



10th Anniversary
STUDENT SCHOLARSHIP
RECOGNITION DAY

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**WILLAMETTE UNIVERSITY'S
TENTH ANNUAL**

STUDENT SCHOLARSHIP RECOGNITION DAY

Student Scholarship Recognition Day (SSRD) is held each spring to celebrate the exemplary scholarship and creativity of Willamette University students. It is a day for students to share the fruits of their research, to present musical, theatrical, and dance performances, and to display works of art to members of the faculty, family, friends, and fellow students. Regular classes are not held on SSRD as a way of honoring the extraordinary accomplishments of our students and demonstrating Willamette University's institutional commitment to student scholarship.

Please join in celebrating the tenth anniversary of SSRD. This year for the first time, to mark this anniversary, SSRD will include a LUNCHEON CELEBRATION in Goudy Commons to showcase a sample of Willamette's finest singers, dancers, and musicians. All are welcome!

Also new this year is the use of Ford Hall and an increase in two-person oral presentations. Lastly, students will be pleased to see the introduction of a new SSRD tradition: special class council sponsored events in the early evening.

The students whose work is presented at SSRD have been supported in various ways. Some have worked directly with members of the faculty as research assistants or on student-faculty collaborative projects. Others have designed and conducted their own research, often during summer or throughout their senior year for a senior thesis or capstone research project. Still others have created original works in fine and performing arts.

As you will see in this program, SSRD 2010 represents a rich array of thoughtful scholarship addressing longstanding philosophical debates and current social problems, environmental challenges and scientific quandaries. It also offers an exciting spectrum of creative works. We invite you to participate broadly and to share your ideas with the student scholars and artists.

Please join in celebrating the intellectual achievements, curiosity, and creative spirit of our extraordinary students.

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Junior Art Major's Spring Review Exhibition

Art Building Gallery, Student Gallery
8:00 am - 4:00 pm

Senior Art Major's Exhibition

Hallie Ford Museum of Art
10:00 am - 5:00 pm

Morning Activities 5

Session 1: Oral Presentations

Collins Science Center, Eaton Hall, Ford Hall, Hatfield Room,
Mark O. Hatfield Library, & Rogers Rehearsal Hall
9:30 – 11:30 am *Panels will break for 10 minutes at 10:10 am*

Lunch Hour Activities 11

Willamette Musicians – Up Top, Willamette Dance Company, &
Willamette University, Chamber Jazz Ensemble I
Goudy Commons
11:45 am – 12:45 pm

Early Afternoon 12

Presidential Scholars

Hatfield Room, Mark O. Hatfield Library
1:00 – 2:00 pm

Session 2: Oral Presentations

Collins Science Center, Eaton Hall, Ford Hall, & Rogers Rehearsal Hall
1:00 – 1:45 pm

Nature Walk, A Pleasant Stroll with a Campus Naturalist

Meet at south side of Waller Hall
1:00 - 1:45 pm

Late Afternoon Activities16

Session 3: Oral Presentation

Collins Science Center, Eaton Hall, & Ford Hall
2:00 – 3:00 pm

Session 4: Oral Presentation

Collins Science Center, Eaton Hall, & Ford Hall
2:00 – 4:15 pm *Panels will break for 10 min at 3:00 pm*

Session 5: Oral Presentation

Collins Science Center, Eaton Hall, & Ford Hall
3:15 – 4:15 pm

Music Recitals and Conducting Sessions

Hudson Concert Hall, Mary Stuart Rogers Music Center
2:00 – 5:00 pm

Evening Activities23

Junior and Senior Class Council Event

Cat Cavern
7:00 – 9:00 pm

Freshman and Sophomore Class Council Event

Montag Den
7:30 – 9:30 pm

Literary Readings, The Chrysalis Premiere and Poetry Reading

The Bistro
10:00 – 11:30 pm

Abstracts25

(listed in alphabetical order by last name, as submitted)

Acknowledgements. 60

All Day Activities

8:00 am – 4:00 pm

Junior Art Major Spring Review Exhibition

Art Building – Student Gallery

Emily Cafaro, Janelle Hammerstrom, Kathryn Hendricks, Delora Hilleary, Emily Lewis, Kelli Maeshiro, Sarah Miller, Maxwell Stepan, Andrew Theis, and Jules Vogel

10:00 am – 5:00 pm

Senior Art Major's Exhibition

Hallie Ford Museum of Art

Art History: Alisa Alexander, Susan Johnson, Sarah Liberatore, Paige Morton, Colleen O'Neil, and Christina Peaslee

Studio Art: Emily Franklin, Lacy Gillham, Anna Gorin, Korina Alexis Keaton, Trevor Leaf, Claire Lindsay-McGinn, Rachel Sabin, Coral Sorensen, Beth Tatlock, and Bryan Valera-Gengler

Morning Activities

9:30 am - 11:30 pm

Session 1: Oral Presentations

Collins Science Center, Eaton Hall, Ford Hall, Rogers Rehearsal Hall, & Hatfield Room, Hatfield Library

Biomedicine Examined: Cross-cultural Perspectives

Moderator: Jade Aguilar // *Eaton 106*

Drofyak, Nelya	Drofyak Family Model: Complexity of Mental Health Among Older USSR Immigrants
Esser, Gabrielle	The American Dream Embodied in Biomedicine from Mariel to PCH: An Illness Narrative
Dickey, Emily	Personal Perspectives on Biomedicine: an Exploration of Accessibility to Care, Personal Agency, and Attitudes Towards Treatment

College Colloquium Research

Moderator: Ellen Eisenberg // *Ford 102*

Hines, Joseph	The British Reception to Alexis de Tocqueville
Hoffman, Claire	Parts and Wholes: “Things in Themselves” and Unity within the Novels of Virginia Woolf
Jones, Stephanie	Weighted Pebbling Numbers: A Battle of Wits Against an Evil Opponent
Niermeyer, Madison	The Importance of Intimacy: The Rehetoric of FGC in Kajiado, Kenya
Wright, D’Arcy	In Search of a Greener Revolution: The Origins of the Green Revolution and Sustainable Agricultures

Courtesy, Crime, Chimeras and the Count: Explorations of Popular Figures in Classical Literature

Moderator: Gretchen Moon // *Collins 205*

Miller, Barratt	“There Is Almost Nothing Here That Does Not Change”: The Impossible Illusion of Transformation in Robin McKinley’s <i>Rose Daughter</i>
Harrison, Lynsey	The Undead and the Living God: How 19th Century Vampire Literature Reveals the Victorians’ Evolving Conceptions of the Nature of God
McCartan, Alison	The Mirror Cracked from Side to Side: The Imaginary, the Symbolic, and Sir Gawain and the Green Knight as a Turning Point in Medieval Literature
Martin, Colleen	Quite a Three Pipe Problem: Sherlock Holmes’ Motivation and Plot

Cultural Integration Within and Beyond Asia

Moderator: Xijuan Zhou // *Ford 302*

Baroza, Aurora; Rhodes, Emi; Li, Xun; Faricy, Morgan	Internet Impact on Urban Chinese Youth’s Support for the CCP
Faricy, Morgan	Between and Between: China’s Efforts to Confront Global Warming in the 21st Century
Li, Xun	Pills or Poke: A Comparison of Acupuncture and Zoloft on the Treatment of Depression
Rhodes, Emi; Baroza, Aurora; Li, Xun; Faricy, Morgan	Exchange of Religion Between China and Japan

Experiencing Asia: Student Exporations and Discoveries**Moderator: Ron Loftus** // *Collins 201*

Godwin, Caitlin	Discovering Japanese History Through its Museums
Lee, Judy	A Journey Home
McKay, Hillary	Exploring the Concept of Global Citizenship
Robinson, Chelsea	Presentations of Emperor Hirohito in Japanese War Museums
Valera-Gengler, Bryan	Immersing in Tagalog Language Study

Food and Agriculture in the 21st Century**Moderator: Kimberlee Chambers** // *Eaton 307*

Dunne, Jonnie	Effectiveness of Winter Cover Crop Treatments in Suppressing Weeds
Dunne, Jonnie	Are You Buying What They're Selling? Food Retailers' Perspectives on Local Food in the Willamette Valley
Giombolini, Katlyn	From Turf to Table: (re) Transitioning from Grass Seed Production to Edible Grain Production in the Willamette Valley
Grael, Katherine	Ethics or Economics: Why is the Organic Sector in Mexico Growing?
Schlegel, Annie	Pesticide Use and Migrant and Seasonal Farmworkers in Oregon: An Examination of Health, Risk Perception and Agency

Forest, Fish and Farm: Research at Willamette University's Zena Forest**Moderator: Karen Arabas** // *Collins 105*

DiNovi, Sara	Environmental Education at Zena Forest
Ninneman, Alexandra	Fish Passage and Habitat Restoration: A Study of Fish Passage Barriers Along Spring Valley Creek
Stonebraker, Peter	Zena Forest Rainwater Reclamation and Sustainability
Lugg, Mary	Avian Biodiversity: Comparing Avian Richness and Diversity According to Stand Type at Willamette University's Zena Forest
Copes-Gerbitz, Kelsey	Zena Forest: Past, Present, and Future

Games, Gaming, and 3D Media

Moderator: Jenny Orr // *Ford 201*

Collins, Wade	Practical Stereo Imaging -- Another Dimension of Sight
Liebing, Richard; Hamar, Candace; Smith, Victoria; Wolfe, Heidi	Root-a-bega: A Simple Introduction to Combinatorial Game Theory
Lomax, Dominique	Math and Popular Board Games
Volz, Brett	From Point A to Point B: Comparing Pathfinding Algorithms for Use in Videogames

Historical Analysis for Understanding Contemporary Challenges

Moderator: Seth Cotlar // *Collins 210*

Ledford, Kelsey	From Local History to the Volstead Act: The Fight for Prohibition in Oregon
Parker, Neal	Calvin, Locke, and the Environment
Penrod, Calvin Matthew	Hitler's Atlantic Wall and Its Importance in the Larger WWII Narrative
Rathe, Caitlin	The Emergence of a High African-American to White Unemployment Ratio During the Great Depression
Walsh, Timothy	John VI Cantacuzenus and the Fall of the Byzantine Empire

History from the Bottom Up: Bodies Medieval and Modern

Moderator: Wendy Petersen-Boring; Leslie Dunlap // *Eaton 211*

Walker, Catherine	Multiple Meanings in Medieval Bodies
Weed, Hayley	"Lady Soul, You are so utterly formable to my nature"
Wright, Robin	Gendered Explorations of Body, Self, and Sexuality in Medieval and Modern Texts
Holdreith, Grace	Ascetic Asylum

Music, Textiles, & Vampire Stories: Doing African Cultural History

Moderator: Bianca Murillo // *Ford 204*

Harper, Hannah; Kwiatkowski, Carley; Olsen, Marie	Innovation and Authenticity: Textiles in Mali
Harper, Hannah; Kwiatkowski, Carley; Olsen, Marie	Speaking With Notes: Realizing “Angola” Through Music (post WWII-1975)
Harper, Hannah; Worthing, Sarah; Kwiatkowski, Carley; Olsen, Marie	Rumor, Gossip, and Blood: Vampires in Colonial Africa

Philosophy

Moderator: Ivan Welty // *Eaton 412*

Irving, Sean	Wittgenstein
Roos, Lyndsey	Three Aspects of Dasein’s Disclosedness in Heidegger’s Being and Time
Tirrell, Carrie	Justifying Self Respect
Zane, Megan	Examining the Gap: Evaluating the Dispute Between Bertrand Russell and P. F. Strawson

Resistance & Antiracism Praxis: Applying Ethnic Studies Theory for Social Change

Moderator: Emily Drew // *Hatfield Room, Hatfield Library*

Alexander, Rebecca	Queerify Those Volunteers: Creating a Radical Queer Volunteer Training for Salem Rainbow Youth
Krow-Boniske, Rachel	Education as the Practice of Freedom”: An Exploration into Transformative Pedagogy and Anti-Bias Education
Ubaldo, Ruth; Greenfield, Leigh Ann	Racial Reconciliation in a Christian Community: A Process of Change within Willamette’s Intersivity Chapter
Wiggins, Chase	What’s in a Name?: The Rhetoric of ‘People of Color’ in Group Identity Formation

Subcultures and Countercultures

Moderator: Stas Vysotsky // *Collins 408*

Lutz, Katie	Worth the Time or a Waste of Time: Homeless Youth and Public Education
Parker, Jessica	Ted Bundy vs. Hannibal Lecter: An Exploration of Factual and Fictional Serial Murderers from the Mid-20th to Early-21st Centuries
Rising, Amy	The Propensity of Military Brats' Future Military Enlistment
Tran, Thanh	Athletes and Alcohol Consumption

Surfing the Newest Wave: Willamette Filmmakers

Moderator: Aili Zheng // *Ford 122*

Polzin, Mathew; Willgoos, Patrick	Light Out: A 3D Animated Short
Schiller, Tanya	Los Kiltros de Valparaíso (The Street Dogs of Valparaíso): A Chilean Documentary
Wulzen, Mary; Warren, Jennifer	A Tale of Two Socks
Yamada, Stephen	Duck and Cover: A Short Film

