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ACADEMIC EXCELLENCE SHOWCASE

THURSDAY,
MAY 31, 2012

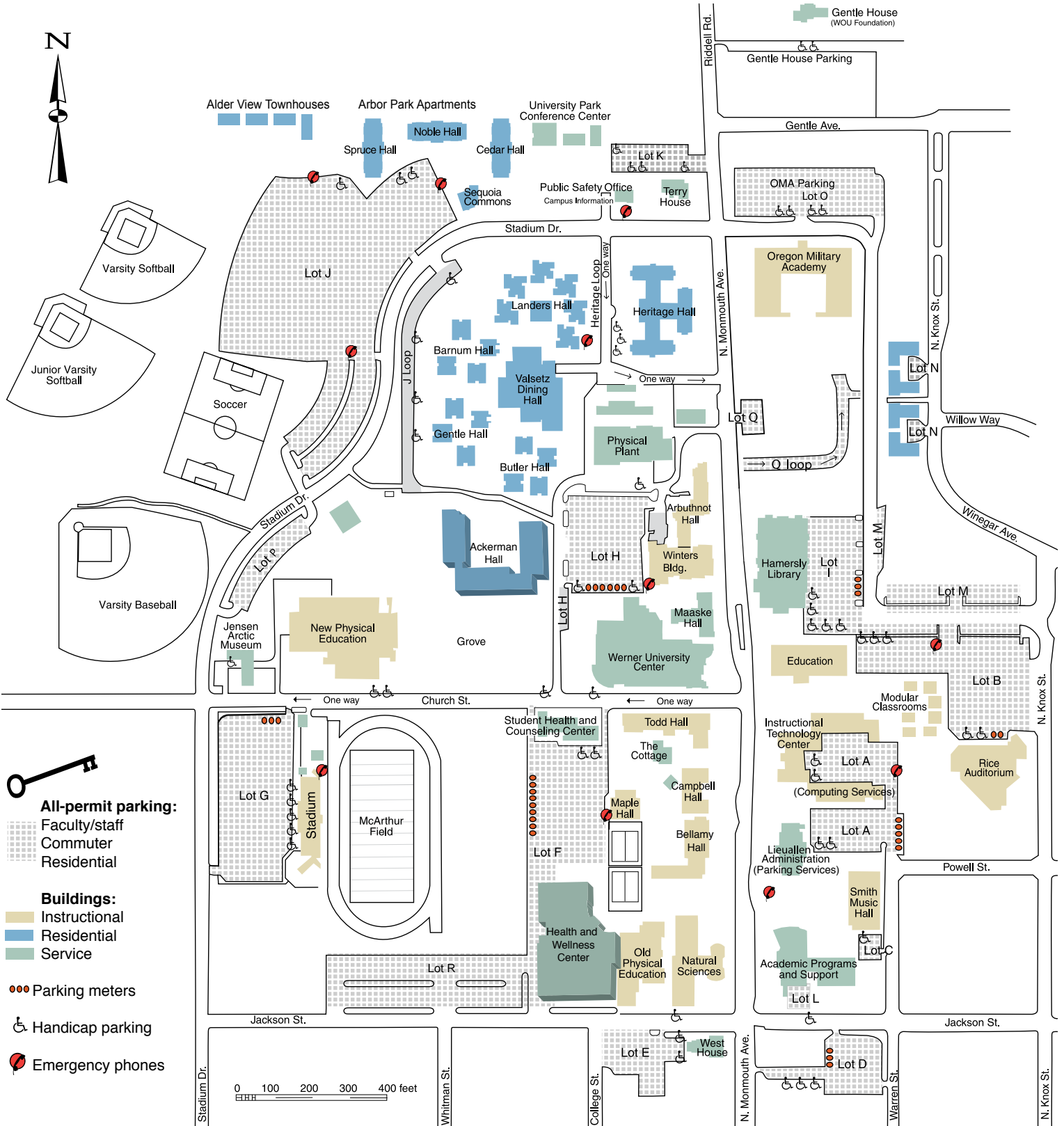
Proceedings of the 2012
Academic Excellence Showcase

Sponsored by:
The Honor Society of Phi Kappa Phi and
The Program for Undergraduate Research Experiences

WESTERN OREGON
UNIVERSITY



CAMPUS MAP



All-permit parking:
 Faculty/staff
 Commuter
 Residential

Buildings:
 Instructional
 Residential
 Service

- Parking meters
- ♿ Handicap parking
- 📞 Emergency phones

0 100 200 300 400 feet

ACADEMIC EXCELLENCE SHOWCASE

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WELCOME

A Message from Mark Weiss, president, Western Oregon University

Western Oregon University's Academic Excellence Showcase is one of my personal highlights as we draw close to the culmination of each academic year. It provides us all the opportunity to learn about the great work our faculty and students are accomplishing in the classroom and in the field; and, I enjoy spending the day attending as many presentations as are humanly possible.

The 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 students. These abstracts of student presentations included in the Showcase Proceedings celebrate the pursuit of learning and knowledge. They are a representative sample of the achievements of WOU's student body and we are duly proud of their accomplishments each year. I marvel at the way our faculty motivate and engage our students to "push the envelope" even further each successive year.

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. Kent Neely, provost and vice president, of academic affairs, Western Oregon University

A fundamental part of being a vital university faculty member is to participate in intellectual discourse, the sharing of knowledge. Faculty members engage in intellectual discourse in a variety of ways beyond teaching their classes. They conduct experiments, write critical commentary about others' writings, create original works of art and musical compositions and then share their thoughts by publishing their findings or by making presentations at conferences, symposia, festivals and concerts. As they participate in intellectual discourse, they broaden the realm of human knowledge and thereby provide us a better understanding of the world in which we live.

The Academic Excellence Showcase introduces Western Oregon University students to the honored tradition of intellectual discourse. The Showcase allows them to learn that it is a fundamental part of education and of culture. They share their knowledge, gained through research and creative activity, with their peers and their faculty mentors in a public venue, an opportunity not given to undergraduate students at many universities. I am delighted that WOU, the Program for Undergraduate Research Experiences, and the Honor Society of Phi Kappa Phi have supported the Academic Excellence Showcase and that it has become a highly anticipated event each spring that enables intellectual discourse.

A Message from the Western Oregon University Chapter of The Honor Society of Phi Kappa Phi, co-sponsor of the 2012 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 approximately 30,000 students, faculty, professional staff and alumni. The Society has over 300 chapters ranging from Maine to the Philippines and from Alaska to Puerto Rico. 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 over 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 Western Oregon University Program for Undergraduate Research Experiences—co-sponsor of the 2012 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 numerous 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 cancel classes so students may attend the Showcase. Nearly 90 faculty and staff members from across campus have volunteered their time and energy to serve as session chairs and faculty sponsors. As a result of their efforts, more than 375 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 are honored to be a part of the 2012 Academic Excellence Showcase. We hope you will join us in attending as many sessions as possible and congratulating students on their outstanding scholarship.

THE HONOR SOCIETY OF PHI KAPPA PHI

The 2012 Phi Kappa Phi Initiation Ceremony Keynote Address

Dr. Kimberly Jensen, professor of history, Western Oregon University, delivered the following keynote address during The Honor Society of Phi Kappa Phi's 2012 Induction Ceremony. Dr. Jensen, a member of our chapter, has graciously consented to include her speech in this year's Academic Excellence Showcase Proceedings. The Western Oregon University Chapter of The Honor Society of Phi Kappa Phi is pleased to provide Dr. Jensen's speech below.

Reflections on the Centennial of Woman Suffrage in Oregon

The year 2012 presents us with many centennial or hundredth anniversary celebrations. Among them are the 100th birthdays of the Oreo cookie and the Girl Scouts and the centennial of the sinking of the Titanic. This evening my goal is to convince you that as scholars, as Oregonians, and as humans it is essential for us to know about the centennial of the achievement of votes for women in Oregon and then to act on that knowledge to make our communities and the world safer, healthier, and more equitable.

A note about the word "suffrage." The term comes from the Latin *suffragari*, which means to support with one's vote, *not* from the word suffer, meaning to endure or sustain pain, loss or distress! Then and now the word "franchise", meaning a right or privilege, also conveys the right and privilege of voting; we also use "enfranchise" and "disfranchise." Participants then and historians now use "woman suffrage" using the singular "woman", and "suffragette" referred historically to more militant activists in England and the United States and became a word used in derision to refer to all supporters, as in "For heaven's sake, don't seat me near a suffragette."

My interest in this important history is linked to my research and writing about Oregon activist Esther Pohl Lovejoy, a project that is culminating in the publication of her biography this fall. As an early woman physician in the state, Portland's city health officer from 1907-09, and a suffrage activist in Oregon and beyond Lovejoy believed that the vote was a vital gateway to action and empowerment. In her case this meant running for U.S. Congress in 1920, speaking out against war and international conflicts, and building her life's work in directing the medical humanitarian organization the American Women's Hospitals, which worked with local women and local health care providers to support communities in 27 nations in times of war, refugee crises and other medical emergencies until shortly before her death at age 97 in 1967.¹

Historians base their work on primary sources – one of a kind letters, diaries, organizational records and newspaper articles (which you will see featured here in microfilm form). They also draw upon the work of other scholars to see what questions and interpretations they pose. In order for me to analyze Lovejoy's life, I needed to understand the context of the votes for women movement in Oregon and beyond.

Oregon's suffrage history and Lovejoy's own story are embedded within the broad history of the fight for women's rights and human rights that continues today. It is also within the movement for votes for women in the United States from the Seneca Falls, New York women's rights convention in 1848 to the achievement of woman suffrage at the federal level with the Nineteenth Amendment in 1920. Western states took a leading role in the woman suffrage movement, reversing the paradigm of the east to west movement of ideas, goods and white settlement.

From the beginning of Euro American settlement and government Oregon policymakers embedded whiteness and male identity into the power of the vote. At the Oregon Constitutional Convention in August and September 1857 delegates created the structure of the new state of Oregon, which became a state in 1859. Article II on Suffrage and Elections contained powerful contradictions: elections were to be "free and equal" but voting was limited to white male citizens. To make sure, delegates spelled out the specifics of race and ethnicity in Section 6: "No Negro, Chinaman or Mulatto shall have the right of suffrage." During the debates David Logan of Multnomah County moved "to strike out male before citizen" but his motion lost, apparently without debate.² From the beginning of Oregon's existence as a state, voting was privilege for white men only with specific prohibitions against African Americans, Chinese Americans, and those of mixed heritage or "mulattos." This meant that women in communities of color and immigration had double challenges.

The state and nation also moved to identify and exclude gay men and lesbians, creating what Margot Canaday calls the "Straight State." Canaday notes: "As the state moved to enfranchise women and dismantle [the segregationist policies] of Jim Crow, it was gradually working to construct a boundary in law and policy that . . . explicitly defined the homosexual as anticitizen."³ Suffrage and labor activist Dr. Marie Equi was empowered with the vote in 1912 as a woman but as a lesbian in the evolving straight state was persecuted and jailed during the First World War, in part, for her lesbian identity.⁴

For 42 years, from 1870 to 1912, Oregon activists campaigned for full voting rights for women in the state. The question of votes for women was on the ballot six times, more than any state in the nation -- in 1884, 1900, 1906, 1908, 1910, and 1912. In our time together this evening I want to focus on the 1912 victory. In 1912 the national U.S. political scene was in ferment. Important developments in the long history of women's quest for voting rights in Oregon and the nation suggested the possibility of a successful campaign. Oregon women had what Esther Lovejoy called a "local grievance": they were voteless but surrounded by states where women could cast a ballot. Women had achieved the vote in Idaho (1896), Washington (1910), and California (1911), and it appeared that the Republic of China would grant suffrage to women. And in the recent Washington and California campaigns, attention to popular culture and the mass advertising

techniques pioneered in Oregon in 1906 had been effective. At the national level, progressives and radicals vied with conservatives for the power to direct the nation's policies and economy: Progressive Robert La Follette challenged William Howard Taft for the Republican nomination; Theodore Roosevelt left the Republicans to run as a Progressive third party candidate; Socialist Eugene Debs received over 900,000 votes; and Woodrow Wilson articulated a Democratic Progressivism in his winning platform. In Oregon, as in other western states, strong Socialist and Progressive movements invigorated electoral politics and their support for woman suffrage was an important factor in victory.

Coalitions blossomed in Oregon during the 1912 campaign because first generation leader Abigail Scott Duniway was ill for much of the year and because many workers were dissatisfied with Duniway's previous campaigns. Activists had to appeal to male voters, and they established grassroots suffrage leagues tailored to specific groups. In Portland these included the Colored Women's Equal Suffrage League, the Chinese American Equal Suffrage League and a Men's League of Multnomah County. Neighborhood, religious, and occupational groups joined in support of the cause, some twenty-three in Portland alone and over seventy across the state. The State Federation of Labor, Civic League and the Woman's Christian Temperance Union, Portland's Central Labor Council, the Socialist Party of Oregon, the Oregon State Grange, and the State Woman's Press Club endorsed suffrage, lending strength, legitimacy, and publicity to the campaign. One of the lessons of the 1912 campaign is that when various coalitions worked together at the grassroots level it was possible to make limited but important bridges across race, ethnicity and identity in addition to gender.⁵

The suffrage victory in 1912 did not bring the vote to all Oregon women. After 1888 Native American women who married U.S. citizens in state-sanctioned ceremonies became citizens themselves and provisions of the Dawes Act provided for citizenship for tribal members who took part in the allotment system. But it was not until 1924 with the federal Indian Citizenship Act that all Indian women and men in Oregon could vote and tribal women worked tirelessly to restore tribal sovereignty. Federal immigration exclusion law, in force until 1952, also barred first generation Asian immigrant women and men from naturalized citizenship and voting. And a federal statute passed in 1907 and in force through 1922 provided that a woman who was a U.S. citizen lost that status and its privileges, including the vote, if she married "a foreigner." The law required her to take the nationality of her husband.⁶

Esther Lovejoy's involvement in the 1912 campaign illustrates a great deal about the nature of this victory. We can also trace the importance and influence of her suffrage work in her long life in activism. In 1916 a suffrage worker asked Esther Lovejoy why she had become a suffrage activist. In addition to the justice of the cause and the importance of women's equality, she listed two main reasons. First, she said, was her experience of what today we would call gender discrimination at the University of Oregon Medical Department from 1890-1894. As a member of a working class family, Esther Clayson worked her way through medical school behind department store counters and had to take a year off to work full time. At the time of graduation it was

customary for students with high academic records like hers to receive a postgraduate internship for the next year. But faculty made her ineligible because she was a woman.⁷

The second motivation came during her work as Portland City Health officer from 1907 to 1909. The Pacific Rim faced an outbreak of bubonic plague in the fall and winter of 1907-1908. City Health Officer Esther Pohl found great cooperation from business interests in Portland and the city council to fund anti-plague efforts to protect Portland commerce. But when voteless women campaigned for pure milk and consumer rights the city council and business owners ignored them. "Hundreds of little children had died from an impure milk supply," Lovejoy recalled, and for "several years the women of this city were unable to secure any protection." This was a powerfully personal campaign because her own son Freddie died at age six in from what doctors deemed the effects of bad milk. Policymakers, she believed, would never really attend to the "business of women" if those same women did not have the political clout of the vote and the consequent ability to hold elected officials accountable. Mobilization, education, and public awareness through women's organized activism for social justice and civic health were vital, but full civic rights were also needed to complete the job. Prior to suffrage she referred to women as "near citizens" to make this point.⁸

During the 1912 woman suffrage campaign in Oregon Esther Lovejoy helped to build and lead coalitions. She was founding member of the Portland Woman's Club Suffrage Campaign Committee, organized in January 1912. National American Woman Suffrage Association president Anna Shaw chose to work with her trusted suffrage allies Esther Pohl and Sara Evans through this organization, contributing two hundred dollars from an anonymous NAWSA donor each month to the club committee for suffrage work. Lovejoy worked throughout the campaign with the Woman's Club Campaign Committee. She also joined the Portland branch of the College Equal Suffrage League and the Portland Equal Suffrage League.⁹

In September 1912, Lovejoy organized Everybody's Equal Suffrage League as a tangible symbol of the importance of coalitions and collaboration in the campaign and also as a jab to the competition and conflict that had been a part of suffrage politics. Everybody's League was "free from all cliques and class distinctions and open to all" and its "members scorn any rules and regulations." Wage-earning women had told her that subscriptions for other suffrage societies, sometimes at several dollars per month, were out of their reach but they wanted to participate. Anyone could be a life member of Everybody's League for a subscription of twenty-five cents, and everybody who was a member automatically became a vice president. According to the Oregon Journal, the "notable thing about the league is its democracy, the membership includes both men and women, young and old, and from the humblest walks of life up to and including United States senators and supreme [court] judges. Everybody's League principles struck a cord with many Oregonians, and the group enjoyed favorable press, and took credit for some 600 members by the close of the campaign.

Lovejoy emphasized collaborative coalition building as a speaker and organizer. Early in the campaign she established a twice-monthly suffrage forum in the Olds, Wortman, and King department store auditorium that brought a variety of groups together and she was a frequent forum speaker. She spoke on suffrage at a University of Oregon alumnae dinner, to the Portland Transportation Club (with “unique invitations in the form of a prescription signed by Dr. Pohl”), to the members of the Grange, and to the Colored Women’s Equal Suffrage Association of Portland. In her speeches Lovejoy voiced the themes central to her own suffrage philosophy. Woman suffrage was just and equitable, and women needed suffrage to make laws for a better community. The vote was vital for wage-earning and professional women to make workplaces safe, wages fair, and occupations and training accessible. In particular, she stressed that women needed the vote to maintain healthy communities. She asked members of the Oregon Grange, for example, if a woman “is compelled to drink infected water because the city in which she lives empties its sewage into the river at one point and takes its drinking water out of it at another is she not just as apt to die from Typhoid as the man who approves of the system? If she is too poor to pay the water rate fixed by the city government,” she asserted, “the water is promptly turned off though she may have a half dozen thirsty children waiting at the faucet.” Women, she said, should have a voice in “making those laws.”

Lovejoy helped to pioneer the 20th century suffrage tactics of mass campaigning, appealing to popular audiences through advertising, literature, parades, plays, sandwich boards, and events at amusement parks and county fairs. This included the Suffrage Lunch Wagon, developed by Lovejoy, publicize the cause during Rose Festival Week in June 1912 in Portland. She helped arrange arranged for a giant “Votes for Women” sign on the left-field fence of the new Portland baseball grounds for the opening game of the Pacific Coast League in April and was part of suffrage “flying squadrons” leafleting communities by automobile.

Suffrage coalition members paid for theater advertising including eight feet of curtain advertising space on the drop curtains at Portland’s Orpheum and Empress theaters. By the end of the campaign suffrage groups had lantern slide shows in over thirty movie houses. One emphasized what Lovejoy called Oregon’s Local Grievance. The Oregonian featured this one titled “It is Not Good That Man Should be Alone.” “One of the notably striking ones shows the states of California, Washington and Idaho with portraits of a man and woman in the center surrounded by the products of the states,” the Oregon Journal reported about this same ad. “The state of Oregon is represented by a lonely, dejected man. The lesson is obvious.”

Following the achievement of suffrage Lovejoy took her activism to the transnational level, working with the medical humanitarian organization the American Women’s Hospitals. She was an organizer and first president of the Medical Women’s International Association. She worked to empower women in their communities and to assist local health care providers in addressing the many causes of disease and poverty that prevented women from having a voice and equal citizenship to shape their lives and the state. She used the skills of organizing and coalition building, fundraising, speaking and writing honed in the 1912 campaign throughout her life.¹⁰

Lovejoy shaped an influential and substantial life of progressive activism as an Oregon physician, public health policymaker, suffragist, congressional candidate, historian, and as an organizer and director of transnational networks among women physicians to provide global medical relief. She called for social justice through city, state, and international health and an end to war. One way to see the importance of the Oregon woman suffrage centennial is to chart Lovejoy’s own use of the vote as a part of her larger view of women’s empowerment and international health and her transnational activism. And another is to see that by knowing this history and also acting on that history and using the civic power for which Lovejoy and others fought, we can work to make our own communities safer, healthier and more equitable. My hope is that you will commemorate the centennial by doing both of these things.

- ¹ Kimberly Jensen, *Oregon’s Doctor to the World: Esther Pohl Lovejoy and a Life in Activism* (Seattle: University of Washington Press, forthcoming October 2012).
- ² Kimberly Jensen, “Revolutions in the Machinery: Oregon Women and Citizenship in Sesquicentennial Perspective,” *Oregon Historical Quarterly* 110, no. 3 (Fall 2009): 341.
- ³ Margot Canaday, *The Straight State: Sexuality and Citizenship in Twentieth-Century America* (Princeton: Princeton University Press, 2009), 9.
- ⁴ Kathleen Kennedy, *Disloyal Mothers and Scurrilous Citizens: Women and Subversion During World War I* (Bloomington: Indiana University Press, 2009), 97-100.
- ⁵ Kimberly Jensen, “‘Neither Head nor Tail to the Campaign’: Esther Pohl Lovejoy and the Oregon Woman Suffrage Victory of 1912,” *Oregon Historical Quarterly* 108, no. 3 (Fall 2007): 350-383.
- ⁶ Jensen, “Revolutions in the Machinery,” 343-44.
- ⁷ Esther Pohl Lovejoy to Mrs. Medill McCormick, n.d. [ca. 1916], Amy Khedouri Materials, Scottsdale, Arizona.
- ⁸ See the chapter “City Health and the Business of Women,” in Jensen, *Oregon’s Doctor to the World*.
- ⁹ Information for these sections on the woman suffrage campaign may be found in Jensen, “‘Neither Head Nor Tail to the Campaign,’” and the chapter “Women, Politics and Power,” in Jensen, *Oregon’s Doctor to the World*.
- ¹⁰ Jensen, *Oregon’s Doctor to the World*.

ANTHROPOLOGY

Session chairs: Robin Smith and Isidore Lobnibe

Session title: Anthropology Poster Session

Location: Werner University Center (WUC)

Posters

9 – 11a.m., WUC Willamette Room

Kathryn Bennett

Faculty sponsor: Misty Weitzel

Title: Investigating Ancient Celtic Food-ways to Understand Present Day Celtic Cuisine

Abstract: The cuisine of the ancient Celts of Scotland and Ireland was affected by their lifestyle and vice-versa; cultural behaviors determined what they ate and this in turn determined their culture. Environment, technology, and politics also influenced their diet. This biocultural evolution of Celtic foodways will be examined through both empirical studies and recorded folklore by authors such as Yeats, Burns and Stevenson. Knowing which elements of cuisine survive to present day, and attempting to understand why they do, may be useful to those of Celtic descent who wish to embrace their heritage and understand their own nutritional needs.

9 – 11a.m., WUC Willamette Room

Trish Dowell

Faculty sponsor: Misty Weitzel

Title: Examining the Effects of Corrosive Household Chemicals on Bone

Abstract: In popular media, criminals attempt to dispose of their victims by using various chemicals to dissolve the corpses. This research investigates the effects of household chemicals on the degradation of bone. Vertebrae from a domestic pig (*Sus scrofa domesticus*) will be immersed into five corrosive agents: drain-cleaner, lye, bleach, oven-cleaner, and cola. Tap water will serve as the control. Color, size, and weight of bones will be documented over time. I expect drain-cleaner, lye, and oven-cleaner to thoroughly degrade the bone, cola to cause mild degradation, and bleach and tap water to produce the least degradation.

