SCHEDULE OF EVENTS

UNIVERSITY OF PORTLAND FOUNDERS DAY

TUESDAY, APRIL 9, 2013
Presentations
Session I 10:15-11:05 a.m.  Page 2
Session II 11:15 a.m.-12:05 p.m.  Page 7
Session III 2:15-3:05 p.m.  Page 12
Session IV 3:15-4:05 p.m.  Page 17

Poster Sessions
Students will be by their posters in the noted poster presentation session, but the posters will remain up all day.

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11:15 a.m.-12:05 p.m.  Page 21
2:15-3:05 p.m.  Page 22
SESSION I  10:15 – 11:05 A.M.

Collaborative for Int'l Studies &
Global Outreach
Buckley Center 209

"CISGO Internationalization Efforts: Student Experiences at the Human
Development Conference and Other CISGO Outreach."
Three students from UP attended the Human Development Conference in February and
presented their research projects. Students will share their experiences at Notre Dame
and their research projects. Reflections on the past year's Campus Internationalization
efforts by the Collaborative for International Studies and Global Outreach will also be
shared.
Presented By: Ruby Machado, Julia Sheets, Andrea Merrill, and Kate Regan
Faculty Sponsor: Anne Santiago

College of Arts and Sciences
Biology
Franz Hall 206

"The Effects of Autotomy on the Tendency to Locomote in Purple Shore Crabs
(Hemigrapsus nudus)."
Although autotomy (leg loss) allows an animal to survive an otherwise fatal situation,
missing a leg can have severe consequences for locomotion and thus access to resources.
We explored the effects of autotomy on locomotion in the purple shore crab, and as pre-
dicted, animals missing legs spent less time locomoting compared to control animals.
Presented By: Elizabeth Bernards
Faculty Sponsor: Tara Maginnis

"Autotomy and the Dorsoventral Righting Reflex (DVRR) in Purple Shore Crabs
(Hemigrapsus nudus)."
Intertidal crabs are often flipped onto their carapace by the challenging terrain or the
advance of the tides, and the animals quickly use their legs to return to a dorsal-side up
position. We tested how autotomy (leg loss) affects the DVRR and our results suggest
very different fitness costs and benefits between the sexes.
Presented By: Tim Luethke
Faculty Sponsor: Tara Maginnis

College of Arts and Sciences
English
Buckley Center 207

"I AM': The Protean Absence of Essence and The Failure of Individuality in James
Joyce's Ulysses."
Presented By: Ian Clark
Faculty Sponsor: Genevieve Brassard

"Why Go It Alone? Thoreau, Community, and Contemporary Environmentalism."
Presented By: Alex Dickinson
Faculty Sponsor: Sarah Weiger

"The Path to Identity: Lucile Clifton's Call to Action."
Presented By: Monica Down
Faculty Sponsor: Herman Asarnow
| College of Arts and Sciences | “Protected Species and Conflict in the Columbia River Estuary.”
Environmental Science | The first group evaluates the status of the Marbled Murrelet as a threatened species under the Endangered Species Act, specifically examining biological, political, and ecosystemic factors influencing recovery. The second group looks into the conflicts between sea lions, their consumption of salmonid species, and their relation to Bonneville Dam focusing on scientific and political analysis.
Franz Hall 214 | Presented By: Hilary Akers, Sarah FitzGerald, Molly Johnson, Keenan Moore, Evan Fessler, Carolyn Forsyth, Eric Nettleton, Alyssa Oue, Maria Rios, and Ashley-Nicole Vanderford
Faculty Sponsor: Steve Kolmes and Russell Butkus |
| College of Arts and Sciences | “Inside the Language Immersion Internships: Personal Expectations, Strategies, and Learning.”
International Language and Cultures | Students of International Languages and Cultures will talk about their experiences interning in language-immersion schools around Portland. Presentation in English. Question-and-answer session to follow.
Franz Hall 223 | Presented By: Morgan Willard, Noah Forrest, Deven Ropes, Jamie Opr, and Daniel Lunchick-Seymour
Faculty Sponsor: Alexandra Hill |
| College of Arts and Sciences | “Ethical Theories in Support of Prenatal Genetic Testing.”
Philosophy | Presented By: Haley Skelton
Shiley Hall 124 | Faculty Sponsor: Tom Faller |
| College of Arts and Sciences | “Compatibilism and Negative Liberty.”
Political Science | Presented By: Petra Barton
Franz Hall 233 | Faculty Sponsor: Jeff Gauthier |
| College of Arts and Sciences | “Nietzsche and Music: Quality and Tragedy in the Apollonian and Dionysian Dialectic.”
Political Science | Presented By: Jeffrey R. Makjavich
Franz Hall 233 | Faculty Sponsor: Michael Andrews |
| College of Arts and Sciences | “Putting the Death Penalty to a Vote: Comparing the Strategies of Two California Initiatives.”
Political Science | An investigation of the organization and messaging of death penalty initiatives in California.
Franz Hall 233 | Presented By: Francisco Huzel
Faculty Sponsor: Gary Lee Malecha |
| College of Arts and Sciences | “Closing the Socioeconomic Achievement Gap in U.S. Education: A Federal Policy Solution.”
Political Science | This work provides a normative analysis and empirical investigation of the use of standardized tests in the US educational system. It ultimately argues that adopting an alternative assessment system such as the one used in Scotland can help the US realize the promise of providing students equal access to a quality education.
Franz Hall 233 | Presented By: Valerie Schiller
Faculty Sponsor: Gary Lee Malecha and Richard Askay |
SESSION I  10:15 – 11:05 A.M.

"Depression in Patients with Huntington's Disease: Is the Presence of Mutant Huntingtin in the Cells of the Midbrain Sufficient to Produce Depressive-Like Symptoms in Wildtype Mice? A Preliminary Report."
Psychology Senior Thesis. Huntington's disease is a fatal degenerative disease. A huntingtin gene mutation slowly destroys the brain and produces depressive symptoms up to a decade prior to awareness of the altered gene. In order to combat the disease, it is necessary to identify the relevant neuronal populations involved. Here we assess the influence of the midbrain dorsal raphe nucleus.
Presented By: Jordan Lueras
Faculty Sponsor: Mark Pitzer

"Stabilizing Stigmas: How Various Factors Affect Views of Mental Health."
Psychology Senior Thesis. Those with mental health challenges are often viewed negatively by others. People who suffer from mental illnesses, particularly anxiety disorders and schizophrenia, are likely to face criticism or discrimination. The presentation summarizes findings in literature and discusses various factors that influence how people tend to view mental health conditions in others.
Presented By: Frank Deryck
Faculty Sponsor: Mark Pitzer

"What's Causing Depression in Patients with Huntington's Disease? Creating a Mouse Model of Depression through the Viral Delivery of Mutant Huntingtin into the Midbrain of Wildtype Mice."
Psychology Senior Thesis. Huntington's Disease is a fatal, neurodegenerative disorder due to a mutation in the huntingtin gene. Destruction of specific circuits produces variable symptoms, the most common being depression. The current study was designed to create a mouse model of Huntington's depression by infusing virally-delivered mutant huntingtin into the dorsal raphe nucleus of wildtype mice.
Presented By: Anna Warden
Faculty Sponsor: Mark Pitzer

"Implementing Culturally Significant Interventions in Treatment with Latino Youth."
This study explores interventions specifically designed for treatment with the Latino youth population, and discusses the value of culturally-specific treatments versus general interventions.
Presented By: Andrea Monto
Faculty Sponsor: Kevin Jones

"Queering Up the Air: How Social Workers Can Effectively Advocate for LGBTQ Labor Rights."
Most Americans do not know that LGBTQ people's rights to equal treatment at work are not currently protected at the national level. Our goal is inform participants of the systemic disadvantages that these workers face and provide tools for social workers to advocate for equal rights on the job and freedom from discrimination for all.
Presented By: Mary Worlein and Lissy Richards
Faculty Sponsor: Kevin Jones
SESSION I  10:15 – 11:05 A.M.