The Art and History of Music

Moderator: Marva Duerksen // *Rogers Rehearsal Hall*

Brody, Ian	Brevity is the Soul of Wit: An Exploration into the Conception and Performance of Anton Webern's Cello Sonata (1914)
Janssen, Kristine	Sonorous Sexualities: Implications of Gender Characterization in Opera
Leland, Hannah	"Platinum Spirals" Through Performance and Analysis
Southorn, Debbie	Teaching to a New Tune: Possibilities for Social Justice in Music Education

The Individual Writing from the Fringe of Culture

Moderator: Ken Nolley // *Ford 304*

Davidson, David	Edward Abbey's Middle Path: Spirituality, Individuality and Community in Desert Solitaire
Gallegos, Heather; Davidson, David; Eichner, Maureen; Tallent, Gabriel	Queering Gender and Then Some: An Intersectional Look at Stone Butch Blues
Tallent, Gabriel	The "Intriguing Little Slut": Pleasure in Samuel Richardson's Pamela
Tallent, Gabriel; Davidson, David; Gallegos, Heather	The Sounds of Silence: Sonnets by Elizabeth Barrett Browning and Christina Rossetti

Lunch Hour Activities

11:45 am – 12:45 pm

Goudy Commons

Up Top – Women's Acapella:

Grace Komarek-Meyer, Debbie Southorn, Lauren Barnhart, Sara Quinn, Sydney Gabbard, Ellie Thomson, Kaeley Pruitt-Hamm, Ashley Ingersoll, and Christiana Zollner

Willamette Dance Company:

Tessa Allen, Alex Ninneman, Leslie Schultz, Stina Thorburn, Madeline Yoste

Willamette University Chamber Jazz Ensemble I: directed by Julian Snow

Adam Lozier, Paxton Gehling, John Snelgrove, Dan Daly, Robert Blodgett, and Joe Provencher

Early Afternoon Activities

1:00 – 1:45 pm

Session 2: Oral Presentations

Collins Science Center, Eaton Hall, Ford Hall, & Rogers Rehearsal Hall

Nature Walk, A Pleasant Stroll with a Campus Naturalist

Meet at south side of Waller Hall – The walk will be led by Hayley Serres

Special Panel of Presidential Scholars**Moderator: Monique Bourque** // *Hatfield Room, Hatfield Library*

- Weber, Jeffrey Mathematics, Particle Accelerators, and
Chemotherapeutics: An Experimental and Computational
Analysis of Anti-Cancer Compound KP1019
- Miller, J. Michael Educational Attainment & Occupational Matching:
A Study of Education, Employment, and the Outlook for
College Grads Using the CPS/ASEC

Ancient Studies**Moderator: Scott Pike** // *Eaton 307*

- Henry, Jason Examining the Role of Colluvial Processes and Slope
Movement in the Distribution of Archaeological
Materials.
- Pryce, Whitney Using X-Ray Fluorescence to Discriminate Between
Unique Clay Sources in the Southern Abruzzo, Italy

Antiviruses and Microbes: Software and Soil**Moderator: Andrew Duncan** // *Ford 304*

- Block, Daniel If You Can't Stand the Heat, Stay Out of the Hot
Spring
- Harwood, David Network Intrusion Detection at Willamette University

Blurring Lines: Relationships Mediated by Cultural Identity in British Fiction**Moderator: Gretchen Moon** // *Ford 102*

- Donaldson, Emily;
Scott, Kelsey Navigating the Spectrum: Cultural Hybridity, its
Manifestations, and its Effects on Relationships in the
Contemporary Literature of London's Bangladeshi
Diaspora
- Scott, Kelsey;
Donaldson, Emily The Secret Shall Be Told: Failures of Friendships in
E.M. Forster's *A Passage to India* and *Where Angels
Fear to Tread*

Camassia (camas lilies): Genetic and Ecological Approaches**Moderator: Susan Kephart** // *Ford 201*

- Vietmeier, Hannah Unraveling the Pollination System of a Willamette
Valley Wildflower: Pollen Limitation and Pollinator
Effectiveness in *Camassia*
- Leng, Ju-Fang Detecting Gene Flow Between Species of *Camassia*
Using Microsatellites

Corporate Influences on American Life

Moderator: Don Negri // *Collins 205*

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| Clanton, Benjamin | Hands-On Fun(ding): Are Children's Museums Open for Bu\$ine\$\$? |
| Dougal, Michael | Is Corporate PAC Money Legalized Bribery?: A Model of Corporate PAC Resource Allocation and its Impact on Roll Call Voting in Congress |

Education, Learning, & Social Justice

Moderator: Meredy Goldberg-Edelson // *Collins 408*

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| Menefee-Libey, Samuel | Higher Education, Democracy and the Legitimation of Power |
| Reid, David | Austin Blvd: A Comparative History of Education on Chicago's Westside |

Examining Efficacy: Homeopathic and Chinese Medicine

Moderator: Miho Fujiwara // *Eaton 211*

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|--|--|
| Barlow, Caprielle | Traditional Medicine in Modern Context: Determining Bufadienolide Content of Traditional Chinese Medicines |
| Gilmore, Shonnessy;
Blahnik, Gabriele | A Comparison of Homeopathic Remedies to Antibiotics for Microbial Control |

Explorations in Music

Moderator: Michael Nord // *Rogers Rehearsal Hall*

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| Bullard, Daniel | The Art of Vinyl: Analog Music Production in a Digital Age |
| Taylor, Philip | Metamorphosis: A Composer's Writing Process |

Friendship and Film in the College Experience

Moderator: Bobby Brewer-Wallin // *Eaton 412*

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|---------------------------------------|---|
| Enzminger, Molly;
Wurster, Melissa | Understanding College Adjustment: New Relationships Versus Old Friends from High School |
| Hill, Cameron | Revelations on Serenity |

Love and Romance in the Classics

Moderator: Ortwin Knorr // *Collins 105*

- | | |
|---------------|--|
| Poole, Ethan | Jews, Romans, Love, and Sex |
| Santos, Anita | Deception, Love, and Conquest in Ovid's Amores |

Political and Social Expression in Latin America

Moderator: John Uggen // *Eaton 106*

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| Parker, Neal | Funny Power; the History of Political Cartoons in Mexico |
| Sifferman, Teresa | Mama Huaca and Amorfinos: Ecuadorian Oral Literature as Identification |

Presidential Scholarship

Moderator: Monique Bourque // *Hatfield Room, Hatfield Library*

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| Miller, J. Michael | Educational Attainment & Occupational Matching: A Study of Education, Employment, and the Outlook for College Grads Using the CPS/ASEC |
| Weber, Jeffrey | Mathematics, Particle Accelerators, and Chemotherapeutics: An Experimental and Computational Analysis of Anti-Cancer Compound KP1019 |

Religious Symbols: the Bible and the Veil

Moderator: Charlie Wallace // *Ford 301*

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|-------------------|--|
| Kantrowitz, Katie | The Scripture of Solitude: Gabriel García Márquez’s “100 Years of Solitude” and the Bible |
| Luecht, Jennifer | Do Muslim Women Really Need Saving? An Analysis of the Western Conceptualization of Veiled Women in Algerian Colonial Postcards and Contemporary Images of Today |

Sex Education: Models and Behavior

Moderator: Greg Felker // *Ford 302*

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|-------------------|---|
| Kudroff, Kachina | The Effects of Locus of Control in the Relationship Between Sex Education and Sexual Behavior |
| Robinson, Bethany | Pure Romance: Undressing the Sex Toy Stigma |

The Social Construction of Sustainability and Time

Moderator: Joe Bowersox // *Collins 201*

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|---------------------|---|
| Harper, William | Time Famine: From Portland to Paris, The Causes and Consequences of The Way We Work |
| Mindling, Madeleine | An Education: The Making of a Sustainability Culture at Willamette |

The Sun & Stars**Moderator: Josh Laison** // *Collins 210*

Green, Michael Jared Summer Research at Pine Mountain Observatory
 Wright, Albert My Summer Experience With Photovoltaics

Views of Contemporary Eastern Europe**Moderator: Stacy West** // *Ford 204*

Dahlberg, Brett Post-Soviet Developments in Latvia
 Schilbach, Aleksander The Steel Triangle: Russian, Belarusian and Ukrainian
 Energy Relations Post-1991

Violence in the Home**Moderator: Sarah Bishop** // *Eaton 425*

Jones, Megan Personality as a Moderating Variable in Coping Styles:
 Contextualizing “Successful” Coping Among Survivors
 of Sexual Assault and Domestic Violence
 Marsalli, Lydia Domestic Violence Within Low Socioeconomic Status
 Groups: The Role of Linguistic Sexism, Stereotypical
 Gender Roles, and Structural Marginalization

Unlikely Historical Pair**Moderator: Ricardo de Mambro Santos** // *Art 212*

Alexander, Alisa: An Unlikely Art Historical Pair: Nicolas Poussin and
 Johnson, Susan Henry Darger in Conversation

Late Afternoon Activities

Session 3: Oral Presentations

Collins Science Center, Eaton Hall, Ford Hall, & Rogers Rehearsal Hall
 2:00 – 3:00pm

Session 4: Oral Presentations

Collins Science Center, Eaton Hall, & Ford Hall
 2:00 – 4:15 pm *Panels will break for ~10 min at 3:00 pm*

Session 5: Oral Presentations

Collins Science Center, Eaton Hall, & Ford Hall
 3:15 – 4:15 pm

Music Recitals and Conducting Sessions

Hudson Concert Hall, Mary Stuart Rogers Music Center
 2:00 – 5:00 pm

Session 3: Oral Presentations

Can Virtue Make Us Happy? The Art of Living and Morality

Moderator: Doug McGaughey // *Ford 204*

Blodgett, Robert; Murphy, Eryn; Roseman, Ryan; Burns, Kathryn	Hoffe
Murphy, Eryn	Morality and Human Nature

Diet, Endurance, and Disease

Moderator: Peter Harmer // *Ford 201*

Houle, Jennifer	Obesity Induces Cardiac Arrhythmias: Role of Cardiac Sympathetic Nerves
Soma, Erica	Effects of a Carbohydrate Loading Protocol on Anaerobic Work
Yee, Estella	Insulin Resistance in Adolescent Fructose-fed Rats

Environmental Determinants to Health and Reproduction

Moderator: Sue Koger // *Ford 302*

Andrews, Elizabeth	Transitioning to Independence: The Creation of a Resource Guide for the Parents of High-Functioning Autistic Adults
Leslie, Kerry	Heavy Metal Pollution, Oxidative Stress, and Autism
Wong, Samantha	Effects of 2, 4-DichlorophenOxyacetic Acid on <i>Xenopus laevis</i> and <i>Mus Musculus</i> Sperm Morphology

Molecular Approaches to Ecology

Moderator: Chris Smith // *Collins 105*

Collins, Jeffrey	Expansion and Decline of Southern California Populations of <i>Yucca brevifolia</i> (Agavaceae)
Dilli, Caitlin	A Molecular Approach to Identifying <i>Yucca</i> Moths
Starr, Tyler	Hybridization in the Joshua Tree (<i>Yucca brevifolia</i>)

Session 4: Oral Presentations

An Animal's Life

Moderator: Sharon Rose // *Eaton 211*

Arrington, Lindsey	"Dangerous Dogs": The Fiction Behind France's Breed- specific Legislation
Barta, Kristen	One of Oregon's Newest Invaders: The Eurasian Collared Dove
Gutzler, Benjamin; Kitts, Jeffrey	Barack and the Birds: A Study of Human Face Recognition by Crows
Hoecker, Tyler; Olnes, Justin	Grizzly Bears and the Ecology of Roads in Northern British Columbia
Hollowed, Thomas G	Population Dynamics in Pacific Cod
Mercer, Melissa	Visual Lateralization and Asymmetry of the Flight Response in the Domestic Horse (<i>Equus caballus</i>)

Investigating Urban Water Issues in Salem, Oregon

Moderator: Karen Arabas // *Eaton 412*

Bennett, Jeffrey	Urban Water Management in the Battle Creek Water-Shed
Gonzalez, Ciara	Anthropogenic Stream Disturbances to Mill Creek in Salem, OR
Westphal, Luke	A Pilot Project for Stream Enhancement of a Reach of Shelton Ditch
Wentworth, Andrew	Heavy Metal Accumulation in Bioswale Bed Materials in Salem, Oregon

Chemistry Research Presentations

Moderator: Chuck Williamson // *Ford 122*

Jones, Evan	Synthesis of Biopolymers with Mutable Physical Characteristics
Koll, Christopher	Computational Modeling of a Coordination Chemical Model of Pyrite
Meuser, Andrew	Direct Comparison of Hyperconjugation by Oxygen and Sulfur in Substituted 4-Amino-7-Nitrobenz-2-Oxa-1,3-Diazole (NBD) Derivatives
Patel, Tina;	Infrared Spectroscopy of Layered Li_xCoO_2
Sather, Craig	Asymmetric Organocatalytic Synthesis of (R)-2-morpholineethanol

Gendered Representations and Struggles**Moderator: Amadou Fofana** // *Hatfield Room, Hatfield Library*

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|--------------------------------|--|
| Alexander, Rebecca | Drs. Marie D'Equi and Alan Hart: Case Studies in Early-Twentieth Century "Female Sexual Inversion" |
| Eldred, Paul;
Vinyard, Kyle | Sexuality, Religion, and the Law |
| Geck, Amanda L. | Differences in Couple Representation Between Men's and Women's Magazines |
| McCartan, Alison | "Forward Out of Error, Forward into Light": Hunger Striking, Force-Feeding, and Historiographical Oversight in Three Women's Suffrage Movements, 1909-1918 |
| Rathe, Caitlin | Free Women of Color and Plaçage in 19th Century New Orleans |
| Satterwhite, Shannon | In Our Own Home: Gender, Discourse and Married Couples' Experiences of Homebirth |