9 – 11a.m., WUC Willamette Room

Jonathon Lewis

Faculty sponsor: Misty Weitzel

Title: Estimation of Biological age by Epiphyseal Union

Abstract: Epiphyseal union is the secondary ossification of bone in juveniles and primary means of estimating age of subadult post-cranial remains. First an inventory was conducted of skeletal remains from a single individual, accounting for the skeletal condition as well as the presence or absence of bones. Then, using previously developed standards, the estimation of age was assessed through a system of scoring epiphyseal closure. Results will narrow the age range of the individual, which will expand our knowledge of the skeletal collection. It is also important that

we respect the decedent by taking the time to know more about them.

9 – 11a.m., WUC Willamette Room

Elizabeth Salisbury

Faculty sponsor: Misty Weitzel

Title: Sex Estimation Using Morphological Traits of the Skull

Abstract: Estimating the sex of an individual from skeletal remains can help in their identification. There are many methods, but when only a skull is available, common morphological traits of the cranium and mandible can be used. Ten morphological traits will be used to estimate sex of the unknown skull. Using these ten characteristics, I should be able to accurately conclude whether the skull came from a male or female individual. However, any estimation of sex should be a multi-factorial approach involving as many metric and non-metric traits as the skeletal remains allow.

9 – 11a.m., WUC Willamette Room

Megan Stinson

Faculty sponsor: Misty Weitzel

Title: Dairy and Dairy Alternatives: Media Portrayal vs. Nutritional Facts

Abstract: Many people use dairy alternatives in their everyday lives. In particular, society's emphasis on low-fat, low-cal nutrition has created a huge desire for something other than milk in cereal, ice-cream, coffee etc.; but are these alternatives actually healthier? In this project, I will first examine the media portrayal of three major dairy alternatives, soy-milk, almond-milk, and rice-milk. I will then determine whether the nutritional truths, discovered through background research, support the views and expectations of the consumer, as determined by responses to a questionnaire. I will conclude by comparing what people think is the healthiest with the actual facts.

ANTHROPOLOGY

Session chairs: Robin Smith and Isidore Lobnibe

Session title: Anthropology Symposium

Location: Hamersly Library (HL)

Presentations

1 – 1:30 p.m., HL 107

Jo Bruno

Faculty sponsor: Isidore Lobnibe

Title: Cattle and Ecology among the Maasai of Northern Tanzania: A Study Abroad Fieldwork Experience

Abstract: Northern Tanzania has become a highly visited tourist destination. This interest may lead people to ignore the fact that the land is home to the Maasai. The Maasai have a close connection with their ecology and cattle, which is their main source of livelihood. During my study abroad experience with the School for Field Studies, I will conduct

ethnographic study to explain the significance of cattle to the Maasai to help improve our understanding the Maasai's interaction with their natural environment and cattle.

1:30 – 2 p.m., HL 107

James B. R. Lemcke

Faculty sponsor: Isidore Lobnibe

Title: Men and Women of Mystery: The Secret World of Portland, Ore.'s Superheroes

Abstract: The idea of being greater than evil and overcoming extreme obstacles is a notion that many people feel is the heart of our ability as humans to overcome our shortcomings. For a select few people the mythological or legendary figure known as the superhero is a lived reality. Over the past few years, many individuals have been joining the ranks of the Real Life Superhero movement. This project seeks to explore the social world of the superhero by looking at their lives and role in the ever changing society and culture that is Portland, Ore.

2 – 2:30 p.m., HL 107

Vicki J. Fields

Faculty sponsor: Isidore Lobnibe

Title: The Wolf Ritual: Cultural Identity Expression Through Performance Among Northwest Coast Indigenous Societies

Abstract: Ritual performance was highly developed in pre-contact complex cultures of the Northwest Coast of North America and served to express and solidify social structure for each community. This study will investigate the Wolf Ritual prevalent among contemporary coastal societies of Washington and British Columbia. Research of existing literature will set the stage with historical context. Ethnographic methods will be utilized to study aspects of the Wolf Ritual within the current movement of cultural revitalization. It is hoped that the results of this study may be used as resource for indigenous communities for cultural heritage programs.

2:30 – 3 p.m., HL 107

Diedra Cates

Faculty sponsor: Isidore Lobnibe

Title: Sense of Belonging: A Korean American Adoptee's Return to South Korea

Abstract: Since the end of the Korean War in 1953, over 150,000 South Korean children have been adopted by American and European families. Those in the U.S. are often referred to as KADs or Korean American adoptees. By utilizing participant observation and interviews conducted in South Korea I examined how Confucian ideology, which stresses consanguineous relations, has directly affected the Korean government and society's perspectives on KADs and international adoption. I argue that identity issues and reconfiguration are products of a misunderstanding between how KADs perceive their own identity and how they are expected to act within a Korean context.

3 – 3:30 p.m., HL 107

Alyssa Collins

Faculty sponsor: Robin Smith

Title: Importance of Urban Slavery Archaeology: Nineteenth Century St. Stephens, Alabama and the Chamberlain Slaves

Abstract: Old St. Stephens, Alabama, is a historical and archaeological site that was the original territorial capital. Half of the population was enslaved yet very little is known about these people who helped to build the community. This study examines the slave quarters of the Chamberlain household. There are no written records about these slaves; therefore I use archaeological methods to determine what life was like for them. Materials recovered are described and compared to those from similar sites. I show that archaeological study of material remains is especially important for understanding groups neglected by history.

3:30 – 4 p.m., HL 107

Katy Ahlvin

Faculty sponsor: Isidore Lobnibe

Title: The Burden of the Kayayeei: The Plight of Female Porters in Agbogbloshie, Ghana

Abstract: My thesis explores the experiences of Ghanaian migrant girl porters, known as *kayayeei*, who have been driven by socio-economic hardships from their home region in northern Ghana to the capital city, Accra. As participant-observer, I describe and analyze the circumstances under which these marginalized teenage girls migrate to the city, using their personal narratives to highlight both the social world they inhabit and the challenges they face within the urban informal Ghanaian economy.

ART

Session chair: Jodie Garrison

Session title: Art Portfolio Presentations

Location: Campbell Hall (CH)

Presentations

8:45 – 9 a.m., CH 101

Robert Balsley

Faculty sponsor: Jodie Garrison

Title: Senior Portfolio Presentation

9 – 9:15 a.m., CH 101

Benjamin Diaz

Faculty sponsor: Jodie Garrison

Title: Senior Portfolio Presentation

9:15 – 9:30 a.m., CH 101

Jay Cleland

Faculty sponsor: Jodie Garrison

Title: Senior Portfolio Presentation

9:30 – 9:45 a.m., CH 101

Sara Davis

Faculty sponsor: Jodie Garrison

Title: Senior Portfolio Presentation

9:45 – 10 a.m., CH 101

Mary Schuck

Faculty sponsor: Jodie Garrison

Title: Senior Portfolio Presentation

10 – 10:15 a.m., CH 101

Xiuwen Sun

Faculty sponsor: Jodie Garrison

Title: Senior Portfolio Presentation

Break: 10:15 – 10:30 a.m.

10:30 – 10:45 a.m., CH 101

Anna Holt

Faculty sponsor: Jodie Garrison

Title: Senior Portfolio Presentation

10:45 – 11 a.m., CH 101

Aaron Westendorf

Faculty sponsor: Jodie Garrison

Title: Senior Portfolio Presentation

11 – 11:15 a.m., CH 101

Sandra Ledbetter

Faculty sponsor: Jodie Garrison

Title: Senior Portfolio Presentation
with Distinction



11:15 – 11:30 a.m., CH 101

Sarah Fast

Faculty sponsor: Jodie Garrison

Title: Senior Portfolio Presentation
with Distinction



11:30 – 11:45 a.m., CH 101

Martha Flores

Faculty sponsor: Jodie Garrison

Title: Senior Portfolio Presentation
with Distinction



11:45 a.m. – noon, CH 101

Kelly Hartman

Faculty sponsor: Jodie Garrison

Title: Senior Portfolio Presentation
with Distinction





12:30 – 12:45 p.m., CH 101
Huachao Zhou
Faculty sponsor: Jodie Garrison

Title: Senior Portfolio Presentation with Distinction

2 – 2:15 p.m., CH 101
Rebecca Miller
Faculty sponsor: Jen Bracy

Title: Senior Portfolio Presentation

2:15 – 2:30 p.m., CH 101
Jacob Nicola
Faculty sponsor: Jen Bracy

Title: Senior Portfolio Presentation



12:45 – 1 p.m., CH 101
Elisa Seeds
Faculty sponsor: Jodie Garrison

Title: Senior Portfolio Presentation with Distinction

2:30 – 2:45 p.m., CH 101
Amanda Olsen
Faculty sponsor: Jen Bracy

Title: Senior Portfolio Presentation

2:45 – 3 p.m., CH 101
Kasey Orr
Faculty sponsor: Jen Bracy

Title: Senior Portfolio Presentation

ART

Session chair: Jen Bracy
 Session title: Graphic Design Portfolio Presentations
 Location: Campbell Hall (CH)

Presentations

1 – 1:15 p.m., CH 101
Jerod Holcomb
Faculty sponsor: Jen Bracy

Title: Senior Portfolio Presentation

3 – 3:15 p.m., CH 101
Juliann Roth
Faculty sponsor: Jen Bracy

Title: Senior Portfolio Presentation

3:15 – 3:30 p.m., CH 101
Sara Rushby
Faculty sponsor: Jen Bracy

Title: Senior Portfolio Presentation

1:15 – 1:30 p.m., CH 101
Scott Knees
Faculty sponsor: Jen Bracy

Title: Senior Portfolio Presentation

3:30 – 3:45 p.m., CH 101
Danyon Satterlee
Faculty sponsor: Jen Bracy

Title: Senior Portfolio Presentation

1:30 – 1:45 p.m., CH 101
Leslie Martinez
Faculty sponsor: Jen Bracy

Title: Senior Portfolio Presentation

3:45 – 4 p.m., CH 101
Junxiao Song
Faculty sponsor: Jen Bracy

Title: Senior Portfolio Presentation

1:45 – 2 p.m., CH 101
Stephanie Merrit
Faculty sponsor: Jen Bracy

Title: Senior Portfolio Presentation

BIOLOGY

Session chairs: Ava Howard and Jeffrey Snyder

Session title: Biological Research

Location: Werner University Center (WUC)

Posters

11:30 a.m. – 1:30 p.m., WUC Willamette Room

Aquilegia Leet

Faculty sponsor: Ava Howard

Title: Physiologic Differences Between Douglas Fir (*Pseudotsuga menziesii*) on North and South Facing Slopes During Winter

Abstract: In arid regions there is a substantial difference in productivity between trees growing on north and south facing slopes. I tested whether a similar difference exists in temperate rainforest environments during the wet season. I studied physiological differences in Douglas fir (*Pseudotsuga menziesii*) at two sites: a managed timber stand in the Coast Range and Western Oregon University's (WOU) campus. I measured stomatal density, water potential and average photosynthetic rate. Trees growing with southern exposure in the Coast Range and on WOU's campus exhibited greater productivity (2.1 and 1.3 times greater photosynthesis, respectively) and higher stomatal density. Trees showed very little water stress, although Douglas fir on the north slope in the Coast Range did have slightly more negative water potential. This research furthers knowledge on forest development and could be used in many disciplines including productive tree management policies.

11:30 a.m. – 1:30 p.m., WUC Willamette Room

Byron Bean

Faculty sponsor: Ava Howard

Title: The Effects of Short-Term UV-B Exposure on *Rubus spectabilis*

Abstract: Most studies of UV exposure to plants have concentrated on the effects of long-term physiology. However, few studies in the literature have been conducted on observing the effects of short-term exposure of UV. The latter was addressed by using cultivars of *Rubus spectabilis* (Salmonberry) exposed to 15 second intervals up to 90 seconds total of UV exposure in a typical UV hood. Photosynthetic activity was then measured and compared to a control group. Of note, the maximum photosynthetic rate appeared to decrease by 19 percent despite the relatively short time of exposure. Photosynthesis did not decrease significantly with lower light levels.

11:30 a.m. – 1:30 p.m., WUC Willamette Room

Amy Nicholson

Faculty sponsor: Kristin Latham

Title: *Drosophila* larval response to *P. fluorescens*

Abstract: *Drosophila melanogaster*, also known as the common fruit fly, is an ideal organism for research. We are studying

the effects that feeding the larvae *Pseudomonas fluorescens*, a soil bacteria, has on development. We fed the larvae bacteria by mixing it in with yeast, a common lab food source for the flies and monitored their larval development up until they emerged as adult flies. Our results seem to indicate that the larvae respond differently when fed bacteria that had been grown in different culture media. We are investigating the effects ingestion of the bacteria will have on physiology of the larvae and how these translate to differing phenotypes in the adults. *Drosophila* share a number of genes with humans and have a number of homologous proteins. They also employ a cellular and humoral defense mechanism which is similar to the immune system of humans. Therefore, *Drosophila* are model organisms for investigating host responses to infection.

11:30 a.m. – 1:30 p.m., WUC Willamette Room

Jenna Schneider

Faculty sponsor: Kristin Latham

Title: Immune System Challenge in *Drosophila melanogaster* Larvae

Abstract: *Drosophila* and humans possess similarities in terms of their immune systems and how bacteria are detected and an immune response is mounted. Therefore, research with *Drosophila* can potentially provide us with an insight on *Drosophila* and human immunity. To better understand how the immune system functions in response to bacteria, we fed *Drosophila* varied concentrations of *Pseudomonas fluorescens* mixed with yeast, followed by feeding with yeast only. We looked for delays in development, death rates, as well as unusual development such as defects in legs or wings. In terms of results we anticipated to find the groups with the higher the concentration of bacteria developed slower, had a higher death rate and possibly had developmental problems. We found that results varied based on the media used as well as how the bacteria were cultured. For example, bacteria cultured in Kings had different outcome than bacteria cultured in Phytone. This research helps to advance our general knowledge of *Drosophila* and human immune systems and their fight against bacterial infections.

11:30 a.m. – 1:30 p.m., WUC Willamette Room

Valerie Sims

Faculty sponsor: Ava Howard

Title: Physiological constraints on water use by invasive and native blackberries

Abstract: Invasive and native species of plants are known to have different water use patterns during the day and the night. I studied these differences between phylogenetically related invasive blackberry (*Rubus armeniacus*) and native blackberry (*Rubus ursinus*). In a common garden setting, I studied leaf physiological differences related to turgor loss, capacitance, hydraulic conductance, specific leaf area, and gas exchange parameters. Preliminary data shows that on average the native species capacitance at full turgor was lower than the invasive species and the average turgor lose point was less negative in the native species and more negative in the invasive species.

11:30 a.m. – 1:30 p.m., WUC Willamette Room

Brittany Kramer and Emmalee Thornton

Faculty sponsor: Jeffrey Snyder

Title: Adult Trumpeter Swan Brooding and Foraging Behaviors, and a comparison between pairs with and without cygnets at Grays Lake National Wildlife Refuge, Idaho

Abstract: Trumpeter swans (*Cygnus buccinator*) are the largest member of the waterfowl family Anatidae. Once widely distributed, they were reduced to < 75 individuals by the beginning of the 20th century. Although population restoration has been successful, the core population in the Yellowstone Ecosystem (Idaho, Wyoming, and Montana) has declined by 50 percent in the past 10 years. How swan family group behavior affects swan production, in particular, mated pairs, remains unknown. During July and August 2011, we compared productive and unproductive pair behaviors at Grays Lake National Wildlife Refuge (NWR), Idaho. We found behavioral differences between mated and unproductive pairs, and according to time of day (morning v. afternoon). Understanding the reasons for the differences may provide important species clues to its recent decline.

BIOLOGY

Session chairs: Jeffrey Snyder and Ava Howard

Session title: Behavioral Biology

Location: Health and Wellness Center (HWC)

Presentations

4:30 – 5 p.m., HWC 204

Brittany Kramer and Emmalee Thornton

Faculty sponsor: Jeffrey Snyder

Title: Largest Swan in the World: Behavioral Observations of a Trumpeter Swan (*Cygnus buccinator*) Family Group at Grays Lake National Wildlife Refuge, Idaho.

Abstract: Trumpeter swans (*Cygnus buccinator*) are the largest member of the waterfowl family Anatidae. Once widely distributed, they were reduced to < 75 individuals by the beginning of the 20th century. Although population restoration has been successful, the core population in the Yellowstone Ecosystem (Idaho, Wyoming, and Montana) has declined by 50 percent in the past 10 years. How swan family group behavior affects swan production remains unknown. During July and August 2011, we investigated and documented swan family group behaviors at Grays Lake National Wildlife Refuge (NWR), Idaho. We found behavioral differences between cygnets and adults, and according to time of day (morning v. afternoon). Understanding the reasons for the differences may provide important species clues to its recent decline.

BUSINESS AND ECONOMICS

Session Chair: Jennifer Yang

Session title: Business and Economics

Location: Werner University Center (WUC)

Presentations

10:30 – 11 a.m., WUC Calapooia Room

Faculty sponsor: Jennifer Yang

Title: Organizational Analysis

Abstract: Students from BA361 (Organizational Behavior) researched a company and interviewed its representatives to get an in-depth understanding of how it operates. They conducted an organizational analysis and prepared a case study on the company's background, ethics, motivational programs, and leadership. Based on the analysis, the students developed recommendations to help the company improve its organizational effectiveness.

11:30 a.m. – noon, WUC Calapooia Room

Samantha Wright and Amanda Quitugua

Faculty sponsor: Paul Disney

Title: Strategic Analysis of Coca-Cola in India

Abstract: This is a strategic analysis of the company Coca-Cola and their operations in the country of India. We delve into the subjects of Coca-Colas financial situation, their consumer relations as well as their current operating status throughout the world but focusing mostly on India. We also take an in-depth look into India's economic, political and social atmospheres and the strength and weaknesses of India as a country and Coca-Cola's ability to thrive in the beverage market in India. Lastly we give our personal recommendations on whether or not Coca-Cola should expand or withdraw from their current operations in India.

12:30 – 1 p.m., WUC Calapooia Room

BA361 (Organizational Behavior) Students TBA

Faculty sponsor: Jennifer Yang

Title: Organizational Analysis

Abstract: Students from BA361 (Organizational Behavior) researched a company and interviewed its representatives to get an in-depth understanding of how it operates. They conducted an organizational analysis and prepared a case study on the company's background, ethics, motivational programs, and leadership. Based on the analysis, the students developed recommendations to help the company improve its organizational effectiveness.

CHEMISTRY

Session chair: Arlene Courtney

Session title: Chemistry Capstone Seminars

Location: Natural Sciences (NS)

Presentations

10:30 – 11:15 a.m., NS 101

Steven Thomson

Faculty sponsor: Arlene Courtney

Title: Detection Limits of Derivatized Methamphetamine Using Gold Nanoparticles and Surface-Enhanced Raman Spectroscopy.

Abstract: The potent psychostimulant methamphetamine is a drug of heavy abuse in Western and Central America. Current methods of testing are either insensitive or require laboratory usage of chromatography instruments. We aimed to develop a method of testing for methamphetamine in the field that was highly sensitive and portable for on-site use. Methamphetamine was reacted with 2-mercaptopyridine to form the amide, MMNA, which was then placed as a coating onto 16 nm gold particles. Conducting surface-enhanced Raman spectroscopy allowed us to find the spectrum of the derivative on the gold. The peak areas were used in order to find our limit of detection for the derivatized methamphetamine.

11:15 a.m. – noon, NS 101

Veronica Manfredo

Faculty sponsor: Arlene Courtney

Title: A Forensic Application of UV-Vis Microspectrophotometry

Abstract: Hair samples are left everywhere we go as old hair cells are discarded and replenished with new ones on our body. This phenomenon has always been of forensic importance. The hair follicle itself can be damaged or mutated by certain treatments or hair dyes. Determining that a hair cell has been dyed can be done by an instrument called an Ultraviolet-Visible Microspectrophotometer. UV-Vis Microspectrophotometry can determine whether or not hair has been dyed, the dyed hair color, the fading of the dye through washing, and other pigmentation characteristics of a hair sample that are of forensic significance.

1 – 1:45 p.m., NS 101

Kristin Middleton

Faculty sponsor: Arlene Courtney

Title: Reaching Very Low Temperatures... How Low is Low?

Abstract: This presentation will examine the usefulness of very low temperatures in both everyday life and in the development of scientific breakthroughs. The discovery of techniques on how to lower temperatures by pioneers such as Birdseye, Dewar, Onnes, and Giauque will be mentioned. The evolution of their techniques, such as demagnetization, laser cooling, and flash-freezing as well as current research on how to improve cooling techniques in the future will be covered.

1:45 – 2:30 p.m., NS 101

Kalyn Meyer

Faculty sponsor: Arlene Courtney

Title: Bioremediation – Nature's Elegant Solution

Abstract: Bioremediation is an appealing environmental solution that takes advantage of the metabolic pathways of microorganisms to transform and degrade potentially harmful contaminants. Most contaminants originate from industrial and manufacturing activities, including; petroleum products, chlorinated organic compounds, and heavy metals. Some organic molecules can be completely reduced to carbon dioxide and water, while other contaminants are simply transformed to an intermediate byproduct that is either less harmful or mobile. Bioremediation techniques can be carried out in-situ, using relatively simple technology. This makes them an economically and environmentally sound alternative to other conventional solutions.

2:30 – 3:15 p.m., NS 101

Molly Sprenger

Faculty sponsor: Arlene Courtney

Title: Facial Reconstruction in Forensics

Abstract: Facial reconstruction is the restoration of faces using technologies such as sketching, clay, and computer programming. Using this combination of new and old technologies, the faces of the dead, the missing, and the forgotten can be remade. In this presentation, I will describe the techniques by which faces are reconstructed and explore how different agencies use these methods to help find killers and missing people.

3:15 – 4 p.m., NS 101

Troy Vaden

Faculty sponsor: Arlene Courtney

Title: Can Biomass Serve as an Alternative to Petroleum in the Future?

Abstract: Increasing energy demands and a need to reduce greenhouse gas emissions are shifting society's dependence away from petroleum to renewable biomass resources. Thus better, more efficient, and more sustainable ways of producing organic materials and fuels is a quickly growing area of research. Scientists are finding new and more efficient ways to produce biodiesel from microalgae, renewable packaging polymers based on biomass, and conversion of glycerol to bio-based alternatives to petroleum-based chemicals. With continued advances in this area of research, the U.S. Department of Energy will be able to meet goals of replacing 30 percent of the liquid petroleum fuel with biofuels and 25 percent of industrial organic chemicals with bio-mass derived chemicals by 2025.

COMMUNICATION STUDIES

Session chair: Emily Plec

Session title: Top Papers in Media & Rhetorical Criticism

Location: Health and Wellness Center (HWC)

Presentations

2 – 2:15 p.m., HWC 204

Cory Vieira

Faculty sponsor: Molly Mayhead

Title: Dave Matthews and the American Dream

Abstract: This essay uses ideological criticism to discuss the concept of the American dream through the analysis of the Dave Matthews Band's video "American Baby." Elements examined include the ideals of home ownership, upward mobility in society through hard work, and hope for the present and future generations to live a better life. In addition, the question of whether anyone can achieve this state simply through hard work and desire in the United States is discussed.

2:15 – 2:30 p.m., HWC 204

K. Jerry Peterson

Faculty sponsor: Emily Plec

Title: Tron Legacy: A Psychoanalytic Critique

Abstract: A psychoanalysis of the film *Tron Legacy* reveals the entire movie to be a model of the psyche according to Freud's iceberg metaphor. The main character's journey is less about saving his father and more about integrating and reconciling with the repressed parts of his own psyche. The concepts of dystopian and utopian narratives are also explored in connection with this necessary integration. Far from being a simple action spectacle, *Tron Legacy* delivers a message on how we might, in turn, avoid a dystopian future.

