SCHEDULE OF EVENTS
UNIVERSITY OF PORTLAND FOUNDERS’ DAY
TUESDAY, APRIL 8, 2014
Founders' Day is when the University of Portland pauses to celebrate its rich past and its promising future: the past as we honor the bold leaders — Archbishop Alexander Christie and Father John Zahm — who dared to dream of a Catholic university overlooking the Willamette River; the future as we learn from our most outstanding students whose research as undergraduates portends great things for the future. In recognition of the importance of both the past and the future, the University holds no classes on a Tuesday in April and instead opens its doors to all to learn from our best and brightest students.

Founders' Day was first celebrated in the spring of 1902 following the completion of the first academic year in recognition of Archbishop Christie and Fr. Zahm's vision and determination. It quickly became a tradition. Archbishop Christie would ride his horse, Dandy, to campus from Portland each spring in order to give a lecture to the young men composing the student body. And then based on his authority as the Archbishop, he would cancel classes for the remainder of the day. With his death in 1925, the tradition also ended.

Founders' Day was revitalized in 2001 as a part of the University's centennial celebration. It has continued to grow since then and now is kicked off with an awards breakfast for graduating seniors, followed by senior presentations, undergraduate research, panel discussions, recitals, and the Scholarship Luncheon, where students who receive financial aid from scholarships meet the benefactors whose generosity has helped them attend the University. Classes scheduled to begin after 4 p.m. meet at their regularly scheduled times.
FOUNDERS’ DAY 2014

Presentations

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Session III 2:15-3:05 p.m.  Page 13
Session IV 3:15-4:05 p.m.  Page 17

Poster Sessions

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

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SESSION I  10:15 - 11:05 A.M.

College of Arts and Sciences
Biology
Franz Hall 223

"Consequence of a high fat diet on maternal behavior in Japanese Macaques."
This study examines the effects of high fat maternal diet and maternal obesity on mother and infant behaviors. Japanese macaques were assigned either a high fat or control diet. I will be presenting the changes in maternal-infant interactions as well as the individual behaviors of both mothers and infants as a result of high fat diet consumption.
Presented By: Katy Stevens
Faculty Sponsor: Elinor Sullivan

"The Effects of a Maternal High-Fat Diet on Juvenile Offspring Social Interactions."
A non-human primate model was used to study the effects of maternal high-fat diet consumption on offspring development. Human studies indicate that maternal obesity during gestation increases the risk of many behavioral abnormalities. In this study, juveniles from a mother consuming a diet high in fat diet show decreased affiliation, impaired social contact, and increased aggression.
Presented By: Rachel Lockard
Faculty Sponsor: Elinor Sullivan

College of Arts and Sciences
English
Buckley Center 206

"Tooth and Amber: Essays."
Presented By: Alexander Foy
Faculty Sponsor: Rev. Pat Hannon, C.S.C.

"A Working Title: Poems."
Presented By: Kate Peifer
Faculty Sponsor: Herman Asarnow

"The Bad Element and other Stories of an A.B.C."
Presented By: Jeffrey Kuang
Faculty Sponsor: John McDonald

College of Arts and Sciences
International Language and Cultures
Franz Hall 206

"Critical Engagement with Topics in German Studies."
Students completing a senior thesis in German Studies will present their work in English. Topics include the image of stepmothers in literature, the question of love and marriage in the poetry and letters of Karoline von Günderrode, and the depiction of the sea in German Romanticism and its legacy today.
Presented By: Chris DeLap, Cerice Keller, and Rebecca Larrabee
Faculty Sponsor: Laura McLary and Alexandra Hill

College of Arts and Sciences
Philosophy
Franz Hall 214

"Partial Exculpation for Criminogenic Circumstances."
Can conditions such as poverty legitimately count toward mitigating criminal responsibility? Despite its differences from other excusing conditions such as insanity, I use arguments from Stephen Morse and Ronald Dworkin to show that that poverty ought to mitigate criminal responsibility.
Presented By: Philippe Boutros
Faculty Sponsor: Jeff Gauthier

"Heidegger and Asian Philosophy."
A comparative analysis of some of (1) the motifs shared by the philosophy of Martin Heidegger and Taoism/Buddhism, Zen, etc. and (2) the differences among these approaches.
Presented By: Emma Irwin
Faculty Sponsor: Richard Askay
SESSION I 10:15 - 11:05 A.M.

College of Arts and Sciences
Political Science
Buckley Center 207

“Student Research in Political Science and Related Fields: Participants in the 2014 Human Development Conference at Notre Dame Share Research and Experiences.”
Presented By: Sam Schelfhout, J. Francis O’Halloran, and Aurora Myers
Faculty Sponsor: Anne Santiago

College of Arts and Sciences
Political Science
Buckley Center 209

“The University of Portland Mock Trial Team presents the murder trial of The State of Midlands v. Whit Bowman.”
On August 30, 2012 a robbery occurred at the theme park RacheterWorld in Midlands. Following the robbery a chase ensued, and security guard Winston Thomas was struck and killed by the “Tunnel of Terror” ride. Whit Bowman, the operator of the ride, will be tried for murder. Join us as Whit Bowman is tried for this alleged crime. Guilty or Not Guilty? You are the Jury!
Faculty Sponsor: Aaron Johnson

College of Arts and Sciences
Psychology
Franz Hall 034

“Modulating the Integration of Co-Expressive Speech and Gesture Signals.”
A presentation of research from a psychology senior thesis.
Presented By: Brett Bankson
Faculty Sponsor: Susan Baillet

“Relationships between Schizotypy, Divergent Thinking and Sternberg’s Theory of Mental Self-Government.”
A presentation of research from a psychology senior thesis.
Presented By: Scott Fauble
Faculty Sponsor: Susan Baillet

“Can’t Buy Me Love: A History and Theoretical Analysis of Sex Work and Those Who Consume.”
This presentation will examine historical and contemporary prostitution in the United States. A theoretical analysis will explore interventions at the micro and macro levels for women in the sex industry, men who solicit, and society as a whole. Recommendations will be presented for professionals working with sex workers and consumers.
Presented By: Victoria Rosas, Kaitlyn Schuh, and Maria Whearty
Faculty Sponsor: Kevin Jones
SESSION I  10:15 - 11:05 A.M.

<table>
<thead>
<tr>
<th>College of Arts and Sciences</th>
<th>“Improving Foster Care Services: Attachment and Ecological Perspectives.” This presentation introduces the history and development of the foster care system in the U.S., with a focus on factors related to foster care involvement. Attachment theory and ecological systems theory are used to analyze current foster care services, and recommendations for improving the foster care system are discussed. Presented By: Danielle Crain, Neidi Poole, Stacey Vangkhang, and Elisha Codding Faculty Sponsor: Kevin Jones</th>
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<tr>
<td>College of Arts and Sciences</td>
<td>“Encountering Eros.” The use of erotic language to articulate the human relationship with God is deeply embedded in the Judeo-Christian spiritual tradition. This presentation will explore how erotic language describes the experience of belonging and love in Graham Greene’s &quot;End of the Affair&quot; and Teresa of Avila’s autobiography. Presented By: Jessica Kast Faculty Sponsor: Rev. Jeffrey Cooper, C.S.C. and Rev. Charlie Gordon, C.S.C.</td>
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<td>Sociology Franz Hall 026</td>
<td>“Oscar Romero and Ignatian Spirituality: An Ethical Model for the Modern Catholic.” Archbishop Oscar Romero’s life is an example of the intersection between Catholic Tradition, Liberation Theology, and Ignatian Spirituality which bears fruit in ethical practices that honor the historical reality of the church and the presence of Christ in the poor and victimized of El Salvador. Presented By: Anthony Bedoy Faculty Sponsor: Rene Sanchez and Rev. Jeffrey Cooper, C.S.C.</td>
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<td>College of Arts and Sciences</td>
<td>“National Champions of the American Institute of Certified Public Accountants Accounting Competition.” University of Portland accounting students took first place in the national American Institute of Certified Public Accountants Case Competition. The case required analysis and recommendations, including financial, estate, and charitable planning, for the life cycle of an entrepreneur. The students will discuss the components of the semester-long competition and present their winning presentation. Presented By: Tyler Desmarais, Martin McMahon, Ingrid Nelson, and Michelle Siegal Faculty Sponsor: Ellen Lippman</td>
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<td>Theology Franz Hall 006</td>
<td>“KPMG Case Competition - Boeing and the Dreamliner.” The University of Portland competed in the KPMG Case Competition in Seattle. Students were given three hours to analyze the financial reporting ramifications from the delays in the production of the Dreamliner. Students will discuss the process of preparing for the competition and then present their analysis that placed them second in the competition. Presented By: Lane Ryan, Ryan Gillespie, Michelle Siegal, and Ingrid Nelson Faculty Sponsor: Ellen Lippman</td>
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<td>Pamplin School of Business</td>
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<td>Franz Hall 231</td>
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SESSION I 10:15 - 11:05 A.M.