“Preventing Adoption Disruption: Pre- and Post-Adoption Services that Assist Families Adopting Children from Foster Care.”
This presentation provides a survey of education and training opportunities that prepare families for adoption of children out of foster care, including support services during the transition from foster care to the finalization of adoption. These services help preserve placements and maintain permanency for youth.
Presented By: Annie Stroup
Faculty Sponsor: Kevin Jones

“Project LightUP.”
A software theatre lighting control system intended for use in live theatre. It solves two problems with current systems: cost and speed. Traditional hardware lighting systems are expensive and existing software systems are considered slow, unreliable, and unintuitive. Our goal is to create an intuitive software system which is fast, reliable, and runs on a budget computer.
Presented By: Kelsey Abe, Ben Gadbois, Michael Liedtke, and Tim Yandl
Faculty Sponsor: Northon Rodrigues (Sage Business Solutions) and Steven Vegdahl

“The Gameboard.”
An electronic checkers board where the user can face a competent AI or face another human. We hope to enhance the traditional game board experience with new features and improved aesthetics.
Presented By: Alicia Gaghan, Alex Haneman, and Mark Sugiyama
Faculty Sponsor: Karl Cyr (Jive Software), Wayne Lu, and Andrew Nuxoll

“Demand Reduction Power Management.”
This system stores energy overnight and releases power in combination with onsite power, during peak demand daylight hours to help reduce the demand charge for the end user.
Presented By: Adam Fortier
Faculty Sponsor: John Haner (BPA) and Zia Yamayee

“Parkinson’s Eating Utensil.”
This project furthered development of an eating utensil that absorbs tremors of people with Parkinson’s Disease, allowing them to eat with minimal tremor disturbance. A final design was 3D printed into a working prototype, tested, and evaluated by people with the disease. Special thanks to the Parkinson’s Research Organization of Oregon for their contributions.
Presented By: Juliana Flores, Jordan Heintz, Melissa Ishii, David Lee, and Victor Torres
Faculty Sponsor: Joe Broderick (Xerox) and Timothy Doughty

“Adjustable Wind Turbine Blade Angle.”
We have designed and fabricated a prototype of a wind turbine blade that can adjust its geometry for different wind speeds. The blade uses a smart material lip that deflects during high and low winds so that the turbine is safer and more efficient.
Presented By: Lars Erik Malde, Stephanie Paustian, and Cody Wells
Faculty Sponsor: Dan Patla (Army Corps of Engineers) and Khalid Khan
SESSION I  
10:15 – 11:05 A.M.

Shiley School of Engineering
Mechanical Engineering
Shiley Hall 319

"Vehicle Motion Energy Harvester."
A mechanical speed bump that converts the translational motion of a slowing car to rotational motion, which is used to generate energy via a DC generator and flywheel. The goal of this project was to design, fabricate, and test a VMEH, and determine its feasibility for real-world use in energy-generating applications. IRC Aluminum and Stainless generously donated the aluminum plate.
Presented By: Warren Ching, Sean Fujiyoshi, Kainoa Gaddis, Kevin Kadooka, and David Ogata
Faculty Sponsor: Tim Scheumann (NACCO Materials Handling Group) and Timothy Doughty

School of Nursing
Buckley Center Auditorium

"Your Voice Counts - The Power of Nursing in Politics."
In March, the presenters traveled to Washington, D.C. to represent the UP at this year's American Association of Colleges of Nursing's "Student Summit." The presenters will share about their experience at the Summit, and will tie work that took place at the Summit to events currently happening at a local level. The audience will learn how involved nurses can make a difference in the communities.
Presented By: Jamie Bracewell, Molly Brown, James Daugherty, and Molly Donahue
Faculty Sponsor: Janet Banks

"Discussing the End of Life."
Nurses have a prominent role in helping patients, families and healthcare teams to facilitate a transition from curative to end-of-life care. By facilitating conversations regarding treatment plans, improving communication with families and physicians, confronting systemic barriers, and reducing preconceptions regarding hospice, nurses can ensure a "good death" for their patients.
Presented By: Kellie Lewis
Faculty Sponsor: Janet Banks
SESSION II  11:15 A.M. – 12:05 P.M.

College of Arts and Sciences  
Biology  
Franz Hall 214

"Maternal High-Fat Diet Consumption Impacts Offspring Anxiety and Food Choice."
Non-human primate offspring whose mothers consumed a high-fat diet (HFD) during pregnancy and lactation display anxiety-like behaviors, and females display an increased response to fat-enriched foods, suggesting that perinatal HFD consumption influences food preferences and increases risks for developing mental health disorders.
Presented By: Brittney Guro  
Faculty Sponsor: Elinor Sullivan

College of Arts and Sciences  
English  
Franz Hall 206

"Characterization of the Complete GLB1 cDNA Synthesized via mRNA Isolated from Normal and GM1-Affected Sheep Fibroblasts to Investigate Possible Disease-Causing Mutations in Exons 6 and 12."
A deficiency in β-galactosidase activity leads to an accumulation of substrates in the lysosome, leading to neurological dysfunction associated with GM1-gangliosidosis. Previous research has found three cDNA missense mutations in exons 6 and 12 of the GLB1 gene, which codes for β-gal. The purpose of this study was to confirm these possible mutations via the characterization of the GLB1 gene.
Presented By: David Bailey  
Faculty Sponsor: Amelia Ahern-Rindell

College of Arts and Sciences  
Environmental Science  
Franz Hall 233

"The Investigation of Galactose as a Potential Chemical Chaperone for β-galactosidase in an Ovine Model of GM1-Gangliosidosis via In Vitro and In Vivo Analysis of β-Galactosidase Activity in Fibroblast Cells."
GM1-gangliosidosis is a lysosomal Storage Disease caused by various mutations in the GLB1 gene that lead to deficient β-galactosidase activity. This deficiency causes a buildup of GM1 ganglioside causing symptoms associated with GM1. Pharmacological chaperones have been known to increase the β-gal activity of mutated cells. This research focused on the effects of galactose to act as a chaperone.
Presented By: Vinson Diep  
Faculty Sponsor: Amelia Ahern-Rindell

"From Western Eyes: Material from Morocco (Original Essays)."
Presented By: Evan Gabriel  
Faculty Sponsor: John McDonald

"In Harmony (Original Poems)."
Presented By: Jose Huerta  
Faculty Sponsor: Herman Asarnow

"To Swallow an Orange."
Presented By: Corey Fawcett  
Faculty Sponsor: Genevieve Brassard

"Habitat Restoration and Toxics."
This project will explore the development of the Lower Columbia Basin that resulted in the accumulation of persistent toxins in fish and environmental racism of bioaccumulation. Furthermore, this presentation will present the ecological and policy procedures required for bioswale construction below the University property to mitigate runoff pollution from the University.
Presented By: Aiden Irish, Trey Parry, Tyler Rockhill, Marielle LeDuc, Brie Taylor, Sanoe Keliinoi, Ethan Barnes, and Matthew Abely  
Faculty Sponsor: Steve Kolmes and Russell Butkus
**SESSION II** 11:15 A.M. – 12:05 P.M.