2:30 – 2:45 p.m., HWC 204

Blair Osburn

Faculty sponsor: Molly Mayhead

Title: Dyeing for Beauty: A Feminist Analysis of Toddlers and Tiaras

Abstract: Examination of the TLC television series *Toddlers and Tiaras* using the lens of Feminist Criticism reveals the oppressive standards of beauty to which women are subjected from an early age. I undertake the pilot episode of the television series and look at the involvement of pageant parents, the pre-pageant beauty rituals of contestants and the judging of contestants and how these factors perpetuate patriarchal ideals.

2:45 – 3 p.m., HWC 204

Traci Wilson

Faculty sponsor: Emily Plec

Title: Dilbert: Geek Chic is the New Norm

Abstract: This essay uses two different theoretical methods for analyzing media, sociological analysis (specifically the uses and gratifications theory) and Marxist analysis, in order to show that *Dilbert* has remained popular because the characters and situations in the comic strips are relatable to the real world, and reading *Dilbert* fulfills certain sociological needs and desires. Satisfying these needs helps us to feel connected to each other and enables us to find our place in the larger social system. Moreover, analysis such as this can uncover important truths about our socioeconomic system that influences our behaviors and perceptions.

COMMUNICATION STUDIES

Session chair: Emily Plec

Session title: Papers from the Northwest Communication Association Conference

Location: Health and Wellness Center (HWC)

Presentations

3 – 3:15 p.m., HWC 204

Silas Heisler

Faculty sponsor: Emily Plec

Title: Who Needs to be Rescued: An analysis of *Guts*, the pilot episode of *Rescue Me*.

Abstract: The worlds of firefighting, and the military are worlds of danger, masculinity, ritual, and heroism whose product society does not seem to understand. The soldier bears the scars of war, and the firefighter must confront the very real possibility of death every day. Through *Guts*, the pilot episode of the television show *Rescue Me* I argue that the portrayal of New York City firefighters following September 11, 2001, serves to let the outside world view an organization that is primarily composed of heterosexual, white, alpha males, without the filter of political correctness. This better equips the audience to understand those around them who have come from not only the world of firefighting, but also that world that many young men and women from the military have come from as well. This is crucial at a time when more and more veterans are returning home and their families are unable to truly understand where they have come from.

3:15 – 3:30 p.m., HWC 204

Katina Brodkorb

Faculty sponsor: Emily Plec

Title: Animated Sitcom Archer: Minimizing Serious Social Issues through Comedy

Abstract: This essay performs a sociological analysis of *Training Day*, an episode that is part of the FX animated comedy series, *Archer*. The central character, Sterling Archer, represents a 'mock-macho' satirical spy. Archer and the other characters on the show often participate in acts of consequence-free violence and display many instances of mistreatment and sexualization of the female characters. This essay examines the connection between those instances of mistreatment and violence and the real-life issues of domestic abuse and violence against women. It also examines how consistently associating acts of violence and mistreatment with comedy and laughter influences the socialization of regular viewers.

3:30 – 3:45 p.m., HWC 204

Amanda Litzinger

Faculty sponsor: Molly Mayhead

Title: Pleading for Purification: A Burkean Analysis of Amanda Knox's Final Testimony

Abstract: In 2007, the United States was stunned when University of Washington student Amanda Knox, while studying abroad, was sentenced to 26 years in prison for the murder of her roommate, Meredith Kercher. After serving four years of her sentence, her conviction was overturned and she was released. In the moments leading up to the judge's last ruling, Knox was permitted to give a final testimony for her innocence. Using Burke's dramastistic pentad, I argue Knox is able to purify herself from any blame in the murder of Kercher while shifting blame to the Italian police and British media.

3:45 – 4 p.m., HWC 204

Amanda Litzinger

Inductees: Blair Osburn, Heidi Maricle, Amy Funk

Faculty sponsor: Emily Plec

Title: Nu Phi Honor Society Induction

COMPUTER SCIENCE

Session chair: David Olson

Session title: Special Projects in Computer Science

Location: Instructional Technology Center (ITC)

Presentations

9 – 9:30 a.m., ITC 211

Darren Boss

Faculty sponsor: Jie Liu

Title: Parallel Sorting Algorithm

Abstract: This implementation of a parallel sorting algorithm uses the basic principle of quicksort. However, the algorithm use prefix sum to calculate the position an element should be placed and directly copy an array element to its final position within each iteration. The algorithm is developed by Dr. Jie Liu of WOU and is proven to be cost optimal.

9:30 – 10 a.m., ITC 211

David Rios and Duane Seidlitz

Faculty sponsor: Jie Liu

Title: Capture the Olympic Flag (an X-box game)

Abstract: The presentation examines the first part of a game they are developing. The name of the game is *Capture the Olympic Flag*. The basic idea is that we have a cannon, five cannon balls each with a different color matching one of the Olympic colors (red, black, blue, green, and yellow). The objective is to shot each cannon ball into its matching colored ring. Mr. Seidlitz and Mr. Rios developed code that places the cannon in the game screen, allow player to move the cannon, and enable the players to adjust both the angle and velocity of their cannon balls.

10 – 10:30 a.m., ITC 211

Cameron Halder

Faculty sponsor: Jie Liu

Title: Capture the Olympic Flag (new and improved)

Abstract: This project advances the *Capture the Olympic Flag* game by using particles to smoke tracing cannon balls, showing the explosion, and added sound. The added details make the game much more real and fun to play.

10:30 – 11 a.m., ITC 211

Sean Martinez and Michael Ryan Stevenson

Faculty sponsor: Yanwei Wu

Title: JAVA Digital Clock

Abstract: This is a project in course cs162- computer science II to practice GUI program. In this project, we write a processing program that simulates a clicker to count attendance. The program displays a sequence of digits (initially all 0s) in the center of the window. Two marked areas inside the window represent 'add' and 'reset' buttons. When the user clicks on the 'add' button, the numeric counter increases by one. When the user clicks on the 'reset' button, the counter resets itself to zero. The counter must have at least four digits, represented by pictures; when the counter reaches all nines, clicking on the count button will cause it to roll over to all zeroes and begin counting up from one again.

11 – 11:30 a.m., ITC 211

Ian Canida

Faculty sponsor: David Olson

Title: Eve of Ebon (Computer Game)

Abstract: The presentation demonstrates the overhead role playing game (RPG). The project is an example of software created by an independent collaborative group. The group includes four members from around the world. Each member has different roles including modelers, story writers and programmers. Currently in the demo-stage the player is presented with waves of enemies that attempt to kill him.

COMPUTER SCIENCE

Session chair: David Olson

Session title: Individual Software Projects

Location: Instructional Technology Center (ITC)

Posters

2 – 4 p.m., ITC Third Floor

Chad Anderson

Faculty sponsor: Jie Liu

Title: Sound Shaker

Abstract: An entertaining application that allows the user to produce the sounds an item would make if it was placed in a tin can and shaken. It can even simulate the sound of shaking an empty can!

2 – 4 p.m., ITC Third Floor

Brandon Blair

Faculty sponsor: Jie Liu

Title: CS Evolution

Abstract: Want to brush up on your computer science knowledge or just want to learn some random information? Try *CS Evolution!* This is a quiz app that allows you to test your knowledge of computer science information. As you progress through the levels you evolve into a computer geek! It's exactly what everyone wants to be and you can achieve it through this app!

2 – 4 p.m., ITC Third Floor

Darren Boss

Faculty sponsor: Jie Liu

Title: Easy Registry for Android

Abstract: Tired of signing up for registries at different stores? Ever purchase a gift for a wedding hoping it isn't a duplicate? *Easy Registry* is the answer. With *Easy Registry*, you create a single registry that can be for any number of online and/or brick and mortar stores. This Android application extends the *Easy Registry* site by allowing users to add items to their

registry from anywhere. Gift-givers can also see what has already been purchased and register their purchases, so as to avoid duplicate purchases. Take a picture or scan a barcode. It's simple with *Easy Registry* for Android!

2 – 4 p.m., ITC Third Floor

Ian Canida

Faculty sponsor: Jie Liu

Title: elude

Abstract: Prevention of schedule collisions of users with shared location area's. Allows user to display multiple tab view that includes a daily view of a time specified by them, where they can add events and view the events as a time block which includes start time, end time, name of user added, description of event, location the event takes place.

2 – 4 p.m., ITC Third Floor

Lacey Collins

Faculty sponsor: Shuhua Ren

Title: Android Pong

Abstract: Users can enjoy an old favorite in a totally new way. Two android devices can connect together so they can play a game of pong against each other! In this version of the game, the ball is in space and the users can track it's motion via a screen, so that they can move to it and volley the ball back and forth. Don't miss it though, if you do, you lose.

2 – 4 p.m., ITC Third Floor

Stefan Feltmann

Faculty sponsor: Jie Liu

Title: Shake 'N' Sound

Abstract: An accelerometer controlled game, the harder the user shakes the device, the higher the pitch of the sound played. Multiple sounds are available.

2 – 4 p.m., ITC Third Floor

Chris Kessel

Faculty sponsor: Shuhua Ren

Title: Shark Attacks

Abstract: This is a OpenGL Android application utilizing 3D modeling and texturing. The OpenGL platform uses the GPU of the Android device to directly display and store graphical data.

2 – 4 p.m., ITC Third Floor
David J. O'Rourke
Faculty sponsor: Shuhua Ren

Title: Halla

Abstract: Halla is a simple Android RPG, or role playing game, that uses sprites and tile based maps to allow the player to move around the game world. The player can level-up battle monsters, talk to allies, and get better equipment. It has all the things that make RPGs fun in a tidy package for the Android.

2 – 4 p.m., ITC Third Floor
Erik Pratchenko
Faculty sponsor: Jie Liu

Title: Drink Genie

Abstract: Drink Genie is a vital component for anyone that wants to maximize their party beverage options. A user adds all their drink ingredients and the program returns a list of drinks and recipes that can be made!

2 – 4 p.m., ITC Third Floor
Mark Rae
Faculty sponsor: Shuhua Ren

Title: Android ELIZA

Abstract: A talking & listening version of the famous ELIZA program. Android phones can now impersonate a psychologist.

2 – 4 p.m., ITC Third Floor
Melissa Wiener
Faculty sponsor: Shuhua Ren

Title: Pig Latin Translator

Abstract: An Android application that translates English sentences directly into Pig Latin! With speech input and text-to-speech output.

2 – 4 p.m., ITC Third Floor
Robbie Vitolo
Faculty sponsor: Shuhua Ren

Title: MindSprint

Abstract: An Android application for playing a lightning-round style quiz game with a retro-flavored design. A player chooses a quiz and is given a short amount of time to fill in the answers, with the assistance of context clues.

2 – 4 p.m., ITC Third Floor
Christopher Weber
Faculty sponsor: Shuhua Ren

Title: Android Fortune

Abstract: Android application that randomly generates fortunes and presents them to the user.

2 – 4 p.m., ITC Third Floor
Shunan Wang
Faculty sponsor: Shuhua Ren

Title: Android Tic-Tac-Toe

Abstract: This version of the strategic board game Tic-Tac-Toe for the Android platform let you test your skills against the wits of the robot, or play with your friends through Wifi.

2 – 4 p.m., ITC Third Floor
David Rios
Faculty sponsor: Shuhua Ren

Title: Narrative Component Creator

Abstract: Allows the user to define components for repeated generation, along with specific parameters and data types for every component.

COMPUTER SCIENCE

Session chair: David Olson

Session title: Capstone Projects in Computer Science

Location: Instructional Technology Center (ITC)

Presentations

5:15 p.m., ITC 211

Bryan Danaher and Robbie Vitolo

Title: University Book Exchange

Abstract: A local user has a book that they want to sell. Our site serves as a facilitating agent between that person and potential buyers. A user can visit our site and add their book to our roster, where it would be displayed and or/searchable in our database. A willing buyer is then able to locate the book in our system and commit to purchase it. Once the commitment has been made, we deliver to the buyer and seller each other's contact information. We also collect a small fee from the buyer for using our services.

5:30 p.m., ITC 211

Ian Canida, Jesse Lowther and Ryan Johnson

Title: Feedbag

Abstract: Web application that allows a registered user to add in personal preferences and generate a meal plan for a time span assigned by the registered user as well as the personal preferences.

5:45 p.m., ITC 211

Chris Kessel and Chris Weber

Title: Plagiarism evaluation software

Abstract: This is an Web application deployed using a software as a service platform used to assist instructors in detecting copying of computer source code.

6 p.m., ITC 211

Stefan Feltmann, David O'Rourke, and Mark Rae

Title: Movie database

Abstract: An application which allows members of a group to list the movies they own. At some event attended by members of the group, you can quickly see the movie options available from those in attendance.

6:15 p.m., ITC 211

Chad Anderson, Brandon Blair, Darren Boss and Erik Pratchenko

Title: Easy Registry

Abstract: Tired of signing up for registries at different stores? Ever purchase a gift for a wedding hoping it isn't a duplicate? *Easy Registry* is the answer. With *Easy Registry*, you create a single registry that can be for any number of online and/or brick and mortar stores. Gift-givers can also see what has already been purchased and register their purchases, so as to avoid duplicate purchases. This registry system even supports individualized registries so gift givers can specifically buy what a certain recipient would like.

6:30 p.m., ITC 211

Lacey Collins, David Rios, Melissa Wiener and Shunan Wang

Title: Everyday Archives

Abstract: To provide an online software platform which will allow users to upload records in various forms in order to create collections similar to those found in a conventional archives. The principle difference between this software and a typical digital archives is that it will be oriented toward individual or small groups of users with relatively small collections. To that end, the software will be extremely easy to use and incorporate archival principles in a way that is easy to understand.

6:45 p.m., ITC 211

Shane Kalin, Adain Martinez, Christopher Ransom and Jose Tapia

Title: Office Hours

Abstract: Website application that allows teachers to display their office hours and gives students the opportunity to sign

up for those hours rather than just show up unannounced! Students do not need to create accounts, so it is quick and easy to set up an appointment.

DANCE

Session chair: Sharon Oberst

Session title: Academic Excellence in Dance

Location: Maple Hall (MH)

Presentations and Performances

9 – 9:15 a.m., MH

Morgan Kishpaugh

Faculty sponsor: Susan McFadden and Jeff Armstrong

Title: Similarities in Body Lines and Differences in Motives between Dancers and Athletes

Abstract: Photographic images captured of athletes often mirror or mimic shapes achieved by dancers. While dancers' and athletes' body shapes can be similar, their motives are different in achieving a certain body line. In this presentation, selected photos of dancers will be seen in comparison with images of athletes.

9:15 – 9:25 a.m., MH

Chenise Crockett

Faculty sponsor: Darryl Thomas

Title: Deep Sea Soiree

Abstract: Deep Sea Soiree is a festive, ocean themed dance piece inspired by my study abroad trip to the Turks and Caicos Islands. I drew my overall theme and choreographic style from the movement of the various life forms that I saw while snorkeling, including the colorful fish, seaweed, coral reefs, sting rays, lobsters, and turtles, as well as the motion of the sea. My hope is that the viewer gains a new appreciation of the world underwater from the very depths to the surface.

9:25 – 9:35 a.m., MH

Nancy Sorensen

Faculty sponsor: Sharon Oberst

Title: Voicing Acceptance

Abstract: This dance is about the desire of male dancers, to have their art seen as acceptable by their friends and family. Dancers gave me written text of their experiences with dance. The dancers recorded the text, which was incorporated into the music. The women in my dance represent the dance community and individuals within that community. The dance community is not the place where dancers meet opposition. It is the place where they fit in because dance is the common pursuit that unifies the individuals. This dance states that dance is a worthy pursuit for everyone, male or female.

9:35 – 9:45 a.m., MH

Sara McIntyre

Faculty sponsor: Sharon Oberst

Title: Awkward Accounts of My Everyday Life

Abstract: This modern dance piece was inspired by observations of social interactions around campus. Short segments of funny and awkward social interactions tell the story of the choreographer's everyday life.

9:45 – 10 a.m., MH

Kaitlin Bauld, Chenise Crockett, Emily Echtenkamp, Moemi Kaneko, Alyssa Root, Hannah Swanson and Ermine Todd

Faculty sponsor: Darryl Thomas

Title: Sweet Dreams

Abstract: Sweet Dreams is a dance piece created by guest artist, Joel Schnee, for the WOU dance program. Mr. Schnee visited WOU in October of 2011, auditioned and selected dancers to perform his work. When asked about the piece, Mr. Schnee responded that it is about "a man's dreams..... the images are mixed sweet and sour.....the conclusion is in the memory of dreamer and the audience."

EARTH SCIENCE

Session chair: Steve Taylor

Session title: Earth Science Program for Undergraduate Research

Location: Werner University Center (WUC)

Posters

Kara Fisher, Cristina Francisco, Riccilee Keller, William Vreeland, Steve Taylor and Jeffrey Templeton

Faculty sponsors: Steve Taylor and Jeffrey Templeton

Title: Earth Science Program for Undergraduate Research

Abstract: This theme session presents the results of independent work from four students in the Earth science program during the 2011-12 academic year. Research topics include aspects of petrographic analysis and magma composition at Newberry Volcano, watershed analysis, applications of geographic information systems, geomorphic mapping, and salmonid population studies. Student titles in this theme session include: Kara Fisher, Earth science major (B.S.), *Examining Petrologic Linkages Between Dacitic Ash-Flow Tuffs at Newberry Volcano Through Textural and Compositional Analysis of Plagioclase Phenocrysts* [faculty mentor: Jeff Templeton]; Cristina Francisco, Earth science major (B.S.), *Geologic Setting of the Upper Nehalem Watershed: Framework for Geomorphic Analysis and Habitat Assessment* [faculty mentor: Steve Taylor]; Riccilee Keller, Earth science major (B.S.), *Lidar-Based Slope Models as a Guide for Geomorphic Mapping: A Case Study in the Upper*

Nehalem Watershed, Ore. [faculty mentor: Steve Taylor]; and Bill Vreeland, B.S. Earth science, *Georeferencing Rapid Bio-Assessment Survey Data: GIS Applications in the Upper Nehalem Watershed, Oregon* [faculty mentor: Steve Taylor].

11:30 a.m – 1:30 p.m., WUC Willamette Room

Cristina Francisco

Faculty sponsor: Steve Taylor

Title: Geologic Setting of the Upper Nehalem Watershed: Framework for Geomorphic Analysis and Habitat Assessment

11:30 a.m – 1:30 p.m., WUC Willamette Room

William Vreeland

Faculty sponsor: Steve Taylor

Title: Georeferencing Rapid Bio-Assessment Survey Data: GIS Applications in the Upper Nehalem Watershed, Ore

11:30 a.m – 1:30 p.m., WUC Willamette Room

Riccilee Keller

Faculty sponsor: Steve Taylor

Title: Lidar-Based Slope Models as a Guide for Geomorphic Mapping: A Case Study in the Upper Nehalem Watershed, Ore.

11:30 a.m – 1:30 p.m., WUC Willamette Room

Kara Fisher

Faculty sponsor: Jeffrey Templeton

Title: Examining Petrologic Linkages between Dacitic Ash-Flow Tuffs at Newberry Volcano through Textural and Compositional Analysis of Plagioclase Phenocrysts

EARTH SCIENCE

Session chair: Jeffrey Templeton

Session title: Case Studies in Volcano Monitoring and Hazards Mitigation

Location: Health and Wellness Center (HWC)

Presentations

1 – 1:10 p.m., HWC 105

Faculty presenter: Jeffrey Templeton

Title: Session Overview: Case Studies in Volcano Monitoring and Hazards Mitigation

1:10 – 1:30 p.m., HWC 105

Sarah Petersen

Faculty sponsor: Jeffrey Templeton

Title: Mapping and Modeling Volcanic Hazards at Mount Vesuvius

Abstract: With its long history of explosive eruptions and a large population living on its flanks, Mount Vesuvius is considered one of the most dangerous volcanoes in the world. In particular, pyroclastic flows are one of the most significant hazards at Vesuvius. Computer modeling programs are used to map the areas around Mount Vesuvius where people and property are at greatest risk from future eruptions. Comprehensive studies of the ancient volcanic deposits, eruptive history, geomorphology, and geography of the surrounding region are combined with computer modeling to develop hazard maps for the volcano. These strategies have been successfully applied to different volcanoes around the world.

1:30 – 1:50 p.m., HWC 105

Jacob Cruser

Faculty sponsor: Jeffrey Templeton

Title: Mapping Lahar Inundation Zones

Abstract: Lahars are a potentially destructive result of explosive volcanic eruptions, and in the Pacific Northwest of the United States, a number of communities are built upon ancient deposits. Because individual lahars can be of varying size depending on the volume of peak discharge, hazard mapping has employed both extrapolation techniques and mathematical approaches. As a test of the strategies from previous studies at other volcanoes, a map was developed to predict lahar paths likely to occur in the event of an eruption at Mt. Hood in Oregon. This new map was compared to professional maps to evaluate accuracy. The more information available about these hazards, the more practical it will be for authorities to mitigate their effects, protecting communities and their inhabitants.

1:50 – 2:10 p.m., HWC 105

Trevor J. Brown

Faculty sponsor: Jeffrey Templeton

Title: Lava Flow Hazards and Simulation Studies

Abstract: It is estimated that at least 10 percent of the world's population lives next to active volcanoes or ones that are a known risk. In particular, lava flows present numerous hazards to these communities. One method to understand lava flows and their hazards is through the use of computer-based flow simulation models. Programs, such as MAGFLOW and SCIARA, incorporate cellular automata modeling to predict flow behavior during an eruption and help identify areas that are at risk from inundation. Simulation modeling tools have been deployed successfully at Mt. Etna, a heavily populated volcano in Sicily, Italy. The recent lava flows at Etna have been extensively studied. The extent of information gathered from Mt. Etna makes it a prime candidate for studying the effects and hazards of lava flows using simulation techniques.

Break: 2:10 – 2:20 p.m.

2:20 – 2:40 p.m., HWC 105

Ken Buckingham

Faculty sponsor: Jeffrey Templeton

Title: Volcanic Ash Fallout Zone Prediction and Mitigation

Abstract: Volcanic ash is a dense, abrasive, and chemically corrosive material that can have far reaching impacts on populations due to wind distribution. Ash from explosive volcanic eruptions can cause power outages, water contamination, crop destruction, dangerous road conditions, aviation hazards, structural damage, and mental and physical health problems for inhabitants. Because of the limited understanding of the long-term effects of volcanic ash on people, mitigation is limited to preventing the short term impacts. As such, the most commonly accepted strategy is to cleanup ash immediately after an eruption. Using estimated wind speed and direction, along with the projected column height and volume, researchers use programs such as ASHFALL and FALL3D to calculate the likely fallout zone, thus allowing planning for the rapid cleanup after an eruption.

2:40 – 3 p.m., HWC 105

Joe Toliver

Faculty sponsor: Jeffrey Templeton

Title: Seismic Activity as an Eruption Forecaster

Abstract: Using seismic activity to forecast volcanic eruptions is one of the oldest techniques used by geologists in hazard mitigation. As early as the 19th century, Mt. Vesuvius was monitored using seismicity. Through the years, significant improvements have been made in technology and methods used to monitor the seismic activity of a volcanic setting, specifically in relation to magma movement. Seismicity precedes nearly all eruptions and can occur in any type of volcanic setting. As magma moves within a volcano, swarms of numerous small-scale earthquakes are recorded at a seismograph station. Considered by many to be the greatest indicator of an imminent eruption, seismic activity can give warning of a potential explosion up to days in advance. Implementation of monitoring techniques has allowed geologists to successfully forecast an impressive number of volcanic eruptions in multiple locations, greatly mitigating damage that may have otherwise occurred.

