Faculty Sponsor: Joseph Harchanko

Title: 5.1 Surround mix

PHILOSOPHY

Session Chair: Mark Perlman

Session Title: Philosophy Symposium

Location: Humanities and Social Sciences (HS)

Presentations

1:00 - 1:25 p.m., HS 336

Shane Hosea

Faculty Sponsor: Mark Perlman

Title: Quantum Mechanics and Free Will

1:30 - 1:55 p.m., HS 336

Sarah Meyer

Faculty Sponsor: Mark Perlman

Title: I'm Talking to Myself: The Argument for Skepticism

2:00 - 2:25 p.m., HS 336

Andrew Grimes

Faculty Sponsor: Mark Perlman

Title: Retribution and the Death Penalty

2:30 - 2:55 p.m., HS 336

Kurtis Drews

Faculty Sponsor: Mark Perlman

Title: The Cartesian Circle

3:15 - 3:40 p.m., HS 336

Lance Cummins

Faculty Sponsor: Mark Perlman

Title: Boethius vs. God's Foreknowledge of Human Actions

3:45 - 4:10 p.m., HS 336

Caitlin King

Faculty Sponsor: Mark Perlman

Title: Virtue Ethics

4:15 - 4:40 p.m., HS 336

Stephanie Mackey

Faculty Sponsor: Mark Perlman

Title: Liberty and Necessity

POLITICAL SCIENCE

Session Chair: Mary Pettenger

Session Title: Political Science Poster Session

Location: Werner University Center (WC)

Posters

11:30 a.m. - 1:30 p.m., WC Pacific Room

Sabrina Root

Faculty Sponsor: Mary Pettenger

Title: The Convention on the Prevention and Punishment of the Crime of Genocide

Abstract: The paper defines genocide and looks at the laws the Genocide Convention created. It examines the historical context leading up to the convention and creation of these new international laws. The last aspect of the paper analyzes the laws' overall effectiveness.

11:30 a.m. - 1:30 p.m., WC Pacific Room

Kaleen Flukinger

Faculty Sponsor: Mary Pettenger

Title: Women in War: The Portrayal of Women in Fictional Film and Novels

Abstract: War in fictional films and novels gives a civilian audience a glimpse into the lives of soldiers, enemies and those who are left at home. What about women in war? This paper focuses on the portrayal of women in war and how that has changed over time. Covering four wars: the Civil War, World War II, the Vietnam War, and Desert Storm; commonalities are found throughout showing shared themes regarding women. Though a woman's role has changed through each war, three themes are evident in each. First, women are portrayed as capable survivors. Second, women display a resilient strength. Finally, women can not escape war unchanged.

11:30 a.m. - 1:30 p.m., WC Pacific Room

Angela Kinslow

Faculty Sponsor: Mary Pettenger

Title: North Korea: A Nuclear Threat

Abstract: On Oct. 9, 2006, North Korea tested a nuclear device. The purpose of this paper is to explain why the nuclear test took place. An analysis looks at four crucial levels: individual, domestic, interstate, and global.

PSYCHOLOGY

Session Chairs: Lauren Roscoe and Chehalis Strapp

Session Title: Psychology Presentation Session 1

Location: Instructional Technology Center (IT)

Presentations

8:45 - 9:00 a.m., IT 211

Allison Dias-Garcia

Faculty Sponsor: Joel Alexander

Title: Racial Bias in Juries and Sentencing

Abstract: The purpose of this study was to look at the amount of racial bias in juries when deciding length of prison sentences. A synopsis of a crime case (armed robbery of a convenience store) was given to participants, after reading the case they were asked to decide a sentence for the defendant. There were four different defendants: White, Black, Asian, and Hispanic. The only differences between the cases given to the participants were given was the race of the defendant. On average the Black defendants were given the longest sentences (M=10 years, SD=1.21). White defendants were given the shortest sentences (M=4 years, SD=.89). The Hispanic and Asian defendants fell somewhere in between (M=6.5 years, SD=1.65). These results suggest that race does play a role in the decision of juries.

9:00 - 9:15 a.m., IT 211

Alisha Foster

Faculty Sponsor: Joel Alexander

Title: Effects of Positive and Negative Mood on Memory

Abstract: This study predicted that participants induced into a positive mood would perform better on a verbal recall task than those induced into a negative mood. The participants consisted of 20 undergraduate students, half male and half female, randomly assigned into either the positive or negative mood group. The study was a mixed design in which participants in each group were given a pre-test of verbal recall, induced into the desired mood, and then tested again for verbal recall. As expected, the positive mood group performed better on the post-test than the negative mood group. This research suggests that learning verbal material is impaired by negative mood.

9:15 - 9:30 a.m., IT 211

Jennifer Cox

Faculty Sponsor: Joel Alexander

Title: Effects of Motivation on Effort

Abstract: This research predicted that as motivation is manipulated, effort will change. Using a between-subjects design, 20 male and 20 female participants between the ages of 18 and 45 completed an advanced practice SAT test with questions including two grammar, two algebra, and two science passages from Peterson's Ultimate New SAT Tool Kit. The independent variables are the option of a hint to each question, and receiving candy upon having answered all questions correctly. The dependent variable is the amount of

total time spent working on the worksheet. Expected results: hint, reward > no hint, reward > reward, no candy > no hint, no reward. Implications from this study show that the more motivation one has, the more effort they extend.

9:30 - 9:45 a.m., IT 211

Ryan Alonzo

Faculty Sponsor: Joel Alexander

Title: Prior Victimization and Sentencing Time

Abstract: This study evaluated how relevant a perpetrator's past victimization is on sentencing time with the belief that the more the past victimization is known, the less the sentencing time will be. Forty participants, ages 18 to 25, both male and female, were administered a survey that described the charges of a male offender with a 1 to 10 Likert rating for how severe the sentencing time should be. A second survey was used that had the exact same story but also noted an incident of the perpetrator's past victimization. The results showed that the participants had more empathy for perpetrators when they were informed of the perpetrators past victimization. What these results show is that past victimization is an influential factor in how severely a criminal is punished for the same crimes.

9:45 - 10:00 a.m., IT 211

Kim Davis

Faculty Sponsor: Joel Alexander

Title: The Nose Knows

Abstract: This research predicted that females would be more capable than males at recognizing objects through only the sense of smell. Using a between subjects design, including approximately 10 females and 10 males that are Western Oregon University students, with an age range of about 18 to 45. Forty-five participants were assigned to their group, whether it was the five seconds to smell the scent or unlimited time. All scents were presented in identical containers for the blindfolded participant to smell. Other materials used were a stopwatch to time the participant and writing materials for recording their answers. The amount of correctly identified smells determined the higher recognition of smell. Females were found to have a higher recognition of smell than males, confirming the hypotheses.