<table>
<thead>
<tr>
<th>College of Arts and Sciences</th>
<th>Title</th>
<th>Presenter(s)</th>
<th>Faculty Sponsor(s)</th>
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| History                      | “Spheres and Suffrage: How the American Civil War Changed the Women’s Rights Movement.” | Presented By: Amanda Pilcher  
Faculty Sponsor: Christi Hancock                                               |                          |
| Shiley Hall 101              | “The Chinese Six Companies.”                                         | Presented By: Nick Chun  
Faculty Sponsor: Christi Hancock                                                |                          |
|                              | “Beyond an Affair: The Effect of the Henry Ward Beecher and Elizabeth Tilton Scandal on Journalism and Women’s Roles in the Gilded Age.” | Presented By: Laura Frazier  
Faculty Sponsor: Christi Hancock                                                |                          |
| International Language and   | “German Film and Literature.”                                        | Four German Studies majors, who presented original research in German film and literature at the German Undergraduate Research Conference at the Illinois Wesleyan University earlier this month, will provide an overview of their conference presentations in English. |                          |
| Cultures                     |                                                                      | Presented By: Petra Barton, Erin Burns, Katelyn Freund, and Melanie Schmuck  
Faculty Sponsor: Laura McLary                                                  |                          |
| Shiley Hall 123              | “Honors Recital.”                                                    | Musical performances by outstanding students selected by the music faculty. |                          |
|                              |                                                                      | Presented By: Timothy Blaydon (trumpet), Rodrigo Gaspar-Barajas (voice), Nihat (Cem) Inan (piano), Hannah Kintner (voice), Kylie Pybus (piano), Kristin Wishon (flute), and Ashley Woster (voice)  
Faculty Sponsor: Michael Connolly                                              |                          |
| Performing and Fine Arts     | “Kierkegaard, Nietzsche, and Heidegger on Freedom.”                   | Presented By: Francis Finnegan  
Faculty Sponsor: Richard Askay                                                    |                          |
| Mago Hunt Recital Hall       | “Ortega y Gasset on Freedom.”                                        | Presented By: Ben Cilwick  
Faculty Sponsor: Richard Askay                                                    |                          |
| Philosophy                   | “Justice and Craftsmen in Plato’s Republic.”                          | Presented By: Catie Seeboth  
Faculty Sponsor: Alejandro Santana                                                 |                          |
| Shiley Hall 124              | “The Forgotten City in Plato’s Republic.”                             | Presented By: Victoria Li  
Faculty Sponsor: Alejandro Santana                                                 |                          |
| Psychology                   | “Social Capital for Adolescents from Low-Income Families: A Means to Improve Academic Achievement and Mental Health?” | Psychology Senior Thesis. Although social capital has been popularized recently, few researchers have investigated social capital’s impact on low-income populations. This study examined the impact of social capital measures in the school and home environment for academic achievement and psychological well-being. OLS regression models revealed few benefits of social capital for low-income youth. | Presented By: Jane E. Oliphant  
Faculty Sponsor: Andrew Guest                                                  |
"Exploring the Bilingual Advantage: "Explorando la Ventaja Bilingüe" A Study on Working Memory and the Cognitive Implications of Multiple-Language Proficiency." Psychology Senior Thesis. Recent literature has challenged early claims that bilingual proficiency is detrimental to one's psychological profile; however, countless research has reaffirmed the beneficial implications of fluency in multiple languages. I explore the relationship between multiple language proficiency and cognitive performance, specifically working memory and central executive function.
Presented By: Lupita Ruiz
Faculty Sponsor: Susan Baillet

"How We Learn Best." Psychology Senior Thesis. This study examined which learning methods are most effective at promoting learning in a lecture setting. To do this, the study attempted to determine whether being tested on lecture material (the testing effect) or creating and answering questions about lecture material (the generation effect) led to better retention of the lecture material.
Presented By: Hilary Simpson
Faculty Sponsor: Susan Baillet

"The Role of Sensitization in Empathetic Embarrassment." Psychology Senior Thesis. This study aimed to investigate whether sensitization plays a role in empathetic embarrassment. Participants were subjected to embarrassment and then watched a confederate experiencing embarrassment while the participants' empathetic responses were recorded via psychophysiological assessment and self-report.
Presented By: Genevieve Leineweber
Faculty Sponsor: Andrew Downs

"Different Perspectives of Social Justice Experiences." Social Justice capstone seniors analyze their community experiences through different discipline lenses and different ideological perspectives.
Presented By: Brett Boeh, Erika Standeven, Annie Stroup, and Katie Van Dyke
Faculty Sponsor: Lauretta Frederking

"Experiences of, and Resources for, Emotionally and Behaviorally Challenged Children in the Portland Metro Area." This project will explore the resources that are currently available for emotionally and behaviorally challenged children in the Portland Metro area. The presentation will also cover the experiences of children with emotional and behavior challenges and how resources could be expanded and improved to better serve this community.
Presented By: Megan House, Julia Lyons, and Katya Ludwig
Faculty Sponsor: Kevin Jones