3 – 3:20 p.m., HWC 105

Riccilee Keller

Faculty sponsor: Jeffrey Templeton

Title: Remote Sensing Techniques used for Studying Volcanic Deformation

Abstract: Surface deformation related to volcanic activity can be detected, measured, and modeled using various remote sensing applications such as EDMs, GPS, and InSAR. Understanding methodologies associated with acquiring data related to changes in Earth's surface is imperative for making

interpretations regarding possible sources. Analysis of data acquired using different remote sensing methods allows precise measurements to be obtained. Changes in surface elevation provide data that can be used to create interpretive maps and models. Comparison of maps, like interferograms and DEMs, provides a visual component for analyzing surface deformation. EDMs, GPS, tilt-leveling, and InSAR are widely used around the world for monitoring patterns of surface discontinuities. These techniques have been deployed successfully at volcanoes such as Three Sisters, Medicine Lake, and Mt. Etna to constrain periods of deformation over time and to monitor volcanic activity.

3:20 – 3:40 p.m., HWC 105

Kara Fisher

Faculty sponsor: Jeffrey Templeton

Title: Monitoring Volcanic Gases: Insights into Predicting Future Eruptions

Abstract: Numerous studies at volcanoes worldwide have demonstrated a correlation between volcanic gas composition and eruptive activity. While quite hazardous to obtain at an erupting volcano, gas compositions, in particular CO₂/SO₂, are used to assess magma degassing processes and to evaluate the possibility of an eruption. In light of recent advances in technology, volcanic gas compositions can be measured from safe distances using FT-IR spectrometry. This technique employs an infrared heat source, such as a hot lava dome or heated ground, to detect certain volcanic gases. When first introduced, FT-IR spectrometry could only distinguish HCl and SO₂ within gas plumes, but this technique has been expanded to include HF, CO, CO₂, SiF₄, and H₂O. The ability to identify a wider range of gas components allows for broader implementation of analytical techniques to predict future volcanic eruptions.

Break: 3:40 – 3:50 p.m.

3:50 – 4:10 p.m., HWC 105

Brandon Ginos

Faculty sponsor: Jeffrey Templeton

Title: The Influence of Volcanic Eruptions on Global Climate

Abstract: Explosive volcanic eruptions eject large quantities of gas, aerosols and other fine-grained particulate matter into the atmosphere. In particular, the release of sulfur dioxide (SO₂) can have a dramatic influence on the global climate. Based on computer-based techniques such as the Community Climate System Model 3 (CCSM3), the effects of SO₂ on the climate are two-fold. First, changes in temperature occur locally and at a global scale. Analyses of ice cores show that large-scale eruptions appear to have initiated global cooling events. Secondly, the emission of great quantities of sulfur into the atmosphere influences ocean currents. Notably, the likelihood of an El Niño Southern Oscillation (ENSO) event occurring after a large explosive eruption is greatly increased. This research demonstrates the significant impact that volcanic eruptions have on global climate.

4:10 – 4:30 p.m., HWC 105

Spencer Helwig

Faculty sponsor: Jeffrey Templeton

Title: Warning Systems, Evacuation, and Emergency Response to Volcanic Hazards

Abstract: During volcanic eruptions, timely and effective warning systems can help save lives. Communication between three main groups, geologists, local authorities, and citizens, is essential to provide relevant safety information in a timely manner. Through effective communication and planning of evacuation routes, the safety and health of thousands can be secured. People who live closer to frequent volcano hazards are more receptive to warnings and have better knowledge of evacuation plans, because they trust that the warnings need to be taken seriously. Scheduled evacuation drills are occasionally performed near active volcanoes, and these drills have led to a more streamlined process of evacuation. Numerous volcanic hazards are present in the Pacific Northwest, such as lahars, pyroclastic flows, earthquakes, and ash fall. For this reason, citizens of the Pacific Northwest should be aware of volcanic hazard warning systems and evacuation routes.

4:30 – 4:50 p.m., HWC 105

Craig Johnson

Faculty sponsor: Jeffrey Templeton

Title: Volcanic Hazard Assessment of Nuclear Facilities

Abstract: In 2011, a massive earthquake and tsunami left Japan's Fukushima Nuclear Facility nonoperational and spawned one of the worst meltdowns since the inception of nuclear power. This event demonstrated that even nuclear facilities are not immune to the destructive power of natural disasters. With new nuclear plants planned in countries along the 'ring of fire' such as Indonesia and the Philippines, increasing attention is being paid to volcanic hazards as a threat to power plants and other nuclear facilities. In the United States, the proposed long-term, high-level nuclear waste repository at Yucca Mountain in Nevada has raised concern about volcanism in the field of nuclear waste management. In response to growing interest and concern regarding volcanic hazards, the International Atomic Energy Agency recently released a 97-page guide that examines these risks and provides guidelines for future nuclear site planning and potential hazard mitigation.

ENGLISH, WRITING AND LINGUISTICS

Session chair: Katherine Schmidt

Session title: English, Writing and Linguistics

Location: Hamersly Library (HL)

Symposium

8:30 – 9 a.m., HL 107

Phi Kappa Phi Writing Award Winners (TBA)

Faculty sponsor: Christine Harvey Horning

9 – 9:20 a.m., HL 107

Presenter 1: **Amanda Soto**

Faculty sponsor: Meg Artman

Title: Updating the System Used For Collecting Customer Information at NorthStar Trekking

Abstract: NorthStar Trekking is a successful helicopter and glacier tour operator based out of Juneau, Alaska. NorthStar's primary customers are cruise ship passengers, and therefore operate from May to September. NorthStar Trekking has been open for 14 seasons and has not changed its procedures for collecting and sending customer information. This outdated system has caused tension between the office and dock staff, hindered customers' first impressions, allowed for inaccurate customer information to be sent and has slowed down operations. The causes of the problems are static in the cell phone and background noise on the docks and in the office. The proposed recommendation of using iPads to collect and send customer information no longer makes the causes of the problems relevant. In addition to solving the problem, using iPads creates opportunity for improvement of other operational methods.

Presenter 2: **Alexandra Riecke-Gonzales**

Faculty sponsor: Meg Artman

Title: Encouraging the Communications Staff to Work Holidays in the Western Oregon University Public Safety Office

Abstract: With a necessity for constant student coverage at the Western Oregon University Public Safety communications desk an issue has developed with student employees unwilling to work required holiday shifts. This has led to poor employee morale, causing staff to be unhappy, or to quit, which means a constant intake of less trained employees. This jeopardizes the safety on campus. The proposed solution of providing holiday pay, evenly distributing holidays and giving preferred holidays off, and informing staff of job requirements upon hiring would increase job satisfaction via increased communication and incentive. This would encourage employees to remain with the public safety office longer, which would mean more qualified staff and, thus, a safer campus.

Presenter 3: **Katlyn Miller**

Faculty sponsor: Meg Artman

Title: Improving Walk-In Customer Satisfaction At High Street Shoe Repair

Abstract: I created a business proposal for my parents' business High Street Shoe Repair located in Salem, Ore. My proposal is on how to improve walk-in customer satisfaction within their business. I proposed four possible solutions, and found the pros and cons to each. Then I proposed the best possible solution for their business based on cost effectiveness, user friendliness, time saved, and chance for solving the problem.

9:20 – 9:30 a.m., HL 107

Laura Nott

Faculty sponsor: David Hargreaves

Title: An Analysis of Verbal Aspect in Native Speaker and Language Learner Narrative Writings

Abstract: Discourse analysis looks closely at language samples, analyzing specific structures and how they are being used. In this small discourse analysis study, I examine the use of simple progressive and perfect aspects in native and nonnative speakers' narrative writings. The results show a regularity in the language learners' use of verbal aspect, identifying this as an area for form-focused instruction in English as a Foreign Language (EFL). EFL instructors can use such discourse analysis studies to contrast their students' writing with that of native speakers in order to help their students achieve more native-like fluency.

9:30 – 9:40 a.m., HL 107

Rose Crooks

Faculty sponsor: David Hargreaves

Title: The Linguistics of American Sign Language Poetry

Abstract: A description of linguistic elements in American Sign Language (ASL) poetry. The presenter will perform an original, poem in ASL "viewpoint" and then describe the use of poetic devices in ASL including alliteration, metaphor, rhyme, meter, and rhythm.

9:40 – 10:10 a.m., HL 107

Presenter 1: **Sophia Wellons**

Faculty sponsor: Cornelia Paraskevas

Title: Personal Literacy Project

Presenter 2: **Katurah Hein**

Faculty sponsor: Cornelia Paraskevas

Title: A Few Aspects of Tyndale's English Translation of the New Testament from Koine Greek

Abstract: William Tyndale's translation of the New Testament from Greek into English in the early 16th century provides the foundation for all English Bibles that have since followed. Tyndale did not write for effect but clarity and precision. He used a predominantly Anglo-Saxon vocabulary, SVO syntax and paratactic structures in his text; the overwhelming result of this is an English that is clear and straightforward as well as syntactically tight and sound.

Presenter 3: **Evan Griffiths**

Faculty sponsor: Cornelia Paraskevas

Title: The Emote: The Evolution of Written Communication

Abstract: The study examines the function of emoticons in electronic communication (emails, text messages, and instant messaging). Emoticons are unstable—since they rely on context—and can be modified to alter in their meaning. They act as rudimentary substitute for face-to-face communication.

Presenters 4: **Rose Crooks and Brandon Fink**
Faculty sponsor: Cornelia Paraskevas

Title: The Changing Connotation of the Words Nerd and Geek

Abstract: The study examines the changing connotation of the words ‘nerd’ and ‘geek.’ Two features are worth mentioning: first, both words are becoming synonymous as shown by the fact that they are used interchangeably. Second, both words are in the process of amelioration. This process of change is ongoing since both positive and negative connotations exist for the words.

10:10 – 10:20 a.m., HL 107

Aaron Dull
Faculty sponsor: Katherine Schmidt

Title: Change (fiction)

Abstract: Nolan, a 28-year old barista, stuck in a world of incomplete moments, finds a new beginning in Brodie. Though a new friendship easily develops between the two, they find a much closer companionship when an accident turns into passion. Nolan is thrilled about the prospect of moving forward in life, but a serious question causes him to think. He may still be stuck in the past. Change is a short story that explores the idea that one small act can both prohibit and enable a person to move forward in life.

10:20 – 10:30 a.m., HL 107

Jill Bourgeois Ekins
Faculty sponsor: Katherine Schmidt

Title: To Kill a Dragon (fiction)

Abstract: To Kill a Dragon is about an eight-year-old girl named Alice who lives in a land that is being terrorized by a fierce dragon. In the hopes of ridding her home of the dragon, Alice goes to the local wizard to seek his aid. When she finds the wizard, Bjorn, Alice learns something that changes her life. She learns that she herself is a wizard. To Alice’s distress, the cantankerous old man tells her that as a wizard, it is her duty to face the dragon. With Bjorn’s help, Alice starts to learn who she is called to be and gains the strength and skill to kill the dragon.

10:30 – 10:40 a.m., HL 107

Justin Rush
Faculty sponsor: Katherine Schmidt

Title: The Road More or Less Traveled (fiction)

Abstract: Wilton and his friend Osgood are looking to blow off a little steam at a local bar, but their night takes an unexpected turn when they are pulled over by police leaving the bar. A fiasco ensues. Wilton—aching to escape the legacy of his dead-beat drunk of a father—finds himself struggling to come to terms with his identity and forge his own path in life. At a crossroads, he can either stay true to himself and confront his heritage, or continue to run from his past one safe decision at a time.

10:40 – 11 a.m., HL 107

Presenter 1: **Joseph McCaslin**
Faculty sponsor: Henry Hughes

Title: Selected Poems

Presenter 2: **Brittany Combs**
Faculty sponsor: Henry Hughes

Title: Selected Poems

Presenter 3: **Monica Millner**
Faculty sponsor: Henry Hughes

Title: Selected Poems

11 – 11:05 a.m., HL 107

Rhiannon Goodfellow, Sarah Parrish and Rose Thormahlen
Faculty sponsor: Katherine Schmidt

Title: The Adventures of Sir Parsnip Literally (digital composition)

Abstract: *The Adventures of Sir Parsnip Literally* is a wild and fantastic adventure that reflects the issues of procrastination faced by students today. In addition to its thematic message and aims, *The Adventures of Sir Parsnip Literally* serves as an example at what collaborative writing can produce and illustrates the possibilities that new digital software can lend to storytelling.

11:05 – 11:45 a.m., HL 107

Winners of the Meyers Prizes (to be announced)
Faculty sponsor: Gavin Keulks

GENERAL SCIENCE HONORS

Session chairs: Philip Wade and Arlene Courtney

Session title: Student Created Documentaries on Energy

Resources

Location: Natural Sciences (NS)

Presentations

8 – 8:15 a.m., NS 101

Kristin Mahoney and Jenae Nelson

Faculty sponsors: Arlene Courtney and Philip Wade

Title: Fukushima Daiichi Nuclear Disaster: Implications for Japan & Beyond

Abstract: In March of 2011, a 9.0 magnitude earthquake occurred off the coast of Japan. The tsunami that followed wreaked havoc along a huge stretch of Japan's Eastern Coast, devastating a number of towns and villages, including Fukushima. Within this province, the Daiichi nuclear power plant was so damaged, nuclear meltdown was imminent. Radiation seeped into the surrounding regions, both in its gas and liquid form, making evacuations necessary. Our video will explore the effects the earthquake and tsunami had on the Daiichi plant; coupled with the sciences behind the structure of a nuclear power plant. We will also examine the implications this meltdown had for all of Japan as well as its' larger possible effects on the world, specifically the Oregon Coast.

8:15 – 8:30 a.m., NS 101

Marissa Thompson and Chelsea Walsh

Faculty sponsors: Arlene Courtney and Philip Wade

Title: The Practicality of Hydrogen Fuel Cells as a Future Energy Source

Abstract: This report examines hydrogen as an alternative energy source for technology. Both the composition and sources of hydrogen are described, and an analysis of the efficiency of fuel cells is presented. The report provides examples of the involvement of organizations (such as the United States Department of Energy and National Aeronautics and Space Administration) in the development of fuel cells, as well as specific technologies that use them. Predictions of the practicality and widespread use of hydrogen fuel cells as a significant energy source are included, as well as detailed justifications for these predictions. An explanation of safety codes and standards concludes the report.

8:30 – 8:45 a.m., NS 101

Jillian Johnson and Stephanie Adams

Faculty sponsors: Arlene Courtney and Philip Wade

Title: In the Footsteps of Thoreau: Learning to Live Off the Grid

Abstract: When Henry David Thoreau made the decision to live in the woods for two years, he was demonstrating a "simplistic" way of life. Today, both individuals and families

are taking the same initiative to minimize their reliance on the power grid through modern technologies. Some households have made the transition to living completely off the grid, consuming only the energy they themselves collect. This documentary will cover alternative ways U.S. citizens can create and consume energy with the goal of reducing overall energy consumption. Additionally, various technologies implemented to save and/or create energy will be explored. These include, but are not limited to, solar, wind, and thermal technologies. To conclude, this documentary will provide suggestions for how we can lessen our impact on our world, much like Thoreau's 1845 pursuit.

8:45 – 9 a.m., NS 101

Daniel J. Tew and Zachary W. Jones

Faculty sponsors: Arlene Courtney and Philip Wade

Title: The Transportation of Fuels in Oregon

Abstract: In this documentary we will take a closer look at how fuel sources are transported. We will address the pros and cons of each and their local impact on the state of Oregon. We typically take it for granted, but we use fuels on a daily basis. When we turn on a light, drive a car, or heat up a meal we take advantage of all sorts of fuels. We usually do not take the time to think of how these fuels are transported from their original sources to our homes, workplaces, and stores. The transportation of these diverse fuels is a vital industry that is often overlooked. Whether it's a train, truck, pipe line, or power line, the transportation of these fuels is an intricate process.

9 – 9:15 a.m., NS 101

Sheridan Bailey and Bonnie Wells

Faculty sponsors: Arlene Courtney and Philip Wade

Title: Biomassive Generation

Abstract: As the energy crisis advances into the modern era, many alternatives to fossil fuels are currently being explored, among them lay a relatively simple concept: biomass. Sources of biomass can literally come from any biological material from which energy can be reaped. However, for this video project the main substances focused upon will be wood, waste, and alcohol-based fuels. The applications of biomass as an energy producing resource generally fall into three categories: direct heat, fuel for cars, and the recycling of biological material for consumer purposes. Depending on what use is chosen as the desired output, its relative usability, reliability, and applicability will vary. Furthermore, biomass is considered a "renewable" energy source, though really the material should be targeted for relative efficiency. As new technologies develop, the pros and cons of biomass are becoming increasingly prevalent as it evolves into a viable source to satiate our energy needs.

9:15 – 9:30 a.m., NS 101

Laura Killip and Amelia Dieter

Faculty sponsors: Arlene Courtney and Philip Wade

Title: Iceland: The Land of Fire, Ice, and Hydrogen

Abstract: While the movement towards renewable energy seems like a newly developed fad, scientists in Iceland have been researching new sources of energy since the 1970's. Being blessed with all sorts of geological super powers allows them to experiment with all kinds of new energy harnessing technologies. This documentary will look into some of the renewable energy forms that Iceland is spearheading, including hydrogen power, geothermal energy, and hydro-power, as well as the cultural influences that have caused Iceland to be one of the most forward thinking countries in the world. We will also look into how the United States and the rest of the world are benefiting from the research being done in the land of fire and ice.

9:30 – 9:45 a.m., NS 101

David Avery and Curtis Harper

Faculty sponsors: Arlene Courtney and Philip Wade

Title: Shine on me, for Electricity

Abstract: The sun is constantly bombarding us with solar radiation, much of which gets simply ignored. There have been many processes to collect and harness this radiation as a source of electricity and, with the current focus on green technologies, solar energy is becoming part of the growing future energy plan. In this project we will explore, specifically, what the actual process of this phenomenon is, and the common forms they are portrayed in. We will also examine the reasons for, and against solar technologies from both the economic and environmental viewpoint, as well as where solar technologies may head in the future. Lastly, we will examine a new development on the Oregon Solar Highway Project at Baldock rest stop along Interstate 5 and see why it is of great concern for ODOT to use only renewable energies by 2025.

9:45 – 10 a.m., NS 101

Olivia Read and Jose Garcia

Faculty sponsors: Arlene Courtney and Philip Wade

Title: The Rise of the Hybrid Car

Abstract: In a time when gas prices are steadily rising, people are beginning to look for alternative ways to get where they need to go. Thus, hybrid cars are becoming more popular, especially as their prices are beginning to decrease. This video project focuses on the benefits and drawbacks, such as their efficiency and impact on the environment, of hybrid, electric, and hydrogen powered cars. Comparisons will be made between these different vehicle types to help determine which type of car could be a viable replacement for the standard gas powered automobile that most people drive today. Finally, a look at the history of hybrid, electric, and hydrogen powered cars will help us gain an understanding of how they have influenced the cars we have available to us today.

GRADUATE STUDIES

Session chairs: Bill Hamlin and Amber Deets

Session title: Graduate Poster Session

Location: Werner University Center (WUC)

Posters

2 – 4 p.m., WUC Willamette Room

Allyson Hindal

Faculty sponsor: Marie LeJeune

Title: Impact of Code-Switching Mentor Tasks on Bilingual Elementary Students

Abstract: English language learners are often unable to incorporate aspects of the home culture or language into the regular classroom. This practice often hinders students' abilities to develop their English fluency or increase literacy in their home language, as well as gives them the impression that their home culture is unacceptable. This study looked at the impact of picture books that use English and Spanish interchangeably on second and third grade Latino writers.

2 – 4 p.m., WUC Willamette Room

Jessica Ely

Faculty sponsor: Chloe Hughes

Title: Breaking the Silence: How Parental Mental Health Issues Affect Children

Abstract: Parents have a significant influence on the development and growth of the lives of their children. Children who have a parent that has a mental illness can find it difficult to express and vocalize to a trusted adult the difficulties they are facing in the home. I would like to discuss a children's book that I have written which displays a young girl struggling with similar issues. An in-depth discussion with educational professionals about possible warning signs and challenges that these children face will help break this silenced topic and give these children the support that they need.

2 – 4 p.m., WUC Willamette Room

Lauren Pangle

Faculty sponsor: Chloe Hughes

Title: Launching Language and Literacy Development Through Listening

Abstract: To promote language development and literacy for my special needs students, I will audio record books so my students can listen to stories before they are used for whole group or small group instruction. The audio books will pre-teach vocabulary, model fluent and expressive reading, and guide comprehension. It is my hypothesis and my hope that by giving students the opportunity to interact with stories individually prior to interacting with them in a group setting; it will increase comprehension, vocabulary, language development, participation in group lessons, self-confidence and overall literacy development.

2 – 4 p.m., WUC Willamette Room

Kari Miller and Kara Dickey

Faculty sponsor: Chloe Hughes

Title: The Effects of Critical Literacy on Reading in Low Socio-Economic First and Second Grade Students

Abstract: The purpose of this action research project was to find out what would happen if critical literacy strategies were used in first and second grade classrooms. The students in this study come from a very low socio-economic school. Students were read picture books that addressed social issues such as race, gender and socio-economic status. Students responded to the texts through various methods including discussion, graphic organizers, pictures and writing. First and second grade students were often paired with a student from another grade and they worked together to draw and write in response to books.

2 – 4 p.m., WUC Willamette Room

Jeremy Wanak

Faculty sponsor: Adele Schepige

Title: Evolution of Curriculum Design

Abstract: As standardized testing programs fail to provide appropriate feedback for program level diagnostics, this project seeks to redesign and test evolution curriculum at the site level. Working with 55 honors biology students, this project measures student progress toward learning targets by a proficiency model. Learning objectives are identified and curriculum components designed with emphasis on best practices techniques including inquiry, reading and writing for learning. Student preconceptions are identified by pre-test and conceptual development is monitored by formative assessment. Student post-session evaluations provide student perspectives on curriculum success. Post-test results are evaluated and recommendations are made for revisions.

2 – 4 p.m., WUC Willamette Room

Emily Cunningham

Faculty sponsor: Marie LeJeune

Title: Navigating Postmodern Picture Books

Abstract: Postmodern picture books contain something unusual that makes them different from regular picture books. This uniqueness makes them more challenging for students, and teachers, to comprehend. This research project looks at the way that students and teachers navigate and work to understand this genre of picture books.

2 – 4 p.m., WUC Willamette Room

Diana Wanek

Faculty sponsor: Mary Bucy

Title: Diana Wanek's E-Portfolio

Abstract: My e-portfolio is designed for prospective employers to catch a glimpse of who I am as a person, as well

as who I am as a technology educator. The emphasis in the e-portfolio is examples of lessons that meet the International Society of Technology Education (ISTE) standards for students. The e-portfolio also contains the ISTE standards for teachers with examples of my proficiency in the these areas. Additional areas of focus are connections for parents to my classroom, reflective writings on issues in technology as well as current literature in technology. Supplementary resource files for technology instruction and an ongoing collection of lessons/rubrics.

2 – 4 p.m., WUC Willamette Room

Janine de Paz and Landon Ross

Faculty sponsor: Chung-Fan Ni

Title: A Glance at Military Women and Veterans

Abstract: Throughout history women have served in combat and non-combat roles during military campaigns around the world. They are currently seeing more combat than at any other time in American history. Women in the military represent the fastest growing demographic in the United States Armed Forces. The transition back to the home front is often complicated by physical as well as mental wounds attributed to serving their country in armed conflicts. Right now there is an epidemic of sexual assault plaguing the U. S. Military. Suicide, homelessness, unemployment and other psychosocial aspects are currently impeding veteran reintegration.