10:00 - 10:15 a.m., IT 211

Jennifer A. Pastorino

Faculty Sponsor: Joel Alexander

Title: Divorce and the Perception of Relationships

Abstract: This study examined perception of divorce as a function of parental divorce. A between-subject design was used with 40 participants (20 females and 20 males) ages 18-30, half of whom had parents who divorced and half with parents that are still married. Participants were assigned to read a divorce scenario, both individuals have equal fault but the gender of the individual initiating the divorce changed across scenarios. Participants indicated the degree they believed each person contributed to the failure of the relationship. Results showed that participants with divorced parents believed one individual was more at fault than the other and perceived their opposite gender more at fault.

10:15 - 10:45 a.m., IT 211

Mia Broberg, Scott Brown, Courtney Earle, Samantha Farmer, Allison Fuller, Andrew Gilles, Ryan Gordon, Sarah Griffith, Alvaro Hernandez, Annika McMillan, Jennifer Mill, Robert Patterson, Erick Rivera and Anne Spalding
Faculty Sponsor: Chehalis Strapp

Title: The Effects of a School Based Mentoring Program on Academic Achievement, Organizational and Life Skills

Abstract: This presentation will provide an overview and discussion from the effects of the Western Oregon University-Talmadge Middle School mentoring program. Fourteen undergraduate students, including eight females and six males mentored at-risk middle school students for 6 months. Mentors and students developed individual goals and tracked progress across two terms. Results suggest that in addition to academic improvements, middle school students showed increases in organizational skills, and decreases in problematic behaviors including detentions. Implications for school based mentoring programs are discussed.

10:45 - 11:00 a.m., IT 211

Shannon M. Lettow, Nicolle M. Clemmer, Laci N. Allstot and Erin E. Machan

Faculty Sponsor: Kathy Thompson

Title: Healthy Human Attachment: How Much of What

Abstract: The purpose of this study was to examine the structure of attachment models. Participants (N = 364) responded to the Adult Attachment Scale, Relationship Questionnaire, Descriptions of Parental Caregiving Style, and Inventory of Parent Attachment. Cronbach's alpha showed good reliability for all scales. Analysis of scales measuring adult attachment for romantic partners indicated five components. Analyses of scales measuring memories and current perceptions of parents indicated four similar components for mothers and fathers consistent with previous literature. We found two factors, knowing-being-known and representations of parents eliciting emotions, which may have important implications on attachment. Further research is necessary for better understanding of the structure and development of healthy attachment.

11:00 - 11:15 a.m., IT 211

Tricia Brigham

Faculty Sponsor: Rob Winningham

Title: The Relationship between Patients' Self-Efficacy and their Effort Level and Improvement within a Physical Therapy Setting

Abstract: Millions of adults utilize rehabilitation therapy, but many of them do not maximally benefit from the therapy. There are personality attributes that can contribute to patients' effort and improvement, including self-efficacy. We measured the self-efficacy of 29 participants (17 males, 12 females, mean age 54.5) who attended physical therapy sessions. At the beginning of treatment, they were given a self-efficacy test. At the end of treatment, the therapist rated the patients' effort and improvement. The results showed that individuals with higher self-efficacy displayed more effort and improvement during therapy than those with low self-efficacy, $p < .001$.

PSYCHOLOGY

Session Chairs: Lauren Roscoe and Chehalis Strapp

Session Title: Psychology Keynote Speaker, Western Oregon University Psychology Student Association (WOUPSA) Club

Location: Instructional Technology Center (IT)

11:30 a.m. - 12:30 p.m., IT 211

Invited Speaker: Dr. John Edwards

Oregon State University

Psychology Keynote Speaker, WOUPSA Club

Title: Why Does It Matter if I Don't Know Why? Effects of Causal Uncertainty on Thinking, Behavior, and Life Outcomes

Abstract: Sometimes people come to doubt their ability to understand the causes of events, as in the case of a student who doesn't understand why he received a C on a test or a person who feels that she doesn't understand why a relationship ended. This state, called causal uncertainty, has been shown in numerous studies to affect people's judgments, moods, behavior, and health. This talk will describe the nature of causal uncertainty, how it develops, and its effects on people.

PSYCHOLOGY

Session Chairs: Lauren Roscoe and Chehalis Strapp

Session Title: Psychology Presentation Session 2

Location: Instructional Technology Center (IT)

Presentations

1:00 - 1:15 p.m., IT 211

Allison L. Meyer

Faculty Sponsor: Chehalis Strapp

Title: Foreign Vocabulary Learning: Keyword Method and Imagery Effects on the Recall of Foreign Vocabulary Words

Abstract: The keyword method used with images was expected to increase the recall of foreign language vocabulary words. This study tested recall of foreign vocabulary of 33 WOU students ages 18 to 43 ($M=22.76$, $SD=6.03$). Participants were shown word pairs, which included an English word and its foreign translation, and the two experimental groups were shown keyword sentences accompanied with an image. Participants recall of the word pairs was tested and results showed the keyword method produced significantly better scores compared to the control group. One-way ANOVA $F(2, 30)=15.03$, $p<.05$, $r^2=.50$. Results demonstrated the keyword method is effective for learning foreign vocabulary and can be used as a teaching method or study strategy.

1:15 - 1:30 p.m., IT 211

Danielle Bitz

Faculty Sponsor: Mary-Ellen Dello Stritto

Title: Student Needs: Preliminary Results from the Abby's House Survey

Abstract: Abby's House: Center for Women and Families collected data from students during the Fall Term 2006. Students were asked if they (or a friend) needed information about 20 issues such as: relationships, depression, date rape, and financial stress. They were asked to respond to the following: 1) the importance of having services available, 2) their awareness of Abby's House, 3) if they would consider visiting, and 4) if they thought there was a better location. This presentation will highlight the issues that students reported as most important and what services are most needed. Finally, it will include a comparison of different types of students.

1:30 - 1:45 p.m., IT 211

Chris Martinez

Faculty Sponsor: Joel Alexander

Title: Tattoos: Influences on Short-term Dating Potential

Abstract: The present study evaluated if the presence of body art can significantly influence short term dating preferences in a variety of individuals. Participants included 40 subjects who are students at Western Oregon University (ages 18-24). Short-term dating preferences for potential partners with the presence, absence, or concealment of body art was manipulated. Qualities of profiles were also manipulated. Males reported higher levels of attraction to potential partner's displaying body art in the photo portion of the profile, whereas females reported higher levels of attraction to higher quality profiles of the potential partner, regardless of the presence of body art.