"The Benefits of Socialization for People with Alzheimer's and Dementia." This study explores the many benefits of increased socialization for those with Alzheimer's and dementia, and describes effective methods of communication with these individuals.
Presented By: Sarah Batten
Faculty Sponsor: Kevin Jones
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<thead>
<tr>
<th>College of Arts and Sciences</th>
<th>“The Benefits of Oral History for Older Adults.”</th>
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<tbody>
<tr>
<td>Social Work</td>
<td>This project will explore the oral histories of participants at the Marie Smith Center, including a look at their experiences of race throughout their lives.</td>
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<tr>
<td>Buckley Center 108</td>
<td>Presented By: Lisa Nims</td>
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<td>Faculty Sponsor: Kevin Jones</td>
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<tr>
<th>College of Arts and Sciences</th>
<th>“Grace Through Vulnerability: A Perspective on Genesis 38.”</th>
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<tr>
<td>Theology</td>
<td>This presentation is an interdisciplinary work on Genesis 38. Through an analysis of the varied aspects of this narrative, primarily Tamar’s participation in the act of prostitution, a broader understanding, especially in regards to the voice of the victim, is achieved. The main conclusion is: that by recognizing one’s own vulnerability, power can be reclaimed and right relationship restored.</td>
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<tr>
<td>Buckley Center 110</td>
<td>Presented By: Veronica Solis</td>
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<td>Faculty Sponsor: Carol Dempsey and Jeffrey Cooper</td>
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<tr>
<th>Pamplin School of Business</th>
<th>“The CFA Research Challenge.”</th>
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<tr>
<td>Franz Hall 223</td>
<td>Three finance seniors will discuss their roles in the recent CFA Research Challenge and their financial analysis of Nike.</td>
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<td>Presented By: Austin Rakestraw, Colin Donahue, and Kyle McDonnell</td>
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<td>Faculty Sponsor: Brian Adams</td>
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<tr>
<th>Pamplin School of Business</th>
<th>“APICS Case Competition.”</th>
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<td>Franz Hall 223</td>
<td>Two teams of Operations Technology Management (OTM) students competed in the annual APICS Case Competition. For the second year in a row, UP claimed first place and both teams were top three finalists. We will be talking about our strategy, the results, and our experience overall. We hope to encourage our fellow students to continue to represent the UP OTM department by competing in the future.</td>
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<td>Presented By: Elyse Landreville, Deven Ropes, Tommy French, Andrew Hadfield, Casey Kelleher, Mark Myshatyn, Melanie Pesut, and Keith Hummel</td>
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<td>Faculty Sponsor: Gary Mitchell</td>
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<tr>
<th>Shiley School of Engineering</th>
<th>“Knowledge Bowl System.”</th>
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<tr>
<td>Electrical Engineering</td>
<td>A device designed to be used by high schools nationwide to help run the Knowledge Bowl competitions. The player controllers detect the capacitance of a human hand to sense whether or not a team has rung in. This system ranks teams in the order in which they rang in while keeping track of how much time is left to answer the question.</td>
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<tr>
<td>Shiley Hall 301</td>
<td>Presented By: Jennifer Bond, Rob Cagan, Michael Patterson, and Jonathan Smith</td>
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<td>Faculty Sponsor: Jerri Patten, Walt Harrison, and Joseph Hoffbeck</td>
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<tr>
<th>Shiley School of Engineering</th>
<th>“Solid State Thermostat for Peltier Beverage Temperature Control.”</th>
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<tr>
<td>Electrical Engineering</td>
<td>This device uses thermoelectrics and the principle of hysteresis to heat or cool a liquid to the user’s desired temperature.</td>
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<tr>
<td>Shiley Hall 301</td>
<td>Presented By: Greg Brady, Jacqueline Floyd, Kristian Liwanag, and Adrienne Suner</td>
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<td>Faculty Sponsor: Peter Osterberg and Steve Westdal (InSitu Inc.)</td>
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“Posture Pedometer Cummerbund.”
A piece of clothing equipped with electronics that indicates when a user is displaying bad back posture and also monitors the user’s step count. This design was implemented with an Arduino microcontroller, flex sensor, pedometer switch, LCD screen, and vibration motors all of which are packaged into a comfortable and discreet spandex cummerbund, meant to be worn under any clothing.
Presented By: Kelly Han, Kyle Mauer, and Kevin Vo
Faculty Sponsor: Srija Pidiparthy (Daimler), Deborah Munro, and Aziz Inan
Shiley School of Engineering

“Motor Skills Development for Microscopy.”
A lab station was needed to develop the fine motor skills of microscopy students without wasting specimen. Training tools and techniques were designed to provide audio, visual, and haptic feedback to the user.
Presented By: James Magas and Devan Gray
Faculty Sponsor: Eric Austin (MSEI Inc.), Khalid Khan, and Jeffrey Brown

“SAE Aero.”
The team designed and constructed an RC airplane per the specifications of the 2013 SAE Aero Collegiate Design Competition. The goal of the competition is to carry the highest amount of weight inside the aircraft. The airplane has an 80-inch wing span and is powered by a combustion RC airplane engine.
Presented By: Evan Howell, Marcus Hughes, and Zach Nye
Faculty Sponsor: Rian Johnson (Van’s Aircraft) and Khalid Khan

“Lumbar Motion Study Design.”
Spinal fusion is a surgical procedure to lessen chronic back pain and can cause a loss in range of motion in the spine. Since the change of range of motion after surgery has not been documented quantitatively, a test for the lumbar motion monitor was designed.
Presented By: Morgan Laug and Nicholas Williams
Faculty Sponsor: Larry Ehmke (Acumed), Deborah Munro, Kenneth Lulay, and Fadi Fathallah (University of California)
SESSION III  2:15 – 3:05 P.M.

Center for Entrepreneurship
Franz Hall 233

“Annual Founders Day Elevator Pitch.”
Open to all students at all levels, including graduate students, who would like to present their “pitch” for a company, not-for-profit, technology or product. A team of judges will help score the presentations. The winner receives a $100 gift card!
Presented By: All Students Welcome
Faculty Sponsor: Peter Rachor

Dundon-Berchtold Initiative in Applied Ethics
Franz Hall 223

“Ethical Resources for Engineers: What to Do When You Don’t Know What to Do.”
The work presented has two objectives: to engage our engineering students in the world of Ethics in the workplace and to give them a sense of what practical resources are available, including tools provided by employers and by the University’s curriculum. University of Portland engineering professors and alumni provide case studies and guide us as we consider the need for additional resources.
Presented By: Jordan Schiemer
Faculty Sponsor: Tim Doughty

College of Arts and Sciences
Biology
Franz Hall 214

“Making Micro-Ethical Decisions in Clinical Practice: A Qualitative Investigation of Student Nurse Experiences.”
Student nurses frequently encounter micro-ethical, substandard patient care problems during their clinical practicum. Little is known about how nursing students learn to intentionally incorporate ethics in the contextual clinical environment to promote best practice. Qualitative research findings will be presented to understand baccalaureate nursing students’ real-world experiences.
Presented By: Molly Brown
Faculty Sponsor: Lorretta Krautscheid

Teachers confront ethical dilemmas every minute. Fusing ethical theory with practice in defensible ways while meeting the unique needs of each learner is hard work! Our video vignettes illustrate the ethical problems educators face and unpack the ethical principles in tension in the breakneck pace of daily teaching.
Presented By: Cady Anderson
Faculty Sponsor: Karen Eifler

“Fluorometric Analysis of Alpha-Neuraminidase Activity in Normal and GM1-Gangliosidosis Affected Ovine Fibroblasts with the Protease Inhibitor Leupeptin.”
GM1-Gangliosidosis is caused by a mutation in the GLB1 gene, which encodes β-galactosidase. The unique GM1-affected sheep mutation displays primary β-galactosidase deficiency along with a secondary deficiency in α-neuraminidase. We hypothesize that fibroblast incubation with the protease inhibitor leupeptin will decrease protein degradation, thereby increasing α-neuraminidase activity.
Presented By: Brittney Guro
Faculty Sponsor: Amelia Ahern-Rindell

“Isolation, Characterization, and Analysis of Ovine Beta-Galactosidase.”
The ovine GM1 affected beta-galactosidase (β-gal) protein showed no difference in size when compared to β-gal protein standards. This does not rule out the possibility that the GLB1 gene has a mutation in it affecting the β-gal protein, but supports our hypothesis that the GM1-causing mutation leads to a confirmation change and the resulting dual deficiency in β-gal and alpha-neuraminidase.
Presented By: Wyatt Rodan
Faculty Sponsor: Amelia Ahern-Rindell
SESSION III 2:15 – 3:05 P.M.