2 – 4 p.m., WUC Willamette Room

Sue McClure and Sarah Klaja

Faculty sponsor: Chung-Fan Ni

Title: Service Animals: Underdog to Wonderdog

Abstract: Uniquely trained service animals create a partnership with individuals who have sensory loss; with the purpose of enhancing independence and mobility. Dogs are the most common animal used for this purpose. The origination of service animals in the United States was in lieu of injured and blinded servicemen of the Second World War; service animals for the Deaf started in the late 1970s. The Americans with Disabilities Act (ADA) protects and allows individuals with service animals access to all public places. Service animal programs are funded by volunteers, individual and service group donations, and fundraising.

2 – 4 p.m., WUC Willamette Room

Mark Davis

Faculty sponsor: Holly Eckles

Title: The Affects and Effects of a Student Self-Directed Learning Project

Abstract: This study seeks to examine the motivational effects of having students take ownership of their own learning. The students were given two Oregon State Common Core Standards for the English Language Arts and asked to develop a project, which would demonstrate their mastery

of them in a senior level mythology class. In order to give the students the impetus they would need to complete the project from the initial planning and design stage all the way through its execution, the study relied on the motivational effects of self-differentiation and choice in the assignment. It determined that offering students meaningful choices in their own work has a powerful motivational influence.

2 – 4 p.m., WUC Willamette Room

Helen Fausett

Faculty sponsor: Holly Eckles

Title: Influence of Guest Speakers on Students' Career Outlook

Abstract: The author examined the factors influencing high school students' career aspirations with a study analyzing 12 high school students in a rural area. In this study, students listened to professionals, who came into a business class as a guest speaker, to discuss and demonstrate aspects of their business professions. Pre- and post-test analysis of occupational self-efficacy, or confidence in performing the duties associated with the guest speakers, revealed that this variable was strongly influenced in the short term. The author discusses these results in the context of self-efficacy theory as well as implications for business teachers engaged in career development.

2 – 4 p.m., WUC Willamette Room

Mary Matocha

Faculty sponsor: Holly Eckles

Title: Evaluating Outcomes of Various Collaborative Work Environments in the Classroom

Abstract: Collaborative groups are used often in today's classroom, but the recipe for an effective grouping is still unclear. This quantitative study looked at the correlation between student preferences for types of groupings and academic achievement. Students worked in various groupings: self-chosen pairs and groups of four to six, teacher-chosen pairs, academically homogenous and heterogeneous groups, and same gender groups. After each experience, students completed a survey asking them to rate their experience on a scale of one to five. Means were calculated and this data was compared to grades received on projects completed in the groups to determine if there was a correlation between survey scores and student achievement.

2 – 4 p.m., WUC Willamette Room

Justin Rush

Faculty sponsor: Holly Eckles

Title: Why are Students so Apprehensive about Writing?

Abstract: The research project explores the underlying experiences and causes behind the aversion many K-12 students hold toward writing. Consisting of a questionnaire, individual interviews, and a focus group, the study delves

into students' feelings and attitudes toward writing—allowing their voices to be heard, in the hopes of improving future writing instruction in schools. With the exorbitant amounts spent on writing remediation constantly climbing, student apprehension toward writing is a problem that must be addressed. This study seeks answers to this problem from the people who should know the most about it—the students.

2 – 4 p.m., WUC Willamette Room

Jim Fitzgerald

Faculty sponsor: Holly Eckles

Title: The Relationship between Self-Perception of Math Ability and Math Performance

Abstract: In this study, I examine the relationship between the self perception of math ability and math performance. High school geometry and algebra II students describe how they perceive their own math ability, where they think math ability comes from, and how they feel other people (family, teachers and peers) perceive their math ability. The student responses are then compared to their academic performance. The results show that students who believe that others see them as having natural math ability have a high self-perception of their own math ability and perform better in mathematics.

2 – 4 p.m., WUC Willamette Room

Waleed T. Naghi

Faculty sponsor: Hamid Bahari-Kashani

Title: Cloud Computing

Other Master of Arts in Teaching students presenting include:

Dawn Marie Blackwell (*faculty sponsor:* Holly Eckles)

Meriel Hartling (*faculty sponsor:* Holly Eckles)

Timothy Treen (*faculty sponsor:* Holly Eckles)

Thomas D. Roberts (*faculty sponsor:* Carmen Caceda)

History graduate students presenting at a separate History Department Graduate Seminar session include:

Duke Morton (*faculty sponsor:* Kimberly Jensen)

Jeffrey Sawyer (*faculty sponsor:* Kimberly Jensen)

Toni Rush (*faculty sponsor:* Kimberly Jensen)

Hannah Marshall (*faculty sponsor:* Kimberly Jensen)

Diane Huddleston (*faculty sponsor:* Kimberly Jensen)

Brittney Teal-Cribbs (*faculty sponsor:* Patricia Goldsworthy-Bishop)

Music recordings provided by current students and alumni of the Master of Music in Contemporary Music degree program. Music faculty sponsor: Kevin Walczyk.

HEALTH, PHYSICAL EDUCATION, AND EXERCISE SCIENCE

Session chair: Amy Hammermeister

Session title: Health / Physical Education / Exercise Science

Location: Health and Wellness Center (HWC)

Presentations

9 – 9:30 a.m., HWC 203

Casey Baarson, Michael Herrman, Macy Bothman, Lindsay Crawford and Nicholas Duvall

Faculty sponsor: Gay Timken

Title: The Change in P.E. Today

Abstract: Many people believe physical education is a non-credible education class that can be cut by a school district in the times of a budget crisis. This presentation will focus on the changes currently happening in physical education and then go into depth on what a quality P.E. class comprises. We will demonstrate the amount of detail, diligence, and expertise that was put into our experience creating a mini-work sample consisting of curriculum development, lesson planning, assessments, and teaching practicum reflections. The desire and passion we have will be interwoven throughout the presentation to emphasize our passion to create a quality physical education program.

9:30 – 10 a.m., HWC 203

Jenni Anderson and Brandy Quinn

Faculty sponsor: Brian Caster

Title: Running Prosthetic Usage: An Analysis of Biomechanical Efficiency

Abstract: The purpose of this project was to examine differences and similarities between prosthetic and able body running, with a focus on biomechanical efficiency. Following a review of the literature on these topics, a qualitative analysis of running phase key features was created, and a video based analysis of velocity, acceleration, joint angles, and lower extremity motion tracking was conducted. These analysis methods highlighted key difference in achieving a given running velocity between the amputee and able-bodied runner, through differing running cycle phase durations, and varying joint ranges of motion. This project provided valuable insight into overall running economy.

10 – 10:30 a.m., HWC 203

Fedosia Masaligin

Faculty sponsor: Warren Allen

Title: Ethical Issues in Reproductive Technologies

Abstract: The purpose of the presentation is to explore the prevalence of and ethical issues behind the current reproductive technologies available in America. In the last two decades, we have seen rapid increases in medical technologies designed to assist in reproduction. Using reproductive technologies raises issues that require an

understanding of the ethical core principles in order to view these services in true perspective. This presentation will also look at Preimplantation Genetic Diagnosis (PGD), Preimplantation Genetic Screening (PGS) and how they are being used in conjunction with fertility treatments for “family balancing” and gender “tailored” conceptions.

10:30 – 11 a.m., HWC 203

Kacey Setzer, Haley Appelman, Carrie Dicarolo and Sandra Lopez

Faculty sponsor: Doris Cancel-Tirado

Title: An Evaluation Plan: Obesity and Type II Diabetes Prevention Program

Abstract: An evaluation plan for the 5210 Club implemented at Grant Elementary School in Salem. The comprehensive evaluation plan explores a variety of evidence based tools recommended for the Community Health Education Center at Salem Hospital to use the accurately measure the effectiveness and satisfaction of the 5210 Club. Currently, this program is a pilot study at Grant Elementary, where the participants in the program will be educated on the importance of healthy eating and lifestyle choices to prevent childhood obesity and type II diabetes.

11 – 11:30 a.m., HWC 203

Kristoffer Molloy and Tesalee Sensibaugh

Faculty sponsor: Shawn Sellers

Title: Comprehensive Sexuality Education

Abstract: Currently, most middle- through high-school sexuality education programs in the United States are based on abstinence-only curricula. Abstinence-only courses restrict students’ access to important information about sex and, further, they have been shown to produce no significant positive effects in the sex-related measures most commonly examined in research (and in some cases even produce negative effects). By contrast, comprehensive sexuality education programs, which emphasize sexual health, have considerably more positive student outcomes (including delaying initiation of sex) and so represent a potentially beneficial alternative to the traditional American sex-ed model.

HEALTH, PHYSICAL EDUCATION, AND EXERCISE SCIENCE

Session chair: Amy Hammermeister

Session title: Health / Physical Education / Exercise Science

Location: Werner University Center (WUC)

Posters

11:30 a.m. – 1:30 p.m., WUC Willamette Room

Heidi Davis, Max Rothenberger, and Nicholas Conroy

Faculty sponsor: Brian Caster

Title: The effectiveness of KT tape on proprioception of the arm.

Abstract: Athletic trainers, physical therapists, and other rehabilitation professionals stress the importance of proprioceptive re-education during the rehabilitation process following an injury. Additionally, proprioception is a key element in injury prevention and athletic ability. KT tape and similar products are purported to facilitate such proprioception. This study tested the hypothesis that after application of KT tape to the biceps brachii and brachioradialis in a facilitated direction there will be an increase in proprioception of the forearm indicated by a decrease in overall elbow angle deviation with respect to a specific reference angle.

11:30 a.m. – 1:30 p.m., WUC Willamette Room

Zander Albertson, Kelsey Gray, Daniel J. Tew, and Mike Stevenson

Faculty sponsor: Robert Hautala

Title: PE 399H (Why Do We Move?) An Honors Seminar

Abstract: Why Do We Move? was an honors seminar course that challenged students to take a creative, interdisciplinary look at the question, why do we move? Students were placed into groups and assigned topics in the three categories of science, arts and “other.” Each group presented their topic information to the class by engaging them in interactive presentations. Throughout students’ attempts to answer this question, they were able to gain a deeper appreciation of the role of movement in our world. This poster session will be a presentation of the 15 presentations, compiled in an interactive website.

11:30 a.m. – 1:30 p.m., WUC Willamette Room

Laurie ONeal

Faculty sponsor: Janet Roberts

Title: Hungry Like the Wolf

Abstract: There is nothing worse than sitting in class, listening to a professor, and having your stomach answer for you. Hungry Like the Wolf is a food pantry opening at Western Oregon University to combat food insecurity. A program planning class conducted a study on campus and found nearly 60 percent of students did not know where they would get their next meal. Hungry Like the Wolf will provide an education in food and money budgeting, nutrition, and cooking; as well as provide emergency food supplies in order to prevent students from being food insecure now and in the future.

HISTORY

Session chair: Bau Hwa Hsieh

Session title: History Department Undergraduate Senior Thesis Presentations

Location: Natural Sciences (NS)

History Department Undergraduate Senior Thesis Session

History majors at WOU complete their degree by conducting research and writing a senior thesis in their final full year of study. In the fall term of their senior year students select a research paper that they have written for one of their upper-division history courses to revise and expand for their thesis. In winter term students enroll in HIST 420W (Philosophies of History.) And in the spring term students enroll in HIST 499W (Senior Thesis), where they complete the work of expanding and deepening their secondary and primary source analysis. Students participate in a conference-style presentation of their work at this Academic Excellence Showcase. Copies of senior theses are posted on the History Department website and bound in volumes in the Hamersly Library. *Duke Morton is gratefully acknowledged for his invaluable assistance in organizing this year’s Undergraduate Senior Thesis abstracts for the Showcase Proceedings.*

8 – 8:20 a.m., NS 103

David Siewell

Faculty Sponsors: David Doellinger and Kimberly Jensen

Title: The Riurikid Relationship with the Orthodox Christian Church in Kievan Rus

Abstract: Vladimir I was ultimately canonized for his 988 adoption of Orthodox Christianity as the state religion of Kievan Rus. Following the conversion, Vladimir and his Varangian Riurikid heirs developed a relationship of mutual promotion that linked the legitimacy of the Church to their own. Using Russian chronicles, law codes, eulogies, and testaments this paper will show evidence of that relationship and suggests that the adoption of Christianity was less about personal piety and more an attempt to create a perceived link between religion and government with the intent of legitimizing their claim to rule in the eyes of the Kievan Rus population.

8:20 – 8:40 a.m., NS 103

Devan Christine Walsh

Faculty Sponsors: David Doellinger and Patricia Goldsworthy-Bishop

Title: In Depth Analysis of Peter the Greats Social Reforms and the Justification of the Reactions from the General Public

Abstract: Peter the Great was widely known for the reforms he established in Imperial Russia. He was the first to bring Western traditions to his land and change the everyday lives of his people. Social reforms affected the general public more drastically than any other reforms. Peter changed the social pyramid and physical aspects of the people and crumbled traditional values. With personal accounts we can see the emotional impact that the reforms had on the people and explore whether or not there was justification to their reaction.

8:40 – 9 a.m., NS 103

Christopher Malmberg

Faculty Sponsors: Max Geier and Christine Harvey-Horning

Title: Puritan Order as Means of Survival

Abstract: Puritan society in New England has long been the talk of historians and popular culture alike. The stories surrounding these stoic forefathers present an image of a society deeply entrenched in their religious beliefs, wherein any sway from the ordered society ends in punishment. Looking at earlier settlements that failed with tragic results, such as at Jamestown, where order was put to the side so that economic gain could reign, sheds light onto the rigid order the Puritans in New England created. Their order meant survival, which was the determining factor to their success.

9 – 9:20 a.m., NS 103

Josephine Colburn

Faculty Sponsors: Max Geier and Kimberly Jensen

Title: Gender and Salem Witch Trials of 1692

Abstract: Mass hysteria, community paranoia and male-centric control are part of the legacy of the 1692 Salem Witchcraft Trials. My research focuses on a gender analysis of this time. I have also looked at the way in which gender was entrenched in the discussions and works about the trials beyond the seventeenth century. This analysis examines the way in which historians have approached gender in regards to the Salem Witchcraft Trials. It also analyzes how novelists and playwrights approached gender and the trials during the Twentieth Century. I examine the way these different approaches were a commentary on the trials of the past and events of the present.

9:20 – 9:40 a.m., NS 103

Jessica Strawn

Faculty Sponsors: Bau Hwa Hsieh and Alaric Trousdale

Title: Mount Taishan and its Cultural Significance in China

Abstract: Mount Taishan has inspired the Confucian ideology and served as a religious and natural wonder, attracting numerous Chinese pilgrims every year. In this presentation I will discuss the mountain's influence on the Confucian tradition, as both a spiritual and physical space.

9:40 – 10 a.m., NS 103

Patrick Melby

Faculty Sponsors: Max Geier and Alaric Trousdale

Title: The Impact of the Royal Navy on the World's Forests, 1200-1850

Abstract: This paper attempts to re-imagine the extent to which timber demands of the Royal Navy impacted the landscape. While current scholarship claims that the demand of ship timber was too insignificant to have a marked impact on the landscape, this paper argues that the regenerative ability of trees could not cope entirely with the demands placed on forests by Royal shipbuilding. Instead, while demand for ship timber was spread too thin to be a singular cause of deforestation, the rate of usage likely outpaced that of regeneration, causing a gradual but extensive impact on Britain's and the world's forests.

10 – 10:20 a.m., NS 103

Amanda Cirillo

Faculty Sponsors: Kimberly Jensen and Max Geier

Title: The Growth of Labor Relations during World War II: A Comparison of Henry Kaiser and Henry Ford

Abstract: This thesis examines the business practices of Henry Kaiser and Henry Ford during the World War II period (1939 to 1945). In this time, many businesses had to change what they produced to provide for the war effort as well as deal with an influx of new workers to replace the men who left for war. To explore these changes, this paper examines the differences between the entrepreneur in the West, Henry Kaiser, with his involvement in wartime business and postwar ideas and the inventor turned business owner in the Midwest, Henry Ford, with his anti-war but pro-American sentiments.

10:20 – 10:40 a.m., NS 103

Travis Robinson

Faculty Sponsors: Kimberly Jensen and Max Geier

Title: Red Cross: Service and Outcome

Abstract: During World War II roughly 7.5 million people volunteered for the Red Cross. This paper examines the reasons why women and men joined the Red Cross and how the experience of Red Cross wartime service impacted their lives. It will analyze the complexity of the organization itself and draw conclusions about volunteer service in World War II.

10:40 – 11 a.m., NS 103

Dan Sprinkle

Faculty Sponsors: John Rector and Max Geier

Title: Origins of Ché Guevara's Radicalism

Abstract: Ernesto Guevara is constantly dramatized and idolized for the things he did later in his life in the Congo, Guatemala, and Cuba pertaining to socialist revolution. This presentation will address Ché's early life, from childhood to his stint in medical school, until he decided to tour Latin America by motorcycle, when he developed his final political beliefs. I intend to discuss just what exactly it was that turned Ché from a liberal Argentine from a wealthy family into a violent freedom fighter who encouraged worldwide revolution.

11 – 11:20 a.m., NS 103

Greg Garcia Jr.

Faculty Sponsors: John Rector and Kimberly Jensen

Title: Apocalypse Then? Could Fidel Castro Launch the Missiles During the Caribbean Crisis?

Abstract: The purpose of this presentation is to provide an academic speech about Fidel Castro's role in the Cuban Missile Crisis. The scope of this presentation is currently scheduled to span from the Triumph of the Cuban Revolution

in 1959 to shortly after the Crisis in 1962. In doing this, I will construct the context of U.S.-Cuban relations during the middle part of the 20th Century. I believe constructing this context is necessary for constructing a Cuban perspective of this conflict; a concept which --- as several experts on this topic have pointed out--- has mostly been ignored by mainstream historians.

11:20 – 11:40 a.m., NS 103

Michael Granat

Faculty sponsors: John Rector and Michael McGlade

Title: Without Bread or Work in the New Millenium: Effects of Argentine Economic Policy in the Crash of 2001

Abstract: The years of 2001 to 2002 proved to be devastating for the Argentine government and for the economy at large. After losing more than half of their GDP, Argentina faced larger questions over the effectiveness of the Neoliberal economic policies adopted only a short time before. This presentation examines the extent to which Neoliberal policies were to blame for Argentina's woes.

11:40 a.m. – noon, NS 103

Jennifer Ross

Faculty sponsors: David Doellinger and Kimberly Jensen

Title: Projections of Complicity: Narratives of Rape Survivors in Wartime Bosnia 1992-1995

Abstract: During the Bosnian War (1992-1995) it is estimated that 20,000-50,000 Bosnian Muslim women were raped, primarily by Serbian military and paramilitary forces. These mass rapes were systematically employed as a strategy called "ethnic cleansing" in which all non-Serb peoples were either killed, forcibly removed, or terrorized with the intent from removing them from an entire area. Using narratives and court testimony from the rape survivors I will show the ways in which the soldiers attempted to project blame onto their victims, and by so doing, "justify" the atrocities they were committing.

HISTORY

Session chairs: David Doellinger and Kimberly Jensen

Session title: History Department Graduate Seminar Presentations

Location: Natural Sciences (NS)

History Department Graduate Seminar Paper Presentations

The history department at Western Oregon University began its Master of Arts in History program in fall 2009. The department offers graduate courses in three fields: North American history, European history and world (Latin American and Asian) history. Graduate students complete coursework in a primary field and a secondary field. As part of the requirements for the M.A. degree students enroll in at least one seminar class in their primary field and one in their secondary field. The seminar course focuses on the

production of an article-length paper that draws upon a strong knowledge of secondary sources (the work of other historians in the field) and original research in primary sources. M.A. students participate in a conference-style presentation of one of their seminar papers for this Academic Excellence Showcase session. *Brittney Teal-Cribbs is gratefully acknowledged for her invaluable assistance in organizing this year's Graduate Seminar abstracts for the Showcase Proceedings.*

1 – 1:30 p.m., NS 103

Duke Morton

Faculty sponsor: Kimberly Jensen

Title: Representations of the 1907 Financial Crisis in Oregon

Abstract: Several newspapers provided both information and advice to the citizens of Portland and Oregon during the financial crisis of 1907. One of the tasks taken up by the newspapers was to explain the circumstances and origins of the credit and cash shortages in Oregon, a second was to provide a projection for the course that events would take, and a third was to editorialize. A careful reading of the articles and editorials of *The Oregonian*, *The Daily News*, and *The Oregon Journal* show distinct perspectives aligned with opposing political and economic interests.

1:30 – 2 p.m., NS 103

Jeffrey Sawyer

Faculty sponsor: Kimberly Jensen

Title: Oregon's Capital Punishment Debate of the Progressive Era

Abstract: The abolition of capital punishment came before Oregon voters three times during the Progressive Era (1890-1920). In 1912 the bill to abolish capital punishment was roundly defeated by a 60-40 margin. Over the next two years, the growth of grassroots organizers, the advocacy of Oregon's governor Oswald West, and coverage by the Oregon Journal worked in different ways to recast capital punishment as a civil rights issue and to frame it as a practice only used by "barbaric societies". Oregonians were more receptive to this idea in the 1914 election, abolishing capital punishment by a razor-thin margin of 157 votes.

2 – 2:30 p.m., NS 103

Toni Rush

Faculty sponsor: Kimberly Jensen

Title: Food Farms and Industry: Oregon's Interpretations of the Pure Food Act, 1906-07

Abstract: My paper will evaluate the roles of Oregon newspapers from 1906 and 1907 in understanding the Pure Food Acts that passed on both the regional and national level. While many identify the Pure Food Act as an act that was passed to prevent unsanitary conditions in the meat packing industry of Chicago, my paper argues that the effects of the Pure Food Act had implications in Oregon and was a major focal point of Progressive Era Oregon. By looking at

newspapers from Oregon in these years, one can see what the popular opinions of editors were from varying regions of Oregon.

2:30 – 3 p.m., NS 103

Hannah Marshall

Faculty sponsor: Kimberly Jensen

Title: Charity Cookbooks and the Progressive Middle Class of the Early 20th Century

Abstract: In the early 20th century immigrants flooded the working class neighborhoods of the US and the gap between the middle class and the poor widened immensely. Female progressive reformers sought to find inventive ways to raise funds needed to better the immigrant's living situation and charity cookbooks became a popular way to do so. *The Settlement House Cookbook*, published in Milwaukee, Wisconsin and Portland, Oregon's *Council of Jewish Women's The Neighborhood Cookbook* are two examples of successful charity cookbooks. These books reveal much about the authors who were first generation Americans and part of a growing middle class.

3 – 3:30 p.m., NS 103

Diane Huddleston

Faculty sponsor: Kimberly Jensen

Title: The Poorhouse: Institutionalization of the Poor

Abstract: The poorhouse was America's early welfare institution. This presentation will focus on the early history of the poorhouse used as a punitive measure to deter poverty and later reform attempts during the Progressive Era. However, it soon became clear that reform efforts could not deter or control the socioeconomic conditions that were driving poverty at that time. This presentation also looks at society's beliefs about poverty and its causes, and how those beliefs changed over time, but still remained a contentious topic for many.

3:30 – 4 p.m., NS 103

Brittney Teal-Cribbs

Faculty sponsor: Patricia Goldsworthy-Bishop

Title: Transculturation in German-Turkish Hip-Hop

Abstract: Throughout Europe, hybrid youth cultures continue to form and morph as global migration creates minority enclaves in urban areas. Music plays a large part in the transformation of this culture for Germany's large Turkish population. Participation by both sides in the German hip-hop scene has created a type of transculturation in which aspects of both cultures are preserved. Hip-hop was first transformed in Germany by white artists whose lyrics more closely resembled traditional soft rock. Today, the immigrant populations have appropriated this uniquely German form of hip-hop to discuss deeper issues of race, poverty and violence that transcend racial stereotypes.