1:45 - 2:00 p.m., IT 211

Ian Molay

Faculty Sponsor: Joel Alexander

Title: Perceived Childhood Attachment and Collegiate Relationship Satisfaction

Abstract: This study aims to identify the relationship between perceived childhood attachment and emerging adulthood relationship satisfaction. Using a between subjects design, sixty participants, including 30 females and 30 males were randomly assigned to control groups and asked to rate their levels of attachment in childhood. Based on random assignment, participants were given one of three attachment stories ranging from secure to avoidant. Participants were then asked to report their levels of attachment in adulthood via the Experiences in Close Relationship-Questionnaire (ECR-R). A relationship was identified between secure-attachments in childhood and overall relationship satisfaction in adulthood. Results suggest that levels of attachment can act as a predictor of relationships in emerging-adulthood.

2:00 - 2:15 p.m., IT 211

Deborah Van Hook

Faculty Sponsor: Joel Alexander

Title: Gender and the Presence of Alcohol as Determining Factors in Rape Blame

Abstract: This study investigated differences in victim rape blame by gender and the presence of alcohol. Twenty undergraduate volunteers read one of two date-rape scenarios in which all aspects were identical except for the presence of alcohol. Participants completed a questionnaire determining blame attribution toward the victim by males versus females in relational to the presence or absence of alcohol (a 2 x 2 between-subjects design). Results indicated that males placed more victim blame than females and that both sexes placed more victim blame when alcohol was present. These findings provide insight in terms of implications for emotional recovery of rape victims.

2:15 - 2:30 p.m., IT 211

Ashley Dimeo

Faculty Sponsor: Joel Alexander

Title: Face recognition: Variance created with biological sex and education level

Abstract: For this study education level, biological sex, and television exposure were expected to greatly affect one's ability to accurately identify well-known faces with names. Approximately 30 students participated, age ranging between 18 and 30. Males with less education identified less famous females, than females with more education. This study was designed to test each individual's ability to correctly identify 66 famous faces when presented with false or real names. The pictures contained faces only, cutting out any defining characteristics such as hair, body type, or clothing style. Results indicate that male students of any education level correctly identified fewer women faces than women of any education level.

2:30 - 2:45 p.m., IT 211

Eddie Rayhel

Faculty Sponsor: Joel Alexander

Title: The Effects of Obesity on Employability

Abstract: This research predicted that thinner applicants would be recommended for hiring more often than obese applicants. Using a within-subjects design 2(reception versus accounting) x 2(thin versus obese), subjects, including 13 males and 17 females were randomly assigned to read a job description and resume, a photo of each applicant was also included. Subjects were asked to rate applicants on a Likert scale of 1 being unlikely to 5 being very likely to recommend for hiring. As expected, the thinner applicant was recommended for hiring more often than the overweight individual. These findings have important implications for a society currently experiencing a rise in the prevalence of obesity.

2:45 - 3:00 p.m., IT 211

Kalie Long

Faculty Sponsor: Joel Alexander

Title: The Effects of Odor and Techno Music on Memory with Word Recall

Abstract: This study investigated the power of scent and music on memory performance. My hypothesis was that those exposed to scent and fast techno music would do better on the free recall vocabulary test. Sixty university students participated. Apple cinnamon was the odor used. The music options: no music, slow techno 70 to 90 BPM (beats per minute) and fast techno 140 to 160 BPM. Data was measured through word recall from a 40 word list. Results indicated participants in the scent group achieved better recall test scores than those who were not exposed to scent. However, the scent and techno beat group had lower scores than the scent and no techno beat group. Results indicate apple cinnamon scent did affect memory performance through word recall.

3:00 - 3:15 p.m., IT 211

Sean Morris

Faculty Sponsor: Joel Alexander

Title: Differences in Comprehension between Hardcopy and Computer Monitor Reading.

Abstract: The present study explored students' reading comprehension on either computer monitor or hardcopy conditions. The researcher expected scores on the hardcopy condition would be higher than that of the computer monitor condition. The study consisted of 40 college age students of which 28 were female. The researcher used a 2X2 mixed design where the reading comprehension test was within and the reading medium was the between subjects variable. The results showed that reading comprehension scores of hardcopy mediums were higher than that of computer monitor mediums. The results could lead to institutions revamping the way standardized test are given.

3:15 - 3:30 p.m., IT 211

Kayla Callahan

Faculty Sponsor: Joel Alexander

Title: **The Influence of Racism and Sexism Authoritarianism**

Abstract: This research investigated the effects of racism and sexism on authoritarian personalities. The participants consisted of 45 subjects, mixed in gender and ranging in ages from 18 to 35. Subjects were randomly assigned to an exposure of either racist, sexist, or no samples. The results indicated that both racism and sexism had a positive increasing effect on authoritarian personality scores. In regards to sexist samples, the results showed that they had a stronger increasing affect on authoritarian scores than racist samples. Thus the research indicated that environmental variables have an increasing effect on authoritarian personalities.

3:30 - 3:45 p.m., IT 211

Sarah Griffith

Faculty Sponsor: Joel Alexander

Title: Perception of College Attendance and Completion Based on Race and Socio-Economic Status

Abstract: This study investigates people's perception of college attendance and completion based on race. It is hypothesized that those who view headshots of people of color will yield more biased answers on the questionnaire. Forty people of mixed age, race, and gender participated in this study. Twenty viewed four headshots and read a scenario that accompanied each photo. They were then given a series of questions on college attendance and completion. Another twenty were simply given the scenarios to read; no photos were shown. They were given the same questionnaire as the first group. Results showed that those who viewed headshots tended to have more negative opinions about who attended and completed college.

3:45 - 4:00 p.m., IT 211

Carli Stewart

Faculty Sponsor: Joel Alexander

Title: Physical Disability and Future Employment

Abstract: Since the inception of the American's with Disabilities Act, much attention has been devoted to creating equal opportunities for persons of differing physical capabilities. This study seeks to determine if having a physical disability causes an individual to be deemed less employable than able-bodied peers by future employers. Participants will include university students. Participants will score employment applications, each with varying severity of the applicant's physical disabilities, as well as score how attractive each candidate would be for employment. It is anticipated that participants will score candidates with a minimal physical disability as being more attractive for employment than those with more profound disabilities.

