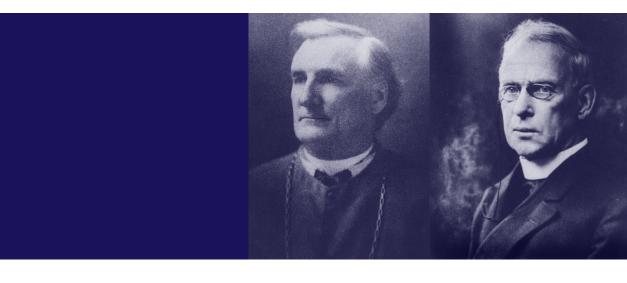
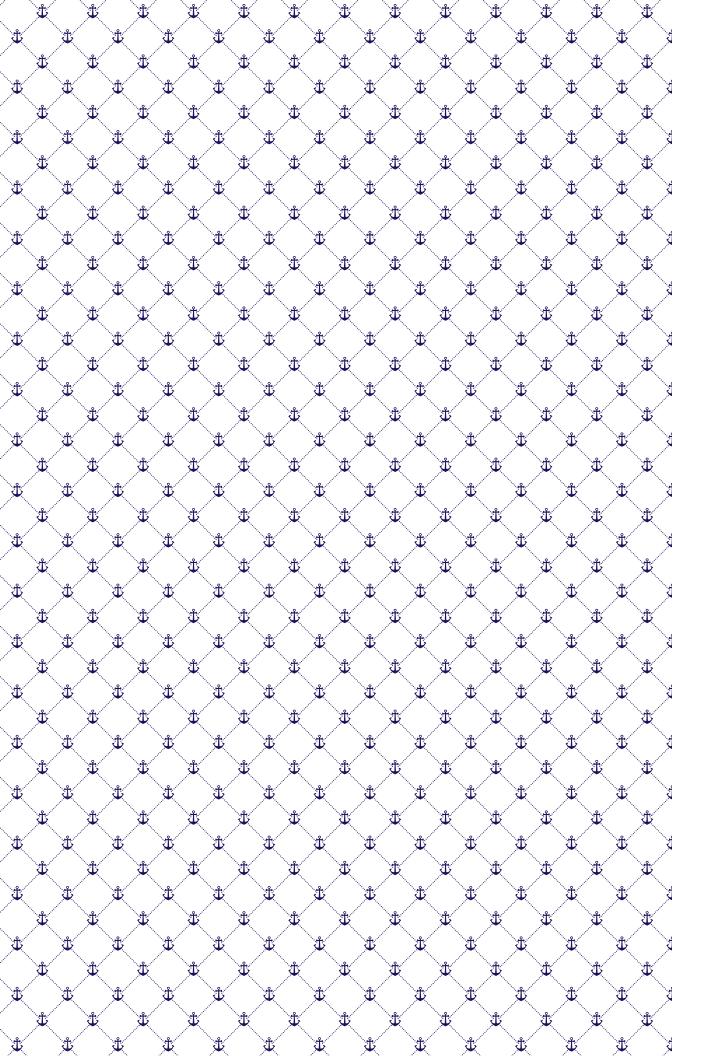


# SCHEDULE OF EVENTS

# FOUNDERS' DAY

TUESDAY, APRIL 12, 2016





UNIVERSITY OF PORTLAND FOUNDERS' DAY | SCHEDULE OF EVENTS

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.

## Session I 10:15 - 11:05 a.m.

## **Presentations**

- **3-6** Session I ...... 10:15-11:05 a.m.
- **7-11** Session II ...... 11:15 a.m.-12:05 p.m.
- 16-18 Session IV...... 3:15-4:05 p.m.

## **Poster Sessions**

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

## **19-20** 10:15-11:05 a.m.

**20-22** 11:15 a.m.-12:05 p.m.

**22** 2:15-3:05 p.m.

23-24 3:15-4:05 p.m.

## College of Arts and Sciences | Environmental Science

Franz Hall 206

"Clean-up the Willamette: An Overview of the Portland Superfund Site."

This presentation gives an overview of the contaminants in the water and sediment present in the Portland Harbor Superfund site. We discuss the historical sources and pathways of contaminants and examine the scope and cost of cleanup alternatives, technologies, the environment and future generations, face post remedial action, as well as suggest alternatives with regards to preventative measures.

Presented By: Junjie Chen, Daniel Donahue, Jordan Garahana, Andy Holstrom, Kristen Jakstis, Luke Kemp, Chloe Ryan, Calli Vander Wilde, Mariah Wallace, and Samantha Wright *Faculty Sponsor: Steven Kolmes and Russell Butkus* 

## College of Arts and Sciences | International Language and Cultures

Franz Hall 026

"Expand Your World: Combining Language Study with a Second Major."

In this panel discussion, students majoring in French, German, and Spanish talk about how they have combined their studies in language and culture with other disciplines. They share their experiences, think about life after graduation, and reflect on the doors that language study have opened for them. We will end with questions and discussion with the audience.

Presented By: London Ballard, Mackenna Krohn, Paul Munn, Dylan Vahradian, Elise Willey, and Hannes Zetzsche *Faculty Sponsor: Alexandra Hill* 

## College of Arts and Sciences | Mathematics

#### Franz Hall 034

"PIC Math Presentation: Using Phylogenetics to Characterize Antimicrobial Resistance."

Antimicrobial resistance is a significant and growing problem across the globe. Here we employ phylogenetic and mathematical techniques to better understand the origin of antimicrobial resistant elements in sequenced genomes of Salmonella isolates taken from pediatric patients in Kenya. As knowledge increases about how such resistances have developed, more effective treatments can be developed.

Presented By: Elise Christoferson, Michalah Leffler, and Taylor Spooner Faculty Sponsor: Hannah Callender

"PIC Math Presentation: Optimization of Hydroelectric Power Generation in the Pacific Northwest."

Since over half of our power in the Pacific Northwest comes from hydroelectric sources, yet only 30 percent of the annual river flow volume is able to be stored at a particular dam, optimal planning of water usage is crucial. In this study, we have improved upon an existing hydro system model containing about forty dams and used it to find why some of the demands of power cannot be met by a dam.

Presented By: Lucas Burns, Brandon Sit, and Nicole Statler	Faculty Sponsor: Hannah Callender
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"PIC Math Presentation: Minimizing Antibiotic Resistance with Diagnostic Deployment: A Cost-Benefit Analysis."

<ul> <li>College of Arts and Sciences   Philosophy</li> </ul>	Franz Hall 006
"An Ontological Analysis: Edith Stein's Pursuit of Being in	Knowledge and Faith'."
Presented By: Jessica Brown	Faculty Sponsor: Michael Andrews
"The Role(s) of Fate in Human Existence." Presented By: Jason Smith	Faculty Sponsor: Richard Askay
"A Philosophical Reflection of Kierkegaard's Philosophy."	
Presented By: David Kennedy	Faculty Sponsor: Richard Askay

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Session | 10:15 - 11:05 a.m.

## Session | 10:15 - 11:05 a.m.

## College of Arts and Sciences | Political Science

**Buckley Center 103** 

"University of Portland Mock Trial presents State of Midlands v. Avery Bancroft and Chase Covington."

On April 19, 2015, officers from the Midlands State Police Department arrested Chase Covington, the chair of the Midlands Gambling Commission, and Avery Bancroft, a local businessperson, on suspicion that Bancroft bribed Covington in an attempt to procure Covington's support for a new casino license. You be the jury as the UP Mock Trial team tries the case.

Presented By: London S Ballard, Katherine Miller, William Gunnels, Jacque Nelson, Natalie Hagen, Kathryn Murdock, Remington Ziems, Anna Robertson, Sitara Nath, Kelsie McKee, and William Lapachet *Faculty Sponsor: Bill Curtis* 

College of Arts and Sciences   Sociology	Franz Hall 223
"Influences on Risky Sexual Behavior in Adolescence."	

Presented By: Montana Gay Faculty Sponsor: Martin Monto

"Socioeconomic Status and Deterrents to Cycling in Multnomah County."

Presented By: Jack Greenwood Faculty Sponsor: Bryan Rookey

"The Untested Rape Kit Crisis: Inattention or Logical Exclusion?" Presented By: Erin Bell Faculty Sponsor: N

Faculty Sponsor: Martin Monto

## College of Arts and Sciences | Theology

## Franz Hall 015

**Buckley Center 110** 

"Woman, Why Are You Weeping?": Mary Magdalene and The Power Dynamic of Dis/Belief In John's Resurrection Account."

What does it mean to "believe" something? How does belief affect us individually and as a community? Using a largely feminist exegetical lens, this presentation explores Mary Magdalene's encounter with the risen Jesus, her return to the disciples, and the Gospel of John's ambiguous language depicting the power behind the human decision to believe or disbelieve.

Presented By: Geoffrey Sasser	Faculty Sponsor: Rene Sanchez and Sr. Kathleen McManus, O.P.

#### Pamplin School of Business

"Rejuvenation Market Research."

Rejuvenation is a Portland based company that specializes in refurbishing antique and vintage house parts. Students enrolled in BUS 370: Market Research class explored Rejuvenation's market segment, analyzing its target market and product offerings through primary and secondary research in order to answer key questions proposed by Rejuvenation.

Presented By: Amber Turnidge, Ali Gay, Drew Haugen, and McKenzie Strickland Faculty Sponsor: Ian Parkman

<ul> <li>Pamplin School of Business</li> </ul>	Buckley Center 104
"Cathedral Coffee Marketing Research." Market research findings on Cathedral Coffee.	
Presented By: Allison Zimmerman and Katie Richmond	Faculty Sponsor: Ian Parkman
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#### Pamplin School of Business

Franz Hall 214

"Backwoods Brewing: Operation Pay Back the Parents by Christmas."

A team of students works with Backwoods Brewing to research how best to pay back the principle investors: their parents. In addition, Backwoods is highly interested in implementing health benefits for their employees and families. After meeting with the owners and thorough research, the students presented their findings along with recommendations to the CEO and CFO of Backwoods Brewing.