MATHEMATICS

Session chair: Scott Beaver

Session title: Mathematics and Mathematics Teacher Education Senior Project Presentations

Location: Math and Nursing Building (MNB)

Symposium

8:30 – 8:50 a.m., MNB 103

Alex Edwards

Faculty sponsor: Laurie Burton

Title: Free Throws, Probability and the Golden Ratio

Abstract: The golden ratio has been known to appear in random places in nature. From pinecones and flower petals, to the Parthenon and the picture of the Last Supper. The golden ratio is a beautiful number that has lots of history. Today we will see how shooting two free-throws can lead to discovering the golden ratio by comparing the probability of making both free throws to the probability of missing both free throws.

8:50 – 9:10 a.m., MNB 103

Kelli Zehr

Faculty sponsor: Scott Beaver

Title: Fourier Series and the Discrete Fourier Transform

Abstract: The Discrete Fourier Transform (DFT) is a restriction of the Fourier transform to vectors. It requires a discrete finite input function, possibly created by sampling a continuous function. The input for the DFT is a finite sequence of complex or real numbers that are ideal for storing information in computers. The DFT generates frequency components sufficient to reconstruct the originally analyzed finite segment. We will derive the formula for the DFT from the trapezoid rule and then show that the eigenvalues of an $n \times n$ DFT matrix are $+1$ and $+i$. The ambiguity of the elusive eigenvectors is still part of my ongoing research.

9:10 – 9:30 a.m., MNB 103

Matt Bruck

Faculty sponsor: Cheryl Beaver

Title: Differentiating Integers Modulo n

Abstract: This presentation is on differentiating integers modulo n . We all think of differentiation as something familiar, but what if we take that familiar concept and apply it in a new setting? What form will the elements of these groups take once they have been differentiated? This presentation explores those possibilities as we derive and prove new theorems and lemmas for differentiating in the integers modulo n . After we finish differentiating we will then look at what it means for these integers modulo n to be integrable. Then we will look at some theorems that show us when an integer modulo n is integrable.

9:30 – 9:50 a.m., MNB 103

Heather Johnston

Faculty sponsor: Scott Beaver

Title: Fields and Polygons: A Case for the Pentagon, Heptagon and Various Applications

Abstract: The Golden Ratio is an age-old proportion of wonder and beauty. One instance in which this ratio makes an important appearance is in polygons. The ratio of a regular pentagon's diagonals to its side happens to be the golden proportion. In this presentation we consider the traditional problem of roots of polynomials constructed from ratios of lengths of diagonals to lengths of sides of the pentagon, then extend this to the heptagon and in fact the case of any n -gon for which n is odd. We will use the Diagonal Product Formula of Steinbach to find polynomials of which these special diagonal ratios are roots.

9:50 – 10:10 a.m., MNB 103

Jamie Gilman

Faculty sponsor: Scott Beaver

Title: Mathematics in Music: The Theory Behind Intonation

Abstract: This talk will explore the best approximations for constructing notes based on octave and perfect fifth intervals. Octaves and perfect fifths are irrationally related, and can only be resolved using rational approximations. This is a development of mathematical concepts and their application to the piano scale which will explain how the scale cannot truly be in tune on a piano based on the physics behind these two intervals. Time permitting we will explore the limitations of the frequency approximations and the audible difference between ideal musical intervals and their approximations.

10:10 – 10:30 a.m., MNB 103

Brittney Rigrup

Faculty sponsor: Matt Nabity

Title: Outwitting the Lying Oracle

Abstract: Imagine an oracle asking if you would like to play a coin toss game where you can always obtain some information about the result before you flip the coin. The oracle tells you he will always say what the result of the flip will be, but he reserves the right to lie at least once. This paper discovers what strategy, always agreeing with the oracle or trying to outwit the oracle, will yield the greatest profit. We use game theory and probability to determine what the optimal wager is, which leads to an interesting conclusion about which strategy is the optimal strategy.

10:30 – 10:50 a.m., MNB 103

Keenan Kriegel

Faculty sponsor: Scott Beaver

Title: Is Overtime Fair in the NFL? A Markov Chain Analysis

Abstract: For more than 50 years, the National Football

League had utilized a "sudden-death" rule for when games go to overtime. The NFL recently decided to change their rules for overtime. Using Markov Chains and linear algebra, we will discover if the postseason rules are in fact an improvement in fairness and compare four different rules all in the hope of finding the most fair scenario for both teams.

10:50 – 11:10 a.m., MNB 103

Justine Mosher

Faculty sponsor: Cheryl Beaver

Title: "Will I Ever Use This Math?"

Abstract: "Will I ever use this?" is a question I asked myself every time I took an upper division math course. I knew I wanted to teach high school math and thought I would never need to use Number Theory, discrete, advanced calculus, or any of the many other math courses I took during my education, even if it was a calculus course. This talk will examine the mathematical knowledge necessary to teach high school level math by examining a diagram created by Deborah Ball that names the different domains of knowledge necessary for teaching mathematics.

11:10 – 11:30 a.m., MNB 103

Jason Bathke

Faculty sponsor: Scott Beaver

Title: Partial Fraction Decomposition of Polynomial Quotients

Abstract: This talk will explore how to reduce a difficult polynomial quotient into a sum of simpler quotients containing irreducible polynomial denominators. It will be shown how the ring structure of polynomials with coefficients in a field leads to this always being possible. Linear algebra will be used as a technique for finding a specific decomposition.

MATHEMATICS

Session Chair: Michael Ward

Session Title: Pi Mu Epsilon Induction Ceremony

Location: Ackerman Hall (ACKER)

2 – 2:20 p.m., ACKER 139

Presenter: Heather Johnston

President, Oregon Delta Chapter, Pi Mu Epsilon

Title: Pi Mu Epsilon Induction Ceremony

2:20 – 3:20 p.m., ACKER 139

Invited Speaker: Professor Ken Ross

Professor Emeritus, University of Oregon

Title: Patterns of First Digits

Abstract: Mathematicians, scientists and quilters seek patterns. Do first digits of numbers that arise in various settings show patterns of interest? Cameo appearances

by lengths of rivers, areas of lakes, values of portfolios, populations of cities and states, as well as some familiar sequences of numbers such as powers of 2 (2, 4, 8, 16, 32, 64, 128, etc), squares (4, 9, 16, 25, 36, 49, 64, etc), Fibonacci numbers (1, 1, 2, 3, 5, 8, 13, 21, 34, 55, etc), and factorials (2, 6, 24, 120, etc).

ALFRED MAURICE UNDERGRADUATE PRIZE COMPETITION

Session chair: Tina Fuchs

Session title: Gaining Visibility and Support for the GLBTQ Community (Maurice Undergraduate Initiative Prize Competition Winning Entry)

Location: Ackerman Hall (ACKER)

Presentation

1 – 1:45 p.m., ACKER 141

Hillevi C. Johnson and Nawwal Moustafa

Faculty sponsor: Tina Fuchs

Title: Speak Louder: Gaining Visibility and Support for the GLBTQ Community

Abstract: For the past six years, the Werner University Center has housed the Stonewall Center, a resource center for the gay, lesbian, bisexual, transgender, and queer community. Since the university has grown substantially since the Stonewall Center was created, the center can no longer adequately serve the campus GLBTQ community. The Stonewall Initiative was created to work towards renovating or relocating the current Stonewall Center, and to provide ally trainings and partnerships to Monmouth-Independence area businesses. In this presentation, the successes, educational experiences, and progress of the Stonewall Initiative will be explained.

This session is the winning entry in the Maurice Undergraduate Initiative Prize Competition.

MODEL UNITED NATIONS

Session chair: Debbie Rogers and Casey Gallagher (Eliot Dickinson, faculty advisor)

Session title: Model United Nations

Location: Bellamy Hall (HSS)

Panel Discussion

1 – 3 p.m., HSS 107

Debbie Rogers and Casey Gallagher

Faculty sponsor: Eliot Dickinson

Title: Model United Nations Mock Session

Abstract: The Model United Nations Club will perform a mock session demonstrating how the United Nations works. The simulation will show students acting as UN diplomats and discussing international political events.

MODERN LANGUAGES

Session chair: Eduardo González Viaña

Session title: Latin American Culture and Immigration

Location: Werner University Center (WUC)

Presentation

8:30 – 9 a.m., WUC Pacific Room

Invited Speaker: Ramon Ramirez, President of Pineros y Campesinos Unidos del Noroeste (PCUN) and co-founder of CAUSA

Panel Discussion (in Spanish and English)

9 – 10:30 a.m., WUC Pacific Room

Virginia Antunez, Erin M. Bolen, Chelsea B. Boone, Mason J. Brause, Diana Delgado, Benjamin Diaz Lazaro, Shannon T. Grosse, Mitzi F. Guzman-Islas, Teressa A. Halligan, Juan Horta, Hillevi C. Johnson, Kevin R. Jones, Laura J. Leon, Emmanuel Macias, Jamie L. Mattila, Rory C. Mitchell, Laura J. Morales, Selena Orozco, Laura Perez, Rachael H. Prescott, Manuel Ramirez Juarez, Nancy S. Ramos, Melanie Romero, Graciela Salamanca, Selina Sanchez Rojas, Weston C. Shippy, Zoe V. Skordahl, David G. Stewart, Yesenia A. Valentin and Rocio D. Vargas

Faculty sponsor: Eduardo González Viaña

Title: Latin American Culture and Immigration

Abstract: “Building a Bridge” (since 1994) is a program that provides our students a multicultural experience. They spend three hours a week tutoring Hispanic families in the Willamette Valley in Literacy, English, Citizenship, and other survival skills for the immigrants. Participation is a requirement for Dr. Gonzalez-Viana’s culture classes. At least, 2,500 families until now have received the benefits of this program. This year, “Building a Bridge” tutored Hispanic elementary school students at Independence Elementary School. The participants will relate their experiences about immigrant children and intercultural communication.

MUSIC

Session chair: Ike Nail

Session title: Music Showcase

Location: Smith Music Hall (SM)

Performances

11 a.m., SM 121

Laudamus Te from Mass in B Minor (J.S. Bach)

Aimee Larsen, mezzo-soprano
Jackie Morelli, piano

Panis Angelicus from Solemn Mass (Cesar Franck)

Eric Stearns, tenor
Jackie Morelli, piano

Tribute to Rudy Wiedoeft (arr. Gunther Schuller)

Jazelle Green, alto saxophone
Jackie Morelli, piano

Avant de quitter ces lieux from Faust (Charles Gounod)

Daniel Dangca, baritone
Jackie Morelli, piano

Madamina! il catalogo e questo from Don Giovanni (W.A. Mozart)

Matthew Moorehead, bass
Jackie Morelli, piano

Que fais tu, blanche tourterelle from Romeo and Juliet (Charles Gounod)

Terra Hurdle, mezzo-soprano
Jackie Morelli, piano

Groveton Concerto (Kevin Walczyk)
II. slowly, with extreme tranquility

Darrel Watson, alto saxophone
Jackie Morelli, piano

PHILOSOPHY

Session chair: Mark Perlman

Session title: Philosophy Senior Tutorial Papers

Location: Bellamy Hall (HSS)

Symposium

9:30 – 10 a.m., HSS 336

Zachary Kirk

Faculty sponsor: Mark Perlman

Title: Evading Eternal Circularity: Shedding Light on Descartes Cartesian Circle

Abstract: Descartes believes that the only way to truly know something with absolute certainty is through the Clarity and Distinctness principle, which he later shows cannot be true unless God exists. He then shows how God exists through this principle, creating circularity. In my paper, I will inquire to reroute his argument to conclude an escape for this illusive circularity using an article by James Van Cleve. In favor of helping Descartes, I will also provide arguments that attempt to keep the circle mended, and exploit their weaknesses.

10 – 10:30 a.m., HSS 336

Christopher McFetridge

Faculty sponsor: Mark Perlman

Title: Demystifying the Performance Authentic: Translation, Preference, and the New Aesthetic

Abstract: Valuative judgments of performance art are often contingent upon a notion of Authenticity. What we mean by *authentic*, however, is not readily accessible. An exploration of proposed authenticity-theories can help reveal the merits and impediments contained within those theories--and may ultimately suggest an authentic-metric. However, such an analysis leads, counterintuitively, to the jeopardization of the term. We can suggest, in virtue of our analysis, that formal inconsistencies within the authentic-metric promote a more elusive aesthetic discourse than otherwise necessary. By endorsing direct aesthetic discourse we can remove the obscured lens of authenticity and begin encountering works as they are truly presented.

10:30 – 11 a.m., HSS 336

Dominic Valenti

Faculty sponsor: Mark Perlman

Title: A Defense of Physician-Assisted Suicide: Patient Autonomy and the Interests of Society

Abstract: In this paper I will argue in favor of having physician-assisted suicide available as an option for terminally ill, competent, informed adults. Traditionally, suicide is thought of as occurring whenever a mentally disturbed, but otherwise physically healthy, individual takes their own life. In contrast to this, the person who qualifies as a candidate for physician-assisted suicide must be both mentally sound and terminally ill. Society should be able to offer these individuals the option of physician-assisted suicide whenever existing alternatives, such as hospice and palliative care, are unable to address their personal suffering.

11 – 11:30 a.m., HSS 336

Carl Fisher

Faculty sponsor: Mark Perlman

Title: Temporal Ethics: The Ethics of Time Travel

Abstract: Temporal Ethics is a branch of ethical study that concerns decisions made regarding the use of Time Travel (if such a venture could ever be achieved). I will first lay out an understanding of Temporal Ethics, followed by a definition of time travel for the papers purpose. Next I will explore several scenarios and what provide an ethical discussion of the choices presented for our time traveler. The hope of this will be to see what ethical school of thought may be best, if traditional ethical theories fail us could we find ourselves using an existentialist theory of ethics? Ultimately, I would like to be able to answer the question about what ought Time Travelers do when they travel back and forth in time? I hold that time travelers ought not change the past. This does not mean that time travel is meaningless. Future time travelers could be our modern day historians that use it as a tool for study. This presents its own unique challenges.

1 – 1:30 p.m., HSS 336

Stephanie Engel

Faculty sponsor: Mark Perlman

Title: The Wager Unraveled

Abstract: For this paper, I will be providing an argument that is against Pascal's Wager. I will dissect his argument into the four different premises that Pascal has provided us with, and I will then create an argument against each of the four options that he has given us. In order to do so, I will use popular arguments by other famous philosophers, as well as my own thoughts and opinions on the matter. At the end of the paper, the reader will have a clear idea as to why Pascal's argument for the belief of God or a higher power is not valid.

1:30 – 2 p.m., HSS 336

David O'Rourke

Faculty sponsor: Mark Perlman

Title: Embodied Cognition: The Next Logical Step

Abstract: This thesis is centered on the merits of embodied cognition as a theory of mind, with the slight discrediting of competing theories. I will begin by explaining the evolution of theory of mind a bit from dualism to computationalism, to explaining what embodied cognition is, to showing some scientific evidence, then finally end with a discussion and refutation of counter arguments. One of which, will be centered on the idea of a virtual body and its interaction with embodied cognition. Because embodied cognition argues that a body must be situated in an environment, I will define situated as it is used by researchers, and then illuminate how a virtually situated intelligence can satisfy the requirements extended by embodied cognition. At the end of the paper, the hope is that the reader will not only have a good handle on what embodied cognition is, but also see its strength as a modern day, science driven, theory of mind.

2 – 2:30 p.m., HSS 336

Jeffery Myers

Faculty sponsor: Mark Perlman

Title: A Defense of the Preborn

Abstract: This paper will show that preborn persons deserve the same rights as all persons, particularly, the right to life, but also liberty and the pursuit of happiness. I will demonstrate that those arguments that attempt to justify the prevention of preborn persons from enjoying the right to life are logically flawed. Along with the analysis of different arguments, "personhood" and "rights" will be shown to be a central necessity to the preborn. The final section will explore avenues that could allow the rights of preborn and post-born persons to coexist peacefully and in full harmony with one another.

2:30 – 3 p.m., HSS 336

Rhys Summers

Faculty sponsor: Mark Perlman

Title: Mechanical Personhood

Abstract: Person-hood is generally a moral problem attributed to issues such as abortion and animal rights. However, taking

into consideration developments in the field of artificial intelligence a question arises in my mind. At what point would a machine qualify for person-hood? It is often the case that, in our attempt to separate ourselves from machine and beast, we rely upon subjective arguments or seemingly unique behaviors. However, by examining secular criteria for person-hood and recent psychological and neurological discoveries we see that this mindset is erroneous. This paper explores the topic of the potential person-hood of non-biological entities.

PSYCHOLOGY

Session Chair: David Foster

Session Title: Psychology Presentation Session 1

Location: Werner University Center, (WUC)

Oral Presentations

9:45 – 10:15 a.m., WUC Columbia Room

Travis Smith, Lucy Lawer and Bethany Wilson

Faculty sponsor: David Foster

Title: The Mediating Effects of Language Usage and Loquacity: The Relationship Between Competitiveness and Group Decision Quality

Abstract: The relationship between competitiveness and group performance was examined for the possible mediating effects of various types of language usage. Two aspects of group development, forming and feedback, were predicted to moderate the mediating effects of language usage. Group development was manipulated using a 3x3 factorial design. Transcripts of 150 three-person groups who collaborated on a winter survival task scenario were analyzed. Different forms of language usage partially mediated the relationship between both the amount and distribution of competitiveness within a group and group decision quality; these effects were further moderated by group development. Results and implications will be discussed.

10:15 – 10:30 a.m., WUC Columbia Room

Travis Smith

Faculty sponsor: Joel Alexander

Title: The Effect of Social Influence Type on the Regulatory Strength Model of Self-control

Abstract: Regulation of thoughts, feelings, and behaviors can deplete an individual's ability to exercise good self-control. In this study participants were either given encouragement or discouragement before completing task manipulating resource depletion. Persistence on an anagram task was used to measure resource depletion. A modified competitiveness questionnaire (Griffin-Pearson, 1990) was administered to rule out competitiveness as a contributing factor on anagram persistence. It was predicted that research participants exposed to encouragement (positive social influence) by the researcher will perform better in both manipulations (depletion vs. no depletion) than the participants exposed to discouragement (negative social influence). Implications will be discussed.

10:30 – 11 a.m., WUC Columbia Room

Amy Pike

Faculty Sponsor: Gale Lucas

Title: I Want to go Home: Is Homesickness Moderated by Belongingness?

Abstract: Belongingness moderates many behaviors and emotional responses, however, how belongingness and homesickness impact one another is currently understudied. Present research investigates how these two variables are connected, and to what extent belongingness needs moderate feelings of homesickness. It is hypothesized, that increasing the need to belong also increases feelings of homesickness, as well as preliminary results finding that decreasing the need to belong also decreases feelings of homesickness.

11 – 11:15 a.m., WUC Columbia Room

Lindsey M. King

Faculty sponsor: Ethan McMahan

Title: The Effect of Fasting Behavior on Short Term Memory and Attention Span

Abstract: Previous research has reported a wide array of cognitive deficits associated with calorie restriction as well as demonstrated increased cognitive performance after the administration of glucose following overnight fasts. A sample of 27 undergraduate students participated in this research. Each participant completed a short term memory test and attention span test under both fasting and non-fasting conditions one week apart. The results of this study found that the non-fasting group scored significantly better on the attention span test, but no difference was seen between the fasting and non-fasting groups for the short term memory test. The results of this study further support the hypothesis that irregular consumption of breakfast, fasting, and dieting practices can weaken aspects of cognition processes. More specifically, these findings indicate that eating regularly notably improves attention span but may have no effect on short term memory.

11:15 – 11:30 a.m., WUC Columbia Room

Amy Pike, Jarrett A. Mayes, Dane Morehead, Lisa Shimubukuro and Mycah Harrold

Faculty sponsor: Gale Lucas

Title: Belongingness and Social Motivations

Abstract: Social motivations can be and often are moderated by many different variables including belongingness needs. Present research investigates how these motivations are moderated by autonomy, as well as attachment style. Specifically, how does autonomy and attachment style impact the need for social interaction in various forms, as well as moderate the feelings of homesickness.

PSYCHOLOGY

Session Chair: David Foster

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

Location: Werner University Center (WUC)

11:30 a.m. – 12:30 p.m., WUC Columbia Room

Invited Speaker: Psychology Keynote Speaker, WOUPSA Club

PSYCHOLOGY

Session Chair: David Foster

Session Title: Psychology Presentation Session 2

Location: Werner University Center (WUC)

Oral Presentations

2 – 2:15 p.m., WUC Columbia Room

Nehala Pullam, Katie Mackor, Kristoffer Molloy, Jesse Kopel, Chelsey Grigsby, Ryan Miller, Amanda Graves and Devan Buckingham

Faculty sponsor: Robert Winningham

Title: Response to Mild Cognitive Impairment: How to Run a Cognitive Rehabilitation Class

Abstract: Many older adults experience cognitive impairment that negatively affects their quality of life. Previous research has shown that the onset of dementia can be delayed by participation in cognitive stimulation programs that are designed to counteract these effects. Cognitive stimulation can even lead to improvements in cognition (e.g., attention, encoding, and working memory capacity). This presentation will describe how these classes are run and the benefits to one's cognitive wellness. We will demonstrate a number of cognitively stimulating activities, as well as several activities recently developed and tested by the Cognitive Rehabilitation Team at Western Oregon University.

2:15 – 2:30 p.m., WUC Columbia Room

Nehala Pullam, Katie Mackor, Kristoffer Molloy, Jesse Kopel, Chelsey Grigsby, Ryan Miller, Amanda Graves and Devan Buckingham

Faculty sponsor: Robert Winningham

Title: Comparing the Cognitive Screening Tools MMSE and SLUMS

Abstract: We compared the MMSE and SLUMS cognitive tests. The MMSE is the most widely used neuropsychology tests and dementia screening tools. The SLUMS is a newer and possibly better screening tool. Many practitioners have used MMSE scores to recommend treatment and they are unsure how these scores compare to SLUMS scores. Older adult participants in a variety of living environments were given both tests. Significant differences between test scores such that the MMSE scores were higher than SLUMS were found. The difference between MMSE and SLUMS scores as a function of educational attainment and other demographic variables will be discussed.

2:30 -2:45 p.m., WUC Columbia Room

Jarrett A. Mayes, Amy Pike, Lisa Shimabukuro, Justin Cassens, and Lindsay Quock

Faculty sponsor: Gale Lucas

Title: Imagining Romantic Interlopers and Perceived Similarity

Abstract: Research has shown that people tend to assimilate the traits of others (Aron, Aron, Tudor & Nelson, 1991). This study investigated whether or not an imagined interloper that was trying to “poach” one’s romantic partner would motivate perceived similarity with the interloper, especially among those high in attachment anxiety. This study measured attachment anxiety in 167 participants and manipulated jealousy. Participants were then asked how similar they felt to this interloper. Individuals who were assigned to the “more jealous” condition perceived themselves as more similar to the interloper than those in the “less jealous” condition. Attachment anxiety moderated this effect.

2:45 – 3 p.m., WUC Columbia Room

Andrea Padilla and Jacqueline Arrezola

Faculty sponsor: Kathryn Thompson

Title: Assessment of Acculturation in U.S. Minorities toward a Bicultural Identity.