4:00 - 4:15 p.m., IT 211

Lisa Russell

Faculty Sponsor: Joel Alexander

Title: How Physical Attractiveness Can Impair Judgment

Abstract: The research conducted in this study predicted that males and females would give a prison sentence of more time to unattractive photos than to attractive photos, with males showing a greater bias than females. Using a Mixed-subjects design, 20 males and 20 females read 3 similar crime scenarios each about the opposite sex (attractive, unattractive, without) where the defendant was already guilty. The participant was asked to decide how much time should be served in jail by the criminal. Unattractive photos received a longer prison sentence, and males gave longer prison sentences to females than females to males.

4:15 - 4:30 p.m., IT 211

Scott Brown

Faculty Sponsor: Joel Alexander

Title: Gender Differences in Perceived Taste of Soda Brands

Abstract: This study looked at the preference of soda brands even when the actual drink was identical. It was hypothesized that both males and females would prefer Coca Cola and Pepsi over Shasta cola. There were 36 (19 female, 17 male) college student participants (mean age 22, SD=2.1). Seventy-three percent were regular Coca Cola drinkers. Participants rated three drinks of soda that were identical but were labeled Coca Cola, Pepsi, or Shasta, after each drink they were rated 0-10. Results showed that both males and females preferred Coca Cola over Shasta but there were no other significant findings. More research needs to be done to see if there is a difference between male and female preferences.

4:30 - 4:45 p.m., IT 211

Morgan Hutmacher

Faculty Sponsor: David Foster

Title: Psychology Practicum at WOU

Abstract: Practicum in Psychology is available to juniors and seniors admitted to the program who want to take their learning outside of the classroom. Practicum is typically four credits, with 30 hours of work for each credit hour during the quarter expected. Students can choose a range of practicum sites. This presentation is to inform WOU students of one of the possible experiences they might encounter during their practicum. I have been doing my practicum at an elementary school in Salem, Oregon. My duties have included but were not limited to: helping the school counselor, leading small groups, and mentoring children.

PSYCHOLOGY

Session Chairs: Lauren Roscoe and Chehalis Strapp

Session Title: Psychology Poster Session 1

Location: Werner University Center (WC)

Posters

9:00 - 11:00 a.m., WC Pacific Room

Casey Circle

Faculty Sponsor: David Foster

Title: Effects of Video Game Violence on Aggression

Abstract: This study examined the effects of violent video game play on aggression. It was hypothesized that playing violent video games would cause an increase in negative mood, and non-violent game play would show the opposite. Participants were 35 college students. Nineteen were male and 16 female. Participants completed a scale of their current mood before and after game play. They were assigned to play a violent or non-violent game on an XBOX360 console. Results showed a significant difference from pre to post conditions. These results show that violent video game play does have an effect on mood.

9:00 - 11:00 a.m., WC Pacific Room

Kathryn Windish, Kim Gagznos and Yesenia Lopez-Duran
Faculty Sponsor: David Foster

Title: The Effects of Mozart and Expectancy on Spatial Reasoning

Abstract: Previous research has shown that exposure to Mozart increases spatial ability. Other research speculates that this increase is related to participants' beliefs that exposure to Mozart should enhance their abilities. This study examined the effects of both Mozart and positive reinforcement on spatial reasoning. Using a 2X2 factorial design, data were collected from 40 university students. Participants were assigned to one of four conditions, Mozart, positive reinforcement; Mozart, no reinforcement; no Mozart, positive reinforcement; no Mozart, no reinforcement. The results showed that exposure to Mozart significantly enhanced spatial abilities ($F=3.27, p<.08$). There were no significant main or interaction effects for reinforcement.

PSYCHOLOGY

Session Chairs: Lauren Roscoe and Chehalis Strapp

Session Title: Psychology Poster Session 2

Location: Werner University Center (WC)

Posters

2:00 - 4:00 p.m., WC Pacific Room

Jennifer Johnson
Faculty Sponsor: David Foster

Title: Determining the Effects of Gender Stereotypes on Political Behavior

Abstract: Previous research suggests that men and women candidates are evaluated differently based on voters' preconceived gender bias. This experiment examined whether voters attached preconceived gender stereotypes to their evaluation of political candidates' qualifications. It was hypothesized that candidate gender would influence a participant's candidate preference. Data were collected from 37 participants, ages 18 to 26 years old. Participants indicated their candidate preferences in four hypothetical political races. The results showed no effects of candidate gender on participants' candidate choice ($F = .08, p >.05$). Implications are discussed.

2:00 - 4:00 p.m., WC Pacific Room

Benjamin C Fenison, Kimberlee Wymore, and Lauren Young
Faculty Sponsor: David Foster

Title: The Effect of Dissonance on Negative Emotions

Abstract: This study measured negative emotions in response to a negative stimulus using 22 undergraduate participants. The purpose of the study was to reduce negative emotional responses by attempting to produce dissonance. It was hypothesized that the dissonance group would report lower levels of negative emotion, opposed to the no-dissonance group. Participants read an anger-provoking scenario, and

then rated their emotional response. Findings showed no significant differences in negative emotions between both groups. Results were attributed to chance and believed to be caused by a lack of dissonance produced in the experimental group. Further research is needed to directly produce dissonance.

2:00 - 4:00 p.m., WC Pacific Room

Courtney Earle and Erick Rivera
Faculty Sponsor: David Foster

Title: The Effect of Misinformation on Memory Recall

Abstract: This study examined the effects of misleading questions on memory. Specifically, we examined how questioning would effect recollection of a previously viewed scene. We hypothesized that participants exposed to misleading questions would report more false memories than participants exposed to non-misleading questions. Data were collected from 40 undergraduate students ranging from 18 to 43 years old. Participants were shown a picture of a typical medical examination room were presented either misleading questions or non-misleading questions, and then asked to recall what items were in the picture. The results showed that participants exposed to misleading questions reported more false memories ($F=7.148, p<.01$).

2:00 - 4:00 p.m., WC Pacific Room

Debra Anderson
Faculty Sponsor: David Foster

Title: Expressive Drawing and Stress

Abstract: This study focuses on the negative impacts stress has on early adults. It was hypothesized that expressive drawing would reduce anxiety levels. Convenience sampling and random assignment was used. An informed consent and demographics forms were completed. The control group drew a non-expressive drawing, and the experimental group drew an expressive drawing. When 10 minutes of drawing time was up, participants completed a State Anxiety form, then were given a debriefing form. The mean score for the experimental group on the anxiety scale was 2.06, with the control at 1.4 ($F=6.024, p=.027$). The hypothesis was not supported and future experiments should modify the study.