"Investigation of the Effect of the Possible Pharmacological Chaperone Lactose on β-Galactosidase Activity in GM1-Gangliosidosis Affected Ovine and Canine Fibroblasts."
GM1 Gangliosidosis (GM1) is a lysosomal storage disorder caused by a mutation in the GLB1 gene, which codes for the protein β-galactosidase. The purpose of this research is to evaluate lactose as a pharmacological chaperone to increase β-gal activity in GM1 affected sheep and dogs. Lactose will be added to fibroblasts both in vivo and in vitro, and specific β-gal activity will be determined.
Presented By: Kelli-Ann Lum
Faculty Sponsor: Amelia Ahern-Rindell

"Dynamic NMR Study of Pseudoacid Open-Cyclic Equilibrium."
Arylpyran pseudoacids are suspected to undergo ring-chain-ring interconversions in solution at a rate which prevents resolution. Three pseudoacids have been studied to determine if the rates can be modified by substituents adjacent to the pyran ring.
Presented By: Truc-Vi Duong
Faculty Sponsor: Edward J. Valente

"New Route to Synthesize Sultam Thioureas."
Sultam thioureas have been reported to inhibit West Nile virus (WNV) replication and synthesizing new derivatives is important to investigate the therapeutic potential of this class of compounds. In prior work, a method to synthesize sultam thioureas was developed, but varying one position in the compound was challenging. Therefore a new method was developed in order to overcome this limitation.
Presented By: Victoria Li
Faculty Sponsor: Warren Wood

Presented By: Joseph Frischmuth
Faculty Sponsor: Christi Hancock

"Reshuffling Hollywood: The Role of Women in the Film Censorship of 1934."
Presented By: Justine Roades
Faculty Sponsor: Christi Hancock

"Walter Lippmann’s Classical Liberalism: Reconciling Laissez-Faire and Collectivism in the American Century."
Presented By: Brock Vasconcellos
Faculty Sponsor: Christi Hancock

"Short Stories from Latin America."
Students from SPN 424, Latin American Short Story, will present brief pieces of literary analysis and interpretation of short stories by Horacio Quiroga, Silvina Ocampo, Gabriel Garcia Marquez, and Alicia Yanez-Cossio. Conducted entirely in Spanish.
Presented By: Renee Ambacher, Gwendolyn Pitkin, Stephanie Rodriguez, Brianna Rossi, Geraldine Sequeira, and Sydney Weber
Faculty Sponsor: Maria Echenique

"Language and the Scientific Enterprise."
Presented By: Alec Jones
Faculty Sponsor: Jim Baillie
SESSION III  2:15 – 3:05 P.M.

College of Arts and Sciences
Philosophy
Shiley Hall 123

"A Wittgensteinian Reading of Moby Dick."
Presented By: Ian Clark
Faculty Sponsor: Jim Baillie

"Leibniz’s Compatibilism."
Presented By: Max Johnston
Faculty Sponsor: Jim Baillie

"Locke and Berkeley on the Origin of Ideas."
Presented By: Kayla Worley
Faculty Sponsor: Jim Baillie

College of Arts and Sciences
Political Science
Shiley Hall 124

Lee Allen and Andy Allen signed up with Neptune Underwater Expeditions to explore a shipwreck in the Atlantic Ocean. On July 7, 2011, Lee died during the dive. Andy, acting on behalf of spouse Lee, is suing the Neptune for Lee's wrongful death. Have you ever been on a jury? Now is your chance! Did Neptune Underwater Expeditions recklessly cause the death of Lee Allen? Join us and find out!
Presented By: Brenna Twohy, Hilary Simpson, Charity Taylor, Jordan Jones, Emma Englund, Susie Sprinson, Brendan Bewley, Calvin Tuhy, Nic Barradas, Eileen Kannengeiser, Lyndsey Tsuruda, MacKenna Krohn, Emily Raszler, Emily Strand, Heather Gale-Shaffer, Elvia Ganoa-Mandujano, Augustus Leveque-Eichhorn, Jennifer Perkins, and Amanda Danforth
Faculty Sponsor: Gary Lee Malecha

College of Arts and Sciences
Social Work
Buckley Center 108

"Turning the Focus: Applying Empowerment Theory to Volunteerism and Volunteer Retention."
This project explores volunteer motivation and retention at two social service agencies, Elders in Action and the Children's Relief Nursery, that serve two different populations. Additionally, volunteerism (both in interactions with clients and in volunteers' personal experiences) will be considered through the lens of empowerment theory, and applications for other programs will be discussed.
Presented By: Mara Kouides and Tynishia Walker
Faculty Sponsor: Kevin Jones

"How Social Services Does Gender."
This project examines how gender roles and norms play a part in social services. We will begin with a description of the ways gender and gender roles are created in U.S. society. Then we will connect how these gender conceptions form and structure social welfare services and agencies.
Presented By: Micaela Leavell and Becca Chavez
Faculty Sponsor: Kevin Jones

"Program Evaluation 101: The Plight of the Non-Profit."
This presentation offers a brief explanation of the necessity of conducting program evaluation in the non-profit sector, and provides an easy "how-to" guide for conducting evaluations in non-profit programs.
Presented By: Jane E. Oliphant
Faculty Sponsor: Kevin Jones
SESSION III 2:15 – 3:05 P.M.

College of Arts and Sciences
Theology
Buckley Center 111

“The Three Goods of Marriage: Augustine’s Perspective on Sexual Ethics within Marriage.”
St. Augustine of Hippo (d. 430) highlights three goods of marriage in his treatise ‘On the Excellence of Marriage.’ This paper reveals how these goods help the future population of the earth, bring couples closer into friendship and fidelity, and bring them into relationship with God. It also explores how these goods have been transformed and incorporated in the Church’s moral teaching today.
Presented By: Katie Semas
Faculty Sponsor: Michael Cameron

“St. Bernard of Clairvaux: Contemplation, Action, and Mystical Experience.”
This paper explores the mystical thought of St. Bernard of Clairvaux (d. 1153) and his understanding of how mystical experience reorders the practice of contemplation and compels it to take action.
Presented By: Jordan Lueras
Faculty Sponsor: Michael Cameron

Shiley School of Engineering
Computer Science
Shiley Hall 301

“Cryptographic Git.”
This software adds authentication functionality to Git, an open source version control system. The addition allows developers to sign and verify each change made to the source code. This allows developers to guarantee source code to be authentic and from a trusted source.
Presented By: Dustin Dalen, Vince Clasgens, Samuel Chase, and David Garcia
Faculty Sponsor: Tanya Crenshaw and Joseph Hendrix

Shiley School of Engineering
Mechanical Engineering
Shiley Hall 319

“Advise UP Mark II.”
This is the second iteration of a web-based scheduling application intended to aid the student advising process at UP. This new version incorporates real data from University databases and is accessible by all students and faculty.
Presented By: Kekai Ariola, Eric Bergquist, and Megan Yamamoto
Faculty Sponsor: Briane Toole (UP), Sam Burich (Concordia University), Kenneth Lulay, and Tamara VanDeGrift

“Motion Study Design SAM Medical Pelvic Sling Buckle Modification.”
A redesigned buckle for the SAM Medical pelvic sling. We focused on improving buckle performance and removing undesired noise during operation. Special thanks to Chris Seigneur at Blount for parts and support.
Presented By: Nolan Brophy, Aaron Lundquist, Brian Lux, and Matthew Malone
Faculty Sponsor: Lance Hopman (SAM Medical), Lane Johnson (SAM Medical), Deborah Munro, and Kenneth Lulay

“Mechanical Heart Pumping System.”
A mechanical heart system operated by LabVIEW to control two diaphragm pumps. The device simulates the pressure and frequency of a normal heart and those observed during heart problems, such as high blood pressure, thrombosis, and heart arrhythmia.
Presented By: Christine Braun, Sean Doohan, and Anne Rodewald
Faculty Sponsor: Rich Vaughn (Army Corps of Engineers) and Dakshina Murty
SESSION III  2:15 - 3:05 P.M.