Presented By: Nathan O'Farrell, Anna Murphy, Francie Casdia, Allysia Lesmana, and Joe Mahan Faculty Sponsor: Mark Meckler Franz Hall 205

"Factors Influencing Retention Rate in Higher Education."

We used descriptive and predictive analytics to investigate the trends/patterns that exist in the college admissions process along with what factors impact retention rate and we applied data mining techniques on 7805 public and private 2-year and 4-year institutions in the U.S. and over 1729 variables collected by the US Department of Education.

## Presented By: Janelle Li, Mace Provost, Claire Moberly, and Jackie Welland

Faculty Sponsor: Naveen Gudigantala

## School of Education

Franz Hall 222

"Ethics for Elementary School Students."

Elementary school students are arguably the most natural philosophers, as they are constantly curious and not afraid to ask questions. This project combines education and philosophy, by exploring the effects of teaching third graders ethics through literacy and philosophical discussions. This project was a part of the 2016 Dundon-Berchtold Fellowship Program.

## School of Education Franz Hall 231

"Impact of Teacher Feedback."

Timeline of developmentally appropriate feedback, ranging from early elementary to middle school. Presenters will examine what effective feedback looks and sounds like, as well as illustrate the impact of feedback on student achievement.

Presented By: Andrea Frates, Jacqueline Lurch, Allyson Edwards, and Lonnie Gillilan Faculty Sponsor: Hillary Merk Gaudio

## Shiley School of Engineering

## "UV Disinfection of Collected Rainwater."

A multidisciplinary team was challenged to design & analyze an autonomous solar disinfection system that would be used to treat water to 95% disinfection of collected rainwater in Portland.

Presented By: Maryna Feldberg, Alexis Hepworth, Maddy Muller, and Erin Yett Faculty Sponsor: James Male and Heather Dillon

## "MARS LIDAR Terrain Mapping."

The Multi-unit Autonomous Robotic System (MARS) is an ongoing project designed to demonstrate the feasibility of mining resources on Mars by participating in the Robotic Mining Competition (RMC). This team will achieve terrain mapping for the MARS robot by utilizing a LIDAR unit and data processing within a single board computer to extract obstacles.

Presented By: Sully Cothran, Lysa Pinto, Jaimiey Sears, Ben Stager, and Taylor Stadeli Faculty Sponsor: Wayne Lu, Deborah Munro, and David Laning (Industry)

#### Shiley School of Engineering

Shiley Hall 123

Shiley Hall 101

"3D Force Sensing Treadmill."

The purpose of this project is to sense and display the three-dimensional force exerted by a person running on a treadmill. This project focuses on sensor integration, data collection, data analysis, and biomechanics.

Presented By: Abdullah Alradadi, Reid Buchanan, Ben Forsee, Tyler Honsinger, and Anthony Prom *Faculty Sponsor: Deborah Munro, Robert Albright, and Martyn Shorten (Industry)* 

## "Solar Rankine Cycle Project."

Over the course of two semesters, the team designed and constructed a Rankine cycle consisting of a pump, turbine, strip heaters (to simulate energy input from a solar water thermal system), and condenser that uses the refrigerant R-134a to generate power as part of a larger renewable energy system.

Presented By: Hollis Crowder, Andrew Jacobs, Ethan Stansfield, and Alex Zielinski Faculty Sponsor: Heather Dillon, Khalid Khan, and Becca Baldwin (Industry)

## Session I 10:15 - 11:05 a.m.

## Shiley School of Engineering

Shiley Hall 124

"Parkinson's Assistive Device."

This project is developing a wearable, passive assistive device to allow individuals with Parkinson's disease to eat and drink with reduced hand tremors.

Presented By: Daniel Anderson, Ryan Cebula, James LeGresley, Jake Oberdank, and Brett Screechfield *Faculty Sponsor: Aaron Weast (Industry) and Tim Doughty* 

## "EMG Smart Music Band."

The EMG Smart Music Band team is programming and designing an arm band which holds an Android phone and allows the user to play, pause, and skip songs by simply flexing his/her bicep.

Presented By: Emily Nitzberg, Kostas Urnezius, and Tori Zellerhoff Faculty Sponsor: Deborah Munro and Mac Lang (Industry)

## Shiley School of Engineering

Shiley Hall 301

"ASCE-AISC Steel Bridge Project."

The Steel Bridge Team is entering the ASCE-AISC Student Steel Bridge Competition, which assess students' ability to design, fabricate, and construct a 1:10-scale steel bridge with adequate strength and stiffness. The bridges will be judged on construction time, weight, strength, stiffness, and aesthetic appeal.

Presented By: Michael Corpus, Shannon Danforth, David DiLoreto, Torin Kubo, and Dillon Zang Faculty Sponsor: Matthew Kuhn and Matthew Miller (Industry)

"Evaluation of Secondary Treatment Capacity at the Tryon Creek Wastewater Treatment Plant."

A mathematical model was developed and calibrated to simulate the performance of the activated sludge treatment process at the Tryon Creek Wastewater Treatment Plant in Lake Oswego, OR. This model was then used to predict the ability of the activates sludge process to accommodate future wet weather flows while still meeting discharge requirements protecting Willamette River Water Quality.

Presented By: James Dunbar, Sean Gestson, Brenna Harrington, and Clayton Stahnke Faculty Sponsor: Mark Kennedy and Paul Suto (Industry)

## School of Nursing

## **Buckley Center Auditorium**

"Moral Distress among baccalaureate nursing students: A multi-site descriptive study."

This presentation will provide findings from a three-site study (U of Portland, Seattle Pacific U and Indiana U) which measured: (a) Moral Distress among baccalaureate nursing students (n=267), (b) Clinical Scenarios contributing to Moral Distress, and (c) Reasons students did not speak up during distressing situations. Recommendations for future nursing education & research will be discussed.

Presented By: Austin Smith and Conor Livingston

Faculty Sponsor: Lorretta Krautscheid

"Elder Abuse Defined: Current Legislation and the Nurse's Role in Advocating for the Elderly."

How does current legislation confront the issue of elder abuse? What is the registered nurse's role in advocating for this population?

Elder Abuse describes a number of cruelties committed against seniors ages 65 and older. This may include emotional degradation, physical violence, financial exploitation, and neglect. Relatively little legislation has been passed to address the issue.

Presented By: Regina Iriawan

Faculty Sponsor: Laura Mood

## Session II 11:15 a.m. - 12:05 p.m.

## College of Arts and Sciences | Biology

Shiley Hall 319

"Sperm whales (Physeter macrocephalus) in the nearshore waters of Washington and Oregon."

Sperm whales (Physeter macrocephalus) are deep divers that use many different types of clicks to echolocate and find prey. We conducted passive acoustic monitoring on the coasts of WA and OR to determine sperm whale behavior in coastal waters. Our results correspond to previous knowledge of migratory patterns of these endangered male sperm whales.

Presented By: Lauren Arkoosh Faculty Sponsor: Tara Maginnis

"The ethological use of trash by the intertidal crab Hemigrapsus nudus."

Despite the global prevalence of trash in our oceans, we know very little about how it affects animal behavior. We explored the habitat preferences of a cosmopolitan grapsid crab, Hemigrapsus nudus. Using models that included driftwood, sand, rocks, plastics, Styrofoam, and glass, our results revealed that these crabs show no preference for natural vs. non-natural substrates.

Presented By: Luke Kemp

Faculty Sponsor: Tara Maginnis

"May the Force be with you: The physics of autotomy."

Autotomy is the ability to shed an appendage and research has repeatedly demonstrated that this is a costly event. Thus, animals should only autotomize when the alternative is death. Although this makes sense, there has been no data for "how much is enough" to induce autotomy. We quantified the total force needed for autotomy and reveal how this force correlates with natural populations.

Presented By: Stephanie Rager and Jake Williams	Faculty Sponsor: Tara Maginnis
<ul> <li>College of Arts and Sciences   Communication Studies</li> </ul>	Franz Hall 223
"Frankly, my dear, the movies are still a cultural site of	of significance."
Presented By: Megan Rossman	Faculty Sponsor: Alexa Dare
"Managing online identities: A 'sense of self' on soci	al networking sites."
Presented By: Jake Hanna	Faculty Sponsor: Alexa Dare
"Bridging the gap between Americans and the Gap Ye term travel."	ear: Cultural meanings and long-
Presented By: Marina Choy	Faculty Sponsor: Alexa Dare
"Communicating compassion: Emotional labor in ho	meless services."
Presented By: Elizabeth Miranda	Faculty Sponsor: Alexa Dare
<ul> <li>College of Arts and Sciences   English</li> </ul>	Franz Hall 026
"Queer Ecology in Whitman's 'Calamus' and Blanco's	'One Day'."
Presented By: Griffin Hay	Faculty Sponsor: Lars Erik Larson
"Delivering Voltage to Tempered Voices: An Explorat	ion of Feminist and Linguistic

Presented By: Lucy Kelly Faculty Sponsor: Genevieve Brassard "Art, Trash, and Collecting: The Treatment of Objects in Kazuo Ishiguro's

**'Never Let Me Go'** Presented By: Danielle Childs Faculty Sponsor: Cara Hersh

Challenges in Nuala Ni Dhomhnaill's 'Fuadach'."

## College of Arts and Sciences | Environmental Science

Franz Hall 206

"Portland Harbor Superfund Site: Responsibility and restoration planning towards a balanced biotic community."

Analysis of the effects on both resident and migratory wildlife along with impacts on human health. This study looks at the various ethical considerations towards the wildlife and humans that are affected by the contaminants in the Lower Willamette. Additionally, we will propose possible restoration plans and preventative measures to achieve an ecologically and socially healthy biotic community.

Presented By: Tony Aguilar, Thomas Dempsey, Brooke Holmes, Eliot Jost, Brady Kerr, Yannika Marquardt, Gabrielle Martinez deCastro, and Shelby Walsh *Faculty Sponsor: Steven Kolmes and Russell Butkus* 

ruculty sponsor: steven konnes and kussen butk

## College of Arts and Sciences | Mathematics

#### Franz Hall 034

"PIC Math Presentation: A GPS Generator Tool for Modeling Runs."