Pamplin School of Business  
Franz Hall 231  
“BUS 400 — Capstone Service Project: Strategic Consulting for St. Andrew Nativity School.”  
As part of our University’s commitment to service, BUS 400 senior capstone students engaged with Portland non-profits to offer strategic consulting services. St. Andrew Nativity School received a total of 80 hours of student guidance in their fund raising, corporate outreach and donor development programs.  
Presented By: Ryan Gillespie, Morgan Pesut, Melanie Pesut, Keaton Beyer, and Michelle Siegal  
Faculty Sponsor: Sam Holloway

School of Education  
Buckley Center 310  
“Bridging the Gap: From Student to Teacher.”  
This panel presentation explores how a student becomes a teacher through designing, implementing, and reflecting on a work sample project. Individuals’ experiences are examined as illustrations of this process of professional growth.  
Presented By: Kristi Convissor, Nicholas Herb, Joel Lara, Elizabeth Lancaster, and Courtney Salisbury  
Faculty Sponsor: Hillary Gaudio

Shiley School of Engineering  
Computer Science  
Shiley Hall 124  
“Eternity Engine.”  
The Eternity Engine is a flash game that incorporates parts of two popular game genres.  
Presented By: Aaron Dobbe, Preben Ingvaldsen, Robert Stiles, and Stanislav Peck  
Faculty Sponsor: Andrew Nuxoll and Northon Rodrigues (Sage)

Shiley School of Engineering  
Civil Engineering  
Shiley Hall 319  
“Water System Improvement for Two Native American Communities in Arizona.”  
Hydraulic models for two community water systems within the Tohono-O’odham Nation in Southwest Arizona were calibrated with field data gathered by students during the fall semester. The calibrated models were used to design an inter-tie between the two water systems to improve operational efficiency.  
Presented By: Matthew Chastain, Emily Eichner, Kathryn Husk, Courtney Langer, Charles Newman, Michael Tarbert, Chelsea Trotter, and Meghan Veregge  
Faculty Sponsor: Mark Kennedy and Cheri Windt (Indian Health Services)

Shiley School of Engineering  
Electrical Engineering  
Shiley Hall 101  
“Frequency Beats.”  
Frequency Beats is an audio visualizer that utilizes electromagnets to manipulate ferro-fluid, a fluid that reacts to magnetic fields to represent the magnitude of low, mid and high frequencies in an audio signal.  
Presented By: Alex Arlint, Jake Nylund, Kevin Ratuiste, and Robert Rodriguez  
Faculty Sponsor: Joe Hoffbeck and John Turner (Impinj)

“Sun-Tracking Solar Array.”  
Team Peacock has designed and constructed a solar array that can track a light source or the sun. The ability to track a light source was the primary purpose, since the device will be used as a teaching tool. The basic design of this project consists of a small solar panel that is mounted on a rack system, which can self-adjust three dimensionally using two servo motors.  
Presented By: Caitlin Greeney, Elise King, Beverly Raposa, and Julius Raposa  
Faculty Sponsor: Zia Yamayee, Robert Albright, and Jeff Cook (BPA)
SESSION I 10:15 - 11:05 A.M.

Shiley School of Engineering
Mechanical Engineering
Shiley Hall 123

“Aortic Aneurysm Flow Visualization.”
The question behind this project is “How does blood flow through an abdominal aortic
aneurysm?” This project involved designing and building a test setup to study fluid flow
through a clear test section using small visualization particulates and high speed pho-
tography. The team created a simple circuit using PVC pipes, 12V ShurFlo RV Water pump
and ample lighting of the test area.
Presented By: Jimmy Anderson and Brenden Klennert
Faculty Sponsor: Deborah Munro, Theresa Hailey (Boeing), and Lindie Burgess (UP Moreau Center)

“Parkinson’s Disease Assistive Drinking Cup.”
More than 5 million people in the US suffer from Essential Tremors. The most commonly
associated illness is Parkinson’s Disease. Our team developed a device that measurably
reduces and in some cases eliminates the tremors while drinking from a cup.
Presented By: Mikah Bacon, Matt Brown, Caroline Pisani, Audre Ramey, Jordan Schiemer,
and Ann Truong
Faculty Sponsor: Timothy Doughty and Joe Broderick (Intel)

Shiley School of Engineering
Mechanical Engineering
Shiley Hall 301

“Team MEKies.”
This project is to create an interactive training tool for lower arm prosthesis using an RC
car.
Presented By: Megan Gosselin, Kent Nowak, and Emma Stager
Faculty Sponsor: Deborah Munro, V Murty, and MacJulian Lang (Advanced Arm Dynamics)

School of Nursing
Buckley Center Auditorium

“Advocacy Through Political Action.”
Advocacy is an important aspect of nursing that extends beyond the bedside. Engaging
in policy reform and political action is necessary to ensure continued meaningful
change within the healthcare system. Such activism, through organizations such as
AACN, can improve quality and access to care, address healthcare costs, and strengthen
nursing’s voice in healthcare reform.
Presented By: John Adamson, Mathilde Christophersen, Christy McCall, Francis Moore,
and Jason Tuttle
Faculty Sponsor: Joanne Warner

“Community-based Partnership in a Local Residential Care Facility: Developing a
Sustainable Process for the Revision and Implementation of an Emergency Action
Plan.”
Through a community-based partnership with a local residential care facility, a sustain-
able process was developed to assist with review and revision of its Emergency Action
Plan to meet the compliance requirements of the Oregon and Multnomah County
Aging and People with Disabilities Regulations. The plan is easily adaptable for compara-
ble facilities that must meet similar compliance requirements.
Presented By: Elizabeth Robinson
Faculty Sponsor: Barbara Braband
SESSION II 11:15 A.M. - 12:05 P.M.

**College of Arts and Sciences**

**Biology**
Buckley Center 206

"The effects of autotomy and regeneration on locomotion in purple shore crabs (Hemigrapsus nudus)."
Crabs are unique in that they can regenerate legs lost to predators or fouled molting events. We explored the fitness costs and benefits of these processes in the realm of locomotion. Our work aims to elucidate how the tradeoffs associated with autotomy and regeneration can explain the evolution of regenerative tendencies in the animal kingdom. Presentation will last 25 minutes.
Presented By: Tai White-Toney and Katie Bates
Faculty Sponsor: Tara Maginnis

**College of Arts and Sciences**

**English**
Buckley Center 307

"All Of Our Heroes Have Failed Us: Deconstructing the American Mythology of Superheroes via Moore's The Watchmen."
Presented By: Olivia Alsept-Ellis
Faculty Sponsor: Herman Asarnow

"From Big Brother to Big Scientist: The Effects of the Human Genome Project on Speculative Fiction."
Presented By: Leah Becker
Faculty Sponsor: Herman Asarnow

**College of Arts and Sciences**

**Environmental Science**
Franz Hall 231

The economic costs and benefits of increased coal transport as well as the permitting and policies are discussed to understand how they will shape the future of the Pacific Northwest. Topics such as job creation, state revenue, costs to local economies are explored, as are the political complexities and permitting issues as they relate to water, air, land, and transportation issues.
Presented By: Aimée Arvidson, Steven King, Sarah Letendre, Rachel Reddick, Walker Ross, Sarah Smith, Scott Whitman, and Melinda Wilson
Faculty Sponsor: Steve Kolmes and Russ Butkus

**College of Arts and Sciences**

**International Language and Cultures**
Franz Hall 223

"Doing Languages: Practices, Strategies and Planning."
Join three UP language learners as they present how they've gone about increasing their French, German and Spanish acquisition and applying what they've learned in different contexts. Learn about strategies and opportunities to expand your learning and use of foreign languages during and after your studies at UP.
Presented By: Brett Bankson, Karl Groneman, and Veronika Polyakov
Faculty Sponsor: Jeffrey White

**College of Arts and Sciences**

**Mathematics**
Franz Hall 206

"Come for the Sports, Stay for the Math."
The Ratings Percentage Index (RPI) is a ranking algorithm commonly used by high-school and collegiate sports leagues to rank teams. This discussion will focus on how the RPI is calculated, how it is flawed and what can be done to simplify or perhaps even improve it.
Presented By: Grayson Penfield
Faculty Sponsor: Chris Hallstrom
SESSION II 11:15 A.M. - 12:05 P.M.