2:00 - 4:00 p.m., WC Pacific Room

Samantha Farmer
Faculty Sponsor: Chehalis Strapp

Title: The Triggers of Jealousy and Related Emotions Observed After Exposure to Implied Infidelity

Abstract: This study investigates the implications of implied infidelity on a person's emotions. Situations with more evidence of implied infidelity was expected to elicit higher amounts of negative emotions than in situations involving innocuous interactions. The thirty-five participants ranged in age from 18 to 44, including 24 females and 11 males. The participants were randomly assigned to either the control or experimental situation and given the Emotional Word Scale. Independent samples t test confirmed the study hypothesis, showing a lower mean score for the experimental group compared to the control group. This information is very

useful in studying why people are affected emotionally by infidelity.

2:00 - 4:00 p.m., WC Pacific Room

Mia Broberg and John Jones

Faculty Sponsor: David Foster

Title: The Effects of Music on Attention

Abstract: This research was trying to find the effects of music on one's ability to concentrate on cognitive tasks. Our hypothesis stated that listening to pop music, due to the lyrics and style, would create more distraction than classical music or silence while performing cognitive tasks such as the Stroop Test. Participants included 30 undergraduate students from Western Oregon University: 21 women, and nine men. The Stroop Test was administered while participants were in the presence of pop music, classical music, or silence. Further research should be considered to study limitations on noise during performance on cognitive tasks.

SOCIOLOGY

Session Chair: Dean Braa

Session Title: Research and Praxis in Sociology

Location: Humanities and Social Sciences (HS)

Presentations

8:30 - 9:00 a.m., HS 235

Faculty Presenters: Dean Braa, Maureen Dolan, Peter Callero

Title: Introduction to WOU Sociology

9:00 - 9:15 a.m., HS 235

Nicole Shelton

Faculty Sponsor: Dean Braa

Title: The Unique Characteristics of Rural Poverty in Oregon

Abstract: Our nation has experienced a permanent restructuring of the economy. We have undergone a shift from an economy dominated by manufacturing to one dominated by the service sector. The decline of jobs can be felt in central cities and rural areas. This study aims to explore the causes and forms of rural poverty. Often times rural areas lack economic diversity and rely on a limited number of industries. Many rural regions in Oregon rely on natural resource industries such as agriculture and timber. This can result in limited job advancement and makes rural employment more vulnerable to market forces and industrial restructuring. One of the goals of this research is to explore how global forces affect the unique characteristics of rural poverty in Oregon.

9:15 - 9:30 a.m., HS 235

Heather Peasley

Faculty Sponsor: Maureen Dolan

Title: From Grassroots to Legal Reform: A Social Movement against Sexual Assault

Abstract: This is a case study analysis of how the Marion County Victim Assistance program has served as a grassroots/social movement that advocates for legal reform and social consciousness in confronting the crime of sexual assault. The methodology includes interviews of (4) Marion County District Attorney's and (4) Victim Assistance advocates in order to establish an understanding of the institutional changes, and the consciousness of legal professionals and advocates. Also included are (89) surveys of Western Oregon University students from (3) distinct classroom settings in order to provide a measure of the social consciousness of the issues among college educated youth.

9:30 - 9:45 a.m., HS 235

Title: Discussion on Student Research Papers

9:45 - 10:00 a.m., HS 235

Laura Brown

Faculty Sponsor: Peter Callero

Title: Hegemony, Dissent, and the Corporate Media: A Critical Examination of Media Discourse on Trade Liberalization

Abstract: This study applies Edward S. Herman and Noam Chomsky's 'propaganda model' (PM) to the New York Times coverage of the debate leading up to the passage of NAFTA and CAFTA. The research asks whether the media discourse reflected the interests of political and economic elites, and if the presentation of the coverage was hegemonic. In addition, this study tests the flexibility of the PM by assessing if, or how, the media discourse dealt with growing dissent on these types of trade agreements.

9:45 - 10:00 a.m., HS 235

Jennifer Zimmerman

Faculty Sponsor: Dean Braa

Title: Gender Bias in the Diagnosis of Depression

Abstract: A consistent finding throughout the research on depression is the higher prevalence of certain forms among women. This suggests a possible gender bias in the diagnosis of depression. Different theories have developed across different disciplines to try to explain these unequal depression rates. This study will first provide a brief overview of the major biological, psychological and social theories on this topic. Qualitative data collected through in-depth interviews with mental health professionals/educators and females diagnosed with depression, has been collected as a means of provisionally identifying gender bias in the process of diagnosis. Special attention is given to the instruments used to diagnose depression, the presentation of male and female symptoms, and the gender differences in patient load.

10:15 - 10:30 a.m., HS 235

Title: Discussion on Student Research Papers

10:30 - 10:45 a.m., HS 235

Tiffani McCoy

Faculty Sponsor: Dean Braa

Title: Contradictions in Oregon Business Tax Incentives and Economic Development

Abstract: A growing number of Oregon corporations have been paying the minimum state tax of ten dollars set in 1931. In the last two decades Oregon has experienced several economic recessions, coupled with periods of high unemployment. In response, the State of Oregon implemented several forms of business tax incentives and earmarks which had the goal of attracting and retaining corporate investment. In fact, these neoliberal incentives were promoted as the necessary means of promoting economic growth. Unfortunately, many of the recipient corporations have implemented downsizing and outsourcing of jobs which has helped to deindustrialize the Oregon economy. This study will document this growing contradiction.

10:45 - 11:00 a.m., HS 235

Elizabeth Miller

Faculty Sponsor: Peter Callero

Title: Social Class in Child Rearing and the School System

Abstract: Prior research has shown a link between a child's social class and their achievement level. This study asks whether or not there is a teacher bias against students from poor and working class families. Data was collected using participant observation and a survey of teachers in an elementary school. The findings are consistent with prior research in that there is a bias against students from a poor and working class families and that there is a negative correlation to the child's achievement level in the classroom.

11:00 - 11:15 a.m., HS 235

Title: Discussion on Student Research Papers

11:15 - 11:30 a.m., HS 235

Faculty Presenter: Peter Callero

Title: The Struggle for Identity in a Time of Globalization

11:15 - 11:30 a.m., HS 235

Faculty Presenter: Maureen Dolan

Title: New Directions in the Latino Mentor Program

SPECIAL EDUCATION

Session Chair: Elisa Maroney

Session Title: ASL / English Interpreting

Location: Werner University Center (WC)

Presentations

9:00 - 9:30 a.m., WC Calapooia Room

Jennifer Ezzell

Faculty Sponsor: Elisa Maroney

Title: Posting Assignments to the Web

Abstract: Technology is expanding all walks of life, including Interpreting. One way I have found to keep track of all my work and videos needed for the ASL/English interpreting program was to post my work onto my school website. This presentation will show how to save documents and video to your personal school website. I will describe how to save the video to your computer and then post it to the website. I will also show how to access the school computers from home so that you do not have to be on campus to create the site.