Latin America Past, Present and Future**Moderator: Kimberly Chambers** // *Collins 205*

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|-----------------------|--|
| Anderson, Meghan | The Impact of Human Rights Movements on the Construction of Democracy: Las Abuelas de Plaza de Mayo in Argentina |
| Menefee-Libey, Samuel | The Obama Administration's Response to Structural Violence in Latin America |
| Richardson, Theodore | Participatory Rural Appraisal and Power Relations in the Andes Mountains |
| Wright, Robin | The Landless Workers Movement (MST) and Counter-Hegemony: Strategies of the Struggle for Agrarian Land Reform |
| Baptista, Rafael | Applications of Environmental History on Bolivia's Coca Trade |
| Stefanik, David | A Reformative Perspective on Immigration Policy |

Take-a-Break: Willamette's Alternative Spring and Winter Break Program**Moderator: Andrew Clark** // *Eaton 307*

Gronowski, Benjamin; Dickey, Emily	TaB Chicago
Janssen, Kristine; Southorn, Debbie	TaB Portland
Norton, Kristen; Worthing, Sarah	TaB Los Angeles
Porter, Karina; Chan, Lai Chim	TaB New Orleans
Richardson, Theodore; Wright, Robin	TaB Immigration NW

Themes in Art History: Mirrors, Landscapes, Socrates, and Outsider Fantasy**Moderator: Roger Hull** // *Ford 102*

Johnson, Susan	Nicolas Poussin and "Ut Pictura Poesis": Transcending Classical Landscape
Liberatore, Sarah	The "I" in the Mirror: Convex Mirrors and Questions of Self-Awareness in Fifteenth- and Early Sixteenth-Century Flemish Painting
Alexander, Alisa	Henry Darger as a Case Study for Outsider Art: Canonicity, Aesthetics, and Context
Morton, Paige	E. L. Kirchner's Late Landscapes: Nationalism and Rebellion in Nazi Germany
Peaslee, Christina	Classical Figures as Symbols in Western Art Exemplified by Jacques-Louis David's The Death of Socrates

Troubadours, Bards, and Philosophers: Love and Reason in the Middle Ages**Moderator: Wendy Peterson-Boring** // *Eaton 106*

Stiglich, Larissa; Greenberg, Chelsea	Kings and Pawns: Courtly Critiques in the Romance Genre
Stiglich, Larissa; Wyrsh, Peter; Greenberg, Chelsea	The Humanization of the Arthurian Court
Williamson, Haley	Satire and the Supernatural
Wyrsh, Peter	An Indirect Defense of the Nobility of Remus Lupin

Session 5: Oral Presentations

Life in the City

Moderator: Roberta Bigelow // *Ford 201*

Boehle-Silva, Kali	The Last Act: Images from Nairobi's Matatus
Saccomanno, Olivia	Improving Subjective Quality of Life for Individuals Diagnosed with Schizophrenia: Urban vs. Rural Environments
Stewart, Shannon	Envisioning Community: A Sociological Analysis of Shared Space

Nationalisms Examined

Moderator: David Gutterman // *Ford 301*

Dahlberg, Brett	Divergent Democratic Development in Latvia and Belarus
O'Neil, Caitlin	L'Hybridité narrée: Identity and Narrative Credibility in Marjane Satrapi's <i>Persepolis</i>
Robb, Timothy; Hykan, Rebekah	Rethinking Globalization: an Individual's Approach.

Nervous: Researching the Brain & Neural Communication

Moderator: Emma Coddington // *Collins 105*

Heck, Patrick	Scanning Brains and Reading Minds: Decoding Vision Using Neuroimaging
Ho, Stephanie	A Genetic Screen to Identify Genes Required for Axonal Transport
Lytle, Nikki	Investigating the Function of Stathmin in Axonal Transport
McIlraith, Autumn	The Time Course of Single Letter Processing: An ERP Investigation

Paradise Lost

Moderator: Allison Hobgood // *Collins 201*

Kummert, Nicholas; Miller, Barratt; Svenson, Kristen; Zane, Megan	"To Hell or Connacht": The Paradox of Rebellion in <i>Paradise Lost</i>
Kummert, Nicholas; Miller, Barratt; Zane, Megan; Svenson, Kristen	Eve as an Anti-Epic Heroine

- Svenson, Kristen; Miller, Barratt; Kummert, Nicholas; Zane, Megan A Transmutative Creation of Epic Genre
- Zane, Megan; Miller, Barratt; Kummert, Nicholas; Svenson, Kristen To Boldly Go: Reading Paradise Lost as an Ideology

The Evolution of Gender Representation in Asian Media

Moderator: Cecily McCaffrey // *Collins 210*

- Fearnside, Eilene A Quiet Life: the Resurgence of Traditional Gender Roles in Japanese Cinema
- Kalama, Wailana Space of the Other: Sexual Politics and Postcolonialism in the Novels of Marguerite Duras
- Young, Elise The Emancipation of Woman to Worker: A Translation of Chinese Newspaper Editorials from 1959-1966

Music Recitals and Conducting Sessions

Conducting Session: Up Above My Head: A Choral Experience

Moderator: Wallace Long // *Hudson Concert Hall, Rogers Music Center*
 Willamette University Chamber Choir, Conducted by Kathryn Martin

- Martin, Kathryn The final result of her conducting internship, Katie Martin will conduct this spiritual titled piece “Up Above My Head”, arranged by Randal Swiggum, performed by the Willamette University Chamber Choir

Music Recitals:

Moderator: Jean-David Coen // *Hudson Concert Hall, Rogers Music Center*

- Phil Taylor – piano
 Even Engelstad – piano
 Andrea Weiss – harp
 Emily Mcneilly – voice
 Hannah Leland – violin
 Emily Johnson _ oboe

Evening Activities

Class Council Social Events

After a full day of scholarship, relax and unwind with these social events presented by the Willamette University Class Councils

7:00 – 9:00 pm

Juniors and Seniors // *Cat Cavern*

7:30 – 9:30 pm

Freshmen and Sophomores // *Montag Den*

Literary Readings

End your day with style. Enjoy the creative stylings of Willamette's Literary magazine – The Chrysalis.

10:00 – 11:30 pm

The Chrysalis Literary Readings

Chief Editor: Madison Niermeyer // *The Bistro, 1st Floor, UC*

Authors from the 2009 edition of The Chrysalis will read their poetry and short stories. Copies of The Chrysalis will be distributed for free at the event. Please come take a magazine, hear creative work, and see a slice of what kind of talent the university has to offer.

Alexander, Alisa; Johnson, Susan

An Unlikely Art Historical Pair:

Art 212, Session 2

An Unlikely Art Historical Pair: Nicolas Poussin and Henry Darger in Conversation

This joint presentation about two seemingly dissimilar artists seeks to examine the flexibility of art historical discourse. Nicolas Poussin and Henry Darger represent artists on opposite sides of art history's canon: Poussin, the high-minded seventeenth-century Classical French artist versus Darger, the reclusive if not slightly mad Outsider artist of the twentieth century. In this discussion of unexpectedly similar themes and motifs in their work, namely, arcadia, weather, and outsidership, we seek to highlight art history's capacity to push the boundaries of traditional methodologies. An experiment in the "New Art History," this presentation is meant to flex the critical muscles of the discipline.

Alexander, Alisa

Themes in Art History: Mirrors, Landscapes,

Socrates, and Outsider Fantasy

Ford 102, Session 4

Henry Darger as a Case Study for Outsider Art: Canonicity, Aesthetics, and Context

What does it mean to be labeled an Outsider artist? How can art history discuss aberrant artists who lie outside of the discourse, who seem impossible to assimilate because of their strangeness? In a discussion of the twentieth century Chicago artist Henry Joseph Darger, this essay provides a case study for the field of Outsider art, and deconstructs ideas of canonicity, aesthetics, and context. By using traditional art historical frameworks to discuss an artist who lies outside the conventional model of art history, this essay seeks to prove that artists such as Henry Darger can not only be critically examined by the discipline, but are embraced as well.

Alexander, Rebecca

Resistance & Antiracism Praxis: Applying Ethnic

Studies Theory for Social Change

Hatfield Room, Hatfield Library, Session 1

Queerify Those Volunteers: Creating a Radical Queer Volunteer Training for Salem Rainbow Youth

Founded in 1995, Rainbow Youth aims to support LGBTQIA youth of the mid-Willamette Valley. Primarily serving youth living at or below

the poverty line, Rainbow Youth volunteers assist youth members in surviving the structural violence they encounter from being poor and/or People of Color in the United States, as well as the challenges they face because of their queerness. In addition to providing more information about this Salem non-profit organization, this presentation will describe--and discuss the implications of--a newly developed, culturally competent volunteer training that utilizes scholarship from intersectionality, critical whiteness, and anti-oppression theories in Ethnic Studies.

Alexander, Rebecca

Gendered Representations and Struggles

Hatfield Room, Hatfield Library, Session 4

Drs. Marie D'Equi and Alan Hart: Case Studies in Early-Twentieth Century "Female Sexual Inversion"

Drs. Equi and Hart both lived and worked as medical doctors in Portland, Oregon during the first decades of the last century. Using tools of historiography and archival research, this project contextualizes their separate, but strikingly similar, lives. This piece of intersectional social history problematizes the ways in which current literature on sexual inverts, passing women, and female husbands has yet to comprehensively explain the experience of middle-class female professionals who exercised their masculinity in the public sphere of the Pacific Northwest.

Anderson, Meghan

Latin America Past, Present and Future

Collins 205, Session 4

The Impact of Human Rights Movements on the Construction of Democracy: Las Abuelas de Plaza de Mayo in Argentina

During the cold war era, Argentina was ruled by an authoritarian regime that was responsible for the torture, disappearance, and assassination of thousands. In the midst of terror, human rights groups emerged. Equating democracy with social justice, these groups took over the streets and plazas of the country in an effort to hold public officials accountable for committing atrocities, enforcing unjust laws, and violating basic human rights. They publicized what the authoritarian government did in secret and helped force them from power. Las Abuelas demonstrated that advocacy at a grassroots level can influence national reform and shape domestic and international law.

Andrews, Elizabeth

Environmental Determinants to Health and Reproduction
 Ford 302, Session 3

Transitioning to Independence: The Creation of a Resource Guide for the Parents of High-Functioning Autistic Adults

The purpose of this project was to create an accessible, comprehensive resource guide to help parents transition their autistic adult children to adulthood and independent living. Many adults with autism desire independence but struggle to build the support systems they need for success. Parents can help their adult child build this support system. Unfortunately, very little resources are available on the treatment of autism in adults, and even less is written regarding how parents can be involved. This projects aims to provide parents with guidance for addressing their concerns and helping their child achieve successful independent living.

Arrington, Lindsey

An Animal's Life
 Eaton 211, Session 4

“Dangerous Dogs”: The Fiction Behind France’s Breed- specific Legislation

This project examines breed-specific dog legislation in France and details why it is both impractical and ineffective. Certain stigmatized breeds, such as Pit bulls and Rottweilers, are targeted as ‘dangerous dogs’ based on poorly completed studies and faulty statistics. Very few studies have been done to justify the French government’s claim that certain breeds are more prone to aggression than others, and we will look at several studies that show otherwise. Rather than reducing the number of dog attacks, the current legislation creates unjustified fear of these breeds and fails to address the true problem – the owners.

Baptista, Rafael

Latin America Past, Present and Future.
 Collins 205, Session 4

Applications of Environmental History on Bolivia’s Coca Trade

An important contemporary policy issue in South America is the effectiveness of coca eradication programs, especially efforts led by the United States and the International Monetary Fund. I examined a broad range of field studies conducted in Bolivia to assess the effectiveness

of eradication programs. Findings suggest that despite early gains, the effectiveness of coca eradication efforts over the last 30 years has been compromised by the ability of coca growers to adapt to new policies. As a result drastic changes in the paradigm for coca eradication may be necessary, if long-term gains are to be achieved.

Barlow, Caprielle

Examining Efficacy: Homeopathic and Chinese Medicine
 Eaton 211, Session 2

Traditional Medicine in Modern Context: Determining Bufadienolide Content of Traditional Chinese Medicines

Pharmaceuticals in the United States are products of biomedicine, in which evidence for efficacy, toxicity, and quality control is evaluated via the scientific method. In contrast, traditional medicine systems typically involve trial-and-error use of indigenous natural substances over hundreds of years; in traditional systems, evaluation is historical and formulation is personal. In the United States, traditional medicines from foreign cultures may become mass produced and widely distributed. Additionally, these formulations are generally classified as “dietary supplements”, which are not subject to pharmaceutical testing and regulation. My research determines the levels of three bufadienolides (potent cardioactive steroids) in US-available Traditional Chinese Medicines, in order to gain insight about quality control, efficacy, and toxicity of traditional medicine in a non-traditional context.