Shiley School of Engineering  
Mechanical Engineering  
Shiley Hall 319  

“Sound-Altering Acoustic Wall.”

The team has constructed acoustic wall panels that reflect a range of desirable frequencies to an audience. Along with this wall is an electro-acoustic element that produces reverberations that happen naturally in an ideal environment. Both portions of this project are idealized for a single acoustic guitarist.

Presented By: Et Begert, Ryan Lee, Chae Maples, and Joel Nightingale
Faculty Sponsor: Tobin Cooley, Kerrie Standlee, Joseph Hoffbeck, Karen Ward, Ken Lulay, and Sig Lillevik

School of Nursing  
Buckley Center Auditorium

“An Assessment of School-Based Populations.”

Eight nursing students in the fall worked with Multnomah Education Service District in the Dedicated Education Unit at the elementary, middle, and high school settings assessing the impact of the school nurse in the promotion of children’s health and wellness. Advocacy recommendations were developed based on the school-age population health issues and an overview of the low socioeconomic status.

Presented By: Jenna Widle, Katie Seale, Ashley Wilson, Hillary Theriault, Sarah Carson, Emelia Gubrud, Emily Johnsen, and Anita Polyakov
Faculty Sponsor: Janet Banks

“India 2013.”

Our goal is to share experiences practicing as nurses internationally, highlighting key differences between stateside nursing and international nursing, demonstrating the necessity and importance of the SON program outcomes. We will also briefly discuss the student-facilitated research component focusing on women's empowerment and the suggested link between HIV prevalence and lack of empowerment.

Presented By: Jenessah Loughran, Whitney Raffle, Sarah Olson, and Emily Corrada
Faculty Sponsor: Janet Banks
SESSION IV  3:15 – 4:05 P.M.

**College of Arts and Sciences**
**Communication Studies**
Franz Hall 233

"Final Round of the University of Portland's Speech and Debate Union's 'Rowan Cup' Debate Tournament."

This panel is a part of the final round of the University of Portland's Inter-Squad Debate Tournament. This is the 2nd annual tournament named in honor of Father Rowan, former Dean of the College of Arts and Sciences, and friend to the Union.

Presented By: The Two Winners of the Previous Round
Faculty Sponsor: Brian Simmons and Bohn Lattin

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**College of Arts and Sciences**
**Political Science**
Franz Hall 223


Lee Allen and Andy Allen signed up with Neptune Underwater Expeditions to explore a shipwreck in the Atlantic Ocean. On July 7, 2011, Lee died during the dive. Andy, acting on behalf of spouse Lee, is suing the Neptune for Lee's wrongful death. Have you ever been on a jury? Now is your chance! Did Neptune Underwater Expeditions recklessly cause the death of Lee Allen? Join us and find out!

Presented By: Brenna Twohy, Hilary Simpson, Charity Taylor, Jordan Jones, Emma Englund, Susie Sprinson, Brendan Bewley, Calvin Tuhy, Nic Barradas, Eileen Kannengeiser, Lyndsey Tsuura, MacKenna Krohn, Emily Raszler, Emily Strand, Heather Gale-Shaffer, Elvia Gaonoa-Mandujano, Augustus Leveque-Eichhorn, Jennifer Perkins, and Amanda Danforth
Faculty Sponsor: Gary Lee Malecha

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**College of Arts and Sciences**
**Sociology**
Franz Hall 206

"The Effects of Masculinity on Self-Harm Engagement."

Sociology Senior Thesis. Using CDC data, this study explores and explains gender differences in self-harm engagement among Vermont high school students.

Presented By: Frank Deryck
Faculty Sponsor: Martin Monto

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**Pamplin School of Business**
**Franz Hall 214**

"The Jasmine Pearl Tea Merchants Business Strategy."

Identified growing business concerns and developed a feasible business strategy for a local tea company.

Presented By: Bridget Brown, Kacia Hicks, Sarah Porter, and Kasie Tanabe
Faculty Sponsor: Sam Holloway

"The UP Investment Association."

The UPIA will explain the purpose of their student-run club, their portfolio and investment strategy.

Presented By: Kuna I Madan and Jason Celino
Faculty Sponsor: Brian Adams

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**Shiley School of Engineering**
**Civil Engineering**
Shiley Hall 301

"Stormwater Treatment Design for the University of Portland."

Our team is analyzing the stormwater runoff from the University of Portland campus that discharges below the Bluff. We are designing a detention pond and a bioswale to treat the stormwater before it enters the Willamette River.

Presented By: Rylee Archuleta, Caitlin Fowler, Ian Fukuda, Oren Hironaka, and Stephen McWilliams
Faculty Sponsor: Ashley Cantlon and Mark Kennedy
SESSION IV  3:15 – 4:05 P.M.

<table>
<thead>
<tr>
<th>Shiley School of Engineering</th>
<th>Civil Engineering</th>
<th>Session: Belmont at SE 38th.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shiley Hall 301</td>
<td></td>
<td>The team was given a three story mixed use building to design. We decided to work on the structural systems of the building at the beginning. The building has four main systems to design: the two upper stories of wood, the steel supports and concrete masonry units of the first floor, and the geotechnical systems below.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Presented By: Derek Dominquez, Randy Kim, Alexandra Stroud, Catherine Sutherland, Evan Weston, Noa Yates, and James Yokoyama</td>
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<td></td>
<td></td>
<td>Faculty Sponsor: Ian Eikanas (LEED AP) and Mehmet Inan</td>
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</tbody>
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<thead>
<tr>
<th>Shiley School of Engineering</th>
<th>Electrical Engineering</th>
<th>Session: Windbelt Generator.</th>
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<tbody>
<tr>
<td>Shiley Hall 319</td>
<td></td>
<td>A device that uses wind energy to charge electronic devices.</td>
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<td>Presented By: Nicole Feliciano, John Figueira, Kyle Grotjohn, and Noor Husain</td>
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<td>Faculty Sponsor: Jennifer Miller (Intel) and Robert Albright</td>
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<thead>
<tr>
<th>Shiley School of Engineering</th>
<th>Session: Light Box.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical Engineering</td>
<td>A multicolored illumination device that is capable of producing any color on the RGB spectrum. Since the available light in any environment alters the characteristics of images taken, the LightBox can be used to normalize this and provide complete control of a light settings. This allows for new possibilities in both image analysis and white-balance correction research.</td>
</tr>
<tr>
<td>Shiley Hall 319</td>
<td>Presented By: Benjamin Co, Garrett Gustafson, Wendelin Mueller, and Julia Weimar-East</td>
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<tr>
<td></td>
<td>Faculty Sponsor: Andrew McConnel (Tripwire), Andrew Nuxoll, Tanya Crenshaw, and Kevin Cantrell</td>
</tr>
</tbody>
</table>
### POSTER PRESENTATIONS  10:15 A.M. – 11:05 P.M.