Software developers need easy to work with, easy to access GPS coordinates of people on runs in order to test and validate software designed to track a runner's route and provide accurate analysis of each run. We have developed a model in Python that outputs GPS coordinates to realistically model an individual person's run so that engineers can test their software quickly and inexpensively.

Presented By: Matt Hino, Courtney Kennedy, and Brian Satterthwaite Faculty Sponsor: Hannah Callender

## • College of Arts and Sciences | Performing and Fine Arts

Mago Hunt Recital Hall

"Music Program Honors Recital."

Join us as six of our most outstanding students perform in this special Founders' Day recital! This year's honorees are Nicole Benavente (voice), Alana Fouts (violin), Taylor Kendig (voice), Lauren Kulesa (voice), Haley Mukensnabl (violin), and Samantha Wright (clarinet).

Presented By: Nicole Benavente, Alana Fouts, Taylor Kendig, Lauren Kulesa, Haley Mukensnabl, and Samantha Wright

Faculty Sponsor: Patrick Murphy

College of Arts and Sciences   Philosophy	Franz Hall 006
"Medieval Political Philosophy."	
Presented By: Tyler Beyerlein	Faculty Sponsor: Caery Evangelist
"Moral Philosophy and Literature."	
Presented By: Kevin Chung	Faculty Sponsor: Caery Evangelist
"The Evidential Problem of Evil and the Efficacy of Soul-Mak	ing Theodicies."
Presented By: Jason Ferguson	Faculty Sponsor: Andrew Eshleman

#### College of Arts and Sciences | Political Science

Buckley Center 103

"University of Portland Mock Trial presents State of Midlands v. Avery Bancroft and Chase Covington."

On April 19, 2015, officers from the Midlands State Police Department arrested Chase Covington, the chair of the Midlands Gambling Commission, and Avery Bancroft, a local businessperson, on suspicion that Bancroft bribed Covington in an attempt to procure Covington's support for a new casino license. You be the jury as the UP Mock Trial team tries the case.

Presented By: London Ballard, Katherine Miller, William Gunnels, Jacque Nelson, Natalie Hagen, Kathryn Murdock, Remington Ziems, Anna Robertson, Sitara Nath, Kelsie McKee, and William Lapachet *Faculty Sponsor: Bill Curtis* 

## Session II 11:15 a.m. - 12:05 p.m.

"The Role of Scent in Human Kin Reco	gnition."
Presented By: Kelsey Kincaid	Faculty Sponsor: Mark F
"Punishment along party lines: The r	ole of moral punishment in political friendships.'
Presented By: Talbot Andrews	Faculty Sponsor: Mark P
<ul> <li>College of Arts and Sciences   Theology</li> </ul>	Buckley Center
"The Paper Christ: An Examination of Hermeneutical Lens of Thomas Merto	John Green's 'Paper Towns' through the n."
This capstone presentation explores the proce Merton, through the young adult novel "Paper	ss of discovering the authentic self, as described by Thomas 'Towns'' by John Green.
Presented By: Jessica Brown Fac	ulty Sponsor: Rev. Charlie Gordon, C.S.C. and Rev. Jeff Cooper, C
"Integral Ecology in a Sacramental U	niverse."
processes of the world are suffering, changing	cation of its natural resources and as a result the natural . Anthropogenic climate change demands a theological se to be modeled after Pope Francis' Integral Ecology in a
Presented By: Andrew Gottardi	Faculty Sponsor: Russell Butkus and Tom Hos
Pamplin School of Business	Franz Hall
"Planting the seeds of Analytics in a I	ocal Small Business."
reformatted their data to remove null values a	iness by helping them understand their data. First, we nd condense the data. After reformatting the data, we ot dashboards. Finally, we leveraged Excel Miner to create tw ales and future demand for their product
repression to help the business moder futures	are and ratare demand for their product.
Presented By: Ben Paul and Patrick Casale	
Presented By: Ben Paul and Patrick Casale	Faculty Sponsor: Naveen Gudigar
Presented By: Ben Paul and Patrick Casale <ul> <li>Pamplin School of Business</li> </ul>	Faculty Sponsor: Naveen Gudigar Franz Hall
<ul> <li>Presented By: Ben Paul and Patrick Casale</li> <li>Pamplin School of Business</li> <li>"Backwoods Brewing Marketing Plan We were in charge of creating a marketing and WA. Our final presentation was summarized in</li> </ul>	Faculty Sponsor: Naveen Gudigar Franz Hall
<ul> <li>Presented By: Ben Paul and Patrick Casale</li> <li>Pamplin School of Business</li> <li>"Backwoods Brewing Marketing Plan We were in charge of creating a marketing and WA. Our final presentation was summarized in improvement and efficiency, and suggested al Presented By: Mike Bonacci, Gavin Flynn, Nath and Matt Davis</li> </ul>	<i>Faculty Sponsor: Naveen Gudigar</i> <b>Franz Hall</b> social media strategy for Backwoods Brewing in Carson, a paper that collected social media data, gave options for ternatives for the future expansion of the company.
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<ul> <li>Presented By: Ben Paul and Patrick Casale</li> <li>Pamplin School of Business</li> <li>"Backwoods Brewing Marketing Plan We were in charge of creating a marketing and WA. Our final presentation was summarized in improvement and efficiency, and suggested al Presented By: Mike Bonacci, Gavin Flynn, Nath and Matt Davis Faculty Sponsor: Mark Meckler</li> <li>Pamplin School of Business</li> <li>"University of Portland Investment A The student-led organization provides opportun portfolio, attend national conferences, and discu</li> </ul>	Faculty Sponsor: Naveen Gudigar Franz Hall social media strategy for Backwoods Brewing in Carson, a paper that collected social media data, gave options for ternatives for the future expansion of the company. an DeVaughn, Taylor Hendricks, Sunny Lee, Marcus Giovacch Buckley Center ssociation: Annual Report." ities for students of all backgrounds to manage and analyze a r ss experiences with industry professionals. The annual report
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<ul> <li>Presented By: Ben Paul and Patrick Casale</li> <li>Pamplin School of Business</li> <li>"Backwoods Brewing Marketing Plan We were in charge of creating a marketing and WA. Our final presentation was summarized in improvement and efficiency, and suggested al Presented By: Mike Bonacci, Gavin Flynn, Nath and Matt Davis Faculty Sponsor: Mark Meckler</li> <li>Pamplin School of Business</li> <li>"University of Portland Investment A The student-led organization provides opportun portfolio, attend national conferences, and discu- highlights the activities of the association, show</li> </ul>	Faculty Sponsor: Naveen Gudigar Franz Hall social media strategy for Backwoods Brewing in Carson, a paper that collected social media data, gave options for ternatives for the future expansion of the company. an DeVaughn, Taylor Hendricks, Sunny Lee, Marcus Giovacch Buckley Center ssociation: Annual Report." ities for students of all backgrounds to manage and analyze a re-

Presented By: Anna Van Winkle, Meghan Daschel, Megan Fraser, and Nicole Hurner Faculty Sponsor: Hillary Merk Gaudio

author study together using children's author Patricia Polacco. Prepare to read and have fun!

## Session II 11:15 a.m. - 12:05 p.m.

## School of Education

Franz Hall 222

"Teach-Knowlogy: How Technology has Influenced Modern Classrooms."

This presentation will discuss the ways in which the teaching profession has changed due to modern advancements in technology. The session will provide you with two specific integration platforms to incorporate into collaborative learning environments. Come and learn about the role technology can play in differentiation, collaboration, and assessment.

Presented By: Molly Minder, Allison Hogan, Kaitlyn Reeves, and Blair Shanklin-Rice Faculty Sponsor: Julie Kalnin and Hillary Merk Gauio

## Shiley School of Engineering

"Vertical Axis Wind Turbines (VAWTs) on Tilikim Crossing."

This project is working closely with TriMet to install Vertical Axis Wind Turbines (VAWTs) on Tilikum Crossing to raise awareness for green energy in an urban setting. This pilot project for wind energy in Portland will offset electricity costs and hopefully spark the creation of similar projects in the area.

Presented By: Ryan Barr, Lorea Ibarzabal, John Larson, and Adam Wozniak Faculty Sponsor: Heather Dillon and Bob Hastings (Industry)

## "MECOP Baja Dyno."

Four mechanical engineering MECOP students constructed a fluid circuit dynamometer that is to be used to fine tune the continuously variable transmission (CVT) used in SAE Baja. The dynamometer utilizes fluid dynamics principles to correlate flow resistance with engine load.

Presented By: Mike Laskowski, Nick Pendowski, Gabriel Trainer, and Erik Whitney Faculty Sponsor: Ken Lulay and Tim Scheumann (Industry)

## Shiley School of Engineering

Shiley Hall 301

Shiley Hall 101

Shiley Hall 123

"Tohono O'odham Indian Health Services Project."

The purpose of this project is to evaluate the feasibility of connecting several smaller water systems on the reservation to fix the lack of overturn in the existing tank to increase water quality and reduce costs for the citizens of the communities of Comobabi, Crowhang, Fresnal and the Tohono O'odham Community College.

Presented By: Jacob Hagen, Colleen Koenig, Jonathan May, and Amanda Thompson Faculty Sponsor: Sharon Jones, John Kathol (Industry), and Doug Jones (Industry)

## Shiley School of Engineering

"Take a Number."

To produce software that supports the queuing of student requests and the handling of checkpoints in Computer Science labs. This project involves developing both Android and server software.

Presented By: TJ Agne, Micah Alconcel, Matthew Farr, and Nick Sohm Faculty Sponsor: Steve Vegdahl

"Automated Nuxollian Team Scheduler (ANTS)."

This project produces software that automatically creates schedules for Dr. Andrew Nuxoll's CS368 (Seminar) class. It takes scheduling constraints as input, and produces a schedule that meets those constraints.