Baroza, Aurora; Rhodes, Emi; Li, Xun; Faricy, Morgan

Cultural Integration Within and Beyond Asia
 Ford 302, Session 1

Internet Impact on Urban Chinese Youth’s Support for the CCP

China is the world’s largest internet user with over 1 billion ‘netizens.’ Because of the information free-flow characteristic of the internet, the current urban youth of China are the most globally-conscious generation to date. I will focus on the impact frequent internet use has had on Chinese urban youth, most especially how the internet influences their support for the Communist Party. I will also analyze tactics the CCP is employing to maintain urban youth

support for their authoritarian regime in a liberalized information age. These tactics include sophisticated censorship, direct and indirect propaganda and fostering legitimacy through economic success.

Baroza, Aurora; Rhodes, Emi; Li, Xun; Faricy, Morgan

Cultural Integration Within and Beyond Asia
Ford 302, Session 1

Internet Impact on Urban Chinese Youth's Support for the CCP

China is the world's largest internet user with over 300 million 'netizens.' Because of the information free-flow characteristic of the internet, the current urban youth of China are the most globally-conscious generation to date. This study focuses on the impact frequent internet use has had on Chinese urban youth, most especially how the internet influences their support for the Communist Party. I will also analyze tactics the CCP is employing to maintain urban youth support for their authoritarian regime in a liberalized information age. These tactics include sophisticated censorship, direct and indirect propaganda and fostering legitimacy through economic success.

Barta, Kristen

An Animal's Life
Eaton 211, Session 4

One of Oregon's Newest Invaders: The Eurasian Collared Dove

This projects outlines the rapid expansion of the Eurasian Collared Dove across the globe, North America, and Oregon. In particular, it focuses on the effects of the bird on the economy and ecology of the state, and what can be done about the Eurasian Collared Dove and other invasive species.

Bennett, Jeffrey

Investigating Urban Water Issues in Salem, Oregon
Session 4, Eaton 412

Urban Water Management in the Battle Creek Water-Shed

Urban stormwater flooding and water quality issues pose increasing problems affecting property owners, disrupting habitats, and increasing local management costs. Increased development of urban areas adds to the total

volume of water and pollutants contributed to urban stormwater systems. Impervious areas from these developments provide for greater runoff and pollutants reaching the stormwater system during storm events. This study identifies ways to reduce flooding and increase water quality within the urban area located in the Battle Creek water-shed using four techniques; (1) Increased sinuosity, (2) riparian restoration, (3) greater shade coverage, and (4) urban green zones.

Block, Daniel

Antiviruses and Microbes: Software and Soil
Ford 304, Session 2

If You Can't Stand the Heat, Stay Out of the Hot Spring

Microbes thrive in virtually every extreme environment on the planet. Each microbe has preferred growth conditions, called cardinal points, of minimum, optimum, and maximum for each environmental parameter. I investigated the optimal temperature requirements and defined the cardinal points of microbes found in soil from local compost and a California hot spring. Soil samples were diluted and incubated at medium (37°C/98°F) and high (50°C/122°F) temperatures. Twenty-four colonies were isolated, subcultured, and identified using culture-dependent biochemical and microscopic methods. The cultures were also incubated at low (5°C/41°F) and very high (70°C/158°F) temperatures to establish thermal tolerances. Most cultures produced capsules and were aerobic, with about half producing spores, and evenly split between Gram negative and positive. Six cultures were eurythermic, exhibiting a wide range of temperature tolerances.

Blodgett, Robert; Murphy, Eryn; Roseman, Ryan; Burns, Kathryn

Can Virtue Make Us Happy? The Art of Living and Morality
Ford 204, Session 3

Hoffe

Is happiness found through an external focus on accomplishing goals in the material world? Or is happiness fashioned through an internal focus on performing one's duty according to the moral standards of one's community (religious or secular)? Might happiness (eudaimonia) consist in taking personal responsibility for one's creative capacity to accomplish things that nature cannot

accomplish on its own? Might viewing virtue in terms of the origins of one's creativity rather than the external consequences of one's actions lead to an understanding of virtue that allows us to be human and happy?

Boehle-Silva, Kali

Life in the City
Ford 201, Session 5

The Last Act: Images from Nairobi's Matatus

This project reflects various images from the matatu system, the informal mode of public transport serving the city of Nairobi, Kenya. These reflections take the form of poems incorporating both physical moments in time and issues within Kenyan society, including development, public health, religion, and history. They capture various perspectives and places within both the city and the matatu system. This presentation will provide a brief introduction to the history of the matatu system in Nairobi and its cultural significance in Kenyan society. The presentation will then consider and discuss several poems written about various aspects of Nairobi's matatus in November 2009.

Brody, Ian

The Art and History of Music
Rogers Rehearsal Hall, Session 1

Brevity is the Soul of Wit: An Exploration into the Conception and Performance of Anton Webern's Cello Sonata (1914)

The objective of this project is to explore the music of the early 20th century composer Anton Webern, highlighting the depth of expression and beauty of a musical style that is often misunderstood. This project will explore specific compositional practices, such as extended instrumental technique, through a musical analysis of Webern's Cello Sonata. This project will also investigate how the philosophy and history of the Expressionist art movement relates to the aesthetic concept of the music. This oral presentation will be followed by a performance of the Cello Sonata.

Bullard, Daniel

Explorations in Music
Rogers Rehearsal Hall, Session 2

The Art of Vinyl: Analog Music Production in a Digital Age

In this presentation I will be explaining the process I went through in creating a 10" vinyl record of two Salem artists. In addition to getting a sampling of some of the music that was pressed, attendees will get an introduction to some of the concepts and discussions involved in analog vs. digital music production in some of today's music circles.

Clanton, Benjamin

Corporate Influences on American Life
Collins 205, Session 2

Hands-On Fun(ding): Are Children's Museums Open for Bu\$ine\$\$?

Despite an early aversion to corporate sponsorship, children's museums have become increasingly reliant upon special interests. In this project, I seek to explore the impact of these interests on children's museums and what the principal audience, children, make of these influences. Building upon previous work at A.C. Gilbert's Discovery Village, my findings reveal new insights into the creative agency of children and the ideologically charged area of exhibition. In addition, I provide a rich history of children's museums, the impact they have had on traditional museums, and what the future may hold for these institutions.

Collins, Jeffrey

Molecular Approaches to Ecology
Collins 105, Session 3

Expansion and Decline of Southern California Populations of Yucca Brevifolia (Agavaceae)

Global climate change is expected to cause range changes and local extinctions, especially in species that are unable to migrate or adapt. Joshua trees (*Yucca brevifolia*) are at great risk of local extinctions; this is of concern because they are an integral part of the Mojave community. We studied nine sites in southern California with varying elevation and rainfall. Using population genetic data, we inferred which populations

have already begun to decline, which have remained stable, and which are expanding. By comparing these results to environmental data it will be possible to make more accurate forecasts of Joshua tree survival.

Collins, Wade

Games, Gaming, and 3D Media

Ford 201, Session 1

Practical Stereo Imaging -- Another Dimension of Sight

Media in 3D is becoming more and more available to the everyday consumer. But what are the uses of 3D and stereo imaging outside of the entertainment industry? Does stereo imaging have a large presence outside of entertainment? This project will showcase the process and function of stereo imaging, as well as steps to create a practical version of stereo images. The methodology of the project will be discussed, and examples will be shown.

Copes-Gerbitz, Kelsey

Forest, Fish, and Farm: Research at Willamette

University's Zena Forest

Collins 105, Session 1

Zena Forest: Past, Present, and Future

This study characterizes the current structure and composition of four stands within the Willamette University Forest at Zena. Using this data, we are able to reconstruct the possible land use history of the individual stands and thus enhance our understanding of the history of the greater Zena Forest. These four stands, three oak savanna and one mixed forest, are a mere sampling of the ecologically significant habitat present at Zena Forest. The results of this study are vital to future restoration efforts, including both the maintenance and enhancement of these critical habitats.

Dahlberg, Brett

Views of Contemporary Eastern Europe

Ford 204, Session 2

Post-Soviet Developments in Latvia

Since its independence from the Soviet Union in 1991, Latvia has made significant progress toward democratic consolidation, but the country has also been hit especially hard by the current global economic crisis, suffered a collapse of its government in January 2009, and has struggled to integrate national minorities

into its political and educational system. This presentation will examine Latvia's post-Soviet trajectory in terms of its political, economic and social developments, offering an assessment for the future chances of democratic consolidation, economic prosperity and liberalization, and social integration.

Dahlberg, Brett

Nationalisms Examined

Ford 301, Session 5

Divergent Democratic Development in Latvia and Belarus

Despite strikingly similar situations at the moment of independence, Latvia and Belarus have taken markedly different democratic paths since their transition from Soviet republics to independent states. Democracy has solidified in Latvia, while President Lukashenka has consolidated Belarusian political power in the executive branch. I argue that this divergence is due to the countries' discrepant susceptibility to international pressure. Because of its historically shallow and incoherent nationalist movement, Belarus was highly likely to be swayed away from a democratic path by international forces, while Latvia's comparatively well developed and historically rooted nationalism made it more likely to hold a steady course.

Davidson, David

The Individual Writing from the Fringe of Culture

Ford 304, Session 1

Edward Abbey's Middle Path: Spirituality, Individuality and Community in Desert Solitaire

While Edward Abbey is typically thought of as a "nature writer," this presentation argues that his body of literature is best understood as a discussion of the nature of human community. I find that the famously curmudgeonly author believes in a perfect and idealized sort of community that is almost spiritual in nature: a blurring of the concepts of "individual" and "community." Abbey, however, fails to reach his goal, and I argue that *Desert Solitaire* is the story of his attempts to move beyond his own individualist tendencies to attain perfect community.

Dickey, Emily

Biomedicine Examined: Cross-cultural Perspectives
Eaton 106, Session 1

Personal Perspectives on Biomedicine: an Exploration of Accessibility to Care, Personal Agency, and Attitudes Towards Treatment

This project explores the spread of Western-based biomedicine into non-Western regions of the world through the use of the ethnographic interview process. By analyzing one elderly Chilean woman's experience with a pacemaker installation surgery the project will address issues such as patient advocacy, the efficacy of various medical systems, the economic and political grounding of health care in socialist versus capitalist countries, and how individuals interpret and internalize their own medical histories. The project provides an analysis of the positives and negatives of biomedicine on a structural level through the lens of the patient's perspective.

Dilli, Caitlin

Molecular Approaches to Ecology
Collins 105, Session 3

A Molecular Approach to Identifying Yucca Moths

Polymerase chain reaction-restriction fragment length polymorphism (PCR-RFLP) provides an inexpensive and rapid detection of polymorphisms between species. PCR-RFLP is especially useful when species are morphologically similar and occupy the same area. This project focused on using PCR-RFLP methods to identify thirty species of yucca moths. Polymorphisms between species were identified, and restriction enzymes were determined for all yucca moths. Restriction digestion was performed on ten species. The results of this project provide a template for future scientists identifying yucca moths.

DiNovi, Sara

Forest, Fish and Farm: Research at Willamette University's Zena Forest
Collins 105, Session 1

Environmental Education at Zena Forest

This project is intended to combine wetland restoration and environmental education at Zena Forest. A restoration plan is being designed along with a curriculum for Willamette Academy

students to become involved in beginning in May. It is going to be a long-term project designed for a group of about 90 students, and the goal of the project is to foster appreciation and concern for the environment.

Donaldson, Emily; Scott, Kelsey

Blurring Lines: Relationships Mediated by Cultural Identity in British Fiction
Ford 102, Session 2

Navigating the Spectrum: Cultural Hybridity, its Manifestations, and its Effects on Relationships in the Contemporary Literature of London's Bangladeshi Diaspora

This paper examines the themes and problems surrounding the development of identity in the characters of Brick Lane by Monica Ali and Life, Love, and Assimilation by Kia Abdullah. Ali and Abdullah are some of the very first published authors of London's Bangladeshi diaspora—one of the newest and largest immigrant groups currently living in London. Through the lens of Homi K. Bhabha's theories of hybridity and Stuart Hall's assertion that identity is an unfixed "process," this project studies the ramifications of migrancy, hybridization, and the diasporic experience on the lives and relationships portrayed in these novels.

Dougal, Michael

Corporate Influences on American Life
Collins 205, Session 2

Is Corporate PAC Money Legalized Bribery?: A Model of Corporate PAC Resource Allocation and its Impact on Roll Call Voting in Congress

This paper examines the rationale behind corporate Political Action Committees' (PACs) donation strategies and the impact of corporate PAC contributions on key votes in Congress. First quantifying alternative reasons for corporate PAC contributions, such as electoral support for an ally or rent paid to a powerful representative in order to maintain access, the paper then attempts to measure the legislative impact of contributions made for the sole purpose of influencing a representative's roll call vote. The objective of this paper is to determine whether such contributions, which the paper argues are legalized bribery, impact representatives' voting behavior.

Drofyak, Nelya

Biomedicine Examined: Cross-cultural Perspectives

Eaton 106, Session 1

Drofyak Family Model: Complexity of Mental Health Among Older USSR Immigrants

The fall of the U.S.S.R. around 1990 provided new opportunities for many religious Ukrainians to avoid persecution by immigrating to the U.S. The Drofyak family represents such immigrants and was the primary focus of my ethnographic research throughout 2009. My current theoretical research expands on multidimensional issues raised from my ethnographic research. Specifically, factors that have influenced former older U.S.S.R. immigrants' concepts of mental health and medicine are analyzed through the academic lens of medical anthropologists Byron Good and Mary-Jo Delvecchio Good Interpretive theory. Understanding divergent medical influences between the former U.S.S.R. and the U.S. will greatly improve physician-patient interactions.