College of Arts and Sciences
Mathematics
Franz Hall 206

"Another Reason Fibonacci Numbers are Weird."
The Fibonacci numbers are a well-known recurrence sequence, frequently showing up in surprising places. Using linear algebra, we will exhibit another reason that the Fibonacci numbers are weird: namely, every matrix filled with the Fibonacci numbers has rank two. From this starting point, we explore the more general case of what happens when a matrix is filled with a general recurrence sequence.
Presented By: Sebastian Bozlee
Faculty Sponsor: Valerie Peterson

College of Arts and Sciences
Performing and Fine Arts
Mago Hunt Recital Hall

"2014 Honors Recital."
Outstanding musicians from the Music Program perform on this showcase of their abilities.
Presented By: Lydia Blaine (voice), Rodrigo Gaspar-Barajas (voice), Emily Reynolds (violin), Katrina Welborn (voice), Kristin Wishon (flute), Ashley Woster (voice), and David Yee (saxophone)
Faculty Sponsor: Patrick Murphy

College of Arts and Sciences
Philosophy
Franz Hall 214

"Moral Self-Cultivation in Aristotle and Confucius."
An examination of the parallels and possible discontinuities between Aristotle's discussion of the process of habituation leading to virtue and the Confucian emphasis on the cultivation of the virtue of ren (human-heartedness) via li (ritual propriety).
Presented By: Anthony Nguyen
Faculty Sponsor: Andrew Eshleman

College of Arts and Sciences
Political Science
Buckley Center 207

"Virtue Ethics and Action Guidance."
An examination of the objection that Virtue Ethics is not sufficiently action-guiding.
Presented By: Thomas Bluth
Faculty Sponsor: Andrew Eshleman

"Teilhard de Chardin, SJ: Humanism and Evolution in Dialogue."
Teilhard de Chardin, SJ explored the evolutionary pattern of science along with a focus on the possibility of a development of consciousness in material reality. Teilhard's focus on human beings as the axis of evolutionary reality provides a unique lens to his understanding of the inter-relatedness of human diversity, cosmic unity, and a scientifically-based philosophical understanding of God.
Presented By: Anthony Bedoy
Faculty Sponsor: Michael Andrews

"The University of Portland Mock Trial Team presents the murder trial of The State of Midlands v. Whit Bowman."
On August 30, 2012 a robbery occurred at the theme park RacheterWorld in Midlands. Following the robbery a chase ensued, and security guard Winston Thomas was struck and killed by the "Tunnel of Terror" ride. Whit Bowman, the operator of the ride, will be tried for murder. Join us as Whit Bowman is tried for this alleged crime. Guilty or Not Guilty? You are the Jury!
Faculty Sponsor: Aaron Johnson
SESSION II  11:15 A.M. - 12:05 P.M.

College of Arts and Sciences
Psychology
Buckley Center 209

"Biological Predictors of Political Orientation."
A presentation of research from a psychology senior thesis.
Presented By: Megan McKittrick
Faculty Sponsor: Susan Baillet

"Workforce Attitudes Toward Vivitrol as a Medication Assisted Treatment for Opioid Addiction Disorder."
A presentation of research from a psychology senior thesis.
Presented By: Laura Andrich
Faculty Sponsor: Susan Baillet

"Rapamycin and the reconsolidation of drug-associated memories."
A presentation of research from a psychology senior thesis.
Presented By: Jesse Chiem
Faculty Sponsor: Susan Baillet

"The Effects of Yoga and Exercise on Stress."
A presentation of research from a psychology senior thesis.
Presented By: Darcy Gurley
Faculty Sponsor: Susan Baillet

College of Arts and Sciences
Social Work
Franz Hall 034

"Re-entry of Youth and Adult Inmates in the Portland Metro Area."
This presentation uses strengths-based and empowerment perspectives to explore re-entry services and programs in the Portland area for youth and adults who have been incarcerated.
Presented By: Sophie Anderson, Laura J. Andrich, and Kelly Riley
Faculty Sponsor: Kevin Jones

"Deinstitutionalization and Reinstitutionalization: Mental Health Care's Journey from Hospital to Prison."
The massive deinstitutionalization movement of the 1980s and 1990s had a major impact on our country's mental health care service provision. What has this shift in service provision looked like? Has it been effective? This presentation explores the shift from institutional mental health services to a community-based model to the new institution providing care: prisons.
Presented By: Corey Hubbard
Faculty Sponsor: Kevin Jones

"Mental Health Issues and Portland Adolescents."
Mental health disorders are a nationwide issue, with approximately 1 in 5 adolescents in the U.S. having a diagnosable mental health disorder. This presentation will address major mental health issues of adolescents in the Portland area, including a focus on risk factors, crisis intervention, and a review of service trends from homeless youth to high schools.
Presented By: Alexis Byrd, Amanda Ewing, and Jordan Mattson
Faculty Sponsor: Kevin Jones
SESSION II 11:15 A.M. - 12:05 P.M.

"Through the Eyes of the Other."
We will be looking into the gap between immigrant groups and their American-born children in terms of generation, culture, values, and goals to see the effects of this gap on the children's identity construction and their ability to assimilate into mainstream American society.
Presented By: Geleen Abenoja, Sharon Cortez, Christine Nguyen, and Estefany Ramos
Faculty Sponsor: Valerie Francisco-Menchavez

"Presence of Microaggressions at UP."
Our goal for this project is to examine the prevalence of microaggressions at the campus of University of Portland. We will interview UP students, primarily white, and ask them if they are aware of what microaggressions are and whether or not they occur on campus. We will also research and explain some of the studied effects of microaggressions on people of color.
Presented By: Melissa Aguilar, Kelley Mitchell, and Halle Sheehan
Faculty Sponsor: Valerie Francisco-Menchavez

"Colorblindness on UP campus."
In our video project we will be critically examining the paradigm of Colorblindness within social institutions, particularly the University of Portland, as a solution for remedying racial inequality. We will be conducting interviews with a sample of students, faculty, and administrators about Colorblindness and alternative solutions for fixing race relations.
Presented By: Kevin Bailey, Samuel Kingsbury, Emily Liger, Natasha McGlaun, and Anne Marie Rogers
Faculty Sponsor: Valerie Francisco-Menchavez

"Historical Production of Whiteness."
The topic of our presentation is the historical production of whiteness and how it has affected race relations in the U.S. The problem that we have observed through our interactions with other people and in the readings we have done for this class, is that people are unaware of how history has led to race relations, more specifically whiteness in the U.S.
Presented By: Jennifer Besaw, Lindsey Casian, and William Lawson
Faculty Sponsor: Valerie Francisco-Menchavez

"Diversity UP."
For this project, Diversity UP will be exploring the presence (or lack there of) of diversity on the University of Portland campus. We will be exploring this topic through the lens of institutional racism in the education system and its adverse effects on the student population's education experience.
Presented By: Adam Brizzolara, Aine Brooks, Colin Guzman, and Caameron Nakasone
Faculty Sponsor: Valerie Francisco-Menchavez

"Experiences of Whiteness."
Our goal is to create a short video that breaks down the definition of whiteness according to how people experience it. We'll be focusing on the UP campus, but will be drawing from external research to ground a series of interviews. By identifying whiteness and challenging its invisibility, we hope to bring awareness to how whiteness influences UP's racial climate.
Presented By: Tori Pinto, Melissa Hager, Monique Woodward, and Nastacia Voisin
Faculty Sponsor: Valerie Francisco-Menchavez
SESSION II  11:15 A.M. - 12:05 P.M.

College of Arts and Sciences
Theology
Franz Hall 026

“Hiraeth: Alice Thomas Ellis’ Mystical Itinerary of Descent.”
Spiritual itineraries commonly follow the traditional trajectory of ascent, but can also be used to outline descent. As a collected narrative voice, Alice Thomas Ellis’ breadth of writings reflect the development of her spiritual identity and together form a mystical itinerary of descent that directs her readers toward greater longing for life, death, and redemption.