Presented By: Bryce Matsuda, Caleb Piekstra, Triton Pitassi, and Jordan White

Faculty Sponsor: Steve Vegdahl, Tammy VanDeGrift, and Antoinette Ranola (Industry)

## Shiley School of Engineering

"SCOPED."

The goal of this project is to implement a novel oscilloscope design which will have easily accessible controls and a small form factor, with rough specification goals of 50V input sensitivity and a 10HMz bandwidth. This project serves a proof of concept for an Oscilloscope design. It also aims to provide an accessible model for teaching due to its simplicity and size.

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Presented By: Parker Halcomb, Trent Hashimoto, Morgan Mueller, and Nathan Travanti Faculty Sponsor: Aziz Inan and Bob Haas (Industry)

UNIVERSITY OF PORTLAND FOUNDERS' DAY | SCHEDULE OF EVENTS

## Session II 11:15 a.m. - 12:05 p.m.

## Shiley School of Engineering

"The Producer."

The Producer is a hand crafted digital keyboard controlled by a micro-controller. It features 13 keys, 3 interchangeable octaves, and analog/digital filters, which allows the user to produce a unique sound. We will be playing a variety of songs showcasing our device.

Presented By: Devon Arreola, Hunter Garcia, Connor Haas, and Justin So Faculty Sponsor: Joe Hoffbeck and Aaron Taylor (Industry)

## Franz Center

## "Townie Shades - Student Start Up to Real Venture."

Townie Shades is a sunglasses business founded by senior business majors Paul Dilley and Nick Ost. This presentation will include an overview description of how they got started and have scaled to a real business venture. The majority of the presentation will focus on the valuation process for a company of Townie's size and scope. [www.townieshades.com]

Presented By: Nick Ost and Paul Dilley

Faculty Sponsor: Peter Rachor

## Session III 2:15 - 3:05 p.m.

## College of Arts and Sciences | Biology

#### **Buckley Center 310**

"Chromosomal Gene Deletions in the TonB2 System of Vibrio vulnificus."

V. vulnificus is a bacterial pathogen due partially to its ability to obtain iron from a number of different environments, including human hosts. Multiple proteins termed the TonB system mediate the energy needed to bring iron into the cell. Through directed mutagenesis and complementation, the functionality and essentiality of two previously unstudied genes in the TonB2 system were evaluated.

Faculty Sponsor: Ryan Kustusch

"Immune Responses to a Potential Cancer Vaccine in a Mouse Model of Breast Cancer."

A promising avenue for cancer therapy uses vaccines to target the patient's immune system against the cancer. We developed and tested such a vaccine on a mouse model of breast cancer. Preliminary data show tumor shrinkage and the presence of tumor-specific antibodies after vaccination. Understanding the immune response elicited is important to further the development of these types of therapies.

Presented By: Rochelle Shih

Presented By: Elena Roberts

## Faculty Sponsor: Susan Murray

"The Effect of Maternal Mental Health on Maternal-Infant Interactions and Infant **Temperament.**"

Maternal mental health and stress impacts the quality of maternal-infant interactions. This study uses a laboratory based assessment to examine the impact of maternal mental health on maternal and infant behavior at 6 and 12 months. Increased maternal symptoms of phobic anxiety and psychosis resulted in an increased risk for cognitive and emotional problems in the infant.

Presented By: Christine Nguyen Faculty Sponsor: Elinor Sullivan

## College of Arts and Sciences | Chemistry

Franz Hall 034

"Cu(II) and Ni(II) complexes supported by di(phosphoryl)-appended catechols: electroactive compounds with secondary coordination spheres."

Synthetic, spectroscopic, electrochemical, and structural studies of new copper(II) and nickel(II) o-catecholate complexes will be presented and discussed.

Presented By: Nathan Phan and Timothy Dobson

Faculty Sponsor: Eugenijus Urnezius

Shiley Hall 124

**Buckley Center 104** 



# Session III 2:15 - 3:05 p.m.

College of Arts and Sciences   Chemistry	Franz Hall 034
"2,5-Dihydroxy and and 2,5-diamino quinones app syntheses, structures, and electrochemical studies.	
Title compounds were synthesized via our previously discovered current study expanded the synthetic scope and established th of these compounds will be presented and discussed. They app catalysts for electrochemical reduction of protons.	e limitations of our method. Electrochemistry
Presented By: Madison Lear and Connor McLoughlin	Faculty Sponsor: Eugenijus Urnezius
<ul> <li>College of Arts and Sciences   Chemistry</li> </ul>	Buckley Center 103
"Digital Image Processing in Chemical Analysis."	
This presentation will focus on image processing algorithms to from still images and videos easily captured with ubiquitous, cosmartphones.	
Presented By: Ryan Bergio, Michelle Tran, and Nicholas Shindler	Faculty Sponsor: Kevin Cantrell
<ul> <li>College of Arts and Sciences   English</li> </ul>	Franz Hall 006
"Its Melancholy, Long, Withdrawing Roar: A Travel Small Island."	er's Journey to the Heart of England's
Presented By: Leah Walters	Faculty Sponsor: Rev. Patrick Hannon, C.S.C.
"On Gratitude: Extolling and Problematizing One of Generation."	of the Most Touted Virtues of our
Presented By: Erika Murphy	Faculty Sponsor: Molly Hiro
"Promise that you will sing about me': Narration i	n Kendrick Lamar's Music."
Presented By: Ana Fonseca	Faculty Sponsor: Molly Hiro
<ul> <li>College of Arts and Sciences   History</li> </ul>	Franz Hall 015
"Gender and Sexuality in Medieval Islamic Mysticis of Ibn 'Arabi and Al-Ghazali."	sm: Comparing the theologies
Presented By: Emily Dovel	Faculty Sponsor: Bradley Franco
"Confronting a German Past: Memoirs from forme	
Presented By: Caroline Harpster	Faculty Sponsor: Bradley Franco
"In Pursuit of a Christian Empire: Innocent III and Pa	
Presented By: Nicholas Overton-Harris	Faculty Sponsor: Bradley Franco
<ul> <li>College of Arts and Sciences   Philosophy</li> </ul>	Buckley Center 104
"Divine Command Theory Rescue Mission."	
Presented By: Madeleine Boyle	Faculty Sponsor: James Baillie
"Desire for the Good in Socratic Moral Theory."	
Presented By: Nathan Seppi	Faculty Sponsor: Alejandro Santana
"The Idyllic State in Plato's Republic."	
Presented By: Dylan Vahradian	Faculty Sponsor: Alejandro Santana

# Session III 2:15 - 3:05 p.m.

College of Arts and Sciences   Political Scie	rce Franz Hall 214
"The Dilemma of an African Soldier." Presented By: Jordan Paul	Faculty Sponsor: Anne Santiago
"Citizens United v. FEC: Media, the Pu	
Presented By: Katherine Miller	Faculty Sponsor: Anne Santiago
"Investigating the Causes and Conseq	
Presented By: Edward Richter	Faculty Sponsor: Anne Santiago
"The Impact of Land Politics on Wome	n in Tanzania and Uganda."
Presented By: Jenna Kunz	Faculty Sponsor: Anne Santiago
<ul> <li>College of Arts and Sciences   Psychology</li> </ul>	Shiley Hall 319
"Cognitive Consequences of Indoor Pl	-
Presented By: Jack Greenwood	Faculty Sponsor: Mark Pitzer
"The Effects of Mental Health Stigma Students."	on Help-Seeking Behaviors Among College
Presented By: Jenny Labrousse	Faculty Sponsor: Mark Pitzer
"The Effects of Call of Duty: Advanced Abilities."	Warfare on Spatial and Numerical Reasoning
Presented By: Brooklyn Kozlowski	Faculty Sponsor: Mark Pitzer
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College of Arts and Sciences   Theology	Franz Hall 231
<ul> <li>College of Arts and Sciences   Theology</li> <li>"Full Humanity as the Criterion for Etl</li> </ul>	Franz Hall 231
"Full Humanity as the Criterion for Et	
<b>"Full Humanity as the Criterion for Etl</b> This capstone presentation explores what it m	ical Action."
<b>"Full Humanity as the Criterion for Etl</b> This capstone presentation explores what it m and what that might mean for ethical action.	ical Action." eans to be "fully human"-for Christ, for others, and for oneself,
<ul> <li><b>"Full Humanity as the Criterion for Eth</b> This capstone presentation explores what it m and what that might mean for ethical action. Presented By: Noah Banks</li> <li><b>Pamplin School of Business</b></li> <li><b>"Backwoods Brewery: Managing and</b></li> </ul>	ical Action." eans to be "fully human"-for Christ, for others, and for oneself, Faculty Sponsor: Rene Sanchez and Sr. Kathleen McManus, O.P. Franz Hall 205 Maintaining a Major Move."
<ul> <li><b>"Full Humanity as the Criterion for Eth</b> This capstone presentation explores what it m and what that might mean for ethical action.</li> <li>Presented By: Noah Banks</li> <li><b>Pamplin School of Business</b></li> <li><b>"Backwoods Brewery: Managing and</b> Our capstone group assisted Backwoods Brewifacility. We blended Project Management technology</li> </ul>	ical Action." eans to be "fully human"-for Christ, for others, and for oneself, <i>Faculty Sponsor: Rene Sanchez and Sr. Kathleen McManus, O.P.</i> Franz Hall 205 Maintaining a Major Move." ng in planning their transition into a new, larger brewing iques with Quality Management tools to provide Backwoods issues such as critical path scheduling, PERT estimates, floor
<ul> <li><b>"Full Humanity as the Criterion for Eth</b> This capstone presentation explores what it m and what that might mean for ethical action.</li> <li>Presented By: Noah Banks</li> <li><b>Pamplin School of Business</b></li> <li><b>"Backwoods Brewery: Managing and</b> Our capstone group assisted Backwoods Brewif facility. We blended Project Management tech Brewing with valuable information. We tackled</li> </ul>	ical Action." eans to be "fully human"-for Christ, for others, and for oneself, <i>Faculty Sponsor: Rene Sanchez and Sr. Kathleen McManus, O.P.</i> Franz Hall 205 Maintaining a Major Move." ng in planning their transition into a new, larger brewing iques with Quality Management tools to provide Backwoods issues such as critical path scheduling, PERT estimates, floor ods.
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<ul> <li>"Full Humanity as the Criterion for Eth This capstone presentation explores what it m and what that might mean for ethical action. Presented By: Noah Banks</li> <li>Pamplin School of Business</li> <li>"Backwoods Brewery: Managing and Our capstone group assisted Backwoods Brewing facility. We blended Project Management techn Brewing with valuable information. We tackled space optimization, and communication meth Presented By: Trevor Curran, Patrick Casale, Jord</li> <li>Pamplin School of Business</li> <li>"A Kitchen Box: Strategically Rethink A Kitchen Box, an Oregon based food subscript bringing new inspiration, recipes, and kitchen</li> </ul>	ical Action." eans to be "fully human"-for Christ, for others, and for oneself, <i>Faculty Sponsor: Rene Sanchez and Sr. Kathleen McManus, O.P.</i> Franz Hall 205 Maintaining a Major Move." ng in planning their transition into a new, larger brewing iques with Quality Management tools to provide Backwoods issues such as critical path scheduling, PERT estimates, floor ods. an Holly, and Kevin Vo Faculty Sponsor: Mark Meckler Franz Hall 206 ng a Start Up's Target Market." on service, is designed to "build kitchen confidence" by pools to their subscribers. To increase subscription rates, we itudents. Known as the "developing foodie," this generation brand new market segment.