Abstract: APA recommends process over proxy measures of acculturation. Our studies used commonality scales (U.S. Holiday Traditions, General Knowledge, and U.S. National Policy Support) and an identity scale (National Identity Scale) with Mexican-born and U.S.-born participants. Study 1 showed a significant effect of cultural group on commonality scores, with univariate tests indicating U.S.-born scoring higher than Mexican-born on the knowledge and tradition scales, but not the policy support scale. The revised policy support scale constructed in Study 2 discriminated between the two groups. Use of these measures facilitates bicultural identity.

PSYCHOLOGY

Session Chair: David Foster

Session Title: Psychology Poster Session

Location: Werner University Center (WUC)

Posters

9 – 11 a.m., WUC Willamette Room

Tyler Grindstaff, Eric Serres and Tesalee Sensibaugh

Faculty sponsor: Joel Alexander

Title: P200 Amplitude as a Preparatory Index for a Self-Evaluation Act

Abstract: The current study examined the effects of an oddball paradigm on the elicitation of the P200 positive-going waveform. The P200 has been theorized to index early stimulus processing, act as a gate keeper for higher-order

functioning, and aid in selective attention. An ERP auditory oddball discrimination task between a random target and standard stimuli was used across three stages (oddball, oddball + count, and oddball + self-evaluation). These stages were completed by 32 participants (M=21.71 years, SD=3.08; 50 percent female) and all ERPs were recorded across 32 electrodes. Results and implications will be discussed in detail during the poster presentation.

9 – 11 a.m., WUC Willamette Room

Tesalee Sensibaugh and Sharon Sielschott

Faculty sponsor: Ethan McMahan

Title: The Relationship between Introversion and Depression

Abstract: The present study examined the relationship between introversion and depression. The participants were students at Western Oregon University (N=20) who completed a survey packet containing a demographics page, the Beck Depression Inventory (BDI-II), the ‘Big Five’ personality test, and two filler surveys. A marginally significant moderate positive correlation was observed between introversion and depression. It is believed that the observed trend did not reach conventional levels of statistical significance because of the small sample size. As such, the authors of the present study recommend that additional studies with larger sample sizes be carried out on the topic.

9 – 11 a.m., WUC Willamette Room

La Tasha Horton

Faculty sponsor: Gale Lucas

Title: The Effects of Color on School Performance

Abstract: Color has a significant impact on people’s lives. It is a powerful communication tool and can be used to signal action, influence mood, and cause psychological reactions (Hemphill, 1996). Some teachers choose to print test on differently colored paper to prevent cheating but many studies have found an effect between colored paper and school performance. Previous studies have found that school performance was lower on test printed on colored paper compared to white paper. Specifically Skinner (2004) found that best performance was elicited by white paper. Using a between subject design, this study test the effects of color on school performance with pink, gray, and white paper.

9 – 11 a.m., WUC Willamette Room

Jarrett A. Mayes

Faculty sponsor: Gale Lucas

Title: Assessing the Approachability of Men with Visible Tattoos

Abstract: The current study examines the effect of visible tattoos on the approachability of men. Participants were comprised of 40 Western Oregon University students; of these students, 14 were men, 24 were women, and two elected not to provide demographic information. Participants viewed either photographs of men with visible tattoos, or altered

photographs with the tattoos removed, and then completed a survey on approachability. It was hypothesized that the presence of visible tattoos would lead to a negative effect on the target's approachability scores; however, no significant effect was found.

9 – 11 a.m., WUC Willamette Room

Elizabeth Conkey, Natalie Nibler and DeAnna Sturm

Faculty sponsor: Debi Brannan

Title: Optimism and Performance of Novice ESOL Teachers

Abstract: The aim of this study is to examine the relationship between gender, optimism and perceived teaching performance amongst novice ESOL teachers. Graduates from two hybrid TESOL programs (N=47) were sampled and surveyed. Optimism significantly predicted perceived teaching performance, $t(43) = 3.17, p = .003$, and there was marginal association between gender and perceived teaching performance, $t(43) = -1.92, p = .06$. Further analyses indicated that the mean ratings of teaching performance were significantly different between men and women $F(1,45) = 5.12, p = .03$. In sum, our results suggest that gender and optimism are factors in perceptions of teacher efficacy amongst novice ESOL teachers.

9 – 11 a.m., WUC Willamette Room

Paul Cookingham and Kelsey Jensen

Faculty sponsor: Ethan McMahan

Title: The Emotional State and its Effect on Persuasion

Abstract: This experiment examines the effect that an aroused emotional state has on advertisements and specifically the persuasion heuristics used within those advertisements. An evolutionary model predicts that advertisements using a social proof heuristic would be more persuasive to participants who have had fear induced, while those same advertisements could actually be counter persuasive to participants who had romance induced. On the other side of the spectrum, advertisements using a scarcity heuristic would be more persuasive to participants who had romance induced, and those same advertisements would be counter persuasive to participants who have had fear induced. The results supported the hypothesis, showing that this can actually be the case. These findings show how this evolutionary model can lead to both theoretical and practical marketing insights.

9 – 11 a.m., WUC Willamette Room

Ashley F. Motley

Faculty sponsor: Gale Lucas

Title: The Effect of Distracters on Performance

Abstract: This study will be comparing the degree to which background distracters alters levels of performance. Hypothesis one having a movie on in the background while taking a math test will be more distracting and decrease test

performance more than having music on in the background will. Hypothesis two having a movie or music playing in in the background during a math test will decrease the performance more than if a person was in silence. Hypothesis three regardless if it is a audio or audio-visual distracter will decrease performance comparatively to one's performance in a silent condition. The study is currently being conducted.

9 – 11 a.m., WUC Willamette Room

Giuliano Cavazos and Amy Elder

Faculty sponsor: Ethan McMahan

Title: An Assessment of Physical Activity on Mood

Abstract: The present study examined associations between levels of physical activity and affective mood states. It was hypothesized that higher levels of physical activity would be associated with higher levels of positive affect as well as lower levels of negative affect. Likewise, lower levels of physical activity would be associated with lower levels of positive affect and higher levels of negative affect. Healthy men and women ages 18 to 29 were recruited from Western Oregon University to participate. Participants completed the International Physical Activities Questionnaire and the Intensity Time and Affect Survey. The Pearson Correlation was used to analyze significant interactions between physical activity and mood affect. No association was found between physical activity and positive affect, though evidence suggests a relationship between increased levels of physical activity and lower negative affect.

9 – 11 a.m., WUC Willamette Room

Tabitha Ledbetter

Faculty sponsor: Gale Lucas

Title: Need to Belong and Online Social Networking

Abstract: When a person feels the need to eat they search for food but what do people do when they feel a need to belong (Leary and Baumeister, 1995)? Online social networking has become a tool used by millions to connect to others. This empirical research found that there is a correlation between a person's need to belong score and the number of Facebook friends ($r(30) = .74, P < .001$) and the number of pictures posted ($r(29) = .59, P = .001$). Though further research is needed, it can be theorized that online social networking can be a tool to meet a person's need to belong.

9 – 11 a.m., WUC Willamette Room

Myciah Harrold

Faculty sponsor: Debi Brannan

Title: Feminist Self-Labeling & Attitudes Toward Women

Abstract: The word "feminist" brings with it an undeniably negative stigma, which could be even more accentuated by the world today's women experience. The present study sought to explore the correlation between a woman's choice to self-label as a feminist and her attitudes toward

women. Participants reported how strongly they agreed with the statement “I am a feminist” and then completed the Attitudes Toward Women scale (Spence, 1972). It was hypothesized that self-labeling feminists would score significantly higher on the ATW scale. However, all participants reported pro-feminist scores, but only 30 percent also self-labeled. This suggests that women may still be apprehensive to associate with the word “feminist”; even if their attitudes reflect feminist ideals.

9 – 11 a.m., WUC Willamette Room

Jayden Fraga

Faculty sponsor: Mary-Ellen Dello Stritto

Title: Stigma and Shame: Psychological Research on Male Sexual Assault

Abstract: One in six males will be sexually assaulted before the age of 18 and one in 33 males will experience an attempted or completed rape in their lifetime. Due to the myths surrounding male sexual assault and the societal view of masculinity, male sexual assault is rarely talked about and thus there is limited research available. This poster will review the recent psychological research on the topic of male sexual assault. The poster will also include recommendations for future research.

SOCIOLOGY

Session chair: Dean Braa

Session title: Research and Praxis in Sociology

Location: Bellamy Hall (HSS)

Presentations

8:30 – 8:45 a.m., HSS 235

Faculty presenter: Dean Braa

Title: Introduction to Sociology at WOU

8:45 – 9 a.m., HSS 235

Maria Arredondo

Faculty sponsors: Maureen Dolan and Dean Braa

Title: Abuse and Mandatory Reporting: A Policy Analysis

Abstract: Mandatory child abuse reporting laws were developed in the United States to detect cases of abuse and neglect at an early stage, protect children and to help facilitate the provision of services to children and families. However, in the state of Oregon and in the school districts the understanding of the terms of the policy is not clear and the policy lacks proper implementation. This study is about the policies and process regarding the mandatory reporting of child abuse. Its focus is on the history, development and implementation of this policy in today’s school setting. A critical analysis of mandatory reporting is presented as the basis for policy and process recommendations. The research includes a case study of an Elementary School and twelve interviews with administrators, teachers, counselors, members of the Department of Human Services and the Police Department. The research shows that there are several

problems with policy implementation as teachers, counselors and administrators do not follow the procedural steps as they should, and the process is not clearly understood by the institutions in which this process takes place.

9 – 9:15 a.m., HSS 235

Carolyn Gage

Faculty sponsor: Peter Callero

Title: Social Identities of the Professional Musician

Abstract: Social identities structure interactions and reinforce group boundaries. This study explores the identities and social boundaries that are associated with musical genres. Questionnaires and interviews with 30 musicians are analyzed. Findings indicate the existence of a clear, musical identity that is more salient than political or religious identities. In addition, the jazz social identity is more salient than the classical music or hybrid identities. Results are explained using the conceptual distinction of an *in-group* and *out-group*.

9:15 – 9:30 a.m., HSS 235

Roberto Guzman

Faculty sponsor: Dean Braa

Title: The Rise of the Cannery Industry and Work Force

Abstract: This research describes and analyzes the historical development of the cannery workers in Oregon using qualitative methods. The food packing industry was a creation of the industrial revolution and the mass production of food that responded to the growing urbanization and industrialization of society. The information was collected through a review of case studies, 22 interviews, participant observation, and a case study which compared a union cannery and nonunion cannery in the Willamette Valley. The focus of this study is the various effects that industrialization of food production has had on cannery or food processing workers.

9:30 – 9:45 a.m., HSS 235

Questions and Discussion

9:45 – 10 a.m., HSS 235

Ashley F. Motley

Faculty sponsor: Peter Callero

Title: Social Networks and Death

Abstract: Prior research on social networks has identified many factors that affect network strength. This study examines how death affects social relationships. Survey data are analyzed to see how social interactions and the strength of relationships change after the death of a network member. Results indicate that some network relationships are strengthened and some are weakened. Preliminary analyses suggest that there is a correlation between the types of social interactions that change and one’s relationship to the deceased.

10 – 10:15 a.m., HSS 235

Lindsey O'Connor

Faculty sponsor: Dean Braa

Title: Education and Class Consciousness in Union Organizing

Abstract: This research project investigates the strategies used by union organizers to form new union locals at work sites. What is the process used by organizers? What is the role of education in the organizing process? Education that focuses on raising class consciousness is an essential part of organizing strategy. Data was collected using interviews with field organizers of several local labor unions. Preliminary analysis of the data indicates that while organizing campaigns strategies often differ, all organizers must work hard to generate solidarity based upon the development of a consciousness among workers that includes a clear understanding of class interests and the need for unions as a form of class struggle.

10:15 – 10:30 a.m., HSS 235

Vannessa Ramirez

Faculty sponsors: Maureen Dolan and Dean Braa

Title: Domestic Violence and Latinas in the Mid-Valley

Abstract: Domestic violence touches the lives of many people in a number of ways. When Latinas become victims of domestic violence they do not face a more severe level of violence than non-Latinas; rather they face barriers that make it more difficult for them to seek social services and support. This study included interviews at multiple local agencies and police departments in order to document actual services available to victims. The findings indicate that mandated services provide inadequate support, particularly for immigrant women.

10:30 – 10:45 a.m., HSS 235

Questions and Discussion

10:45 – 11 a.m., HSS 235

Megan Rasmussen

Faculty sponsors: Maureen Dolan and Peter Callero

Title: Incarceration and Family Support Programs

Abstract: Many incarcerated mothers are the primary caregivers for their children, and when they are sentenced to prison many children's lives are affected negatively in a variety of ways. Research was conducted on programs and services that reach out to the mothers in Coffee Creek Correctional Facility and their children. I found that there are only a handful of programs and services that are available to this population. While there is clearly a serious need for these programs and services, they are inadequate as part of the larger criminal justice system.

11 – 11:15 a.m., HSS 235

Ta'Mara Sheeley

Faculty sponsors: Maureen Dolan and Peter Callero

Title: Rape Myths and Attitudes About Sexual Assault

Abstract: A *rape myth* is a prejudicial stereotype, or false beliefs about rape, rape victims, and rapists, which creates a social environment hostile to rape victims. The literature states that men are more likely to believe in rape myths and people with more traditional/conservative views regarding gender roles are more likely to believe in rape myths. Questionnaires and focus group data from a sample of college students, indicates that men and people with more traditional/conservative views are more likely believe in rape myths, and women were more likely to use rape myths to assign blame to females.

11:15 – 11:30 a.m., HSS 235

Marina Sikora

Faculty sponsor: Peter Callero

Title: Higher Education, Critical Pedagogy, and Nontraditional Students

Abstract: Critical pedagogy is a way of teaching and learning that allows people to think critically about society, have an active role in their own learning, and to apply it to the real world. Recent studies suggest that nontraditional students are more likely to accept critical pedagogy in the classroom than traditional students. Interviews with professors and students at a public university also suggest that older students are more likely than younger students to be in favor of critical pedagogy. Students and professors seem to be comfortable with some aspects of critical pedagogy, but not all. Interviews and questionnaires were used to collect data on attitudes about goals of critical pedagogy.

11:30 – 11:45 a.m., HSS 235

Questions, Discussion and Final Remarks

SPECIAL EDUCATION

Session chairs: Elisa Maroney, Pamela Cancel and Chung-Fan Ni

Session title: Experiencing Diversity through Service, Teaching, and Learning

Location: Education (ED)

Symposium

8:30 – 8:55 a.m., ED 217

Audrey Averill and Jared Archambeau

Faculty sponsor: CM Hall

Title: Service Learning and Professional Exploration with Deaf-Blind Adults

Abstract: This service learning experience is unique in its ability to engage students' commitment to volunteerism, their bilingual and bicultural talents, and connect it to their future professional pursuits and passion. Through

collaborative team-building, examination of systems of institutional oppression, and concentrated learning; students prepare to serve as professional Support Service Providers working with Deaf-Blind adults from around the globe. Advanced preparation involves over 120 hours studying about Deaf-Blind people, fundraising and practicing guiding and communication techniques to match the variety of hearing and vision losses. This training then culminates in a week-long service trip to work with Deaf-Blind adults who experience a fully-accessible vacation.

9 – 9:15 a.m., ED 217

Rosimery Bergeron

Faculty sponsor: Chung-Fan Ni

Title: Grief

Abstract: The proposed presentation is on grieving for a loved one. The purpose of this presentation is to discuss the grief counseling techniques and how to relate these techniques to object relations theory. The following will be discussed: definition of grief and mourning; the relationship between the concept of attachment based on the object relations theory and the grief concept; the physical, emotional, and cognitive reactions to grief; the difference between grief and depression; the social importance of letting people talk about grief and death in our society; the tasks of mourning in the counseling setting; grief approaches and techniques. Finally, application of grief counseling to clients in mental health settings will be discussed.

9:20 – 9:35 a.m., ED 217

Lorelei Walthall

Faculty sponsor: Chung-Fan Ni

Title: All About Acupuncture

Abstract: Acupuncture is an ancient therapy used for thousands of years to relieve bodily symptoms of illness, disability, and disease. It is meant to help produce relaxation and harmony throughout the body. Acupuncture is not only used as a treatment, but can be used as a preventative measure.

9:40 – 9:55 a.m., ED 217

Lisa Van Eaton

Faculty sponsor: Chung-Fan Ni

Title: Applying Person-Centered Theory to Marilyn Monroe

Abstract: The counseling theory person-centered is about the client instead of the client's issues. Clients are the ultimate agents of self-change for their lives and are essentially trustworthy. Person-centered counseling is applicable to, but not restricted to, individuals, groups, and families when dealing with relationship issues, anxiety disorders, and personality disorders. It holds a strong view of unconditional positive regard for the client. The proposed presentation will apply person-centered theory to Marilyn Monroe. Whether individuals believe in nature, nurture, or the equal working of both there are still points in life where individuals have the free will and the right to make a choice. The power is each individual's.

10 – 10:15 a.m., ED 217

Julie Reis

Faculty sponsor: Chung-Fan Ni

Title: What is Diabetes?

Abstract: The presentation will contain information about people with diabetes. It will include facts and terminology about the disease. The presentation will explain two types of diabetes and the difference between them. It also will include the risks of having diabetes. The presentation will share information about prevention such as medicines, diet and exercise. Lastly, it will contain numerous resources for getting help.

10:30 – 11:30 a.m., ED 217

Vicki Darden and students in MA in Interpreting Studies Cohort

Faculty sponsor: Elisa Maroney

Title: Co-construction in Action: The new face of interpretation scholarship

Abstract: In this session, the pioneer cohort of the Master of Arts in Interpreting Studies shares their experience as co-constructors of this new program. Grounded in a constructivist teaching philosophy and approached as a collaboration between faculty and students, the program is conducted online in two languages (English and American Sign Language) and two modalities (oral/aural and visual/gestural). The various technologies utilized by the cohort for instruction, collaboration, team-building, and presentation are demonstrated, including uploading video logs and text to Moodle using Camtasia, Vimeo, Google Docs, Google Hangout, YouTube, and VoiceThread. Selected elements of the cohort's scholarship to date are presented.

STUDY ABROAD AND INTERNATIONAL EXCHANGES

Session chair: Michele Price

Session title: The International Experience: Foundation for Personal and Educational Transformation

Location: Health and Wellness Center (HWC)

Presentations

10 – 10:20 a.m., HWC 105

Carolee Buck

Faculty sponsor: Michele Price

Title: Germany—A Long Term Dream

Abstract: During summer 2012, Carolee Buck fulfilled her long-term dream of studying abroad in Germany. Join her as she discusses her enriching and life changing experience in Berlin. Learn about her daily life as an international student—living with a host family, academic classes, social and recreational activities, and discover how to realize your own dream of studying abroad.

10:20-10:40 a.m., HWC 105

Stella Strother Blood

Faculty sponsor: Michele Price

Title: A Mzungu's Safari (A Foreigner's Journey)

Abstract: Studying abroad in Kenya, Africa, during the summer of 2011, Stella Strother-Blood was immersed in societal, cultural, economic, and geographic differences. Living among the Maasai people, she observed the challenges of the local population as they dealt with large mammal species and the impact their migration routes had on agriculture and water sanitation. Learn about study abroad resources available to WOU students, the effects of globalization, and gain valuable travel advice.

10:40-11 a.m., HWC 105

Danyon Satterlee

Faculty sponsor: Michele Price

Title: The London Experience

Abstract: A video presentation of a summer study abroad experience in London, England, 2011. Follow WOU student Danyon Satterlee as she adjusts, explores, learns, and becomes inspired to live abroad some day.

TEACHER EDUCATION

Session chairs: Alicia Wenzel, Carmen Caceda and Allyson Hindal

Session title: Teacher Education

Location: Education (ED)

Presentations

1 – 1:15 p.m., ED 217

Morgan Hammers

Faculty sponsor: Karie Mize

Title: Incorporating Language Forms and Functions into a Content Lesson

Abstract: A demographic change is presently underway, resulting in a generation of students to whom English is a second language. Due to the large influx of English language learners (ELLs) previously developed methods of teaching have been found to be insufficient to meet the educational needs of these students. Currently, a unique approach is being used to instruct language learners by sheltering instruction within the classroom. This type of teaching incorporates language support and instruction through the use of language forms and functions. This presentation will explore how to plan for, and incorporate, language instruction into any lesson.

1:20 – 1:40 p.m., ED 217

Paul Neiffer

Faculty sponsor: Karie Mize

Title: Programs for ELLs at Central High School

Abstract: This paper is a summary of my research about programs for ELLs at Central High School in Independence, Ore. I interviewed the school's ELD teacher, Ashley McDonough, observed a Sheltered Instruction Observation Protocol (SIOP) math class, and spoke to a teacher at the school. I was able to identify several strengths and a couple of weaknesses of the school's ELL program.

1:45 – 2 p.m., ED 217

Hee Yoon Kong

Faculty sponsor: Karie Mize

Title: Learning English in Korea

Abstract: This presentation explains how students in Korea learn English as a foreign or additional language. Using pictures from an actual classroom in Korea, audience members will hear an explanation of the type of strategies used in an ESOL classroom. A Korean teacher was interviewed to better understand how having a national curriculum impacts the classroom procedures. In addition, learning English in private versus public settings is addressed. Finally, Hee Yoon talks about her own experience learning English – which led to her decision to study abroad this year at Western Oregon University - and her goals for the future.

2:05 – 2:30 p.m., ED 217

Adrian Syah

Faculty sponsor: Carmen Caceda

Title: Transformative Learning: Teaching Vocabulary to Disadvantaged Non-Native Language Learners

Abstract: Teaching English as a foreign language to students from disadvantaged situations requires focus on vocabulary building through contextualization, development of student-teacher relationships, and building the curriculum around collaborative activities.

2:35 – 2:50 p.m., ED 217

Teresa Roberts

Faculty sponsor: Karie Mize

Title: Top 10 Things to Know about English Language Learners

Abstract: This presentation discusses a letter sent to the editor explaining the top 10 things people need to know about ESOL/Bilingual Education and English language learners, focusing on state and national issues as well as local district issues. It also addressed such topics as the current socio-political environment, current demographics of ELLs, federal laws and policies, what research shows concerning bilingual education, and what I can do to advocate for my ELL students and their families.

3 – 3:30 p.m., ED 217

Ashley Lorshbough, Alyson Berg and Sarah Whitfield
Faculty sponsor: Karie Mize

Title: Effective Lesson Planning for ELLs

Abstract: We will be displaying a few bare bones lesson plans and demonstrating ways to infuse ESOL strategies and supports into each part of the lesson plan. Specific examples will be included for the areas of Language Arts, Math and Science.

3:35 – 3:50 p.m., ED 217

Jo'Lynn Espinosa
Faculty sponsor: Karie Mize

Title: ESOL Strategy Tool Kit

Abstract: Presenting an ESOL Toolkit that represents a variety of ESOL strategies. This presentation will focus on materials, curriculum models, teaching approaches, resources, and assessment techniques that aim to maximize the academic achievement of ELLs. While these strategies are essential for English Language learners, they may be applied to all learners, as these strategies are effective for all.

4 – 4:30 p.m., ED 217

Wendy Pye
Faculty sponsor: Karie Mize

Title: Top 10 Things You Need to Know About English Language Learners

Abstract: Teachers are life-long learners and there are some important socio-political educational issues that we should all be informed of regarding the education of English language learners. This presentation is a letter to future educators that will inform you about education of English language learners. Some of the explored topics are: The current socio-political environment in the U.S., current demographics of ELLs, different programs/models for ELLs, what research shows about bilingual education, and what teachers can do to advocate for ELL students and their families.