Presented By: Nicole Simard

Pamplin School of Business
Buckley Center 310

“At Present we see distinctly, as in a mirror, but then face to face”: The Catholic Liturgy, Social Justice and the Normative Gaze.”

This presentation will examine the question of how does social justice fit into the celebration of the Catholic Mass. It explores how the four parts of the Catholic liturgy (the Mass), the Introductory Rite, the Liturgy of the Word, the Liturgy of the Eucharist, and the Closing Rite, call the faithful to social justice.

Presented By: Stephanie Petrie
Faculty Sponsor: George Gray and Rene Sanchez

School of Education
Franz Hall 006

“Student Work Sample: Development and Experience.”

All seniors in the School of Education develop two lengthy projects documenting their teaching practices and the impact these have on K-12 students. This panel presentation examines how each of the components of the work sample build knowledge about the theory and practice of teaching.

Presented By: Rebecca Beshoar, Aaron Horwath, Rachel McIntosh, and Christina Steiner
Faculty Sponsor: Julie Kalnin

Shiley School of Engineering
Civil Engineering
Shiley Hall 301

“Gravity Water Supply System for a Rural Honduran Community.”

A hydraulic model for the community of El Caulote, Honduras was developed with field data gathered during the summer of 2013 by Water for People personnel. The model was used to design a gravity flow system incorporating a small dam, settling basin, conduction line, storage tank and distribution system to deliver water to approximately 50 families.

Presented By: Trent Holden, Alice Queirolo, Julia Sheets, and Jose Zegarra
Faculty Sponsor: Mark Kennedy, Sergio Reyes (Water for People-Honduras), and Collin Sherrill (Water for People-Honduras)

“Improving Quality of Life: Assessing the Impact of Water Infrastructure Improvements in Rural Honduran Communities”

This presentation focused on understanding ways to both qualitatively and quantitatively assess quality of life as impacted by water infrastructure improvements, specifically in rural Honduran communities. Pre- and post-installation surveys were developed as a means to evaluate the effect a water infrastructure project has on its community.

Presented By: Julia Sheets
Faculty Sponsor: Mark Kennedy
“Persistence of Vision Globe.”
Team Klickitat has designed a “Persistence of Vision Globe” that demonstrates the persistence of vision effect by quickly spinning a circular array of LED's to map out a programmable image (or message) along the shell of a sphere. 
Presented By: Michael Burton, Rose Harber, Maldeep Kang, and Chris Scott
Faculty Sponsor: Peter Osterberg and Zubin Bagai (BPA)

“Shape Recognition.”
Blocks of a specific dimension and color are placed on a conveyor belt and pass under a camera. The shape of the top of a block is processed, and the number of each circle, square, or triangle that have been recognized are updated and displayed on a LCD screen. 
Presented By: Ross Hallauer, Hailee Kenney, Bethany Nemeth, and Kimberly Tabac
Faculty Sponsor: Peter Osterberg, Aziz Inan, and Walt Harrison (Industry Advisor)

“battLEDship.”
Modernized re-creation of the classic board game Battleship®, that is dynamic and visually stimulating. 
Presented By: Melody Kidd, Scott Matsuo, Kelly McFarlane, and Raphael Ramos
Faculty Sponsor: Wayne Lu and Paul Imel (Harland Financial Services)

“Magnetic Manipulator.”
A magnetic levitation device design to control the position of a small permanent magnet by use of an electromagnet of variable magnetic strength. Control is achieved by use of a Hall Effect sensor and an Arduino micro-controller. The device is designed to be used for demonstrations of magnetic field interactions and automatic control systems in physics and electrical engineering classes. 
Presented By: John Olennikov, Chad Perkins, Marley Rutkowski, and Ben Younce
Faculty Sponsor: Robert Albright, Mark Utlaut, and Andy McConnell (Tripwire)

“uMount.”
This project is to create an adjustable smartphone mount for motorcycle helmet, which allows the user to capture video. 
Presented By: Mohammed Marghelani and Patrick Tomassi
Faculty Sponsor: Khalid Khan and Kent Thompson (Industry Advisor)

“Automated Walker For Rehabilitation.”
The project aims to develop a tool that will assist in ambulatory rehabilitation. By integrating technology and autonomous motion into a common wheeled walker, a patient can develop more confidence moving on their own and less dependence on using a walker. 
Presented By: Peter Chamberlain, Nick Mackinnon, and Sean O’Rourke
Faculty Sponsor: Timothy Doughty and Daoud Chaaya (Daimler)

“Adjustable Rugby Wheelchair.”
The goal of this project was to design an adjustable wheelchair for the Portland Pounders wheelchair Rugby team. The adjustable chair is designed to aid in determining dimensions for the sizing of players' new chairs, as all new chairs are custom built, are very expensive, and are difficult to size correctly without trial-and-error. 
Presented By: Ben Bruns, Cody Fast, and Stephen Christensen
Faculty Sponsor: Khalid Khan, Dave Kammeyer (Sigma Design & Portland Pounders), and Gordon Johnson (Portland Pounders)
SESSION III  2:15 - 3:05 P.M.

Franz Center for Leadership, Entrepreneurship, and Innovation
Franz Hall 223

"Annual Founders Day Elevator Pitch." (Group 1)
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

Franz Center for Leadership, Entrepreneurship, and Innovation
Franz Hall 223

"Annual Founders Day Elevator Pitch." (Group 2)
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 231

"The Case of Comprehensive Immigration Reform: How Ideals and Interests Challenge Ethical Policies."
Presented By: Andrew Herzog
Faculty Sponsor: Lauretta Frederking

"An Ethics and Ethical Decision Making Casebook for Youth Mentoring Programs and Participants."
Presented By: Erika Standeven
Faculty Sponsor: Kevin Jones

"The Effect of Accounting on the Business of War: Ethical Considerations During the American Civil War and Implications for Today."
Presented By: Martin McMahon
Faculty Sponsor: Ellen Lippman

College of Arts and Sciences Chemistry
Franz Hall 214

"An analysis of Cordyceps militaris: Characterization and identification of biologically active extracts."
An organic extract of powdered Cordyceps militaris fungus was separated by silica gel flash chromatography using hexane, ethyl acetate and methanol. Fractions with biological activity were further purified so as to isolate and identify active components.
Presented By: Kristin Wishon
Faculty Sponsor: Sr. Angela Hoffman, O.S.B.

College of Arts and Sciences Communication Studies Buckley Center 206

"Communication Across Boundaries: Interdisciplinary Considerations of Social Media, Terrorism, Free Expression, and Cultural Exchanges."
This panel highlights the dynamic work of five Communication Studies majors who have examined a myriad of communication related phenomena; including the role of social media in friendships, how terrorism is depicted in the media in three countries, the role of free expression in prisoners' lives, and how homestay families hosting U.S. students abroad experience solidarity.
Presented By: Marit Tegelaar, Amanda Danforth, Tadeu Velloso, Michael Carbonell, and Richy Carillo
Faculty Sponsor: Vail Fletcher

College of Arts and Sciences English Buckley Center 209

"The Freedom of Captivity: Gender Roles and Social Hierarchy in Mary Rowlandson's Captivity Narrative."
Presented By: Rebecca Beshoar
Faculty Sponsor: John C. Orr

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SESSION III  2:15 - 3:05 P.M.