## Session III 2:15 - 3:05 p.m.

#### School of Education

Franz Hall 223

"Beyond Equity Professional Development."

This presentation explores moments in history when attempts at equality have not been the solution for people of color in schools and in society. As educators and citizens, what is our role with students and people of color who have never had their cultural experiences affirmed? This presentation will also focus on the effects of equity as a solution for people of color in schools and the world.

Presented By: Josefina Duran

Faculty Sponsor: Hillary Merk Gaudio and Alice Gates

"The Underrepresentation of Minority Groups in Classroom Literature."

This presentation explores the importance of having representative literature in school. Students of color are underrepresented in the texts used in school. Part of the presentation will explore student opinions on the importance of having diverse classroom and how those perspectives vary between schools.

Presented By: Eleanor Cruise and Louisa Lubofsky

## Faculty Sponsor: Hillary Merk Gaudio

#### School of Education

Franz Hall 222

"Engaging Learners through Thematic Units and Integrated Content Instruction."

Teachers can use integrated content instruction to address the interrelations between and within subject areas, which is congruent with what students will do in the real world. In this session, student teachers will discuss the benefits of integrating content instruction, how to plan a thematic unit, and the specific ways in which they have integrated instruction to increase student engagement.

Presented By: Colleen Kane, Hailey Schiller, Tara Molina, and Abby Neville *Faculty Sponsor: Julie Kalnin and Hillary Merk Gaudio* 

## Shiley School of Engineering

Shiley Hall 301

"BLT2: B2Spice to L-Edit Translator."

EE students are able to easily design digital CMOS integrated circuits through the MOSIS Educational Program (MEP). It allows EE students to design and simulate their digital circuit in B2Spice, then uses BLT2 to convert their B2Logic circuit netlist into a special file which L-Edit understands. L-Edit then automatically lays out the CMOS integrated circuit which is sent for fabrication.

Presented By: Teresa Casper, Stephen Hildebrand, Maddie Hutson, and Matthew Wellnitz *Faculty Sponsor: Peter Osterberg* 

"Semi-Solar Powered House."

The objective of this project is to make energy efficient homes a reality for the middle class person. It allows the customer to have a user-friendly electric system for running both solar and grid power in their house.

Presented By: Matthew Arlint, Christine Liu, and Kyle Michael Faculty Sponsor: Zia Yamayee, Peter Osterberg, Bret Aguirre (Industry), and Benjamin Davidson (Client)

## Shiley School of Engineering

Shiley Hall 101

"Human Paintbrush."

This virtual reality system provides a 3D sculpting experience for the user. A Microsoft Kinect tracks a user's body position and arm movements while a VR headset displays the user's sculpture.

Presented By: Parker Kimball, John Lien, Viet Phan, and Matthew Young Faculty Sponsor: Steve Vegdahl, Tammy VanDeGrift, and Marcos Ortiz (Industry)

## "Block 76 Building."

Block 76 is a five-story wooden commercial building located near downtown Portland. It is positioned on a sloped foundation and it consists of a sloping roof garden. Our scope is to design the structural elements to ensure it passes standards of the International Building Code.

Presented By: Kent Andreasen, Riley Bykonen, Eric F Chen, and Matthew Josiah Faculty Sponsor: Mehmet Inan and Norm Faris (Industry) Session III 2:15 - 3:05 p.m.

## Shiley School of Engineering

Shiley Hall 123

"Society of Automotive Engineers (SAE) Aero Design Competition."

This team is competing in the international SAE aero design west competition. They are required to design and construct a medium-sized RC aircraft that is capable of lifting as much weight as can be managed. There were a multitude of design obstacles the team had to overcome which will be discussed during our presentation.

Presented By: Abe Boudouris, Nick Costa, Claire Pfeiffer, and Andrew Whitehouse Faculty Sponsor: V Dakshina Murty and Chris Hainley (Industry)

"Counting Analysis Real Time Detection System (CARDS)."

Software for statistical analysis of the betting habits of blackjack players in order to detect card counters. A web interface displays results in real time during play.

Presented By: Marc Larson, Stephen Robinson, Kirkland Spector, and Chandler Underwood Faculty Sponsor: Andrew Nuxoll and Richard Loy (Industry)

## Shiley School of Engineering

Shiley Hall 124

"Autonomous Door."

This project is to design a fully functioning autonomous door to assist the elderly and handicapped to enter their homes. The door will unlock a deadbolt, open, close, then re-lock using an autonomous system, allowing the user a safe, secure, and hands-free access to their homes.

Presented By: Kelvin Abe, Eric Chen, Brian Dalton, Jake Shin, and Devyn Teruya Faculty Sponsor: Jordan Farina

"Pilot Club."

The purpose of this project is to create a permanent multi-purpose structure for the Pilot Club members at the Merlo soccer field.

Presented By: Mitchell Casio, Jessica Escobar, Matthew Liu, Tery Fernandez, Cailean Ching, and Gavin Yamamoto Faculty Sponsor: Mehmet Inan, Khalid Khan, Zia Yamayee, James Williams (Industry), and Dustin Sauer (Industry)

#### School of Nursing

#### **Buckley Center Auditorium**

Franz Hall 026

Franz Hall 025

"Harm Reduction: Evidence base practice, public health, and professional advocacy to create change"

Harm reduction & supervised injection facilities save lives & money; reduce risk behaviors, disease transmission, and re-frame the drug debate. The presentation will demonstrate how evidence-based practice and public heath models can establish best practices and promote systems-level change through professional advocacy within Oregon Nurses Association and Oregon Student Nurses Association.

Presented By: Jonathan Irwin, Cora McSperitt, and Skye Kahea Young *Faculty Sponsor: Amber Vermeesch and Karen Cameron* 

#### Franz Center

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

Open to all students who would like to present their "pitch" for a company, a not-for-profit, a technology, or a product. The audience will select the best pitch, and you don't have to pitch to be part of the audience. The winner (in each room) receives a \$100 gift card.

Presented By: All Students Welcome	Faculty Sponsor: Peter Rachor and Jon Down
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#### Franz Center

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

Open to all students who would like to present their "pitch" for a company, a not-for-profit, a technology, or a product. The audience will select the best pitch, and you don't have to pitch to be part of the audience. The winner (in each room) receives a \$100 gift card.

Presented By: All Students Welcome

## Session IV 3:15 - 4:05 p.m.

## College of Arts and Sciences

Shiley Hall 319

"On The Body: Experiential learning in the human cadaver lab."

Twelve undergraduate science and nursing students embarked on an experiential learning journey this semester in the Advanced Human Anatomy course. In this presentation students will share their experiences with dissection in the human cadaver lab. Students will discuss topics such as the history and ethics of body donation, personhood, death, global approaches to teaching anatomy, and more.

Presented By: Elena Roberts, Kai Seeley, Raluca Gosman, Kim Mueller, Alexandra Moskowitz, Nicole Stucky, Mackenzie Brandon, Saifullah Hasan, Sebastian Brita-Orama, Heng Chen, Michael Bruschwein, and Megan Mosca Faculty Sponsor: Jacquie Van Hoomissen

#### College of Arts and Sciences | English

Franz Hall 034

#### "Why Read?"

In an ever more fast-paced and technology-saturated world, what can be gained from reading? Why is an English course required of all UP students?

In this session, six students from English 112, representing different majors across campus, will present their answers to these questions, and a discussion will follow.

Presented By: Brett Adams, Tayler Bradley, Thomas Curran, Sasha Lower, Mayetta Martel, and Erin Stuart Faculty Sponsor: Cara Hersh and Molly Hiro

#### College of Arts and Sciences | Environmental Science

Shiley Hall 301

Franz Hall 231

"Optimizing Angles of Photovoltaics at UP."

This study developed a mathematical model for optimizing photovoltaic angles and calculated the savings from installing photovoltaics on the rooftops of UP buildings as compared to existing roof types and other energy-saving roof designs like ecoroofs and white roofs. The study also calculated the return on investment for installing photovoltaics at UP.

Presented By: Nicole Statler and Amanda Adams	Faculty Sponsor: Ted Eckmann
<ul> <li>College of Arts and Sciences   History</li> </ul>	Franz Hall 015
"The 'Tacoma Method' in the News: Newspaper Coverage from Tacoma, Washington, 1883-1885."	of the Expulsion of the Chinese
Presented By: EmmaLee Kuhlmann	Faculty Sponsor: Bradley Franco
"Gender and Identity in The American West: A Focus on Th	he California Gold Rush"
Presented By: Monica Portugal	Faculty Sponsor: Bradley Franco
"MC Lyte, Queen Latifah, and Yo-Yo: A Black Feminist Girl During Hip-Hop's Golden Age"	Gang and Its Significance
Presented By: Rachel Saxby	Faculty Sponsor: Bradley Franco
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#### College of Arts and Sciences | International Language and Cultures

"Hispanic Literatures and Cultures across Time and Space."