Dunne, Jonnie

Food and Agriculture in the 21st Century
Eaton 307, Session 1

Effectiveness of Winter Cover Crop Treatments in Suppressing Weeds

Agroecology is the application of ecology to the improvement of agricultural productivity. This involves the use of organisms and relationships in place of chemical inputs and machinery. One example is the use of winter cover crops in order to reduce weed pressure. I measured weed pressure in cover crop trials to determine which treatment best suppresses weeds. Preliminary results indicate that a mixture of rye & vetch allow fewer weeds to grow than vetch or fallow ground. This may be used with studies conducted in parallel to determine the most appropriate cover crop treatment for a given farm.

Dunne, Jonnie

Food and Agriculture in the 21st Century
Eaton 307, Session 1

Are You Buying What They're Selling? Food Retailers' Perspectives on Local Food in the Willamette Valley

In response to consumer demands and market potential grocers are increasingly sourcing and marketing local foods. Given the frequency

that consumers shop at grocery stores and the portion of food expenditures at these locations grocers may play a role in the success of local agriculture and shaping of ideology about what is 'local'. We conducted 27 semi-structured interviews with representatives of food retailers in four major urban centers in the Willamette Valley. Our results reveal that grocers' perspectives on local food vary significantly from each other and in comparison to published literature on consumers' and producers' ideas of what constitutes local.

Eldred, Paul; Vinyard, Kyle

Gendered Representations and Struggles
Hatfield Room, Hatfield Library, Session 4

Sexuality, Religion, and the Law

The debate over gay rights has often taken the form of political disagreement between the "Christian Right" and the "Secular Left". We aim to examine the issue of gay rights in less explored arenas such as the support for equality from the Christian left and the evolving gay marriage battle in the courts of law. This will allow for a deeper understanding of all sides of the issues by looking beyond the two points of view that have monopolized the debate in the eyes of the mainstream media.

Enzminger, Molly; Wurster, Melissa

Friendship and Film in the College Experience
Eaton 412, Session 2

Understanding College Adjustment: New Relationships Versus Old Friends from High School

Growing interest in the transition from high school to college has begun to focus on the social transition as one of the key challenges in adjusting to college. The goal of this study is to investigate differences between college and pre-college friendships. Participants reported feeling closer to their non-college friends, even though they saw them in person much less than their college friends. Correlations were found between feelings of closeness and various methods of communication for both college and pre-college friends. As satisfaction and belongingness with college increased, so did closeness with college friends.

Esser, Gabrielle

Biomedicine Examined: Cross-cultural Perspectives

Eaton 106, Session 1

The American Dream Embodied in Biomedicine from Mariel to PCH: An Illness Narrative

This research examines a personal account of patient agency and access to care in the American biomedical health system. Health and access to care are affected by a wide array of structural, political, economic and cultural factors. This study focuses in the medical treatment experiences, disease significance, and theories of disease causation of an HIV positive, transgendered informant who migrated from Cuba to the United States as a refugee on the famous 1980 Mariel boatlift. Analysis is based on a synthesis of interview and discussion using medical anthropological theory to examine the inclusivity and accessibility of the American medical system.

Faricy, Morgan

Cultural Integration Within and Beyond Asia
Ford 302, Session 1

Betwixt and Between: China's Efforts to Confront Global Warming in the 21st Century

Global warming, as implied by the name, is a global issue requiring a global solution. Although technology will play an integral role in reversing the trends of global warming, the main impediments are political and ideological. This presentation explores China's efforts to reverse the trends both within its own borders and abroad, as well as face the political issues of developing nations' responsibilities versus developed nations' responsibilities of finding a solution and taking action.

Fearnside, Eilene

The Evolution of Gender Representation in Asian Media

Collins 210, Session 5

A Quiet Life: the Resurgence of Traditional Gender Roles in Japanese Cinema

This presentation seeks to illuminate the struggle between conventional and modern representations of family gender roles in modern Japan. This research examines selective illustration of traditional Japanese gender roles in contemporary Japanese cinema. It also

discusses the means by which the cinematic tropes relate to gender in contemporary film, and explores the relationship between cinematic depiction of gender norms and cultural formations of gender in Japan.

Gallegos, Heather; Davidson, David; Eichner, Maureen; Tallent, Gabriel

The Individual Writing from the Fringe of Culture
Ford 304, Session 1

Queering Gender and Then Some: An Intersectional Look at Stone Butch Blues

This presentation will examine how intersectionality theory relates to Judith Butler's gender performativity theory in the novel *Stone Butch Blues* by Leslie Feingberg. Jess defines her own existence with an essentialist point of view. However as she struggles with how to define her gender identity within the confines of the strict binary system (man or woman), other aspects of her being, including sexuality, class and race influence how she goes about performing her gender, proving to remove her experiences and own identity away from the essentialist perspective.

Geck, Amanda L.

Gendered Representations and Struggles
Hatfield Room, Hatfield Library, Session 4

Differences in Couple Representation Between Men's and Women's Magazines

This study was a content analysis on 10 mainstream men's and 10 mainstream women's magazines. Any mention of a couple within an article, advertisement, or image was coded for the tone towards being a couple and what the genders of the people within the couple were. A tally of how many mentions of couples and of birth control was also taken. It was hypothesized that there would be more mentions of couples, that these representations would be more positive, and that there would be more mentions of birth control within the women's magazines as opposed to the men's magazines.

Gilmore, Shonnessy; Blahnik, Gabriele

Examining Efficacy: Homeopathic and Chinese Medicine

Eaton 211, Session 2

A Comparison of Homeopathic Remedies to Antibiotics for Microbial Control

Increasing antibiotic resistance has contributed to the rise in "super bacteria" and untreatable

infections. This constitutes a threat to public health. Two homeopathic agents, Tea Tree Oil and Oil of Oregano, were compared to the inhibitory effects of known antibiotics. Tea Tree Oil and four major components were tested on *Staphylococcus aureus* and *Staphylococcus epidermidis*, from both laboratory stocks and natural sources. Oil of Oregano and two major components were tested on *S.aureus*, *S.epidermidis*, *E.coli*, and *Enterococcus faecalis* from laboratory stocks. Tea Tree Oil showed comparable results to antibiotic treatments, and results from Oil of Oregano indicated stronger inhibition than all antibiotics tested. As antibiotic resistance becomes more prevalent, studies should be done to identify alternative therapies.

Giombolini, Katlyn

Food and Agriculture in the 21st Century
Eaton 307, Session 1

From Turf to Table: (re) Transitioning from Grass Seed Production to Edible Grain Production in the Willamette Valley

The Willamette Valley has a history of rich agricultural production and a vibrant local food movement. Recent declines in grass seed markets and an increasing interest in buying local grains has resulted in the possibility of transitioning grass seed land to edible grain production. Through the use of GIS, I determined that if we converted all our grass seed land to edible grain production, we would meet the recommended grain needs of the Willamette Valley population more than twice over. Interviews with local farmers were used to illustrate how we might begin to transition towards a more localized food system.

Godwin, Caitlin

Experiencing Asia: Student Exporations and Discoveries
Collins 201, Session 1

Discovering Japanese History Through its Museums

This project explores how the Japanese present their version of history through one of the most widely accessed sources of historical information, its museums. I will discuss how the bombings of Hiroshima and Nagasaki are presented in Japanese versus English. The research for this project involved translating each museum's exhibits on the bombings, and comparing these English translations with the

translations given in the museums for foreign visitors. I will explore how the differences and similarities in these translations reveal the political and cultural biases of each museum.

Gonzalez, Ciara

Investigating Urban Water Issues in Salem, Oregon

Session 4, Eaton 412

Anthropogenic Stream Disturbances to Mill Creek in Salem, OR

Harnessing the power of water has been key to the industrial development of Salem from the first Missionaries in 1840 to present time. The purpose of this project is to explore the use of Mill Creek located in Salem, OR and to address the environmental changes that have occurred as a result to the ecosystem. This project seeks to analyze the various non-point sources that have impacted the shape of the channel and transformed it by using aerial photography and GIS. The results of this study will be discussed.

Grael, Katherine

Food and Agriculture in the 21st Century
Eaton 307, Session 1

Ethics or Economics: Why is the Organic Sector in Mexico Growing?

In Mexico, agricultural land is switching to organic production at a rate twice that of the United States. This inspired the question, why is the organic sector in Mexico increasing so rapidly? To address this question I conducted research in Guanajuato, Mexico at three different organic agriculture farming systems, observing their methods, and interviewing the growers about their decisions in choosing to grow organic. While the research presented cannot conclusively answer the question posed, it does offer several distinct voices and insight into the life decisions for pursuing a vocation involving organic agriculture.

Green, Michael Jared

The Sun & Stars

Collins 210, Session 2

Summer Research at Pine Mountain Observatory

Variable Stars are stars that undergo periodic changes in their brightness. A plethora of information can be obtained on these objects through the capturing and reducing of CCD

images. This summer Professor Richard Watkins, Jared Green and Nicholas Rebol received a crash course in differential photometry at the 2009 Pine Mountain Observatory (PMO). Under the lead of Astronomy buff Richard Berry (who literally wrote the book on Astro-photometry) our team collected data on the variable star XX Cygni that supported the finding that the period of XX Cygni increases by 1 part in $10^{(8)}$ every year.

Gronowski, Benjamin; Dickey, Emily

Take-a-Break: Willamette's Alternative Spring and Winter Break Program
Eaton 307, Session 4

Tab Chicago

Tab Chicago will explore the complex intersection of inequality, immigration, and urban life. By examining the structural causes of these inequalities through service work and conversation, Tab participants will gain a better appreciation for the challenges immigrants face in a major metropolitan area.

Gutzler, Benjamin; Kitts, Jeffrey

An Animal's Life
Eaton 211, Session 4

Barack and the Birds: A Study of Human Face Recognition by Crows

Crows have long been known as one of the most intelligent groups of birds. Anecdotal evidence has historically pointed to the possibility that crows can recognize individual human faces, and learn who is trustworthy and who to avoid. However, only recently has any research been conducted to test these claims. Work done at Willamette in the last year has tested whether American crows (*Corvus brachyrhynchos*) can recognize the faces of "friendly" individuals. To establish us as "friendly" to the crows, we wore masks of Barack Obama and fed crows peanuts. After an acclimatization period, we hypothesized that if given a choice, crows would preferentially feed from the person wearing the familiar, "friendly" Obama mask, instead of a neutral face. Our results help show that crows are capable of recognizing benevolent individuals from other species, and further establish the crows among the ranks of the planet's most intelligent species.

Harper, Hannah; Kwiatkowski, Carley; Olsen, Marie

Music, Textiles, & Vampire Stories: Doing African Cultural History
Ford 204, Session 1

Innovation and Authenticity: Textiles in Mali

This presentation exemplifies how African historians trace the changes of cultural expressions to understand history's progression. Bogolan, a commercialized textile sold in Mali, popular in tourist markets, coexists with its original form, bogolanfini. The differences in the related textiles demonstrate how cultural expressions interact with their producers and the audiences for which they are created. Questions about what is authentic bogolan versus what is innovative, artistic bogolan arise in this textile's biography.

Harper, Hannah; Kwiatkowski, Carley; Olsen, Marie

Music, Textiles, & Vampire Stories: Doing African Cultural History
Ford 204, Session 1

Speaking With Notes: Realizing "Angola" Through Music (post WWII-1975)

This presentation will use Marissa J. Moorman's monologue, "Intonations: A Social History of Music and Nation in Luanda, Angola, from 1945 to recent times", as a foundation to illustrate the ways in which music – as a form of cultural expression – was not merely derivative of, but productive of political imagination for Angolan colonial subjects. An analysis of Moorman's monologue will serve to recover the hegemonic historical narrative of Angola by drawing on the voices, lyrics, and melodies of urban Angolan colonial subjects as the primary lens through which to view Angola's history.

Harper, Hannah; Worthing, Sarah; Kwiatkowski, Carley; Olsen, Marie

Music, Textiles, & Vampire Stories: Doing African Cultural History
Ford 204, Session 1

Rumor, Gossip, and Blood: Vampires in Colonial Africa

Throughout Kenya, the Congo, Uganda, and Northern Rhodesia (known as Zaire today), vampire stories were told and retold as forms of rumor and gossip throughout the first half of the twentieth century. However, unlike western depictions of vampires as fanciful myth, vampire

stories in an African context offer profound insight into the colonial history of the region. Vampire stories serve as a means in which Africans discussed, debated, theorized, and explained social and economic changes that were instigated by colonial advent. Utilizing rumors of vampires as legitimate historical sources, we can reconstruct African perspective on changing gender roles, the influence of wage laborer, and response to colonial control and extraction mechanisms.

Harper, William

The Social Construction of Sustainability and Time
Collins 201, Session 2

Time Famine: From Portland to Paris, The Causes and Consequences of The Way We Work

The ways we work are changing. So profound are the issues of increasing working hours and decreasing work/life separation, among many others, that businesses, governments, individuals, and popular movements are responding in powerful ways. So as a case study of how these issues play out cross-culturally, I went to work in the kitchen of a small restaurant in rural eastern France. This presentation will look specifically at how the workers there were able to live out their passions in their work, as well as what the time trade-offs they make every day mean for their lives at large.