<table>
<thead>
<tr>
<th>College of Arts and Sciences</th>
<th>&quot;It's Complicated: Ralph Ellison and Toni Morrison's Relationship with Emotion in Racial Uplift.&quot;</th>
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</table>
| English                      | Presented By: Cerice Keller  
| Buckley Center 209           | Faculty Sponsor: Molly Hiro                                                                 |  |

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<tr>
<th>College of Arts and Sciences</th>
<th>&quot;I WANT MY MOM!: A Critical Exploration of Motherhood in Dystopian Classics Brave New World and The Handmaid's Tale.&quot;</th>
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</table>
| Environmental Science        | Presented By: Hannah Robinson  
| Buckley Center 207           | Faculty Sponsor: Genevieve Brassard                                                             |  |

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<thead>
<tr>
<th>College of Arts and Sciences</th>
<th>&quot;The Crux of Coal: A Human Health and Ethical Analysis in the Pacific Northwest.&quot;</th>
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</table>
| Environmental Science        | Proposed coal exports throughout the Pacific Northwest pose significant health risks to local ecosystems. This analysis will explore the internal and external health effects to present and future generations. The ethical analysis of the coal crisis necessitates an examination of ecological, human and tribal rights. Justice and stewardship play a critical role in support of the common good.  
| Buckley Center 207           | Presented By: Caitlin Allawatt, Kay Bodmer, Clifton Campbell, Chris DeLap, John McDonagh, Chelsea Reimer, Cody Sharrer, Alyssa Thornburg, and Madelyn Voelker  
|                             | Faculty Sponsor: Steve Kolmes and Russ Butkus                                                      |  |

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<tr>
<th>College of Arts and Sciences</th>
<th>&quot;Socrates on Akrasia in the Protagoras.&quot;</th>
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| Philosophy                   | Presented By: Justin Barrieault  
| Franz Hall 034               | Faculty Sponsor: Alejandro Santana                                                               |  |

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<tr>
<th>College of Arts and Sciences</th>
<th>&quot;Majority Opinion and the Craft Analogy in the Crito.&quot;</th>
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| Political Science            | Presented By: Chelsea Welborn  
| Franz Hall 006               | Faculty Sponsor: Alejandro Santana                                                               |  |

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<tr>
<th>College of Arts and Sciences</th>
<th>&quot;The Situationist Challenge to Virtue Ethics.&quot;</th>
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</table>
| Physics                      | An examination of a challenge to Virtue Ethics based on work in social psychology, work which some argue demonstrates that we do not possess character traits in the sense required for an Ethics of Virtue.  
| Franz Hall 026               | Presented By: Beau Woodward  
|                             | Faculty Sponsor: Andrew Eshleman                                                               |  |

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<tr>
<th>College of Arts and Sciences</th>
<th>&quot;Check your work: Do conceptual checks help students solve physics problems correctly?&quot;</th>
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</table>
| Physics                      | Presented By: Anna Wetterer  
| Franz Hall 026               | Faculty Sponsor: Tamar More                                                                     |  |

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<tr>
<th>College of Arts and Sciences</th>
<th>&quot;Congress and College Football: Congressional Motivations for the Removal of the Bowl Championship Series.&quot;</th>
</tr>
</thead>
</table>
| Political Science            | This paper explores the reasons why members of Congress held hearings and investigations on the Bowl Championship Series.  
| Franz Hall 006               | Presented By: Sam Schelfout  
|                             | Faculty Sponsor: Gary Lee Malecha                                                               |  |
SESSION III  2:15 - 3:05 P.M.

College of Arts and Sciences Psychology Shiley Hall 124

“Depression in Huntington’s disease: Can the expression of the human Huntingtin gene drive changes in serotonin synthesis in the brains of mice?”
Huntington’s Disease is due to the mutation of the huntingtin gene (mHtt). Roughly 50% of patients with uncontrollable motor problems also suffer from depressive symptoms. Here we studied whether the expression of mHtt is able to alter serotonin production in the brains of mice. Immunocytochemical fluorescent microscopy was employed to assess serotonin neurons, glial cells and serotonin synthesis.
Presented By: Anna Warden
Faculty Sponsor: Mark Pitzer

College of Arts and Sciences Social Work Buckley Center 310

“Is neurogenesis in the hippocampus involved in the depression observed in Huntington’s disease? Effects of inhibiting the expression of human mutant huntingtin in the mouse hippocampus.”
Huntington’s Disease (HD) is characterized by motor impairment and depression, often arising ten years before patients are aware they carry the fatal mutant gene (mHtt). Depression in non-HD patients exhibits a reduction in hippocampal neurogenesis. Here we reduced the accumulation of mHtt in the hippocampus via RNA inhibition in transgenic HD mice in an attempt to rescue neurogenesis.
Presented By: Sydney Weber
Faculty Sponsor: Mark Pitzer

College of Arts and Sciences Sociology Shiley Hall 101

“Shedding a Light on Urban Homeless Youth in Portland: Empowering Youth through Transitional Services.”
This presentation will examine recent efforts to support homeless youth in the Portland area through access to more transitional services. Using strengths-based and empowerment perspectives, we will address the promise and challenges of efforts to empower youth who are moving toward a more independent lifestyle, and discuss how these approaches may influence future social services.
Presented By: Laura Kehoe, Kirsten Lawrence, and Sara Tellez
Faculty Sponsor: Kevin Jones

“Assessing the Importance of an Aftercare Phase in Cowlitz County Drug Court.”
Presented By: Alicia McKay
Faculty Sponsor: Martin Monto
SESSION III  2:15 - 3:05 P.M.

College of Arts and Sciences
Theology
Buckley Center 314

"Catholic Biblical Interpretation in the 20th Century."
Biblical interpretation in the Catholic Church has changed considerably since the pro-
nouncements of the Second Vatican Council (1962-65). This presentation explores the
history and causes behind these changes, as well as impact they have made on the
Catholic understanding of the Bible.
Presented By: Nicholas J. Williams
Faculty Sponsor: Will Deming and Michael Cameron

Shiley School of Engineering
Computer Science
Shiley Hall 319

"Liturgical Music for the Modern yet Timeless Church."
The Catholic Church needs to recognize and welcome cultural differences when it
comes to music within the liturgy, while maintaining the integrity of the liturgy and the
tradition, so as to deepen the spirituality of the gathered worshiping community as a
whole.
Presented By: Ashley Woster
Faculty Sponsor: George Gray, Maureen Briare, and Rev. Jeffrey Cooper, C.S.C.

Shiley School of Engineering
Civil Engineering
Shiley Hall 301

"Micromouse: Microtaur."
Microtaur is an autonomous maze solving robot that runs an artificial intelligent agent.
Its goal is to navigate a unknown maze using various sensors to reach a known goal loca-
tion. Microtaur was designed to compete at the IEEE APEC Conference: Micromouse
Competition in Forth Worth, TX on March 17, 2014.
Presented By: Devon Griggs, Devin Helmgren, Emilia Holbik, and Janel Raab
Faculty Sponsor: Wayne Lu, Tammy VanDeGrift, and Leon Clark (Urban Robotics)

"Greystash."
Team Failing developed a Chrome plugin, Greystash, to help users convert easy-to-
remember passwords into strong passwords. Greystash is complemented by a small
website that helps users to do the same kind of password management while they are
away from their own computer.
Presented By: Kyle DeFrancia, Joey Devlin, and Erik Paulson
Faculty Sponsor: Tanya Crenshaw and Joe Hendrix (Galois)

"Boeckman Creek Wastewater Collection System."
Expansion of the urban growth boundary in Wilsonville will result in increased waste-
water flows. This project predicts future flows to the system, assesses the capability of
the wastewater pipes to adequately convey the flow to the wastewater treatment plant,
and designs pipes to handle the future flows.
Presented By: Blake Arellano, Peter Knudsen, Dalton Kuhn, John Stults, and Clark Weber
Faculty Sponsor: James Male and Brendan O'Sullivan (Industry Advisor)