| College of Arts and Sciences Biology  
<table>
<thead>
<tr>
<th>Faculty Sponsor: Elinor Sullivan</th>
<th>Franz Hall Lobby</th>
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</thead>
<tbody>
<tr>
<td>&quot;Up for Fitness Pilot Study: Baseline Data Collection and the Effects of Peer-Mentoring on Attitudes and Knowledge towards Physical Activity in Third-Grade Students.&quot;</td>
<td></td>
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<tr>
<td>Presented By: Brenna Wetsch and Kate Bostwick</td>
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</tbody>
</table>

| College of Arts and Sciences Chemistry  
<table>
<thead>
<tr>
<th>Faculty Sponsor: Edward J. Valente</th>
<th>Buckley Center Lobby</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;The Effect of Temperature on the Coalescence of Protons on Two Different Pseudo-Acids.&quot;</td>
<td></td>
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<tr>
<td>Presented By: Ashlin Sturbaum and Lulu Tang</td>
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</tbody>
</table>

| College of Arts and Sciences Chemistry  
<table>
<thead>
<tr>
<th>Faculty Sponsor: Eugenijus Urnezius</th>
<th>Franz Hall Lobby</th>
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<tbody>
<tr>
<td>&quot;Raman Spectroscopy of Carbon Tetrachloride.&quot;</td>
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<tr>
<td>Presented By: George Brockett and David Carruth</td>
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</tbody>
</table>

| College of Arts and Sciences Chemistry  
<table>
<thead>
<tr>
<th>Faculty Sponsor: Ronda S. Bard</th>
<th>Buckley Center Lobby</th>
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</thead>
<tbody>
<tr>
<td>&quot;Fourier-Transform Infrared Spectroscopy of HCl and DCl.&quot;</td>
<td></td>
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<tr>
<td>Presented By: James Gaynor and Sean Kelly</td>
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</tbody>
</table>

| College of Arts and Sciences Chemistry  
<table>
<thead>
<tr>
<th>Faculty Sponsor: Steven G. Mayer</th>
<th>Buckley Center Lobby</th>
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</thead>
<tbody>
<tr>
<td>&quot;Fluorescence and Phosphorescence of Acridine Yellow.&quot;</td>
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<tr>
<td>Presented By: John Le and Andi Liou</td>
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</tbody>
</table>

| College of Arts and Sciences Chemistry  
| Faculty Sponsor: Celia Gendron-Herndon, Michael Paton, Carolyn Virca, Ryan Walke, and Julia Balistreri |
|-----------------------------------|-----------------|
| "Investigation of Bimetallic Cobalt(II) Complexes in Inorganic Chemistry Lab (CHM473)." |
| Presented By: Celia Gendron-Herndon, Michael Paton, Carolyn Virca, Ryan Walke, and Julia Balistreri |

| College of Arts and Sciences Chemistry  
<table>
<thead>
<tr>
<th>Faculty Sponsor: Jordan Albrich</th>
<th>Buckley Center Lobby</th>
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</thead>
<tbody>
<tr>
<td>&quot;Bromination of Alkenes via Polymer-Supported Hypervalent Iodine Reagents.&quot;</td>
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<tr>
<td>Presented By: Jordan Albrich</td>
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</tbody>
</table>

| College of Arts and Sciences Chemistry  
| Faculty Sponsor: Corinne Hester and Maggie Judd |
|-----------------------------------|-----------------|
| "The Anharmonic and Isotopic Effects of HCl and DCl." |
| Presented By: Mary Fennimore and Tanner Haistings |

| College of Arts and Sciences Chemistry  
| Faculty Sponsor: Corinne Hester and Maggie Judd |
|-----------------------------------|-----------------|
| "The Vibrational Raman Spectrum of CCl4." |
| Presented By: Corinne Hester and Maggie Judd |

| College of Arts and Sciences Chemistry  
| Faculty Sponsor: Chloe Nguyen and Kaitlyn Schultz |
|-----------------------------------|-----------------|
| "Dynamic Nuclear Resonance Spectroscopy of Cooper's Pseudoacid at Various Temperatures." |
| Presented By: Chloe Nguyen and Kaitlyn Schultz |
POSTER PRESENTATIONS  10:15 A.M. – 11:05 P.M.

College of Arts and Sciences
Chemistry
Faculty Sponsor: Steven G. Mayer
Buckley Center Lobby

“Exploring the Fine Structure of R2 Utilizing UV-Visible Spectroscopy.”
Presented By: Nick Pettit and Megan Schladetsch

“UV-Visible Absorption Spectroscopy of Cyanine Dyes.”
Presented By: Emily Charbonneau and Chris Bates

College of Arts and Sciences
Psychology
Faculty Sponsor: Deana Julka
Franz Hall Lobby

“Power of Suggestability.”
Presented By: Rick Baleros, Monica Dangeti, and Joe Thomas

“Individual Subjective Attraction and Psycho-Physiological Responses.”
Presented By: Shelby Lies, Kelsey Varce, and Brittany Balajadra

“Does Divorce have a Negative Impact on Children?”
Presented By: Sara Moller, Martina Hagan, and Kelly Brandenburg

“Differences in Gender Views of the Mentally Ill and Possible Implications.”
Presented By: Desiree Wiercyski, Katelyn Freund, and Krysten Kawamata

“Childhood Obesity: Proposed Solutions.”
Presented By: Hannan Conlon

“What Breed of Anxiety Are You?”
Presented By: Anna Carey and Brizzett Aguilar

“A Comparative Study of Dietary & Exercise Habits of Student Athletes and Non-Athletes.”
Presented By: Jackson Martin

“Does Parenthood Reduce Emotional Well-Being?”
Presented By: Tammy Truijens and Monica Harvey

“Would You Turn Around?: An Extension of Asch’s Conformity Experiment.”
Presented By: Briana Wolfard and Kaila Carmeli

“Is Divorce Always Damaging?: The Long-Term Effects on Children of Divorced Parents.”
Presented By: Hannah Hoffarth and Bryce Driscoll

“The Effects of Proficiency-Based Grading on Levels of Self-Efficacy.”
Presented By: Makena Collin, Maya Nieto, and Kristina Palmer

“Exploring the Dichotomy of Parenthood.”
Presented By: Adam Harnden and Carrie Miller

“Color and Memory.”
Presented By: Katie Semas, Erin O’Doherty, and JoAnna Langberg

School of Education
Faculty Sponsor: Patricia Morrell
and Hillary Merk
Franz Hall Lobby