4:35 – 4:50 p.m., ED 217

Kacey McCallister
Faculty sponsor: Karie Mize

Title: A Man's Toolbox for Teaching ELL's

Abstract: A wonderful way of looking at different methods of teaching English language learners. Why use a folder full of papers that you may never look at again, when you can use your home toolbox to relate objects you use every day to teaching techniques that can be used in a classroom where differentiated instruction is needed. In an academic world where all that we see are papers, folders full of organizers, power points, and posters with limited interaction, it is important that we find ways to be creative.

TEACHER EDUCATION

Session chairs: Alicia Wenzel, Carmen Caceda and Allyson Hindal

Session title: Teacher Education Poster Session 1
Location: Education (ED)

Posters

5 – 5:45 p.m., ED 217 and ED 2nd Floor Hallway

Kevin Laxton
Faculty sponsor: Carmen Caceda

Title: The Effect of Project Based Math Assessment on Student Affect

Abstract: The goal of the study is to determine if non-test based assessments have an effect on student affect. For the study, high school math students were given a project- (i.e. non-test) based assessment as part of their regular education. Surveys were given before, during, and after students completed this project. Additionally, students were observed while working on and turning in both the project-based assessment and a standard test-assessment for the course. It is the hope that this study will help further understand the relationship between student affect and assessment in math courses.

5 – 5:45 p.m., ED 217 and ED 2nd Floor Hallway

Kellen Hobie
Faculty sponsor: Carmen Caceda

Title: Factors that influence students' motivation in secondary physical education

Abstract: The motivation that a student feels to participate in physical education on a daily basis can be affected by many factors. The purpose of this action research project was to conduct a study that would help future physical educators determine what motivates students to participate. There were a total of 14 students that participated. The questions were a combination of select-response and open-ended so the students could explain their answers. The results showed that the majority of the subjects are motivated by outside sources. This is why it is important for physical educators to praise their students for participation.

5 – 5:45 p.m., ED 217 and ED 2nd Floor Hallway

Thomas D. Roberts
Faculty sponsor: Carmen Caceda

Title: Levels of Literacy of High School Seniors

Abstract: Financial Literacy is an essential skill that every single person is in need of. High school seniors are no different. This research project is searching for answers regarding the financial literacy levels of high school seniors. The findings were collected using a survey and interviews. The population for the study was 50 high school seniors. They survey and interviews were created to seek student's confidence and understanding of basic personal finance situations. In the years immediately following high school, these seniors will be in situations that could have

repercussions that affect the rest of their lives. It is important that they leave high school with a basic understanding of personal finance.

5 – 5:45 p.m., ED 217 and ED 2nd Floor Hallway

Bryan Coyle

Faculty sponsor: Carmen Caceda

Title: Student Perspectives on Scientific Notebooks

Abstract: The focus of my presentation will be on analyzing the perspectives of middle school students towards the use of scientific notebooks in the classroom. Student perceptions towards the use of scientific notebooks will be compared to their overall performance in the classroom as well as their proficiency and performance utilizing the notebooks themselves. This research will help determine whether or not scientific notebooks should be accepted as a tool of learning not only for high performers in the classroom, but also how it will be received by students struggling with literacy and overall scholastic achievement.

5 – 5:45 p.m., ED 217 and ED 2nd Floor Hallway

Jordan Werner

Faculty sponsor: Gay Timken

Title: Using MVPA Analysis, does partner based grouping show an increase in physical activity?

Abstract: A two week study done to analyze the potential change in physical activity during a given lesson through the variable of student grouping strategies. Using the moderate-to-vigorous-physical-activity guidelines as the key assessment tool data was gathered to measure student physical activity levels. The differences in grouping strategies was the control week of allowing for student selected grouping while the proceeding week included instructor based grouping with the intent of mixing class social groups. Affective assessments were given halfway through the collection period to survey student opinion and predictions of activity levels and to see their views on grouping strategies used.

5 – 5:45 p.m., ED 217 and ED 2nd Floor Hallway

Andrew Coffin

Faculty sponsor: Carmen Caceda

Title: The Effect of Short Web-Based Videos on Student Interest

Abstract. This study presents insights into the role that short Web-based videos play in students' interest. Students were asked to share their opinions on videos and interest in a survey given to them before and after a series of lessons using short videos. Interviews with teachers were also conducted to gather data on what current practices exist and what opinions teachers hold on videos. Findings suggest that students are keenly aware of how to best use videos to pique their interest and which videos are more likely to have the desired effect.

5 – 5:45 p.m., ED 217 and ED 2nd Floor Hallway

Melina Armitage

Faculty sponsor: Carmen Caceda

Title: How Breakfast Eating Habits Influence Academic Performance

Abstract: Abstract: Too often High school students come to school with little to no nutrition in the morning. This research explored the academic effects of eating breakfast versus not eating breakfast by administering a questionnaire for two weeks. During this time period, observations were noted of participating students in the areas of alertness, participation and organization during the 50-minute class period. Additional insight into the effects of specific foods was also explored using the questionnaire by asking students what they ate every morning. The data was then analyzed for specific patterns between students who performed well in class and ate breakfast regularly and what those students ate.

5 – 5:45 p.m., ED 217 and ED 2nd Floor Hallway

Roger Lynch

Faculty sponsor: Carmen Caceda

Title: Expository Literacy: Preparing Middle School Science Students for Textbook

Abstract: This study explored the preparedness for science textbook learning in a population of first-year middle school (sixth grade) students. An understanding of expository texts and how they differ from narrative texts enables students of all ages to communicate their learning and understanding. Oral Reading Fluency assessments in both narrative and expository styles were used to quantitatively assess the students' reading skills. Additional qualitative evidence was collected via student surveys and interviews of middle school English language arts and science teachers to determine what role the students' disposition played in their textbook learning.

5 – 5:45 p.m., ED 217 and ED 2nd Floor Hallway

Richard Alves

Faculty sponsor: Carmen Caceda

Title: Using Frequent, Informal Journals to Develop Students' Writing Skills

Abstract: The purpose of this qualitative study is to determine guidelines for writing informal journals on a near-daily basis that will help secondary students improve their basic writing skills over a ten-week period. The goal is to identify informal journal practices can help alleviate the widespread problem of under-developed writing skills among students. The study investigates the effectiveness of various elements of frequent, informal journal writing by analyzing information from four sources: observations from a series of journal entries, entries including students' thoughts about journals, interviews with veteran teachers about their experiences using informal journals, and previous studies with similar foci.

5 – 5:45 p.m., ED 217 and ED 2nd Floor Hallway

Kristopher Schendel

Faculty sponsor: Carmen Caceda

Title: Comic Revolution: a Superhero Way to Engage Social Studies

Abstract: This session shows the findings when fictional comic books were implemented in a secondary class. One of them is that teachers can better engage their students and thus achieve greater academic outcomes by connecting social studies content to a medium (e.g. comic books) that is familiar to students. The findings come from surveys, observations, and a teacher interview. This research aims at promoting educators' awareness of the value of including functional materials in the classroom, primarily to transform their own classrooms.

5 – 5:45 p.m., ED 217 and ED 2nd Floor Hallway

Allyson Hindal

Faculty sponsor: Marie LeJeune

Title: Impact of Code-Switching Mentor Texts on Bilingual Writers

Abstract: English language learners are often unable to incorporate aspects of the home culture or language into the regular classroom. This practice often hinders students' abilities to develop their English fluency or their increase literacy in their home language, as well as gives them the impression that their home culture is unacceptable. This study looked at the impact of picture books that use English and Spanish interchangeably on second and third grade Latino writers.

5 – 5:45 p.m., ED 217 and ED 2nd Floor Hallway

Emily Cunningham

Faculty sponsor: Carmen Caceda

Title: Navigating Postmodern Picturebooks

Abstract: Postmodern picturebooks contain something unusual that makes them different from regular picturebooks. They are books that may contain a story told from multiple perspectives, have multiple stories or may use an air of sarcasm and irony. Their uniqueness makes them more challenging for students, and teachers, to comprehend. This research project looks at the way that students and teachers navigate and work to understand this genre of picturebooks.

TEACHER EDUCATION

Session chairs: Alicia Wenzel, Carmen Caceda and Allyson Hindal

Session title: Teacher Education Poster Session 2

Location: Education (ED)

Posters

6:15 – 7 p.m., ED 217 and ED 2nd Floor Hallway

Mark Davis

Faculty sponsor: Holly Eckles

Title: The Affects and Effects of a Student Self-Directed Learning Project

Abstract: This study seeks to examine the motivational effects of having students take ownership of their own learning. The students were given two Oregon State Common Core Standards for the English language arts and asked to develop a project, which would demonstrate their mastery of them in a senior level mythology class. In order to give the students the impetus they would need to complete the project from the initial planning and design stage all the way through its execution, the study relied on the motivational effects of self-differentiation and choice in the assignment. It determined that offering students meaningful choices in their own work has a powerful motivational influence.

6:15 – 7 p.m., ED 217 and ED 2nd Floor Hallway

Helen Fausett

Faculty sponsor: Holly Eckles

Title: Influence of Guest Speakers on Students' Career Outlook

Abstract: The author examined the factors influencing high school students' career aspirations with a study analyzing 12 high school students in a rural area. In this study, students listened to professionals, who came into a business class as a guest speaker, to discuss and demonstrate aspects of their business professions. Pre- and post-test analysis of occupational self-efficacy, or confidence in performing the duties associated with the guest speakers, revealed that this variable was strongly influenced in the short term. The author discusses these results in the context of self-efficacy theory as well as implications for business teachers engaged in career development.

6:15 – 7 p.m., ED 217 and ED 2nd Floor Hallway

Timothy Treen

Faculty sponsor: Holly Eckles

Title: Making Rubrics Work for Students

Abstract: Inspired by the theoretical praises and condemnations of rubric scores as feedback to student writing, the author investigated the impact of written comments in conjunction with rubric scores upon student essays. Results were determined through analysis of percent growth between rubric scores of rough and revised drafts of two essay assignments, one involving only rubric scores as feedback and the other involving written comments in conjunction with rubric scores, and surveys of student responses to the feedback methods.

6:15 – 7 p.m., ED 217 and ED 2nd Floor Hallway

Alicia Ryan

Faculty sponsor: Holly Eckles

Title: Perception of Technology in the Classroom

Abstract: This research attempts to understand what types of technology students perceive as the most engaging. Three variables were analyzed for correlation: survey data, classroom artifacts, and quantified teacher observations. Observations from a student panel discussion were also analyzed. The use of quantitative and qualitative analysis allowed for a more thorough understanding of the data. A correlation between student engagement and academic learning could determine what type of technology is most effective in the classroom at increasing student learning potential. Preliminary analysis suggests students are more engaged using well-explained technology that clearly connects to the learning objective.

6:15 – 7 p.m., ED 217 and ED 2nd Floor Hallway

Dawn Marie Blackwell

Faculty sponsor: Holly Eckles

Title: Teaching Grammar with Theater Games

Abstract: Many theorists have commented on the vast need for improvement in grammar instruction methods. Over my years of teaching theater, I have watched numerous students learn complicated concepts through physical theater games. In this study, I endeavored to discover if teaching a grammar concept with theater games would prove more effective than teaching grammar with traditional instruction methods. I taught the use of prepositions with theater games alongside teaching about adverbs using traditional methods. I then assessed the student growth in knowledge of both concepts and compared the growth rates.

6:15 – 7 p.m., ED 217 and ED 2nd Floor Hallway

Stephani Lynn Howe

Faculty sponsor: Holly Eckles

Title: Comprehension Listening to Text

Abstract: Many students struggle reading aloud amongst their peers in a classroom setting, especially struggling decoders and students with learning disabilities. This study investigates the effects of the use of audio recordings of text vs. student read-alouds on comprehension. Students were tested for comprehension after a section of read-aloud and a section of listening to audio; engagement behaviors were noted. Surveys were given before and after the study to investigate student preference in reading methods. Although student engagement did not significantly differ between the two reading methods, comprehension scores were significantly higher from the audio recording section of the study.

6:15 – 7 p.m., ED 217 and ED 2nd Floor Hallway

Jordan Beers

Faculty sponsor: Holly Eckles

Title: Motivation and Participation Levels of Students while Listening to Music in PE

Abstract: Study using Freshmen students to determine the relationship between music and motivation to participate in a Physical Education setting. The genres of music were

determined by students' most and least preferred genres of music as communicated through surveys. The genres of classical/opera, rap/hip hop, country, and dubstep were used during warm-up and fitness development portions of each lesson. During each lesson, participation levels were recorded with MVPA worksheets. Following each lesson, a survey about factors of motivation was provided to students to complete. The worksheets and survey answers were analyzed to determine if music motivates students and enhances participation levels.

6:15 – 7 p.m., ED 217 and ED 2nd Floor Hallway

Brian J. Stenberg

Faculty sponsor: Holly Eckles

Title: Middle School Students' Perceptions and Motivations Towards Participating in P.E.

Abstract: Studies have shown a decline in high school students' participation in P.E., beginning between eighth- and ninth-grade. My goal was to evaluate middle school students' attitudes to compare them to high school students and better understand the decline. Students were given a survey to complete and some were involved in a focus group interview. The questions covered included enjoyment levels, mixed classes and class importance. Results were similar to the literature (i.e. boys enjoyed competitive games while most of the girls enjoyed cooperative games). In conclusion, students were more involved when their input was valued in the activities.

6:15 – 7 p.m., ED 217 and ED 2nd Floor Hallway

Meriel Hartling

Faculty sponsor: Holly Eckles

Title: English Class Discussion Participation

Abstract: In this action research project we consider the following problem: What are the barriers preventing students from participating in English class discussions, and how can teachers overcome them? We conducted a student survey to gauge student's perceptions of comfort and levels of participation in discussions. Several teaching methods were employed during classroom discussions and participation levels were observed. We found that students who were more comfortable in the class environment participated more frequently in discussions. We also found that the type of discussion greatly impacted the amount of student participation.

6:15 – 7 p.m., ED 217 and ED 2nd Floor Hallway

Sasha Byrd

Faculty sponsor: Holly Eckles

Title: Why are Girls who do not Participate in School Sports Less Likely to Engage in Physical Education Classes?

Abstract: For years physical education has been seen as a rigorous and militaristic structure that seems to create success for male students, and leaving female students behind. Physical education needs a change from the negative image that society

has created: that it is not appropriate for female students to participate in class and to succeed in those activities. This study will highlight what motivates a female student to participate and enroll in a physical education class. With recommendations from current students this study will hopefully provide ideas to help create the change our society needs.

6:15 – 7 p.m., ED 217 and ED 2nd Floor Hallway

Jim Fitzgerald

Faculty sponsor: Holly Eckles

Title: The Relationship between Self Perception of Math Ability and Math Performance

Abstract: In this study, I examine the relationship between the self-perception of math ability and math performance. High school geometry and algebra II students describe how they perceive their own math ability, where they think math ability comes from, and how they feel other people (family, teachers and peers) perceive their math ability. The student responses are then compared to their academic performance. The results show that students who believe that others see them as having natural math ability have a high self-perception of their own math ability and perform better in mathematics.

6:15 – 7 p.m., ED 217 and ED 2nd Floor Hallway

Leigh Rothweiler

Faculty sponsor: Holly Eckles

Title: Teacher-Student Relationships and Student Engagement

Abstract: There is a considerable amount of research being done on how teacher-student relationships affect academic engagement in school. This particular study looks at a high school in Salem, Ore. to see just how much positive teacher-student relationships positively affect students' engagement in school. The research in this report was conducted in two different English 9 classes and was gathered by the students filling out surveys, being interviewed by the teacher, and classroom observation. The data collected seems to point in the direction that when students have a positive relationship with his or her teacher, the student will try harder and be more engaged in academics.

6:15 – 7 p.m., ED 217 and ED 2nd Floor Hallway

Brooke Toy

Faculty sponsor: Holly Eckles

Title: Physical Education: Motivation to Participate

Abstract: Kids today do not want to think that they are going to end up being overweight when they are adults. But in today's society, according to the Center for Disease Control and Prevention (2010), "more than one-third of U.S. adults (35.7 percent) are obese." The purpose of this study is to figure out what motivates students to participate in physical education. The data was gathered during a line dance unit at the middle school level. The data collected seems to point in the direction that when students get to choose the activities they are more likely to participate in physical education.

6:15 – 7 p.m., ED 217 and ED 2nd Floor Hallway

Tim Sasaki

Faculty sponsor: Holly Eckles

Title: Gender Disparity in a High School Mathematics Course as Affected by Instructional Strategies

Abstract: My research aimed to determine the effects of various instructional strategies and students' perceived preferences with regard to those strategies on high school students in a mathematics course. Specifically, correlations between gender and each of these factors were sought.

6:15 – 7 p.m., ED 217 and ED 2nd Floor Hallway

Mary Matocha

Faculty sponsor: Holly Eckles

Title: Evaluating Outcomes of Various Collaborative Work Environments in the Classroom

Abstract: Collaborative groups are used often in today's classroom, but the recipe for an effective grouping is still unclear. This quantitative study looked at the correlation between student preferences for types of groupings and academic achievement. Students worked in various groupings: self-chosen pairs and groups of four to six, teacher-chosen pairs, academically homogenous and heterogeneous groups, and same gender groups. After each experience, students completed a survey asking them to rate their experience on a scale of one to five. Means were calculated and this data was compared to grades received on projects completed in the groups to determine if there was a correlation between survey scores and student achievement.

6:15 – 7 p.m., ED 217 and ED 2nd Floor Hallway

Sarah Daigle

Faculty sponsor: Holly Eckles

Title: Reading Out Loud vs. Silent Reading

Abstract: Reading provides a foundation on which all other subjects build from. To be successful in math, science and history, students need to be able to successfully read and comprehend information. Reading has recently become a big concern for districts around the US. By the time students reach high school, those with low reading levels no longer receive support in development of reading skills. This study was aimed to address this issue by trying to understand whether students prefer and perform better when they are read out loud to by a teacher, or when they are allowed to read silently on their own.

6:15 – 7 p.m., ED 217 and ED 2nd Floor Hallway

Ruth Latona

Faculty sponsor: Holly Eckles

Title: Does Offering Students a Choice in their Art Assignments Increase their Intrinsic Motivation and Creativity?

Abstract: In order to increase student's intrinsic motivation and creativity in their art assignments, I am exploring what effects the ability to choose their project has on those traits. Students are evaluated through informal observations, a survey, grade comparisons, and an interview between me and each student. It is anticipated that by offering students a choice in their assignment they will demonstrate an increase in intrinsic motivation and their creative abilities. With the findings, I will be able to determine which method of assigning projects will have the highest positive impact on student's level of intrinsic motivation and creativity.

6:15 – 7 p.m., ED 217 and ED 2nd Floor Hallway

Justin Rush

Faculty sponsor: Holly Eckles

Title: Why are Students so Apprehensive about Writing?

Abstract: The research project explores the underlying experiences and causes behind the aversion many K-12 students hold toward writing. Consisting of a questionnaire, individual interviews, and a focus group, the study delves into students' feelings and attitudes toward writing—allowing their voices to be heard, in the hopes of improving future writing instruction in schools. With the exorbitant amounts spent on writing remediation constantly climbing, student apprehension toward writing is a problem that must be addressed. This study seeks answers to this problem from the people who should know the most about it—the students.

THEATRE

Session chair: Michael Phillips

Session title: Special Performance of Beckett Shorts

Location: Rice Auditorium (RA)

Performance

2 – 4 p.m., RA 113

Student Cast: Richard Borland, Rosie Peterson, Trevor Jackson, Ken Tang, Devin Reynolds, J.R. Jackson, Amanda Norman, Nate Dunaway, Rebekah Wagner, Margaret Sherbourne, Natalie Piper, Christine Greenhalgh, Luke Armstrong, Katrina Elliott, Megan Wacker, Kim Wilson, Tia Laulusa, Kolleen Chapa, Kira Batcheller and Jessica Wood

Student Design and Technical Staff: Kara Loree (stage manager), Izzy Bristow (costume designer), Nic Wilson (assistant scenic designer), David Brouillette (music/soundscape composer), Chloe Josef (projections designer), Melanie Romero (props mistress), Alyssa Frangipani (assistant stage manager), Jack Meng (assistant technical director) and Jenessa Raabe (dramaturg)

Title: BECKETT SHORTS

Abstract: The students of WOU's Theatre Department are proud to present *BECKETT SHORTS*, a rare performance of seven of Samuel Beckett's short plays. Plays include *Catastrophe*, *Act Without Words II*, *Not I*, *Come and Go*, *Play*,

Footfalls, and *Quad*. Considered one of the most important playwrights of the 20th century, Beckett was an absurdist whose work offered a tragicomic outlook on human nature. In Beckett's world, meaning is elusive, language is suspect, and humans are buffeted by some unseen force beyond their control. Minimalist in structure, enigmatic in tone, *BECKETT SHORTS* is Beckett at his purest, quirkiest, and most unpredictable best.

ACKNOWLEDGEMENTS

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The Academic Excellence Showcase Planning Committee gratefully acknowledges the generous support of this program provided by President Mark Weiss and Provost Kent Neely. Thanks are extended to Dean Stephen Scheck (College of Liberal Arts and Sciences) and Dean Hilda Rosselli (College of Education), whose support of this event has been unwavering. We are most appreciative of Nan Lehto and the Werner University Center staff for graciously accommodating all of our scheduling needs, especially at the WUC. Kathy Hill (College of Liberal Arts and Sciences) is also gratefully acknowledged for her invaluable assistance with this event. Our appreciation is extended to Bill Kernan and his staff at University Computing Services for providing exceptional technologic support for the Showcase. We extend our gratitude to Steve Carter and his staff in the print shop for providing exceptional service in producing all of the Showcase related materials. A special thank you is given to Lisa Catto, Betty Orwick, and Denise Visuaño from the Office of Public Relations for their hard work, dedication and amazing talents in graphic arts design and publishing. We are especially indebted to the session chairs and faculty sponsors who are crucial to the success of this event.



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IN MEMORY



Dr. Hank Bersani

This marks the 7th year of Western Oregon University's Academic Excellence Showcase, an event that recognizes students' scholarly and creative accomplishments and celebrates the pursuit of learning and knowledge. As such, it seems particularly fitting and appropriate that this year's Showcase is dedicated to an individual whose scholarly work has been recognized worldwide but whose intellectual vitality impacted many students, faculty, and staff right here at WOU. Dr. Hank Bersani, a professor of special education at WOU since 1999, died as a result of injuries sustained in a traffic accident on Saturday, March 31, 2012.

Over the course of his career, Hank sustained an impressive and consistent record of scholarship worthy of the University's revered Mario and Alma Pastega Award for Excellence in Scholarship, the Rosemary F. Dybwad International Travel Fellowship Award, the Mary Switzer Distinguished Research Fellowship, and the Franklin Smith National Service Award among other distinctions.

Dr. Bersani obviously followed the advise of one of his mentors at Syracuse who told him: "*If you don't publish it—you never really said it.*" He had over 20 articles published in peer reviewed journals, he contributed chapters in 18 books and edited and co-edited 6 books. He wrote newsletter articles, appeared in commercial videos, authored numerous reports, published book reviews, served on editorial review boards, and served as an expert counsel or witness in over a dozen cases. Clearly, his work had a lasting national and international significance on the field of special education.

Hank's intellectual curiosity extended far beyond traditional research and inspired many in the WOU community who traveled to Vietnam orphanages with him as part of the Forgotten People Foundation, witnessed his unrelenting advocacy for individuals with disabilities, took classes with him, or even bicycled with him on his many cycling adventures. Dr. Bersani's productive scholarship record, professional commitment, and intellectual vitality will continue to inspire us and as we welcome new students to the honored tradition of intellectual discourse, we know that he would approve. In fact he would remind students that "Researchers know that coming up with the right question is half of getting the right answer."

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