"Design of a Medical Clinic in Jacmel, Haiti."
A collaborative project to design a medical clinic in Jacmel, Haiti. The group's role in this
project is to provide structural design calculations and recommendations in coordina-
tion with the architectural team.
Presented By: Garrett Athman, Mary Kate Cullinane, William Holmquist, and William Taylor
Faculty Sponsor: Matthew Kuhn and Richard Aanderud (Waterleaf Architects)
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<tr>
<th>Room</th>
<th>Presentation</th>
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<tbody>
<tr>
<td>Shiley Hall 123</td>
<td><strong>&quot;Utilizing Schlieren Imaging to Verify Heat Transfer Studies.&quot;</strong></td>
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<td>Schlieren imaging is a technique that visualizes the density changes in air by controlling light with optical equipment. The device will be used for professional heat transfer and fluid dynamics research, and to help undergraduate students visualize and understand natural convection, a type of heat transfer. Presented By: Jacob Kaessinger, Kramer Kors, and Jordan Lum Faculty Sponsor: Heather Dillon and Shannon Mayer</td>
</tr>
<tr>
<td>School of Nursing</td>
<td><strong>&quot;Solar Thermal Rankine Water Collector.&quot;</strong></td>
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<tr>
<td>Buckley Center Auditorium</td>
<td>Earn Solar Thermal Rankine has designed and built a water-heating collector generated by radiation from the sun. The collector has the potential to run a Rankine power cycle that will produce renewable energy. The heater uniquely combines both flat plate collector and evacuated tube collector designs. Presented By: Caitlin Forinash, Becca Baldwin, and Kyle Zada Faculty Sponsor: Heather Dillon, Chris Lowen (Glumac), and Mitch Dec (Glumac)</td>
</tr>
<tr>
<td>Collaborative for International Studies and Global Outreach Franz Hall 231</td>
<td><strong>&quot;Innovation and Advocacy in a Private School Setting.&quot;</strong></td>
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<td>This presentation will highlight the experience of the introduction of the school nurse role to Horizon Christian Schools in Tualatin, OR. Students will describe the process of goal setting, relationship building and interventions to create a foundation for nurses in this setting, and reflect on lessons learned through this eye-opening experience. Presented By: Rachel Garcia, Kelley Mason, Ryleigh Morgan, Maudie Demshki, Taylor Graham, and Ali Wrede Faculty Sponsor: Barbara Braband and Fran Simmons</td>
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<tr>
<td>College of Arts and Sciences Biology Franz Hall 223</td>
<td><strong>&quot;Teaching Nurses to Teach: Solving the Nursing Shortage.&quot;</strong></td>
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<td>A predicted national shortage of 260,000 nurses by 2025 has inspired us to explore contributions we can make to this impending crisis. Studies have shown that supply is directly impacted by a lack of nurse educators. Our presentation will discuss issues surrounding the shortage and how we will utilize our teaching experience to educate future generation of nurses. Presented By: Casey Andersen, Molly Berger, and Jessica Tomasco Faculty Sponsor: Mary Oakes</td>
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**SESSION IV 3:15 - 4:05 P.M.**

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<th>Room</th>
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<tr>
<td>Collaborative for International Studies and Global Outreach Franz Hall 231</td>
<td><strong>&quot;International Engagement and Leadership.&quot;</strong></td>
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<td>International House residents completed an exciting new class in fall 2013 focused on international engagement and leadership. The panel will share their final projects that discussed intercultural issues. Presented By: Kimberly Turner, Jean Francios Seide, Kevin Su, Rachel Fong, and James Farr Faculty Sponsor: Anne Santiago, Kate Regan, and Michael Pelley</td>
</tr>
<tr>
<td>College of Arts and Sciences Biology Franz Hall 223</td>
<td><strong>&quot;Physical Activity in the rat model; gene expression in the brain stem.&quot;</strong></td>
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<td>Presented By: Dayna Okumura and Kylie Pybus Faculty Sponsor: Jacque VanHoomissen</td>
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<td><strong>&quot;Physical Activity in the College Population.&quot;</strong></td>
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<td>Presented By: Dayna Okumura Faculty Sponsor: Jacque VanHoomissen</td>
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<tr>
<td>College of Arts and Sciences</td>
<td>Biology</td>
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<tr>
<th>College of Arts and Sciences</th>
<th>Communication Studies</th>
<th>Shiley Hall 101</th>
<th>&quot;Championship Round of the Fr. Rowan Cup Debate Tournament.&quot;</th>
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<td>The two finalists of this year's on-campus debate tournament meet in the championship round to determine the winner of the annual Fr. Rowan Cup.</td>
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<td>Presented By: University of Portland Speech and Debate Union</td>
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<td>Faculty Sponsor: Bohn Lattin and Brian Simmons</td>
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<tr>
<th>College of Arts and Sciences</th>
<th>Environmental Science</th>
<th>Franz Hall 214</th>
<th>&quot;An Analysis of the Western Pearlshell Mussel in Merrill Creek, Oregon: Advocacy for the Defense of Native Species Conservation Efforts.&quot;</th>
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<td>Western Pearlshell Mussel (WPM), a once abundant species, is now becoming scarce along the Columbia River Basin due to a degrading ecosystem. By monitoring WPM in Merrill Creek (Oregon), this study aims to answer three main questions: 1) what time of the year does reproduction occur, 2) what is their growth rate and 3) what are their movement patterns.</td>
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<td>Presented By: Caitlin Allawatt</td>
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<td>Faculty Sponsor: Steve Kolmes</td>
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<tr>
<th>College of Arts and Sciences</th>
<th>Psychology</th>
<th>Shiley Hall 124</th>
<th>&quot;Comparison of Inmates and College Students on Background, Mental Health, and Attitudes toward Crime.&quot;</th>
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<td>A presentation of research from a psychology senior thesis.</td>
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<td>Presented By: Chelsea Roake</td>
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<td>Faculty Sponsor: Susan Baillet</td>
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<tr>
<th>College of Arts and Sciences</th>
<th>Social Work</th>
<th>Buckley Center 209</th>
<th>&quot;Self-Regulation and Adaptive Functioning of Children with ADHD.&quot;</th>
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<td>A presentation of research from a psychology senior thesis.</td>
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<td>Presented By: Nicole Simard</td>
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<td>Faculty Sponsor: Susan Baillet</td>
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<tr>
<th>College of Arts and Sciences</th>
<th>Social Work</th>
<th>Buckley Center 209</th>
<th>&quot;Interactions Among Maternal Behavior, Dominance Rank, and Serotonin Gene Polymorphisms in Female Japanese Macaques.&quot;</th>
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<td>A presentation of research from a psychology senior thesis.</td>
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<td>Presented By: Katy Stevens</td>
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<th>College of Arts and Sciences</th>
<th>Social Work</th>
<th>Buckley Center 209</th>
<th>&quot;The Revolution Will Be Student-Led.&quot;</th>
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<td>This presentation explores the history of student-led organizing in the United States through the lenses of the labor rights, anti-poverty, and environmental justice movements. We will reflect on our experiences of student-led organizing in the practicum setting, and propose a model for effective student-led organizing efforts across issues and communities.</td>
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<td>Presented By: Tara Benevente, Jessica Kast, and Erika Standeven</td>
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<td>Faculty Sponsor: Kevin Jones</td>
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SESSION IV  3:15 - 4:05 P.M.

College of Arts and Sciences
Social Work
Buckley Center 209

“HIV and Older Adults: Using Systems Theory to Explore this Growing Population.”
As HIV-positive people are growing older, services must address and be appropriate for this aging demographic. We will use systems theory to critique current HIV services and programs, and make recommendations for providing the most effective services for this population.
Presented By: Micaela Capelle, Rachel Hansen, and Vanessa Schmautz
Faculty Sponsor: Kevin Jones

College of Arts and Sciences
Social Work
Buckley Center 207

“Digital stories in policy practice: Food insecurity and the 2014 Farm Bill.”
This presentation, which includes a student-created digital story, focuses on the impact of the recent passage of the Farm Bill, which cut $8 billion out of the Supplemental Nutrition Assistance Program (SNAP). Our interest primarily lies with the low-income families that are directly impacted by these cuts. This brief is meant to explore the cuts their effect on food security.
Presented By: Sarah McDonagh, Paul Steiner, Deanna Wright, and Morgan Lafontaine
Faculty Sponsor: Alice Gates

“Digital stories in policy practice: Trans* inclusion.”
This presentation, which includes a student-created digital story, aims to bring awareness to the issues of trans* inclusion in public life. The overall social justice issues facing trans* individuals and communities will be addressed, and policy solutions-designed to protect trans* individuals from discrimination-will be explored.
Presented By: Laura Parsons, Jaclyn Sisto, Tara Egan, Annie Soisson, and Laura Forsythe
Faculty Sponsor: Alice Gates

“Digital stories in policy practice: The Homeless Bill of Rights.”
The Homeless Bill of Rights of Oregon was established as a social justice campaign to protect the homeless and poor, who are continuously criminalized based solely on their status, rather than on their behavior. This presentation, which includes a student-created digital story, explores the development of HBR and the movement to address human rights abuses against homeless persons.
Presented By: Claire Kenneally, Troy Santangelo, Ashley Kinnaman, Patricia Stein, and Noel Chen
Faculty Sponsor: Alice Gates

“Digital stories in policy practice: Undocumented youth and the DREAM Act.”
This presentation, which includes a student-created digital story, explores the struggles of undocumented immigrant youth and the implications of the DREAM Act for this population. Potential benefits and limitations of the DREAM Act are explored.
Presented By: Carina Chavarria, Rebekah Kurle, Estefany Ramos, Marissa Kelly, and Sharon Cortez
Faculty Sponsor: Alice Gates

Shiley School of Engineering
Computer Science
Shiley Hall 301

“Tumwater High School Athletics Android Application”
Our team created an android application that will be utilized by players, coaches, athletes, and fans of T-Bird athletics. The app includes a variety of helpful information such as schedules, rosters, coach contacts, maps to venues, important documents, THS news, photo and video feeds and sponsor information.
Presented By: Kevin Conley, Sam Gilloway, and Jena Graham
Faculty Sponsor: Steven Vegdahl and Dave Shanley (CrowdCompass)
SESSION IV  3:15 - 4:05 P.M.