Harrison, Lynsey

Courtesy, Crime, Chimeras, & the Count:
Explorations of Popular Figures in Classical Literature
Collins 205, Session 1

The Undead and the Living God: How 19th Century Vampire Literature Reveals the Victorians' Evolving Conceptions of the Nature of God

An investigation into how 19th century vampire literature reveals the evolving religious beliefs of 19th century Britain. This presentation will examine Polidori's "The Vampyre," Le Fanu's "Carmilla," Stevenson's "Olalla," and Stoker's Dracula in terms of the underlying religious beliefs revealed by how vampires are depicted in each story. *„i_ek's* concept of belief before belief will also be used to understand how practice

and belief interact in these texts. Using these explorations, it will then be possible to draw conclusions about how and why vampire fiction has experienced windfalls in the 19th and now the late 20th and early 21st centuries.

Harwood, David

Antiviruses and Microbes: Software and Soil
Ford 304, Session 2

Network Intrusion Detection at Willamette University

The purpose of this project is to set up intrusion detection software on Willamette's network. As the importance of computer security has grown in recent years, so has the importance of detecting possible intrusions into computers, often combined with other software to create programs such as antivirus or firewalls, but just as often standing on their own. The project focuses on adding another layer of defense to Willamette's network, and creating documentation for the administration and maintenance of the intrusion detection system. General background, procedures, and results will be discussed.

Heck, Patrick

Nervous: Researching the Brain & Neural Communication
Collins 105, Session 5

Scanning Brains and Reading Minds: Decoding Vision Using Neuroimaging

This study made use of two common neuroimaging techniques to read and decode simple human thoughts. Using Functional Magnetic Resonance Imaging (fMRI), Electroencephalography (EEG), and Event-Related Brain Potentials (ERP), the purpose of the study was to successfully predict whether a participant was looking at dot patterns moving to the right or to the left based solely on recorded neural response patterns. It was concluded that fMRI is effective in decoding and predicting motion perception, while EEG/ERP technology requires further methodological examination. Results and implications will be discussed, including commentary on mind-reading through brain scans.

Henry, Jason

Ancient Studies
Eaton 307, Session 2

Examining the Role of Colluvial Processes and Slope Movement in the Distribution of Archaeological Materials.

This study examines the role that dynamic slopes play in the post-depositional transport of archaeological material within a landscape. Utilizing data on colluvium sediment package depth and surface scatter location collected during archaeological investigations in the Sangro Valley, Abruzzo, Italy, a model depicting the general characteristics of slope movement in the valley is developed. This model is used to predict the location of cultural activity areas within the context of the valley based on the current position of archaeological surface scatters. The development and archaeological application of this model will be discussed.

Hill, Cameron

Friendship and Film in the College Experience
Eaton 412, Session 2

Revelations on Serenity

This project is an exploration concerning the personal freshman year experience at Willamette University through photography. The project came from a personal desire to document the experience in an artistic manner. The video is divided into two sections. The first documents, in chronological order, the experience while the second is a more abstract artistic expression using photography. The video is supposed to represent a singular narrative on the experience which is why the video is in monochrome. In the second part of the video I wanted to explore the notion of the “self” and see how the concept relates to ourselves and how we interpret the world around us. The main theme running throughout the video is the concept of serenity.

Hines, Joseph

College Colloquium Research
Ford 102, Session 1

The British Reception to Alexis de Tocqueville

This paper argues that the reception of Alexis de Tocqueville’s *Democracy in America* in Britain changed over the course of the 19th century as the British political climate itself changed. It examines intellectuals’ misinterpretations of *Democracy in America* in British journals

and newspapers and argues that it indicated both their partisan biases and their preexisting ideas about American democracy. Although Tocqueville wrote to provide an accurate picture of democracy to Europe, it took fifty years for an accurate understanding of his work to emerge.

Ho, Stephanie

Nervous: Researching the Brain & Neural Communication
Collins 105, Session 5

A Genetic Screen to Identify Genes Required for Axonal Transport

Neurons use a microtubule-based transport system to bidirectionally transport proteins, vesicles, and organelles between the cell body and the synaptic terminal through the axon in a process called ‘axonal transport’. Disruption of axonal transport is thought to result in a number of neurodegenerative disorders in humans. We performed a genetic screen in the fruit fly *Drosophila melanogaster* to identify genes required for axonal transport. We have mapped twelve mutations from this screen to different loci on the third chromosome through complementation analysis against *Drosophila* with defined chromosomal deficiencies. Our analysis thus far has identified a seven candidate genes within these loci.

Hoecker, Tyler; Olnes, Justin

An Animal’s Life
Eaton 211, Session 4

Grizzly Bears and the Ecology of Roads in Northern British Columbia

Grizzly bears, along with other large predators, often lose habitat as humans encroach on their ranges. Scientists now know that animals such as the grizzly can not only act as keystone species but also be strong indicators of ecosystem health. We sought to evaluate the initial affects of human encroachment on frontier wilderness by studying *Ursus arctos horribilis* along roads in the Muskwa Kechika Management Area of British Columbia. The MKMA was chosen as the study area because of its high habitat quality and its potential for development and resource extraction. We initially observed grizzly activity along roads within the MKMA by conducting 1 km long, line transects. We additionally traveled the entire length of each transected road. This data was supplemented with information gathered from local government employees and

land managers. Our results show that the grizzly bear does use the roads for foraging as well as for corridors. Although there is some human-bear conflict, the resulting mortalities are not high enough to put the grizzly population at risk.

Hoffman, Claire

College Colloquium Research

Ford 102, Session 1

Parts and Wholes: “Things in Themselves” and Unity within the Novels of Virginia Woolf

In this project, the modernist aesthetic ideals of “things in themselves” and “significant form” are used as ways to conceive of Virginia Woolf’s unconventional portrayal of relationships in the novels *Mrs. Dalloway*, *To the Lighthouse* and *The Waves*. It discusses the tensions in the way Woolf conveys separation both as a way to preserve one’s self-integrity, necessitated by the characters’ inability to see one another “in themselves,” and as something that does harm by obscuring the presence of underlying unity that connects Woolf’s characters into all-encompassing wholes. It attempts to resolve this tension by relating the nuances of the relationships in Woolf’s novels to the aesthetics of visual art, in which distinct “lines and colors,” or her characters, unite to create “significant form,” or, in this case, unified wholes.

Holdreith, Grace

History from the Bottom Up; Bodies, Medieval and Modern

Eaton 211, Session 1

Ascetic Asylum

This paper explores the idea of extreme ascetic practices of medieval women as means of creating asylum. Ascetic practices, such as fasting and self mutilation, gave women power to manipulate their environment to create a safe space within a society that was often violent and biased against women.

Hollowed, Thomas G

An Animal’s Life

Eaton 211, Session 4

Population Dynamics in Pacific Cod

As a volunteer intern at the Alaska Fisheries Science Center in Seattle, WA, I participated in a research project which aimed to distinguish genetic variability in distinct populations of Pacific

Cod within the Alaskan Bering Sea. The findings of this project may have major implications in the management of Pacific Cod stocks in the Bering Sea.

Houle, Jennifer

Diet, Endurance, and Disease

Ford 201, Session 3

Obesity Induces Cardiac Arrhythmias: Role of Cardiac Sympathetic Nerves

Obesity is linked to an increased incidence of cardiac arrhythmias. However, the mechanism by which this occurs is unknown. This project tested the hypothesis that increased sympathetic innervation—resulting from elevated cytokine levels due to obesity-induced systemic inflammation—was responsible for the increased incidence of cardiac arrhythmias. Using a diet-induced model of obesity in rats, it was determined that obese rats were more likely to develop arrhythmias than lean rats. However, immunocytochemistry and RT-PCR indicate that obese rats do not have increased innervation. Therefore, heightened sympathetic innervation is not responsible for the higher incidence of cardiac arrhythmias in obese individuals.

Irving, Sean

Philosophy

Eaton 412, Session 1

Wittgenstein

This paper will consider the assertions made by Wittgenstein in section fourteen (and the surrounding sections) in his work “Philosophical Investigations.” It will focus primarily on two subjects. First it will suggest that saying all tools modify something is not such a strange statement. Second this paper will suggest that we should in fact attempt to find what it is that all tools have in common, although it would not be possible to work that knowledge into the vernacular.

Janssen, Kristine

The Art and History of Music

Rogers Rehearsal Hall, Session 1

Sonorous Sexualities: Implications of Gender Characterization in Opera

This presentation explores gendered representations across the opera canon and how it resists (or perhaps has served as a site for) progressive sexual dynamics and performance.

Supplementing Gender and Ethnic Studies analysis with live opera performance examples, this presentation invites a critical approach to today's opera culture and practice.

Janssen, Kristine; Southorn, Debbie

Take-a-Break: Willamette's Alternative Spring and Winter Break Program
Eaton 307, Session 4

TaB Portland

TaB Portland seeks to explore the complexities of homelessness in Salem and Portland. The trip will focus specifically upon homelessness as it affects LGBTQ youth, exploring the factors causing this crisis and local & national responses.

Johnson, Susan

Themes in Art History: Mirrors, Landscapes, Socrates, and Outsider Fantasy
Ford 102, Session 4

Nicolas Poussin and "Ut Pictura Poesis": Transcending Classical Landscape

A traditional reading of the seventeenth-century French painter Nicolas Poussin designates him as a History Painter—acclaimed for his monumental and classicizing figure-based works. However, a consideration of Poussin's many landscapes demonstrates that throughout the course of his career, his paintings reveal an increasing interest in scenes in which human-based subject matter is gradually made secondary to landscape itself. In his late works, Poussin uses history painting as a vehicle to depict nature as a primary subject. With these works, Poussin transcends the acknowledged genre of classical landscape—a tradition first established by Annibale Carracci— by use of his personal interpretations of nature in accordance with "ut pictura poesis"—"as is painting so is poetry."

Jones, Evan

Chemistry Research Presentations
Ford 122, Session 4

Synthesis of Biopolymers with Mutable Physical Characteristics

Biocompatible polymers have promising bioassimilability and degradation properties. Previous coupling between two monomers (such as A and B) leads to random sequence polymers (e.g. ABBAABBBAAB), which have variable physical properties along their length. Research performed this summer developed a technique

to build polymers with specific sequences (e.g. ABABAB), in which physical properties are uniform throughout the polymer. Further work to incorporate cysteine, an amino acid with a reactive side-chain, will increase the utility of these polymers for biomedical approaches.

Jones, Megan

Violence in the Home
Eaton 425, Session 2

Personality as a Moderating Variable in Coping Styles: Contextualizing "Successful" Coping Among Survivors of Sexual Assault and Domestic Violence

Past research has explored personality traits as predictive factors of coping with general and task-induced stress. Personality traits, however, have not been explored as predictive factors of coping with the trauma associated with gendered violence. In the present study, 10 clients at a women's crisis service participated. Surveys consisted of the Myers-Briggs Type Indicator, the revised Ways of Coping Checklist. Results indicated that extroverts, sensors and thinkers were found to use engagement coping strategies and introverts, intuitors and feelers were found to use disengagement coping strategies. It is suggested that the present study be replicated with a larger sample size.

Jones, Stephanie

College Colloquium Research
Ford 102, Session 1

Weighted Pebbling Numbers: A Battle of Wits Against an Evil Opponent

The pebbling game is played against an evil opponent by moving pebbles around the vertices of a graph. The player attempts to move a pebble to a designated target, while the evil opponent places the pebbles to thwart the player. Previous research found the number of pebbles needed to guarantee a win by the player on various boards. Our research allows the player to alter the board before the game starts. In this talk we discuss how the player's strategy is effected by this new rule, and find the player's best strategy for a few specific game boards.

Kalama, Wailana

The Evolution of Gender Representation in Asian Media

Collins 210, Session 5

Space of the Other: Sexual Politics and Postcolonialism in the Novels of Marguerite Duras

This project investigates the texts of Marguerite Duras in a postcolonial context—her intentions and her effects. It will examine how Duras despite her hybrid background is a successor to the thread of imperialistic writing of French expatriates. In her self-proclaimed mission to liberate the female Other in literature, she marginalizes the greater Asian Other, isolating only the specific image of the white, female pied-noir. The project will discuss the two novels *L'Amant* and *Un Barrage contre le Pacifique* and how they portray male and female Durasian icons.

Kantrowitz, Katie

Religious Symbols: the Bible and the Veil
Ford 301, Session 2

The Scripture of Solitude: Gabriel García Márquez's "100 Years of Solitude" and the Bible

This project posits Gabriel García Márquez's "100 Years of Solitude" as a reinterpretation of the Judeo-Christian Bible in a distinctly Latin American paradigm. "100 Years of Solitude" functions as the narrative of a nation told through the lens of a particular family's story; similarly, the Bible frames the story of the nation of Israel as the history of the descendants of the patriarchs. Combining direct and indirect allusions and parallels to the Bible with regional history and literary traditions, the novel creates a uniquely Colombian epic – a treatise of isolation in "the land that no one had promised them."