“The School, Class, and Community: How do These Impact our Instruction?”
Presented By: Cady L Anderson, Emmanuel Aquino, Ariel Billings, Edgar M Brambila-Perez, Andrew C Carroll, Patrick D Chapman, Cynthia Oceguera, Elizabeth Camp, Emily Hart, Emily Lockett, Kristopher L Good, Andrew R Gustav, Hannah Fink, Alisha Ann N Horikami, Torri A Ishihara, Jacelyn In melee, Jessica Dodge, Ka’ili Moku Paiva, Krystal Nguyen, Christine E. May, Mei Kaminaga, Michaela Mirsky, Nicole Fleury, Olivia Boyd, Sarah Cundiff, Amber Siri, Cameron Sparks, Brenna Stacy, Katherine Thompson, Molly Tuinstra, and Sophia Vanwyk
<table>
<thead>
<tr>
<th>College of Arts and Sciences</th>
<th>&quot;Impact of Maternal High-Fat Diet Consumption on Maternal and Offspring Behavior.&quot;</th>
<th>Presented By: Michelle Woo and Laura Woo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>&quot;Extraction of Taxol and Other Compounds from a Penicillium Species under Varying Conditions.&quot;</td>
<td>Presented By: Anthony Nguyen, Nina Tran, and Mindy Nguyen</td>
</tr>
<tr>
<td>Franz Hall Lobby</td>
<td>&quot;Organic Acid Production by the Genetically-Altered Cyanobacterium Strain Synechocystis sp. PCC 6803 delta glgC.&quot;</td>
<td>Presented By: David Carruth</td>
</tr>
<tr>
<td>College of Arts and Sciences</td>
<td>&quot;Costume Design for 'The Maids.'&quot;</td>
<td>Presented By: Kristen Gates</td>
</tr>
<tr>
<td>College of Arts and Sciences</td>
<td>&quot;Eat a Rainbow.&quot;</td>
<td>Presented By: Cameron Adams, Lesa Benton, Veronica Jansen, Kaitlin McCreery, and Roxanne Fontanilla</td>
</tr>
<tr>
<td>Performing and Fine Arts</td>
<td>&quot;It is Important to Brush your Teeth! (Dental Health for First Graders.)&quot;</td>
<td>Presented By: Jenna Widle and Katie Seale</td>
</tr>
<tr>
<td>Faculty Sponsor: Gregory Pulver</td>
<td>&quot;Program Development for Pregnant Teens.&quot;</td>
<td>Presented By: Shawna Walton</td>
</tr>
<tr>
<td>Franz Hall Lobby</td>
<td>&quot;Therapeutic Hypothermia.&quot;</td>
<td>Presented By: Carrie Jackson, Carl Valentine, Stacy Hopkins, and Rebecca Hartman</td>
</tr>
<tr>
<td>School of Nursing</td>
<td>&quot;A Sojourn in India: Nursing Students' Experience Abroad.&quot;</td>
<td>Presented By: Emily Corrada, Julia Evans, Hanna Crosby, McKinna Little, Rosemary Moore, Ellen Maier, and Jenna Widle</td>
</tr>
<tr>
<td>Faculty Sponsor: Janet Banks</td>
<td>&quot;Different Dimensions of Poverty: From a Sophomore Perspective.&quot;</td>
<td>Presented By: Jen Erpelding, Stacy Hopkins, and Brianna Rodrigues</td>
</tr>
<tr>
<td>Franz Hall Lobby</td>
<td>&quot;India 2013.&quot;</td>
<td>Presented By: Jenessah Loughran, Melissa Coffaro, Jessica Eldridge, Jessica Colburn, and Hanna Crosby</td>
</tr>
<tr>
<td></td>
<td>&quot;Looking at 2nd World Health Care: Vietnam.&quot;</td>
<td>Presented By: Kate McConaughy and Alexa Roy</td>
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<td>&quot;School Nursing Roles.&quot;</td>
<td>Presented By: Roxanne Fontanilla, Carrie Jackson, Rita Stai, Olivia Wheaton, Susanna Sorokina, and Molly Brown</td>
</tr>
</tbody>
</table>
POSTER PRESENTATIONS 2:15 P.M. – 3:05 P.M.

College of Arts and Sciences Biology
Faculty Sponsor: Elinor Sullivan
Franz Hall Lobby

College of Arts and Sciences International Language and Cultures
Faculty Sponsor: Laura McLary
Franz Hall Lobby

College of Arts and Sciences Physics
Faculty Sponsor: Maximilian Schlosshauer
Franz Hall Lobby

Shiley School of Engineering Civil Engineering
Faculty Sponsor: Mark Kennedy and Randell Harrison
Shiley Hall Lobby

Shiley School of Engineering Civil Engineering
Faculty Sponsor: Matthew Kuhn, Jennifer Eggers, and James Newell (Degenkolb)
Shiley Hall Lobby

Shiley School of Engineering Civil Engineering
Faculty Sponsor: James Male, Heather Dillon, Mojtaba Takallou, Matt Johnson (KPFF), Norm Faris (KPFF), and Mark Brune (PAE)
Shiley Hall Lobby

Shiley School of Engineering Mechanical Engineering
Faculty Sponsor: Dakshina Murty, Dan Patla (Army Corps of Engineers), and Cathy Campbell (Army Corps of Engineers)
Shiley Hall Lobby

"Impact of a High-Fat Diet on Maternal and Infant Behavior."
Presented By: Juliet Keating

"Demonstrating Cultural Proficiency of German-Speaking Countries."
Presented By: Martina Hagan

"The Quantum Eraser: Now You See It, Now You Don’t."
Presented By: Walter Malone and Anna Wetterer

"Stormwater Management Plan for Guadalupe Carney, Honduras."
Presented By: Kristian McCombs, Olivia McCracken, Dustin Sauer, Colin Sherrill, and Andrew Takahashi

"Recreation Center."
Presented By: Brett Cates, Moussa Gloyd, Preston Longoni, Zach Marsh, Caleb Patterson, Devon Sullivan, and Trevor Webber

"Sustainability Retrofit of a Residential Building."
Presented By: David Borok, Daniel Cebula, Will Dowsing, Molly Klier, Nathan McCarty, Mike Smolkowski, and Ben Ullmann

"Inertial Kinetic Energy Recovery."
Presented By: Joseph Fournier, Daniel Huber, and Cesar Villegas
POSTER PRESENTATIONS  2:15 P.M. – 3:05 P.M.

Shiley School of Engineering
Mechanical Engineering
Faculty Sponsor: Deborah Munro
Shiley Hall Lobby

Shiley School of Engineering
Mechanical Engineering
Faculty Sponsor: Heather Dillon
Shiley Hall Lobby

Shiley School of Engineering
Mechanical Engineering
Faculty Sponsor: Heather Dillon and Michael Poplawski
Shiley Hall Lobby

Shiley School of Engineering
Mechanical Engineering
Faculty Sponsor: Kenneth Lu lay and Rian Johnson (Van's Aircraft)
Shiley Hall Lobby

Shiley School of Engineering
Mechanical Engineering
Faculty Sponsor: Dakshina Murty and Rich Vaughn (Army Corps of Engineers)
Shiley Hall Lobby

Shiley School of Engineering
Mechanical Engineering
Faculty Sponsor: Timothy Doughty and Dallas Lund (Nike)
Shiley Hall Lobby

"Finite Element Model of Lumbar Spine."
Presented By: Aaron Ferris

"Controlled Atmosphere Storage for Fresh Produce."
Presented By: Gabe Martin and Chris Roberts

"Lighting Test Chamber."
Presented By: Abdullah Alajmi and Mohammed Aljaishi

"SAE Autonomous Aircraft."
Presented By: Kyle Bowman, Rachel Carrillo, Steve Carter, and Allie Rackerby

"Vehicular Air Filter Metering Device."
Presented By: Kyle Bushue and Ben Kramer

"Wave Energy Demonstration for Evergreen Museum."
Presented By: Evan Castro and Kaitlyn Stewart