This panel features four presentations from advanced Spanish classes addressing cultural production in the Hispanophone world in various genres and time periods, from early-modern and present-day Spain to colonial and contemporary Latin America. Students will discuss an essay they wrote for one of these classes, explaining in Spanish the content and significance of their work.

Presented By: Emily Nowlin, Erika Murphy, Estefanla Morales, and Calli VanderWilde Faculty Sponsor: Matthew Warshawsky

#### UNIVERSITY OF PORTLAND FOUNDERS' DAY | SCHEDULE OF EVENTS

## Session IV 3:15 - 4:05 p.m.

<ul> <li>College of Arts and Sciences   Philosophy</li> <li>"Human Nature and Politics in Aristotle and Hobbes."</li> </ul>	Buckley Center 104
Presented By: Brooklyn Kozlowski	Faculty Sponsor: Jeff Gauthier
"A Defense of Natural Law in Civil Rights Cases." Presented By: Everett McLean II	Faculty Sponsor: Jeff Gauthier
"The Cross-Cultural Effects of Feminism on Asian American Wome	en."
Presented By: Julie Pham	Faculty Sponsor: Jeff Gauthier
"MacKinnon on the Harm of Pornography: A Marxist Defense."	
Presented By: Teague Wiebe	Faculty Sponsor: Jeff Gauthier

#### Pamplin School of Business Franz Hall 006

"Portland Job Search and Tech Job Growth."

Can job growth in the Portland Metro area be predicted with economic indicators? How much do national trends coincide with local job growth? We focused on computer systems and design and software publishers. These tech jobs exclude IT departments within other types of companies. This report examines recent job growth in these types of companies and compares it to the state of Oregon and the US.

Presented By: Ruth Easterling, Kevin Chapman, and Ashwin Ramkumar Faculty Sponsor: Naveen Gudigantala

#### Pamplin School of Business

Franz Hall 026

"Evidence from India: Evaluating microfinance as a tool to help the poor."

The impact of microfinance institutions (MFIs) as a tool for helping the poor is unclear. This research seeks to address the impact on the average household of making microcredit more available in Hyderabad, India by offering an analysis of data on the creation of new businesses, business profitability, income changes, household spending patterns, and the impact of MFIs on development goals.

Presented By: Nikki Carter	Faculty Sponsor: Ross Hanig
Pamplin School of Business	Franz Hall 205
"Marketing Research on Cathedral Coffee."	
An examination of Cathedral Coffee and preferences of customers using Qualt	rics and other market research tools.
Presented By: Sabrina Arnold, Kavi Iddawela, and Sarah Espinosa	Faculty Sponsor: Ian Parkman

#### Pamplin School of Business

#### Franz Hall 206

Franz Hall 222

"Who's Listening? A case study for identifying the best digital marketing strategy solutions."

Looking at a locally grown Portland company that's wanting to grow their digital marketing strategy, particularly on social media, we look at the methods of survey research taken to try and disseminate consumer behavior and trends.

Presented By: Jake Hanna and Brianna Horwath

Faculty Sponsor: Ian Parkman

#### School of Education

"Experiential Learning: Utilizing Virtual and Real Field Trips to Enrich Student Learning."

This presentation will demonstrate different methods for bringing experiential learning to your students, both within and outside of the classroom. The presenters will illustrate different resources and examples of using experience to inspire student learning in a variety of cross-curricular disciplines.

Presented By: Meg Crowley, Katie Lord, and Stephanie Nakamine Faculty Sponsor: Hillary Merk Gaudio and Julie Kalnin

Poster Presentations 10:15 - 11:05 a.m.

## Session IV 3:15 - 4:05 p.m.

School of Education

## "Integration Nation: Science All Around Us." This presentation illustrates how one theme can integrate all content areas in early elementary. The presenters will use a thematic unit on space and integrate it into Math, History, Art, English Language Arts, and Science. Presented By: Savannah Williams, Maricela Resendez, Halie Marsh, Erin Nishijima, and Laura Ehl Faculty Sponsor: Hillary Merk Gaudio Faculty Sponsor: Laurie Dizney Shiley School of Engineering Shiley Hall 124 **"UP Electric Vehicle."** Project is an attempt to convert an old internal combustion engine golf cart to an electric drive train. Presented By: Michael Beck, John Chadbourne, Joe DaSilva, Justin Plummer, and Chris Quine Faculty Sponsor: Ken Lulay, Tim Scheumann (Industry), and Matt Ryan (Industry) "Xylobot." Presented By: Rebecca Driessen Project Xylobot is a xylophone-playing robot that interprets music notation from an XML file and uses mallets to strike the bars of xxylophone to play songs to the digital sheet music. works." Presented By: Hassan Alkhudhair, Nghi VNguyen, Ariel Niedo, Jr., and Chad Sakoda Presented By: Kevin Truong Faculty Sponsor: Wayne Lu and Tim & Emilia Vanderwerf (Industry) Shiley School of Engineering Shiley Hall 101 "Team Abraham Cerebral Palsy Communication Application." The team designed and developed an Android app to assist a boy with Cerebral Palsy to communicate with his family. With his limited physical ability and speech challenges, the app is custom-built according to his interests, communication needs, and physical limitations. Presented By: Ryson Asuncion, Matt Ong, Sean Pierson, and Joel Simard comparison." Faculty Sponsor: Tammy VanDeGrift, Olivia Coiado, Richard Turner (Industry), Debbie Anderson, and Abraham and family (Client) Shiley School of Engineering Shiley Hall 123 "Starcraft AI." An artificially intelligent player for the Starcraft computer game. The Al analyzes the state of the game and makes decisions about production and unit movements. Presented By: Alex Bowns, Max Robinson, Casey Sigelmann, and Kenny Trowbridge Nanoparticlos ?? Faculty Sponsor: Andrew Nuxoll and Andrew Meyer (Industry) "Home Data Collection Interface." The Home Data Measurement Interface is an IoT application that measures the efficiency of a solar hot water system. This project utilizes several Data Acquisition Devices with sensors that collect data such as temperature, humidity, and light. Presented By: Huy Nguyen, Paul Olivar, Michael Thorsen, and Eric Vo Faculty Sponsor: James Schmidt, Nicholas Warlen (Industry), and Mark Reed (Industry) Collaborative for Int'l Studies & Global Outreach Franz Hall 214 "Study Abroad in the Land of the Thunder Dragon (Bhutan)." Presented By: Brooke Holmes Faculty Sponsor: Anne Santiago "Music in the Marche: Summer Study in Mondavio, Italy" Presented By: Nicole Benavente and Taylor Kendig Faculty Sponsor: Anne Santiago "Service Learning and STEM Integration Study at Pollentia, Spain." Presented By: Kristen Turner Faculty Sponsor: Anne Santiago

Franz Hall 223

## College of Arts and Sciences | Biology Shiley Hall 3rd Floor Atrium "Environmental Survey of the Ecological Recovery of the University of Portland River Campus Riparian Zone, Portland, OR: A Comparative Study." Presented By: Carina Bernard and Natasha McGlaun Faculty Sponsor: David Taylor "Restoration Effects: Mammal Health and Abundance." Presented By: Abigail Maddigan, Piper Stevie, Laura Braun, Cody Fischer, and Kristen Jakstis College of Arts and Sciences | Chemistry Franz Hall Holy Cross Lounge "Two biologically active fractions of propolis." Presented By: Linda Hong and Audra Lewis Faculty Sponsor: Sr. Angela Hoffman, O.S.B. "Resistance to Pythium Growth in the Fruit of the California Bay Laurel." Faculty Sponsor: Sr. Angela Hoffman, O.S.B. "Basket plant (Callisia fragrans) extract: A potential anti-cancer compound in the Faculty Sponsor: Sr. Angela Hoffman, O.S.B. "Identification of anti-fungal flavononids originating from Dahlia variabilis." Presented By: Michelle Tran and Monica Pengshung Faculty Sponsor: Sr. Angela Hoffman, O.S.B. "Extraction, Isolation, and Biological Activity Of Chemical In Piper betle Leaf." Presented By: Vy Le, Thao Ly, and Elle Fujimoto Faculty Sponsor: Sr. Angela Hoffman, O.S.B. "Spectroscopic investigation of HCl and DCl gas: Vibrational dynamics and isotopic Presented By: Matthew Rodriguez and Jake VanCampen Faculty Sponsor: Steve Mayer "Molecular Photophysics of Acridine Yellow: Fluorescence and Phosphorescence." Presented By: Gisela Abigail Gonzalez-Montiel and Emily O'Loughlin Faculty Sponsor: Steve Mayer "Temperature-Dependant Phosphorescence of Acridine Yellow." Presented By: Monica Gajda and Rebecca Wetzel Faculty Sponsor: Steve Mayer "What's in the Box? Electronic Absorption Spectroscopy of Conjugated Molecules and

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Poster Presentations 10:15 - 11:05 a.m.