Koll, Christopher

Chemistry Research Presentations
Ford 122, Session 4

Computational Modeling of a Coordination Chemical Model of Pyrite

Early earth (pre-biotic) chemistry is important to understanding the origin of life. Recent discovery of reduced iron-sulfur surfaces provides evidence for the role of iron-sulfur systems in the conversion of abundant pre-biotic molecules into simple organic molecules. Because recreating early earth conditions in the laboratory

is challenging, the use of computational chemistry can assist in understanding the pathways toward the formation of the building blocks of life. Using molecular graphing tools, a computational model was built to recreate the pyrite surface used in experimentation. The findings present a promising new approach for generating molecular computational models for periodic iron-sulfur surfaces.

Krow-Boniske, Rachel

Resistance & Antiracism Praxis: Applying Ethnic Studies Theory for Social Change
Hatfield Room, Hatfield Library, Session 1

Education as the Practice of Freedom": An Exploration into Transformative Pedagogy and Anti-Bias Education

Children begin to learn and internalize racist ideas and practices between the ages of two and five, and these racist attitudes are supported and perpetuated within our current education system. Anti-bias education challenges commonly utilized superficial multicultural education that solely celebrates holidays and "contributions" from different races to white society. Instead, anti-bias education empowers students to recognize structural inequalities, understand their historic formation, and work towards challenging/eliminating them. This presentation explores anti-oppression curriculum and pedagogy of educators who are striving to transform their classrooms and schools into liberatory spaces for young people.

Kudroff, Kachina

Sex Education: Models and Behavior
Ford 302, Session 2

The Effects of Locus of Control in the Relationship Between Sex Education and Sexual Behavior

This project sought to investigate the relationship between sex education and sexual behavior and proposed a model in which locus of control acts as a mediator in this relationship. 140 students in an introductory psychology course were surveyed about their experiences with sex education, their sexual behavior, and completed measures to determine their locus of control. While the results did not reveal support for the proposed model, valuable information was gained as to the nature of the relationships between sex education, knowledge, sexual behavior, and locus of control. These results and the conclusions drawn will be discussed.

Kummert, Nicholas; Miller, Barratt; Svenson, Kristen; Zane, Megan

Paradise Lost
Collins 201, Session 5

“To Hell or Connacht”: The Paradox of Rebellion in Paradise Lost

This paper examines the way in which Milton’s use of religious merit as a justification for legitimate rebellion in *Paradise Lost* reflects a paradoxical belief about rebellion in seventeenth-century England. Through Alan Sinfield’s Cultural Materialist theory of ideological faultlines, Nicholas Canny’s postcolonialist analysis of English imperialism in seventeenth-century Ireland, and a new historicist reading of Milton’s political writings on rebellion, I explore the relationship between Milton’s characterization of Christ, Satan, and Eve in *Paradise Lost* and seemingly contradictory understandings of merit and rebellion in the English Civil War and mid-century Irish uprisings.

Kummert, Nicholas; Miller, Barratt; Zane, Megan; Svenson, Kristen

Paradise Lost
Collins 201, Session 5

Eve as an Anti-Epic Heroine

This project was the result of an attempt to find an epic hero in John Milton’s *Paradise Lost*. Working in tandem with theoretical frameworks regarding the epic, it becomes clear that Eve is the closest Milton gets to employing a heroic figure in his epic. Why would Milton use a female character as his lead hero, and how does this play into our understanding of what it means to be “epic”?

Ledford, Kelsey

Historical Analysis for Understanding Contemporary Challenges
Collins 210, Session 1

From Local History to the Volstead Act: The Fight for Prohibition in Oregon

The development of the prohibition movement in Oregon is a topic that has not been examined in-depth since 1937, despite the fact that “dry” laws were enacted in certain counties as early as 1904, a full fifteen years before the passage of the 18th Amendment. By examining a variety of local newspapers, society minutes, court records and other government documents, I strive to create a comprehensive look at how groups like the Women’s Christian Temperance Union and

the Anti-Saloon League worked together and separately in their fight for statewide prohibition, and how saloon and brewery owners in Oregon fought back.

Lee, Judy

Experiencing Asia: Student Explorations and Discoveries

Collins 201, Session 1

A Journey Home

Immigration is a fascinating and complex subject. However, the effects of immigration on those left behind is not usually explored. I interviewed family members in Korea and tried to clarify their reasonings on why my family immigrated, whether they are citizens of Korea or the United States, and if there has been a change in their demeanor since the immigration. While researching these questions, I also found myself and returned home--to my home-land and learned about its history and its culture.

Leland, Hannah

The Art and History of Music
Rogers Rehearsal Hall, Session 1

“Platinum Spirals” Through Performance and Analysis

Commissioned by the National Endowment for the Arts and dedicated to the memory of her father, a geologist, Joan Tower’s “Platinum Spirals” was written for solo violin in 1976. Tower says of her own work: “Platinum is a mineral whose internal properties reveal a very malleable and flexible set of characteristics. It is said that an ounce of platinum can be stretched into a mile.” Tower realizes the concept of stretching through rhythm, scale patterns, and various string techniques. This presentation will explore these compositional methods and will conclude with a complete performance of the work.

Leng, Ju-Fang

Camassia (camas lilies): Genetic and Ecological Approaches
Ford 201, Session 2

Detecting Gene Flow Been Species of Camassia Using Microsatellites

Gene flow is the transfer of alleles between populations of organisms. While organisms typically reproduce within their own species, occasionally hybridization between different species occurs. Hybrid offspring may display

traits from both parents as well as novel traits, characteristics created by a specific genetic change. Natural hybridization is evident in *Camassia*, a genus of perennial flowering bulbs important in preserving biodiversity in oak savanna and wetland habitats. To understand gene flow and hybridization I used genetic markers called microsatellites to detect specific alleles within the DNA of *Camassia*. Indication of variation has been found in two primers tested thus far.

Leslie, Kerry

Environmental Determinants to Health and Reproduction
 Ford 302, Session 3

Heavy Metal Pollution, Oxidative Stress, and Autism

Prevalence rates of Autism Spectrum Disorders (ASDs) have drastically increased in recent decades. This project argues for a combined genetic-environmental cause for this increase. Literatures on ASD rates in areas of high pollution, biological evidence of heavy metal toxicity, and the presence of oxidative stress and decreased antioxidant activities in individuals with ASDs, and specifically autism, collaborate to provide support for a heavy metal-induced oxidative stress model of the disorder. This paper provides evidence for the hypothesis that fetal or infantile exposure to heavy metal containing pollution by individuals with biologically inhibited antioxidant functions results in the development of autism.

Li, Xun

Cultural Integration Within and Beyond Asia
 Ford 302, Session 1

Pills or Poke: A Comparison of Acupuncture and Zolof on the Treatment of Depression

This study will analyze the relative merits of the pharmaceutical Zolof and acupuncture with respect to the efficacy and safety of each treatment on insomnia. The purpose of the analysis is to present a thorough comparison of both methods and ultimately provide information useful in determining which treatment is best from the point of view of the consumer. "Best" is henceforth used to describe the method (either the pharmaceutical Zolof or acupuncture) that is the safest and most effective in the treatment of insomnia.

Liberatore, Sarah

Themes in Art History: Mirrors, Landscapes, Socrates, and Outsider Fantasy
 Ford 102, Session 4

The "I" in the Mirror: Convex Mirrors and Questions of Self-Awareness in Fifteenth- and Early Sixteenth-Century Flemish Painting

This study discusses the use of the convex mirror in early Flemish painting both as an item of visual interest and an artistic tool and posits a relationship between the mirror and early Renaissance ideas of individuality and self-awareness. Some conjecture is made as to whether the presence of the convex mirror in sixteenth-century Italian painting indicates an interest in these earlier Flemish paintings despite thematic variations. Both the practical and symbolic functions of the mirror are discussed in this study, as well as the mirror's ability to engage the viewer on a more personal, rather than purely visual, level.

Liebing, Richard; Hamar, Candace; Smith, Victoria; Wolfe, Heidi

Games, Gaming, and 3D Media
 Ford 201, Session 1

Root-a-bega: A Simple Introduction to Combinatorial Game Theory

Earlier in the year, a group of Willamette freshmen completed a colloquium called, "What's in a Game?" which explored the basics of combinatorial game theory. Their final project was to create a new game, one which had never been played or studied before, and analyze it from a technical and mathematical perspective. This presentation is a summary of their work, and will introduce the audience to basic combinatorial game theory, and then to Root-a-bega, the student's new game. Audiences will learn a different way to think about simple games, and some easy strategies for learning new ones quickly. They will also learn how to find "winning strategies" for some games they may be already familiar with. Finally, the audience will be shown how these strategies and ideas are applied to a new game when they are introduced to Root-a-bega. Audience participation will be encouraged!

Lomax, Dominique

Games, Gaming, and 3D Media
Ford 201, Session 1

Math and Popular Board Games

I am going to use Markov Chains to analyze how long on average it takes to win at popular board games.

Luecht, Jennifer

Religious Symbols: the Bible and the Veil
Ford 301, Session 2

Do Muslim Women Really Need Saving? An Analysis of the Western Conceptualization of Veiled Women in Algerian Colonial Postcards and Contemporary Images of Today

This project explores why the Islamic veil is seen as a threat to the 'Western' world, manifesting itself as a symbol of oppression. Embedded in the contexts of the controversial Algerian colonial postcards and contemporary images in the media today, the Islamic veil is a powerful symbol that can evoke blinding ethnocentric associations and false generalization; by employing a visual discourse of cultural texts, an analogous line can be drawn between the Orientalist ideals of the past and the Global Feminism of today.

Lugg, Mary

Forest, Fish and Farm: Research at Willamette University's Zena Forest
Collins 105, Session 1

Avian Biodiversity: Comparing Avian Richness and Diversity According to Stand Type at Willamette University's Zena Forest

Conserving diverse ecosystems and using sustainable forest management practices is critical in securing the future of diverse and rich avian populations as land cover changes are predicted to reduce the total number of avian species. I created a long-term avian monitoring program at Willamette University's Zena Forest to track the impacts of ecological restoration on avian populations. I conducted a baseline avian survey using point counts in different stand types during the non-breeding winter months to quantify species diversity and richness. My findings indicate medium avian evenness and diversity across habitats, the oak-savannah being the most productive.

Lutz, Katie

Subcultures and Countercultures
Collins 408, Session 1

Worth the Time or a Waste of Time: Homeless Youth and Public Education

This study performs a quantitative analysis of educational statistical data to determine if funding and public education programs are functioning to help homeless youth earn a high school diploma or an equivalent. Based on this data, public education programs are making progress in the effort to help homeless youth earn a high school diploma or an equivalent.

Lytle, Nikki

Nervous: Researching the Brain & Neural Communication
Collins 105, Session 5

Investigating the Function of Stathmin in Axonal Transport

In order for a nerve cell to function properly, proteins and chemical messages produced in the cell body must be constantly transported to the synapse. The neuron employs motor proteins to carry these cargos along tracks of microtubules through the axon. I investigated the role of stathmin, a protein required for axonal transport that regulates microtubule dynamics. Loss of stathmin function in *Drosophila* results in axonal transport defects, altered neuronal excitability, and paralysis. In order to understand the function of stathmin in axonal transport, I created three transgenic strains of *Drosophila*, each carrying different inducible stathmin transgenes: a fluorescent-tagged stathmin, a dominant-negative mutant stathmin, and a wild-type stathmin. The results of my research with these transgenic strains will be presented.

Marsalli, Lydia

Violence in the Home
Eaton 425, Session 2

Domestic Violence Within Low Socioeconomic Status Groups: The Role of Linguistic Sexism, Stereotypical Gender Roles, and Structural Marginalization

The present argument examines the socio-cultural factors that may facilitate domestic violence in low socio-economic status (SES) groups. Research is presented that demonstrates the affects of linguistic sexism on sexist beliefs and behavior. Additionally, it is shown that a desire to fulfill stereotypical

notions of masculinity can incite violent behavior toward women. A discussion of structural marginalization reveals that individuals from low SES backgrounds experience a reduced sense of personal power. It is therefore argued that discriminatory language, stereotypical gender roles, and diminished public power maintain a significant role in the occurrence of domestic violence in low SES populations.

Martin, Colleen

Courtesy, Crimes, Chimeras, and the Count: Explorations of Popular Figures in Classical Literature
Collins 205, Session 1

Quite a Three Pipe Problem: Sherlock Holmes' Motivation and Plot

Sir Arthur Conan Doyle's famous detective has long been seen only in the light of the genre of detective fiction. By examining structural elements of character and plot, I propose that Holmes' motivation, its relation and effect on the storyline are much more complex than many critics of the popular character and his mysteries ordinarily recognize. Using the example of "The Adventure of the Dancing Men," I argue that Holmes' motivation drives the plot.

Martin, Kathryn

Up Above My Head: A Choral Experience
Hudson Hall, Conducting Session
Up Above My Head: A Choral Experience

As part of my major, it is required that I conduct a piece of music with the Chamber Choir. I am presenting to you the final result of my conducting internship. This piece is a spiritual titled "Up Above My Head," arranged by Randal Swiggum, performed by the Willamette University Chamber Choir.

McCartan, Alison

Gendered Representations and Struggles
Hatfield Room, Hatfield Library, Session 4
"Forward Out of Error, Forward into Light": Hunger Striking, Force-Feeding, and Historiographical Oversight in Three Women's Suffrage Movements, 1909-1918

From 1909 to 1918, women in Britain, Ireland, and the United States willingly starved themselves while in prison for suffrage activities, insisting that their governments treat them as political prisoners, not common criminals. Faced with potential martyrs, these governments chose to

try and keep women alive through the torturous means of force-feeding rather than give into their demands. Strangely, few suffrage historians pay much attention to this hugely dramatic aspect of the movements. It seems that this oversight must arise not from a lack of poignancy, but rather from a profound discomfort around facing what was governmentally-condoned violence against women.