Shiley School of Engineering
Mechanical Engineering
Shiley Hall 123

"Regenerative Bicycle Braking."
The objective of this project was to utilize generators to harness kinetic energy, otherwise lost in conventional braking systems. The final prototype, a bike-mounted device, slows the bicycle while charging a portable battery. The presentation will highlight the final product and the design process.
Presented By: Daniel Grome, Ryan Kohara, Thomas Storey, and Dylan Taitano
Faculty Sponsor: Timothy Doughty, Tim Scheumann (NACCO), and Connor Barbaree (NACCO)

Shiley School of Engineering
Mechanical Engineering
Shiley Hall 319

"Thermal Spectrometer."
The goal of this project is to create a device that can be used within a thermal spectrometer to maintain a constant temperature. A main deliverable is a range of temperatures from -10 to 150 degrees Celsius, with the ability to hold a set temperature over time to within half a degree.
Presented By: Madisen Sickler, Egan LaGrander, and Joshua McCleary
Faculty Sponsor: Khalid Khan, Heather Dillon, and Kent Thompson (Industry Advisor)

POSTER PRESENTATIONS  10:15 – 11:05 A.M.

College of Arts and Sciences
Chemistry
Faculty Sponsor: Edward J. Valente
Franz Hall Lobby

"Anteisoalkanes: Low-melting Hydrocarbons."
Presented By: Jessica Ruan

"Diastereomeric Cyclic Oxocarboxylic Acids."
Presented By: Katie Schloesser and Anna Warden

College of Arts and Sciences
Chemistry
Faculty Sponsor: Sr. Angela Hoffman, O.S.B.
Franz Hall Lobby

"Compounds from reishi extract may inhibit cancer cell growth."
Presented By: Silvia Plascencia

College of Arts and Sciences
Chemistry
Faculty Sponsor: Steve Mayer
Buckley Center Lobby

"Time-resolved study of gold nanoparticle synthesis."
Presented By: James Gaynor

"Ro-vibrational spectroscopy of HCl/DCl."
Presented By: Brain Carter and Rea Cochran

"Fluorescence and phosphorescence lifetime measurements of Acridine Yellow."
Presented By: Molly Hildreth and Shane Lescher

"Using the particle in a box model to determine energy level spacing of cyanine dyes."
Presented By: Daphne Pai and Faith Vandeway

"Raman spectroscopy of carbon tetrachloride."
Presented By: Ben Damewood and Paul Entzminger

"Dynamic NMR spectroscopy of Cooper's psuedoacid."
Presented By: Matt Baer and Marilyn Brooks

"X-ray diffraction of NaCl."
Presented By: Anna Wetterer and Ryan Wilson
POSTER PRESENTATIONS 10:15 – 11:05 A.M.

College of Arts and Sciences
Mathematics
Faculty Sponsor: Hannah Callender
Franz Hall Lobby

“Sensitivity Analysis of Stochastic Models of Integrin Signaling in Cellular Motility.”
Presented By: Hannah Biegel and Alex Quackenbush

School of Education
Faculty Sponsor: Hillary Gaudio & Julie Kalnin
Franz Hall Lobby

“Supporting and Studying Student Learning: The Work Sample as Research in Practice.”
Presented By: Chelsea Brown, Kayla Harris, Jovelle Lanzaderas, Melanie McManamon, Tess O’Conner, Mary Thatcher, Ailis Thornhill, Heather Treanor, and Justine Varsek

“Developing an Integrated Picture of Teaching and Learning: The Creation of the Work Sample.”
Presented By: Kate Ballantyne, Pili Burkett, Elizabeth Cavender, Emily Hannon, Kristin Hortsch, Lauren Klafter, Emma Lancaster, Amanda McLeod, and Morgan McAllister

School of Education
Faculty Sponsor: Hillary Guadio
Franz Hall Lobby

“Addressing the Needs of Diverse Learners.”
Presented By: Marissa Manza, Kelly Cheek, Sara Etchison, Kate Bernard, Jenna Johnson, Lauren Munson, and Kristin Hortsch

School of Education
Faculty Sponsor: Julie Kalnin
Franz Hall Lobby

“Documenting Student Learning Using Proficiency-Based Grading.”
Presented By: Jordan Brown, Julian Carter, Cory Casanova, Sara Harmston, and Logan Heyerly

Shiley School of Engineering
Mechanical Engineering
Faculty Sponsor: Heather Dillon
Shiley Hall 2nd Floor Atrium

“Analysis of a Photovoltaic System in Portland, Oregon.”
Presented By: Jordan Lum

“Light Emitting Diode (LED) Convection Research and Measurement.”
Presented By: Thomas Storey and Robin Rackerby

POSTER PRESENTATIONS 11:15 A.M. – 12:05 P.M.

College of Arts and Sciences
Chemistry
Faculty Sponsor: Edward J. Valente
Buckley Center Lobby

“Crowded Arylpyran Oxocarboxylic Acids.”
Presented By: Esther SanNicolas

“Derivatives of Cooper’s Pseudoacid: Pseudoamide Chemistry.”
Presented By: Marilyn Brooks

College of Arts and Sciences
Chemistry
Faculty Sponsor: Eugenijus Urnezius
Buckley Center Lobby

“Changes in Peroxisomes in COS7 Cells following Gentamicin Treatment.”
Presented By: Brian Carter, Takatoshi Karasawa, Allan Kachelmeier, Peter S. Steyger, and Henry J. Adler
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<tr>
<th>College of Arts and Sciences</th>
<th>&quot;Synthesis and Analysis of Analogs of Dibenzalacetone.&quot;</th>
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<tr>
<td>Chemistry</td>
<td>Presented By: Daphne Baracena</td>
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<td>Faculty Sponsor: Ronda Bard</td>
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<td>Franz Hall Lobby</td>
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<tr>
<td>College of Arts and Sciences</td>
<td>&quot;Partially polar compounds in Oregon propolis kill Pythium.&quot;</td>
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<td>Chemistry</td>
<td>Presented By: Jennifer Wilson</td>
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<td>Faculty Sponsor: Sr. Angela Hoffman, O.S.B.</td>
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<tr>
<td>College of Arts and Sciences</td>
<td>&quot;Costume Design for &quot;The Magic Flute&quot;.&quot;</td>
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<tr>
<td>Performing and Fine Arts</td>
<td>Presented By: Shenekah Telles</td>
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<td>Faculty Sponsor: Gregory Pulver</td>
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<tr>
<td>Franz Hall Lobby</td>
<td>&quot;Costume Design for &quot;Barefoot in the Park&quot;.&quot;</td>
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<td>Presented By: Kristen Gates</td>
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<tr>
<td>College of Arts and Sciences</td>
<td>&quot;Measuring the quantumness of light.&quot;</td>
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<tr>
<td>Physics</td>
<td>Presented By: Chase Calvi and Tangereen Claringbold</td>
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<td>Faculty Sponsor: Maximilian Schlosshauer</td>
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<tr>
<td>Franz Hall Lobby</td>
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<tr>
<td>School of Nursing</td>
<td>&quot;Breathing with Cystic Fibrosis: Man vs Machine.&quot;</td>
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<tr>
<td>Faculty Sponsor: Barbara Braband</td>
<td>Presented By: Ariel Schmidlin, Ashley Thiessen, and Tina Truong</td>
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<td>Franz Hall Lobby</td>
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<tr>
<td>School of Nursing</td>
<td>&quot;Utilizing PhotoVoice to capture the Health Climate of Earl Boyles Elementary and the</td>
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<tr>
<td>Faculty Sponsor: Beth Baynes</td>
<td>Surrounding community.&quot;</td>
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<tr>
<td>Gran Hall Lobby</td>
<td>Presented By: Natalie Marr</td>
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<tr>
<td>School of Nursing</td>
<td>&quot;When Your Loved One Doesn’t Know They are Dying.&quot;</td>
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<tr>
<td>Faculty Sponsor: Carol Craig</td>
<td>Presented By: Rachel Schmidt</td>
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<tr>
<td>Buckley Center Lobby</td>
<td>&quot;The Rippling Effects of Traumatic Brain Injury.&quot;</td>
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<td>Presented By: Kelsey Ayres</td>
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<tr>
<td>School of Nursing</td>
<td>&quot;Does Acupuncture Relieve Chronic Low Back Pain?&quot;</td>
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<tr>
<td>Faculty Sponsor: Carol Craig</td>
<td>Presented By: Aisha Vandelude</td>
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<tr>
<td>Buckley Center Lobby</td>
<td>&quot;HPV Vaccination Disparities in Minority and Low-Income Populations.&quot;</td>
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<td>Presented By: Jane Schumacher</td>
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### POSTER PRESENTATIONS  11:15 A.M. – 12:05 P.M.