9:30 - 10:00 a.m., WC Calapooia Room

Audrey Ramirez-Loudenback

Faculty Sponsor: Elisa Maroney

Title: Adding Technology to an Interpreting Student's Tool-Belt

Abstract: Combining technology, creativity and professional development: Using my WOU Web site, Dreamweaver and Flash I was able to submit my course work in the form of images, videos and documents electronically, in an easy to use format. This also included a term long translation project, in which anyone can view my progress in each phase of this project. Creating a webpage gave me the opportunity to view myself as an emerging professional within this field and to utilize some of my creative and artistic skills.

10:00 - 10:30 a.m., WC Calapooia Room

Crystal Burford

Faculty Sponsor: Elisa Maroney

Title: Translation Project Process and Results

Abstract: This presentation will show the process of coming up with translations of an English source into ASL and an ASL source into English. I will show the thought process in preparation of the translation, as well as the different steps and drafts that led to the final translation. The translation process will show the ways that we transferred the meaning of the original sources into the target language - including dealing with the use of idiomatic language use in the source language.

11:00 - 11:30 a.m., WC Calapooia Room

Elizabeth Bowling

Faculty Sponsor: Elisa Maroney

Title: Life, Growth, & Service in Community

Abstract: In 2007, I joined the WOU Amnesty International Club for a service-learning project. Through my service, I learned to be active in making the relationships and functions of community flow smoothly and become stronger, which involves being intentional, disciplined, and committed. I realized the value of listening to others' ideas and of sharing my own, thus partnering together. These are valuable lessons to me as a student and as a future professional. I am continuing to serve today because I want to keep learning and because I believe it is important to be committed to actively participate in my communities.

11:30 a.m. - 12:00 p.m., WC Calapooia Room

Melody Wilson

Faculty Sponsor: Elisa Maroney

Title: Self Care for Interpreters

Abstract: Maintaining a balanced lifestyle is a desirable and necessary goal to support individuals working as professional interpreters. A balanced lifestyle is complex, marked by choices composed of many daily decisions including proper nutrition choices, making time in your schedule for exercise, utilizing stress management tools for a healthy mental and emotional state, and interactions with colleagues who are part of your support system. As the interpreter prepares for their assignments each day, allowing time and attention to one's self care will enhance and support their overall health and professional success.

SPECIAL EDUCATION

Session Chair: Elisa Maroney

Session Title: ASL / English Interpreting

Location: Werner University Center (WC)

Poster

11:30 a.m. - 1:30 p.m., WC Pacific Room

Robyn Dalke

Faculty Sponsor: Elisa Maroney

Title: Gendered Language Use: An Important Aspect of Interpreting

Abstract: In this poster session you will see how gender can influence an interpreter's sign and word choice during an interpretation. Different gender's use of fillers, vulgar language, and lack of, or use of politeness, will be discussed as well. Once gender differences are identified, interpreters can then apply this knowledge to their work; creating a more equivalent interpretation.

STUDY ABROAD

Session Chairs: Michele Price, Terry Gingerich, Daryl Thomas and Ann Bliss

Session Title: The International Experience - Foundation for Personal and Educational Transformation

Location: Werner University Center (WC)

Presentations

1:00 - 1:20 p.m., WC Columbia Room

Connor Rapkoch

Faculty Sponsor: Michele Price

Title: Making My World Bigger: An Internship in South Africa

Abstract: For ten weeks I worked as an intern for the Institute for Democracy (Idasa) in Pretoria, South Africa. During my internship I was assigned to a project examining excessive levels of violent crime in two post conflict countries in Africa: Mozambique and South Africa. I was given the opportunity to travel to several different provinces within South Africa as well as spend a week in Mozambique, meeting with stakeholders in the Mozambican security sector. In my presentation, I will describe my experience in Africa and how my time abroad benefited me personally, professionally, and academically.

1:20 - 1:40 p.m., WC Columbia Room

Emily Cardoza

Faculty Sponsor: Michele Price

Title: Contradas of Experience: My International Education

Abstract: During spring term 2007, I studied abroad in Siena, Italy. Using photographs and passages from my study abroad capstone project, I will highlight outstanding moments and demonstrate how my study abroad experience was truly life changing. I am particularly excited to share how my new perspectives have caused me to look at the world differently and how that will help me as a social studies educator.

TEACHER EDUCATION

Session Chair: Susan Griffin

Session Title: College of Education - Division of Teacher Education

Location: Education (ED)

Presentations

9:00 - 9:15 a.m., ED 217

Angela Halsne

Faculty Sponsor: Linda Cress

Title: Teaching Ecosystems in an Interactive Setting

Abstract: Ecosystems and differing habitats exist all around us. In a third grade classroom this concept can be difficult to comprehend unless they experience it first hand. Students were given the opportunity to graph information, simulate natural occurrences through engaging activities, and investigate their own playground for signs of life. This unit focuses on oceans, rainforests, ponds, grasslands, tundra, and deserts. At the elementary level these ecosystems are fascinating, especially when the students participate in their own discoveries. I will discuss and demonstrate some of these interactive approaches and hope to inspire ideas that are useful while working with students in the classroom.

9:20 - 9:35 a.m., ED 217

Adair Wolf

Faculty Sponsor: Linda Cress

Title: Earth in Space

Abstract: I will be presenting my term III work sample, which I created specifically for my 4th grade classroom. It involves hands-on inquiry lessons that make learning memorable.

9:40 - 10:00 a.m., ED 217

Jacinta Hyskell and Stephanie Gutierrez

Faculty Sponsors: Chloe Myers and Linda Cress

Title: Simple Machines

Abstract: This simple machines unit was design with the learning needs of English Language Learners of all language proficiency levels specifically in mind. Each lesson implemented ESOL methods and strategies to help make real life connections with academic language and allow for a hands-on learning experience. Along with the needs of ELLs, learning strategies and integration of the multiple intelligences were implemented to ensure a learning connection for all students. To further the connection literacy was integrated throughout the unit in the form of science journals. Students preformed tasks then wrote in journals about investigations and personal learning experiences from that day.