College of Arts and Sciences   Physics	Franz Hall Lobby
"Electronic Speckle Pattern Interferometry."	
Presented By: Meagan Koeroghlian and Andrew Williams	Faculty Sponsor: Shannon Mayer
<ul> <li>School of Education</li> </ul>	Franz Hall Lobby
"Responding to Diversity in the Classroom."	
Presented By: Kelsey Nirei and Caitlyn Cortez	Faculty Sponsor: Hillary Merk Gaudio
Shiley School of Engineering   Civil Engineering	Shiley Hall 2nd Floor Atrium
"Block 76 Building, Portland, OR."	
Presented By: Kent Andreasen, Riley Bykonen, Eric Chen, and Ma	atthew Josiah Faculty Sponsor: Mehmet Inan
College of Arts and Sciences   Chemistry	Franz Hall Holy Cross Lounge
"Creation of an affinity column for taxol purification	on."
Presented By: Lukas Magee and Isabelle Nguyen	Faculty Sponsor: Sr. Angela Hoffman, O.S.B.
"Yew Tree Extracts as a Natural Insecticide Against	
Presented By: Bao Tran Nhan and Jin Yun	Faculty Sponsor: Sr. Angela Hoffman, O.S.B.
"Anti-hyaluronidase activity of various methanol preurodegenerative repair."	plant extracts, and implications in
Presented By: Jake VanCampen	Faculty Sponsor: Sr. Angela Hoffman, O.S.B.
"Extraction of Taxol from a Wild Yew Tree."	
Presented By: Bradley Del Rosario and Melanie Takashima	Faculty Sponsor: Sr. Angela Hoffman, O.S.B.
<ul> <li>College of Arts and Sciences   Chemistry</li> </ul>	Franz Hall 2nd Floor Balcony
"Effects of Substituents on the Equilibria for Two D Pseudoacids."	iastereomeric Arylpyran
Presented By: Johanna Wilson	Faculty Sponsor: Ed Valente
"Conformations and Structural Trends in an Extend	led Set of Dihvdropyran Derivatives."

"Crowded Arylpyran Pseudoamides. Evidence for Rearrangement in the Precursor Indanone Synthesis." Presented By: Kevin Jones Faculty Sponsor: Ed Valente

**"Dynamic Nuclear Magnetic Resonance Studies of Arylpyran Pseudoacids."** Presented By: Jonathan Fung, Keean Braceros, Tristen Tagawa, Johanna Wilson, and Kevin Jones

Faculty Sponsor: Ed Valente

"Conformations and Structural Trends in an Extended Set of Tetrahydropyran Derivatives."

Presented By: Benjamin Bui

Faculty Sponsor: Ed Valente

**"Sticky Like a Mussel: Synthesis of a Biomimetic Adhesive Polymer."** Presented By: Bryce Birchfield and Justin Dingman Faculty Sponsor: Ronda Bard

## Poster Presentations 11:15 a.m. - 12:05 p.m.

<ul> <li>College of Arts and Sciences   Chemistry</li> <li>"XRF and Raman analysis of a 15th-century painting in M</li> <li>Presented By: Gisela Abigail Gonzalez-Montiel and Ryan Bergio</li> <li>Faculty Sponsor: Valerie Walters, Ray Bard, and Ronda Bard</li> </ul>	Franz Hall Lobby allorca, Spain."
<b>"Synthesis of antimalarial 2-hydroxy-1,4-naphthoquinor 3-alkyl-diphenylether side chains."</b> Presented By: Noah Forrest and Amanda Glenn	nes containing Faculty Sponsor: Warren Wood
<b>"Progress towards the synthesis of 3-acylated-2-hydroxy</b> Presented By: Dylan Nevin	
<ul> <li>College of Arts and Sciences   Mathematics</li> <li>"Spring High Tides and Inundation Risk at Four Northeast Presented By: Nicole Statler</li> </ul>	Franz Hall Lobby Tern Coastal National Parks." Faculty Sponsor: Meike Niederhausen
"Statistical analyses of the effects of autotomy on the do in a crab."	rso-ventral righting reflex
Presented By: Logan Mealy and Brian Satterthwaite Faculty Sponsor	Meike Niederhausen and Tara Maginnis
<ul> <li>College of Arts and Sciences   Physics</li> <li>"Experimental Demonstration of a Delayed-Choice Quant</li> </ul>	Franz Hall Lobby
	aculty Sponsor: Maximilian Schlosshauer
<ul> <li>School of Education</li> <li>"Privileged: Being a Teacher Ally in Diverse Classrooms."</li> <li>Presented By: Monica Portugal, EmmaLee Kuhlmann, and Alexa Bryant</li> </ul>	<b>Franz Hall Lobby</b> Capellas <i>Faculty Sponsor: Julie Kalnin</i>
<ul> <li>Shiley School of Engineering   Civil Engineering</li> <li>"West Union Reservoir Siting &amp; Hydraulic Analysis."</li> <li>Presented By: Jake Brown, Noah Durr, Gilliam Gleason, Joey Urness, and T</li> </ul>	Shiley Hall 2nd Floor Atrium
<b>"Tryon Creek WWTP Upgrades, Portland, OR."</b> Presented By: James Dunbar, Sean Gestson, Brenna Harrington, and Cla Faculty Sponsor: Mark Kennedy	yton Stahnke
"LaCenter Casino Transportation Planning & Design, LaCe	*
Presented By: Emily Nickel and Amir Tumbling	Faculty Sponsor: Mojie Takallou
<ul> <li>Shiley School of Engineering   Mechanical Engineering</li> <li>"Torrefaction of Biomass."</li> <li>Presented By: Chris Cardoza, Katie Cummins, Rudi Hamsa, Kevin Hansca Faculty Sponsor: Shaz Vijlee</li> </ul>	Shiley Hall 2nd Floor Atrium am, Timothy Miles, and Paul Munn
······	
<ul> <li>School of Nursing</li> <li>"Yoga Therapy for Mental Illness."</li> </ul>	Buckley Center Auditorium Lobby
Presented By: Kaitlyn Knudson	Faculty Sponsor: Amber Vermeesch
<b>"Reducing Procedural Pain in Neonates with Kangaroo Ca</b> Presented By: Meghan Bradford, Danielle Silva, Erin Simants, and Hann Faculty Sponsor: Amber Vermeesch	

# Poster Presentations 11:15 a.m. - 12:05 p.m.

- Cale - La CNeursia -	Dualday Cantan Auditarium Labley	- Callera of Anta and Calena
<ul> <li>School of Nursing</li> <li>"Adverse Childhood Experiences (ACE's): They can</li> </ul>	Buckley Center Auditorium Lobby	<ul> <li>College of Arts and Scienc</li> <li>"Effects of nutrient add</li> </ul>
Presented By: Micheline Toews	Faculty Sponsor: Joan Caley	tidal wetland."
"Evidence Based Research Behind Medication Erro		Presented By: Kristen Jakstis,
Presented By: Liya Chernenko, Mila Kalenichenko, Irina Korote		Faculty Sponsor: Christine We
Faculty Sponsor: Lindsay Lancaster	, , , , , , , , , , , , , , , , , , ,	"High-Fat Diet Consum Accumbens in Male Nor
"Pilot Study: Evaluation of Caregiver's response t	o a Program for 'sundowning' Elders."	Presented By: Cassandra Kast
Presented By: Haley Lowe	Faculty Sponsor: Peggy McComb	"Maternal and Current
"Faith and Leadership in a Healthcare Setting."		Motivation."
Presented By: Melissa Hager	Faculty Sponsor: Sally Rothacker-Peyton	Presented By: Tram Bui
		"Characterization of V9
Poster Presentations	2:15 - 3:05 p.m.	site-directed mutagene
		Presented By: Alana Campbel
<ul> <li>College of Arts and Sciences   Environmental Science</li> </ul>	Shiley Hall 3rd Floor Atrium	"Chromosomal Gene De
"Analyzing Vertical Temperature Profiles With Dro	one and Tethersonde Flights on the	Presented By: Adel Barnes
University of Portland Campus." Presented By: Sandra Velasquez and Samantha Wright	Faculty Sponsor: Ted Eckmann	"Does HCMV fibroblast
	5 1	Presented By: Lavinia Sagario
"Topographical Effects on the Distribution of Indu of Portland."	istrial Air Poliution at the University	"Detecting HCMV Infect to Serum Sample Sensit
Presented By: Samantha Wright and Sandra Velasquez	Faculty Sponsor: Ted Eckmann	Presented By: Logan Griensev
"Analysis of the Hydrologic Impact of Sedum Albu	um on Green Roofs at the University	<ul> <li>College of Arts and Science</li> </ul>
of Portland."		"Applications of Knot Tl
Presented By: Junjie Chen and Calli VanderWilde	Faculty Sponsor: Ted Eckmann	Presented By: Nate Mattix
"Analysis of Sedum and Dudleya Species on the U	niversity of Portland's Green Roofs	"Digital Topology: How
Using Vegetation Indices." Presented By: Andrew Holstrom	Faculty Sponsor: Ted Eckmann	Presented By: Jarrett Oney
		"Topology and the Shap
<ul> <li>College of Arts and Sciences   Mathematics</li> </ul>	Franz Hall Lobby	Presented By: Madeleine Boy
"An Agent-based Model of the Green Dot Violence	e Prevention Program on College	"Topology Applied to G
Campuses." Presented By: Parkes Kendrick and Tsikata Apenyo	Faculty Sponsor: Hannah Callender	Presented By: Forrest McBride
		<b>"A Complex Approach t</b>
<ul> <li>School of Education</li> </ul>	Franz Hall Lobby	Presented By: Micah Thorpe-I
"Connecting Learning to Cultural Backgrounds in	-	<ul> <li>College of Arts and Science</li> </ul>
Presented By: Benjamin Heeber and Felicia Teba	Faculty Sponsor: Julie Kalnin	"Body Image Blues? Per
Shiley School of Engineering   Civil Engineering	Shiley Hall 2nd Floor Atrium	Presented By: Sophia Colletti
"ASCE-AISC Steel Bridge Project."	-	"When life is on the line
Presented By: Michael Corpus, Shannon Danforth, David DiLo	oreto, Torin Kubo, and Dillon Zang	Presented By: Ana Lasich
Faculty Sponsor: Matthew Kuhn		"Environmental Percept
"Indian Health Services Project, Tucson, AZ."	1 <del>.</del> .	Presented By: Brianna McAte
Presented By: Jacob Hagen, Colleen Koenig, Jonathan May, an Faculty Sponsor: Sharon Jones	d Amanda Thompson	"Empowering Girls? An
		Presented By: Jessica Chelsky