<table>
<thead>
<tr>
<th>School of Nursing</th>
<th>“Fact or Fiction?: Do Cranberries Prevent Urinary Tract Infections.”</th>
<th>Presented By: John Adamson, Justin Britton, and Jason Tuttle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty Sponsor: Susan Stillwell</td>
<td>“Post-repair Wound Irrigation: Saline Solution vs Tap-Water on infection rate.”</td>
<td>Presented By: Blake Hren, Daisy Hubbard-Kemper, and Kehinde Alabi</td>
</tr>
<tr>
<td>Franz Hall Lobby</td>
<td>“The Efficacy of Skin-to-Skin Contact on Breastfeeding.”</td>
<td>Presented By: Elma Ramic, Tammy Mazelin, and Mathilde Christophersen</td>
</tr>
</tbody>
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### POSTER PRESENTATIONS  2:15 – 3:05 P.M.

<table>
<thead>
<tr>
<th>College of Arts and Sciences Biology Faculty Sponsor: Amelia Ahern-Rindell</th>
<th>“Assessment of Galactose as a Possible Pharmacological Chaperone for Beta-Galactosidase in Fibroblasts from GM1-Gangliosidosis Affected Sheep.”</th>
<th>Presented By: Colin Ritter</th>
</tr>
</thead>
<tbody>
<tr>
<td>College of Arts and Sciences Biology Faculty Sponsor: Elinor Sullivan</td>
<td>“Characterization of the GLB1 cDNA from Normal and GM1-Gangliosidosis Affected Ovine Fibroblast Cells to Confirm Possible Disease-Causing Mutations.”</td>
<td>Presented By: Brady Dieter</td>
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<tr>
<td>Franz Hall Lobby</td>
<td>“Sequence Analysis of Exons 13 and 14 of the PPBG gene from Normal and GM1-Gangliosidosis Affected Sheep.”</td>
<td>Presented By: Kylie Leffler</td>
</tr>
</tbody>
</table>

| College of Arts and Sciences Chemistry Faculty Sponsor: Sr. Angela Hoffman, O.S.B. | “The Impact of Maternal High-Fat Diet on Offspring Social Behavior.” | Presented By: Nichole Downing |

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<thead>
<tr>
<th>College of Arts and Sciences Psychology Faculty Sponsor: Andrew Guest Buckley Center Lobby</th>
<th>“Possible anticancer compounds from California laurel fruit.”</th>
<th>Presented By: Daphne Pai and Cindy Tam</th>
</tr>
</thead>
<tbody>
<tr>
<td>“Biologically active compounds from Dahlia variabilis.”</td>
<td>Presented By: Morgan Willard, Rachel Lesowski, and Tanner Haistings</td>
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<thead>
<tr>
<th>College of Arts and Sciences Psychology Faculty Sponsor: Andrew Guest Buckley Center Lobby</th>
<th>“Student Attitudes Toward Alcohol Education and Social Norm Messaging at the University of Portland.”</th>
<th>Presented By: Susanna Sprinson</th>
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<tbody>
<tr>
<td>“The Role of Motivation in Adult English Language Learning.”</td>
<td>Presented By: Jeffrey Kuang</td>
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<tr>
<td>“Learning About Theory of Mind Through Coloring Activities in a Science Museum.”</td>
<td>Presented By: Alex Miller</td>
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<tr>
<td>“The Use of Therapeutic Listening in an Occupational Therapy Setting.”</td>
<td>Presented By: Kate O’Connor</td>
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<td>“The Mean Girl Phenomenon: Relational Aggression in the Classroom.”</td>
<td>Presented By: Mairi Rodriguez</td>
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<td>College of Arts and Sciences Psychology</td>
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<td>Buckley Center Lobby</td>
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<td><strong>POSTER PRESENTATIONS  2:15 – 3:05 P.M.</strong></td>
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<tr>
<td>&quot;Perspectives on Formal Helping Procedures Administered through a Domestic Violence Shelter Crisis Line.&quot; Presented By: Maggie Bulger</td>
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<td>&quot;Stress Management in a Pediatric Setting.&quot; Presented By: Lea Fairbanks</td>
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<td><strong>College of Arts and Sciences Psychology</strong></td>
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<td><strong>Franz Hall Lobby</strong></td>
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<td>&quot;ADHD symptoms in the Classroom.&quot;      Presented By: Emma Sounders</td>
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<td>&quot;Naturalistic Speech and Modeled Behavior for a Young Adult with Autism.&quot; Presented By: Allie Thomas</td>
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<tr>
<td>&quot;The Persuasive Language of Corporate-Consumer Content &amp; Social Media.&quot; Presented By: Ross Caravati</td>
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<td>&quot;After-School Programming: Benefits and Outcomes.&quot; Presented By: Cami Aquiningoc</td>
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<td>&quot;Kids do the Darndest Things: The Influence of Environmental Factors on Behavior in Early Childhood Classrooms.&quot; Presented By: David Sumada</td>
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<td>&quot;Social Skills Training in a Therapeutic School Setting.&quot; Presented By: Julia Fonk</td>
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<td>&quot;Leading After-School Programs: Perspectives and Positive Youth Development.&quot; Presented By: Erin Boettcher</td>
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<td>&quot;Social Skill Lessons for Children in a Behavioral Treatment School.&quot; Presented By: Lilian Shafer</td>
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<td><strong>College of Arts and Sciences Psychology</strong></td>
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<td><strong>Faculty Sponsor: Deana Julka</strong></td>
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<td><strong>Franz Hall Lobby</strong></td>
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<tr>
<td>&quot;The effect of sleep duration on happiness and emotional well-being.&quot; Presented By: Matthew Paul Kumabe and Stephanie Cabrera</td>
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<tr>
<td>&quot;Do we create false memories without realizing it?&quot; Presented By: Ashley Calhoun and Jasmine Davis</td>
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<tr>
<td>&quot;The effect of social dominance on life satisfaction.&quot; Presented By: Natalie Brown, Drew McGaw, and Hannah Townsend</td>
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<tr>
<td>&quot;Make me a movie star: Projection of the virtual self.&quot; Presented By: Veronica Valdez, Brittnee DeTevis, Cassy Esparza, and Katie Gregoire</td>
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<tr>
<td>&quot;Do you notice a difference? A change blindness experiment.&quot; Presented By: Jennifer Burke and Gabriela Mata</td>
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<tr>
<td>&quot;Gender differences: Examining perspectives towards 'Green Dot'.” Presented By: Adam Brizzolara, Conor Boulger, and James Lange</td>
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<td>&quot;Eyewitness testimony validity as a function of evaluated and refined system variables.” Presented By: Kimberly A. Rishe and Lauren D. Weerts</td>
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<tr>
<td>&quot;The role of waist-to-hip ratio in societal perceptions of female physical health and attractiveness.” Presented By: Emma Burick and Christiano Scarcella</td>
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</table>
POSTER PRESENTATIONS 2:15 – 3:05 P.M.

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

"The effects of parenting style and secondary school type on college entrance confidence."
Presented By: Melissa Bondra, Kessa Douse, and Lauren Rapadas

"Examining change blindness: The difficulty of perceiving visual stimuli."
Presented By: Liam Conway and Hunter Lee

"College students' views on sexual assault."
Presented By: McKenzie Oliver, Evita Corona, and Brendan Rice

POST-FOUNDERS' DAY EVENING EVENTS

4:15-4:45 p.m. College of Arts and Sciences Senior Toast, all of CAS invited
Buckley Center 163

4:30 p.m. Evening Prayer
Chapel of
Christ the Teacher

5:30 p.m. Writers magazine launch party, all invited
Campus Bookstore