10:05 - 10:30 a.m., ED 217

Jeff Roberts, Claire Carpenter, Sarah Krebs, Stephanie Phillips and Byron Bethards
Faculty Sponsor: Brynn Carter

Title: After School Programs

Abstract: Our Presentation is on the benefits of having after school programs (ASP). We have statics and skits to show the differences of being in an ASP. We show how children can progress their skills in a creative environment and how children use their skills in the wrong manner. At the end, we have a song that we perform about a girl in an ASP.

10:35 - 10:50 a.m., ED 217

Jennifer Schulze

Faculty Sponsor: Sue Dauer

Title: The Impact of a Critical Literacy Study in First Grade

Abstract: A friend once said that certain events can change the way we see things in the same way that the patterns of color and light are changed in a kaleidoscope. If you look through one and give it a little tap, things will look completely different. This project has been a kaleidoscope tapping experience for me. My original question about whether participating in a critical literacy study would enhance my student's engagement with text seems miniscule compared to the growth that I experienced as a teacher throughout the project. When I look through the kaleidoscope of my classroom now, my view has been tapped. I'm seeing things in a completely different way.

1:00 - 1:15 p.m., ED 217

Rehab Hassan Alfakih

Faculty Sponsor: Denvy Saxowsky

Title: Culture and Emotion

Abstract: Emotions are a part of human nature and all cultures on the earth have a similar set of basic emotions. However, each culture has a unique way of expressing emotions and the emotions shown in a particular culture reflects the norms, values, practices, and language of that culture. All people of different cultures must learn to deal with different emotions in different cultures. While many of international students study in the Unites States universities, they do not take any classes about dealing with another culture's emotions. As a result, international students in the United States universities have some difficulties dealing with other culture's emotions because they do not have a good understanding about the difference in cultural emotions.

1:20 - 1:35 p.m., ED 217

Ismaiel Almuhaithief

Faculty Sponsor: Denvy Saxowsky

Title: Changes in Organizational Culture in Initiatives: Implementing Sociotechnical Systems to Manage Knowledge

Abstract: Managing knowledge in organizations became a crucial factor for success, especially in initiatives or new organizations. This is a result of the rapid growth of data, information and human experience. Technology habitually

prevents people to contribute what they know and what they have learned. In this presentation, a model will be identified and explained to combine the two important elements which are people (social element) and technology (technical element). These elements produce what called SocioTechnical System. The goal of this model is to make a positive impact in initiatives by using sociotechnical concept to manage knowledge.

1:40 - 1:55 p.m., ED 217

Weiwei Zhang

Faculty Sponsors: Mary Bucy

Title: The Use of Electronic Dictionaries Among ESL Learners

Abstract: This project explores how EDs are used by English as second language learners. It is intended to help educators understand how students use EDs in second language acquisition in order to make English language learning more effective. Technology is meant to help people to learn better and to have a more efficient life. It is more like an assistant to support people to do better. But the human brain processes information in a certain way, and the memory system will not be changed by outside technology. It is important for all ESL students to discover a way that is the most efficient for them to learn English. Goals, motivation, environment, interests... many elements should be considered.

2:00 - 2:15 p.m., ED 217

Ying Cui

Faculty Sponsor: Denvy Saxowsky

Title: Evaluation of Rosetta Stone (English Edition) for ESL Students

Abstract: I propose to present the evaluation of Rosetta Stone (English edition) which is a tutorial software for tutoring Non-native English Learners. The mission of ESL courses is designed to basically reinforce and improve English language skills and help students prepare for TOEFL/IELTS tests in order to meet the admission requirements of academic programs at WOU. For each level of the ESL courses, students receive five hours of instruction every day. However, they have a strong desire to practice more to advance after that. In order to help these students, I have evaluated tutorial software that they can use individually in addition to their ESL class.

2:20 - 2:35 p.m., ED 217

Allison Carman

Faculty Sponsor: Mark Girod

Title: Building Math Confidence in Second Grade Girls: An Action Research Approach

Abstract: It is worrisome that a disproportionate amount of girls in comparison with boys, display negative attitudes towards math and exhibit wavering confidence and understanding. More alarming is the early age that girls begin to express dislike or a sense that they are "bad at math." This action research study focuses on developing strategies to help girls build math confidence and understanding in a mixed second and third grade classroom. Small group work, in-

creased math work periods, pre-exposure to material covered in whole group settings and concentration on basic number sense, influenced a dramatic change in their math attitude and confidence.

2:40 - 2:55 p.m., ED 217

Fran Hossfeld

Faculty Sponsor: Mark Girod

Title: Assessing to Support Student Growth and Effort in a K/1 Classroom

Abstract: Most teachers strive to get their students to do their best work and to be self-motivated, and as a K-1 teacher, I am no exception. Students are often unaware of the progress or lack of progress they have made over time because assessing is normally left to the teachers alone. Over the past six months, I have encouraged my 17 K-1 students to become aware of their academic growth and motivated to do their best work by facilitating student self-assessment, providing students with exemplars and individualized goals. Students have felt pride in meeting their individual goals and they have become confident in the work they turn in without needing teacher approval. They have learned to work with a specific goal in mind and check to see that they have met that goal before saying, "I'm done!" The results of my action research show that students as young as five to seven years old can do their best work and be self-motivated when teachers share assessment goals and outcomes with their students.

3:00 - 3:15 p.m., ED 217

Laurel Glasmire

Faculty Sponsor: Mark Girod

Title: Self-Reliance in Mathematical Problem Solving in a Second and Third Grade Classroom

Abstract: In teaching at Arbor School, I noticed a lack of self-reliance in my second and third grade mathematics classroom. In response to this situation I modeled, and the students practiced, problem solving strategies to which they could turn when confused. By making self-reliance a buzz word of the classroom and asking students to slow down their math process to identify their strategies, I noticed a change in student behavior. My students are able to produce more organized representations of their math thoughts, use classroom checklists and their own ingenuity when stuck, and enjoy doing a problem completely on their own.

3:20 - 3:35 p.m., ED 217

Jennifer Lowe

Faculty Sponsor: Mark Girod

Title: Building Better Conversations: Improving Mathematical Understanding and Confidence through Dialogue

Abstract: I wanted to improve mathematical understanding (and thereby confidence) in my 4th graders, but wondered if there was a better way than by playing high-anxiety games like "Around the World" or dull drilling on worksheets. Through practicing various aspects of conversation (not

interrupting, students keeping a tally of contributions they made, restating what was heard, asking clarifying questions), students made great strides in learning to be better members of a dialogue, and each showed masterful and clear knowledge of geometry above and beyond 4th grade level expectations.