## Poster Presentations 3:15 - 4:05 p.m.

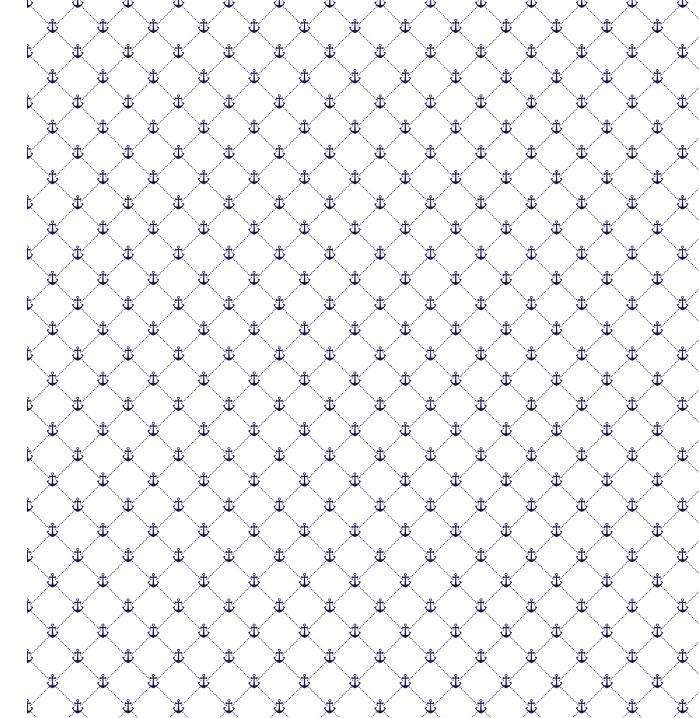
ollege of Arts and Sciences   Biology fects of nutrient additions on multiple trophic levels in a Paci al wetland."	Franz Hall Lobby fic Northwest estuarine
sented By: Kristen Jakstis, Cody Fischer, Isabelle Nguyen, and Deanna Willian ulty Sponsor: Christine Weilhoefer	ns
igh-Fat Diet Consumption Impacts the Dopaminergic System cumbens in Male Non-Human Primates."	in the Nucleus
sented By: Cassandra Kasten	Faculty Sponsor: Elinor Sullivan
aternal and Current High-Fat Diet Consumption Impacts Anxiotivation."	iety and Food
sented By: Tram Bui	Faculty Sponsor: Elinor Sullivan
haracterization of V982 in the P-glycoprotein substrate bindi e-directed mutagenesis."	ng domain using
sented By: Alana Campbell and Katie Clute-Reinig Fac	ulty Sponsor: Kathryn Van Hook
hromosomal Gene Deletions in the TonB2 System of V. vulnifi	cus."
sented By: Adel Barnes	Faculty Sponsor: Ryan Kustusch
oes HCMV fibroblast adapted vaccine elicit an atypical immu	
sented By: Lavinia Sagario	Faculty Sponsor: Susan Murray
etecting HCMV Infection Rates in UP Students Utilizing Saliva Serum Sample Sensitivity."	Samples in Comparison
sented By: Logan Griensewic	Faculty Sponsor: Susan Murray
ollege of Arts and Sciences   Mathematics	Franz Hall Lobby
pplications of Knot Theory to DNA Unpacking and Replicatior	."
sented By: Nate Mattix	aculty Sponsor: Valerie Peterson
igital Topology: How the screen in your pocket works and how	v it might work better."
sented By: Jarrett Oney F	aculty Sponsor: Valerie Peterson
ppology and the Shape of the Universe."	
5	aculty Sponsor: Valerie Peterson
opology Applied to Game Theory and Nash's Equilibrium Theo	
-	aculty Sponsor: Valerie Peterson
Sented BV: Mican I norbe-Kramp	aculty Sponsor: Valerie Peterson
	aculty Sponsor: Valerie Peterson
	Shiley Hall 3rd Floor Atrium
ollege of Arts and Sciences   Psychology	Shiley Hall 3rd Floor Atrium
ollege of Arts and Sciences   Psychology ody Image Blues? Perspectives on Social Pressures in a Retros sented By: Sophia Colletti Ihen life is on the line: motivations and strategies of crisis hot	Shiley Hall 3rd Floor Atrium pective Study." Faculty Sponsor: Andrew Guest
ollege of Arts and Sciences   Psychology ody Image Blues? Perspectives on Social Pressures in a Retros sented By: Sophia Colletti	Shiley Hall 3rd Floor Atrium pective Study." Faculty Sponsor: Andrew Guest
ollege of Arts and Sciences   Psychology ody Image Blues? Perspectives on Social Pressures in a Retros sented By: Sophia Colletti Ihen life is on the line: motivations and strategies of crisis hot	Shiley Hall 3rd Floor Atrium pective Study." Faculty Sponsor: Andrew Guest time volunteers." Faculty Sponsor: Andrew Guest
ollege of Arts and Sciences   Psychology ody Image Blues? Perspectives on Social Pressures in a Retros sented By: Sophia Colletti Then life is on the line: motivations and strategies of crisis hot sented By: Ana Lasich nvironmental Perceptions: Implications of Challenging Behav	Shiley Hall 3rd Floor Atrium pective Study." Faculty Sponsor: Andrew Guest Line volunteers." Faculty Sponsor: Andrew Guest iors on Support Staff."
Complex Approach to Homology."	5.1
ollege of Arts and Sciences   Psychology	Shiley Hall 3rd Floor Atrium
ollege of Arts and Sciences   Psychology ody Image Blues? Perspectives on Social Pressures in a Retros	Shiley Hall 3rd Floor Atrium pective Study."
ollege of Arts and Sciences   Psychology ody Image Blues? Perspectives on Social Pressures in a Retros	Shiley Hall 3rd Floor Atrium pective Study."
ollege of Arts and Sciences   Psychology ody Image Blues? Perspectives on Social Pressures in a Retros sented By: Sophia Colletti	Shiley Hall 3rd Floor Atrium pective Study." Faculty Sponsor: Andrew Guest
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ollege of Arts and Sciences   Psychology ody Image Blues? Perspectives on Social Pressures in a Retros sented By: Sophia Colletti <b>Then life is on the line: motivations and strategies of crisis hot</b> sented By: Ana Lasich <b>nvironmental Perceptions: Implications of Challenging Behav</b> sented By: Brianna McAteer	Shiley Hall 3rd Floor Atrium pective Study." Faculty Sponsor: Andrew Guest Line volunteers." Faculty Sponsor: Andrew Guest iors on Support Staff."

# Poster Presentations 3:15 - 4:05 p.m.

<ul> <li>College of Arts and Sciences   Psychology</li> <li>"Measuring Mentorship: Evaluating Outcomes of the Che</li> </ul>	Shiley Hall 3rd Floor Atrium mo Pal Program."
Presented By: Steph Hampel	Faculty Sponsor: Andrew Guest
<b>"Feeling the Heat: Motivations and Stress Coping Mecha</b> Presented By: AJ Muth	<b>hisms of Restaurant Cooks."</b> Faculty Sponsor: Andrew Guest
"Perspectives on Older Adults in Assisted Living and Resid	lential Care."
Presented By: Katie Williams	Faculty Sponsor: Andrew Guest
"Attitudes and Caregiving: How Nurses Manage Patient R	elationships and Stress."
Presented By: Mitchee LaPlante	Faculty Sponsor: Andrew Guest
<b>"Barrier Busting: Mental Health Stigma and Perceptions</b> Presented By: Jesse Dunn	of Counseling at UP." Faculty Sponsor: Andrew Guest
"Keep Calm and Get Through Fifth Grade: An Evaluation o Problem Solving in Elementary School."	f Emotional Management and
Presented By: Kelin Carraher	Faculty Sponsor: Andrew Guest
"From Crisis to Thriving: Factors for Successful Resettleme	ent of Refugees in Portland."
Presented By: Gianna Carducci	Faculty Sponsor: Andrew Guest
<ul> <li>College of Arts and Sciences   Psychology</li> </ul>	Shiley Hall 3rd Floor Atrium
"Exploring Relationships between Sexual Behaviors and	•
Presented By: Abigail Williams and Ellen Malaki	Faculty Sponsor: Deana Julka
"True Crime? An Examination of Eyewitness Testimony."	
Presented By: Logan Crabtree and Mary Francis Sewright	Faculty Sponsor: Deana Julka
"Relation between Personality and Internet Usage."	
Presented By: Sara Gibbons and Aaron Monto	Faculty Sponsor: Deana Julka
"Psychosocial Influences on Eating Disorders."	
Presented By: Maritza Leon, Tayler McClellan, and Carly Simon	Faculty Sponsor: Deana Julka
"The Effects of Birth Order on Procrastination."	
Presented By: Meagan Zeigler and Jessica Lake	Faculty Sponsor: Deana Julka
"The Impact of Positive and Negative Coaching Styles on and Motivation."	Athlete Performance
Presented By: Noelle LaPrevotte and Riley Clark	Faculty Sponsor: Deana Julka
"Psychological Effects of a Placebo: An Alcohol Perception	n Study."
Presented By: Rebecca Newcomb and Lincoln Clark	Faculty Sponsor: Deana Julka
"The Effect of Empathy on Music Preference."	
Presented By: Marcus Kopp and Aidan Lu	Faculty Sponsor: Deana Julka
"Empathic Exertion and It's Effect on Fatigue."	
Presented By: Kacy Buto and Tyler Gregg	Faculty Sponsor: Deana Julka
"Investigating the Relationships between Eating Disorde	
Presented By: Amelia Bryan and Sidney Richardson	Faculty Sponsor: Deana Julka
"The Effect of Guided Meditation on Working Memory."	
Presented By: Samantha Wilmart and Eliza Minculesco	Faculty Sponsor: Deana Julka

# Post-Founders' Day Evening Events

<b>4:10 - 4:30 p.m.</b>	Founders' Day Vespers, Chapel of Christ the Teacher
4:30 - 5:00 p.m.	Annual CAS Senior Toast, St. Mary's Lounge
6:30 p.m.	Writers magazine launch party, all invited, Campus Bookstore





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