3:40 - 3:50 p.m., ED 217

Jennifer George

Faculty Sponsor: Mary Scarlato

Title: The Benefits of Using Direct Instruction in Reading

Abstract: With seven-weeks of systematic and explicit Reading instruction, CH, a fourth grader with a Specific Learning Disability, made substantial gains in fluency, passage comprehension, and decoding. Direct instruction principles were applied to various Reading materials (i.e., Rewards: Multisyllabic Word Reading Strategies, Great Leaps, Next Step series stories, and teacher-designed sound and words lists). Daily one-minute reads of rehearsed passages with student-charting of correct words per minute resulted in CH's progress from 99 to 138 correct words per minute (39% increase in seven weeks). Moreover, CH's independent reading level advanced from Grade 2 to Grade 3 and his attitude and motivation toward reading increased dramatically.

3:55 - 4:10 p.m., ED 217

Elizabeth Altenburg

Faculty Sponsor: Mary Scarlato

Title: Employing Direct Instruction in a Variety of Instructional Settings

Abstract: Direct instruction was applied to teach a variety of skills across four distinct instructional settings over three months. H., a student with Autism, improved addition and subtraction skills by one grade level. J., a student with autism, language disability, and Attention-Deficit Hyperactivity Disorder improved from no reading, to decoding three letter words. S., a student with Greigg's Syndrome, Autism, and mental retardation, went from refusing to have her teeth brushed, to brushing her teeth independently. A group of four students with learning disabilities each improved accuracy, fluency and comprehension by one grade level.

4:15 - 4:25 p.m., ED 217

Rozeanne Steckler

Faculty Sponsor: Hank Bersani

Title: Incidence Rates of Cerebral Palsy and the Correlation with Gestational Age and Birth Weight

Abstract: The poster reviews seven current research articles on the incidence rate of CP especially in very-low-birth-weight and low-gestational age infants during the years 1972 to 2003. The results across the studies are examined for patterns in the incidence rate of CP over time and in the how birth weight and gestational age impact the risk of CP. The analysis shows that the incidence rate of CP is decreasing over time and that the use of prenatal steroids and surfactants has helped lower this rate while the use of antenatal steroids

increases the risk of CP in preterm, low-birth-weight infants. A correlation is found in some of the studies between gestational age and risk of CP but no correlation is found between birth-weight and the risk of cerebral palsy.

4:30 - 4:45 p.m., ED 217

Lucas Adams

Faculty Advisers: Gwenda Rice and Steve Wojcikiewicz

Title: The Short Story

Abstract: This presentation is based on an assignment for ED 618, a class in which the students were asked to create a class that they would like to teach in High School. I chose to teach a class on my favorite form of literature, the short story. The class is split into two sections; reading short stories from different time periods, countries and genres, and creating our own stories. For my presentation I put together a short video that defines each unit. For my presentation for Academic Excellence Showcase I will be playing that video.

4:50 - 5:05 p.m., ED 217

Jon Bernard

Faculty Sponsor: Gwenda Rice and Steve Wojcikiewicz

Title: The Evolution of Heroic Literature and the Human Experience

Abstract: A study of the heroic figures populating the history of literature. The chronological survey will begin with mythological and religious sources and culminate with an examination of modern comic books and other entertainment media. Texts such as Joseph Campbell's *The Hero with a Thousand Faces* will be utilized to place the heroes within a common framework. Ultimately, we will attempt to describe a universal human experience as implicated by such theories as Campbell's and as suggested by common threads running throughout the works under investigation.

5:10 - 5:25 p.m., ED 217

Skylar Frasier

Faculty Sponsor: Gwenda Rice

Title: Latin America: Culture and Society

Abstract: To better understand one's own culture, students must look to the world around them. It is through understanding the differences between perspectives that we may better act upon the commonalities. Through the course Latin American Culture & Society, students are provided a balanced historical and cultural view of the people and lands south of the border. By gaining a complete, informed perspective of the region, students understand and produce works that demonstrate a valid approach to cultural issues such as, immigration, the role of women in society, literature, art, music, indigenous populations and social movements. Upon careful consideration of these issues in Latin America, we may then better view them through our own cultural lens in order to garner a deeper understanding.

5:30 - 5:45 p.m., ED 217

Tara Stroup

Faculty Sponsor: Tracy Smiles

Title: Implementing Change in the Classroom: Small Steps

Abstract: As teachers we all experience that feeling of tension when something isn't working the way we'd like. However, implementing change can be an overwhelming endeavor. In this presentation I will discuss the process I went through in order to rethink and redesign one aspect of my literacy program. Through a survey of the available professional resources related to conferring with student writers, I created a plan for instruction and assessment that is both research based and practical for classroom use. This process is adaptable across content areas for those who are seeking change, one step at a time.

5:50 - 6:05 p.m., ED 217

Heather Anderson

Faculty Sponsor: Tracy Smiles

Title: Language Use in Literature Circles

Abstract: This presentation is about how students use language during literature circles in a diverse 2nd grade classroom. It examines ways to help students use a variety of language styles when discussing text. The project was carried out in the Dallas School District and offers teachers strategies that can be implemented in their own classroom to enhance student language learning. One key element to this presentation will be open discussion about changes I have made in the classroom and in my own teaching practices because of the research I conducted. The presentation emphasizes the importance of teachers as researchers.

6:10 - 6:25 p.m., ED 217

Cindy Daur

Faculty Sponsor: Mark Girod

Title: Evaluating the Effectiveness of the Learning Cycle

Abstract: What is the learning cycle and should I use it in my classroom? I was confronted with this question when I entered the field of science education. The learning cycle was everywhere from dozens of periodicals to curriculum materials produced by Bill Nye. I had to know why so many people were championing the learning cycle as an effective model for science instruction. So I designed a study to investigate whether using the learning cycle effected student understanding and achievement in science. I found that the learning cycle does have a place in science education, a limited one.

6:30 - 6:45 p.m., ED 217

Cynthia Villwock

Faculty Sponsor: Mary Bucy

Title: C.S.I. Chemeketa Style: Development of a High School Science Camp

Abstract: This presentation details the background, development, implementation and future plans for "C.S.I. Chemeketa Style." C.S.I. Chemeketa Style is a science camp for high school students that introduces students to applications of the sciences. Capitalizing on the popularity of television shows such as C.S.I., the camp provides science instruction in a "case study" approach. Students are introduced to a "crime scene" that requires an application of chemistry, physics, geology, and life science experiments to determine "who-done-it." Case study information is presented as a "police debriefing" each morning with students acting as fellow investigators. Unlike most "crime scene" experiences, one of the students in attendance is the "guilty party."

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