McCartan, Alison

Courtesy, Crime, Chimeras, and the Count: Explorations of Popular Figures in Classical Literature
Collins 205, Session 1

The Mirror Cracked from Side to Side: The Imaginary, the Symbolic, and Sir Gawain and the Green Knight as a Turning Point in Medieval Literature

What sets a knight apart from his peers at the Round Table? In Sir Gawain and the Green Knight, Gawain is chosen to uphold the Round Table's reputation for chivalry and courtesy when he undergoes an extreme test of his own bravery and honor. While this test allows him to move from a childish Lacanian Mirror Stage into the more adult realm of the Symbolic, the text of Sir Gawain and the Green Knight as a whole represents a transition point in medieval literature between earlier, more simplistic characterizations into a deeper understanding of man's capacity for darkness and fault.

McIlraith, Autumn

Nervous: Researching the Brain & Neural Communication
Collins 105, Session 5

The Time Course of Single Letter Processing: An ERP Investigation

The ability to process written language requires the fast, accurate identification of symbol strings. Research with event-related brain potentials (ERPs) reveals that neural responses to words are larger over left-hemisphere posterior brain regions. This specialization, called the left-lateralized N170 effect, likely reflects early, automatic processing of written words. In the present study, a paradigm was developed for assessing the specialization for written language that could be suitable for use with special populations. Participants monitored a stream of either single letters or single letter-like stimuli. The results supported the idea that specialization for written language can be assessed using single-letter stimuli.

McKay, Hillary

Experiencing Asia: Student Exporations and Discoveries
Collins 201, Session 1

Exploring the Concept of Global Citizenship

For a month last summer I attended the Korea America Student Conference (KASC) and explored different issues affecting South Korea and the United States with fellow delegates. The discussion group I participated in discussed the concept of global citizenship: what it is, how it is created, and what it results in. I will present my perspective--and that of some of those in my discussion group--on global citizenship, discuss how the conference shaped my perspective, and offer ideas on global citizenship that have developed since I returned to Oregon.

Menefee-Libey, Samuel

Education, Learning, & Social Justice
Collins 408, Session 2

Higher Education, Democracy and the Legitimation of Power

Elite institutions of higher education serve as the spring-board for nearly every person who holds governmental, corporate, and financial power in the United States. These same institutions make grand claims about their purposes in advancing democracy, peace and social justice, but what effects are their most esteemed alumni having on the world? I will examine the stated purposes of higher education, how it socializes citizen-subjects and the links between higher education and political, economic, social and cultural power in the United States to ask how well higher education is fulfilling its stated goals.

Menefee-Libey, Samuel

Latin America Past, Present and Future
Collins 205, Session 4

The Obama Administration's Response to Structural Violence in Latin America

For more than 150 years, US Foreign Policy has subjected Latin America to crippling cycles of military and economic violence. When Obama was elected President of the United States in 2008, the Latin American people responded positively, seeing it as a sign of hope and change not just for US citizens, but for all subjects of US policy. But how does the Obama administration's policies towards Latin America differ from their predecessors? Looking at military and non-

military aid, debt and loan policy, trade policy, and immigration I will broadly examine current US Policy towards Latin America in its historical context.

Mercer, Melissa

An Animal's Life
Eaton 211, Session 4

Visual Lateralization and Asymmetry of the Flight Response in the Domestic Horse (Equus caballus)

Equestrian sport has garnered the reputation of being dangerous due to the unpredictability of the equine fear response. What this study investigates is the visual laterality of the flight response in the domestic horse, *Equus caballus*, and whether an asymmetric flight response is correlated to a visual monocular field preference. This study exposed domestic horses to a visual fear stimuli in the binocular field and analyzed their behavioral response in order to gain insight into whether horses prefer to examine fear stimuli with one monocular field, and whether that stimulus examination affects the directionality of their flight response.

Meuser, Andrew

Chemistry Research Presentations
Ford 122, Session 4

Direct Comparison of Hyperconjugation by Oxygen and Sulfur in Substituted 4-Amino-7-Nitrobenz-2-Oxa-1,3-Diazole (NBD) Derivatives

Derivatives of substituted 4-amino-7-nitrobenz-2-oxa-1,3-diazole (NBD-NH-CH₂-X compounds) are fluorescing molecules used in the study of hyperconjugation (L-conjugation), an important intramolecular interaction. In this investigation, two NBD derivatives were synthesized, purified, and characterized via spectroscopic and spectrometric methods, and each derivative's photophysical properties, such as fluorescence intensity, were measured. These photophysical properties were used to estimate the relative effects of hyperconjugation of S and O on the fluorescence properties of the NBD derivatives used in this study.

Miller, Barratt

Courtesy, Crime, Chimeras and the Count: Explorations of Popular Figures in Classical Literature
Collins 205, Session 1

“There Is Almost Nothing Here That Does Not Change”: The Impossible Illusion of Transformation in Robin McKinley’s Rose Daughter

This paper examines the complicated notion of transformation in several versions of the Beauty and the Beast fairy tale, primarily Robin McKinley’s 1997 novel, *Rose Daughter*. Using Michel Foucault’s theories of genealogy and problematization, I examine the way symbolic and thematic motifs in *Rose Daughter* undermine traditional understandings of beauty, identity, and transformation in fairy tales. A genealogical analysis of several versions of the story, including the original French fairy tale and the Disney film, provides a cultural and historical context for my exploration of transformative experiences in McKinley’s novel.

Miller, J. Michael

Presidential Scholarship
Hatfield Room, Hatfield Library, Session 2

Educational Attainment & Occupational Matching: A Study of Education, Employment, and the Outlook for College Grads Using the CPS/ASEC

I investigate the occupational experiences of individuals with different levels of educational attainment, giving special attention to college graduates. My analysis, which is developed from Current Population Survey (CPS) Annual Social and Economic (ASEC) supplements spanning 1994-2009, shows large proportions of college graduates employed in occupations that do not require such an education. I suggest large increases in the number of workers with college degrees have outpaced job creation for these individuals, leaving many grads in jobs that do not utilize their education. The economic implications of this finding are used to critique the ubiquitous proposals to expand higher education

Mindling, Madeleine

The Social Construction of Sustainability and Time
Collins 201, Session 2

An Education: The Making of a Sustainability Culture at Willamette

This is the first installment of a two-term research project based on the making of a sustainability culture at Willamette. This presentation will focus on the influences of how this culture is created, as well as the experiences of students, faculty, and staff in how they choose to identify themselves within the material and discursive elements of this institutionally-driven phenomenon. This is a critical social analysis of the making of this culture based on an examination of identity, discourse, decision-making, and education.

Morton, Paige

Themes in Art History: Mirrors, Landscapes, Socrates, and Outsider Fantasy
Ford 102, Session 4

E. L. Kirchner’s Late Landscapes: Nationalism and Rebellion in Nazi Germany

Kirchner was one of the earliest progenitors of German Expressionist art in the early twentieth-century. His often ignored landscapes play an especially significant role during his later career, a time in which the National Socialist Party heavily ostracized him. I argue that Kirchner’s late landscapes are representative of an alternative German nationalism: His choice of landscape indexes earlier German artists who created what Kirchner felt to be expressions of true German art. By viewing his landscapes in this context, we see a dialogue develop between Kirchner and the political powers of the Third Reich and his rejection of the Nazi aesthetic.

Murphy, Eryn

Can Virtue Make Us Happy? The Art of Living and Morality
Ford 204, Session 3

Morality and Human Nature

Is happiness found through an external focus on accomplishing goals in the material world? Or is happiness fashioned through an internal focus on performing one’s duty according to the moral standards of one’s community (religious or secular)? Might happiness (eudaimonia) consist in taking personal responsibility for one’s creative capacity to accomplish things that nature cannot

accomplish on its own? Might viewing virtue in terms of the origins of one's creativity rather than the external consequences of one's actions lead to an understanding of virtue that allows us to be human and happy?

Niermeyer, Madison

College Colloquium Research
Ford 102, Session 1

The Importance of Intimacy: The Rhetoric of FGC in Kajiado, Kenya

This project examines the discourse surrounding Female Genital Cutting (FGC) in the small town of Kajiado Kenya. Three types of anti-FGC arguments are analyzed for their values and limitations: medical arguments against FGC, women's rights arguments and arguments which link FGC to education. Critically examining these different arguments next to one another both sheds light on the cultural intricacies of FGC and illustrates the way rhetorical frameworks impact social change movements. The research for this project was funded by the College Colloquium Summer Research Grant and was conducted in Kenya last summer.

Ninneman, Alexandra

Forest, Fish and Farm: Research at Willamette University's Zena Forest
Collins 105, Session 1

Fish Passage and Habitat Restoration: A Study of Fish Passage Barriers Along Spring Valley Creek

Development within the Willamette Valley has impacted the availability and health of Oregon fish habitat along the Willamette River and its tributaries. Spring Valley Creek, which stretches from the Willamette-owned Zena Forest to the Willamette River, could act as vital habitat for these and other native fish populations. Similarly, the conservation easement under which Willamette University manages Zena requires maintenance of important fish and wildlife habitats. This study serves to identify possible barriers to fish migration along Spring Valley Creek in order to better direct habitat restoration efforts to improve fish passage. Four potential barriers have been identified thus far.

Norton, Kristen; Worthing, Sarah

Take-a-Break: Willamette's Alternative Spring and Winter Break Program
Eaton 307, Session 4

TaB Los Angeles

TaB Los Angeles The United States is among the top three destination points for victims of human trafficking, and Los Angeles is one of the top three entry cities for victims of slavery and trafficking. TaB LA seeks to raise awareness about human trafficking, and will volunteer with trafficking prevention organizations in Los Angeles.

O'Neil, Caitlin

Nationalisms Examined
Ford 301, Session 5

L'Hybridité narrée: Identity and Narrative Credibility in Marjane Satrapi's Persepolis

This project will explain the exploration of identity and its effects on narrative credibility as conceptualized in Marjane Satrapi's Persepolis, the French autobiographical graphic novel. Persepolis illustrates Satrapi's experiences of alienation while living in Austria and in her native Iran, each culture rejecting her on the basis of her experiences with the other. Her paradoxical position as an exile with intimate knowledge of the two cultures allows Satrapi to construct a narrative equally proud and disparaging of both countries, leading to an unbiased portrayal of the two that is worthy of the reader's trust.

Parker, Jessica

Subcultures and Countercultures
Collins 408, Session 1

Ted Bundy vs. Hannibal Lecter: An Exploration of Factual and Fictional Serial Murderers from the Mid-20th to Early-21st Centuries

This study investigates the phenomenon of serial murder in the United States from the mid-twentieth century to the present-day. The first part of this research examines the biographical information of 10 convicted male serial murderers who committed their heinous crimes within the last 50 years. It is hypothesized that these men experienced similar plights during childhood and adolescence. The second part analyzes the depiction of fictional male serial murderers in 10 American films, from the classic Psycho to the

recent Untraceable. It is hypothesized that the portrayal of fictional serial murderers will differ from the temperament and behavior of actual serial murderers. The results of this study will be revealed and discussed.

Parker, Neal

Historical Analysis for Understanding
Contemporary Challenges
Collins 210, Session 1

Calvin, Locke, and the Environment

For my history thesis I wrote a comparison piece that addressed Jean Calvin and John Locke's stance on various issues, which included the environment. What I found was surprising, contrary to their current respective reputations both were aware of environmental problems and wrote at length about how they expected communities to manage natural resources.

Parker, Neal

Political and Social Expression in Latin America
Eaton 106, Session 2

Funny Power; the History of Political Cartoons in Mexico

For my Spanish thesis, I am studying how political reformers in Mexico sought to use political cartoons to mobilize support for reforms against various conservative regimes. I also wanted to study the kind of symbols they employed, the problems they were interested in, and track a general evaluation that explains how political cartoons have changed from 1825 to the present.

Patel, Tina

Chemistry Research Presentations
Ford 122, Session 4

Infrared Spectroscopy of Layered LiCoO₂

Lithium-ion rechargeable batteries are common portable energy sources for laptops, cell phones, and related electronics. The most common cathode material found in Li-ion batteries is LiCoO₂. During Li-ion battery discharge, the concentration of lithium present in the cathode fluctuates, causing changes in the crystal structure of LiCoO₂. The purpose of this research is to examine the infrared spectra of LiCoO₂ at various concentrations of lithium, x. Ultimately, the changes observed in the infrared spectra could be used to establish a simple method for determining the concentration of lithium present in spent or defective Li-ion battery cathode

Peaslee, Christina

Themes in Art History: Mirrors, Landscapes,
Socrates, and Outsider Fantasy
Ford 102, Session 4

Classical Figures as Symbols in Western Art Exemplified by Jacques-Louis David's The Death of Socrates

Jacques-Louis David portrays Socrates as an admirable, moral man in his neo-classical painting entitled The Death of Socrates, created just two years prior to the French Revolution. Certainly, revolutionary figures during this period admired Socrates for his steadfast virtue in the face of injustice, yet the suggestion that Socrates was himself a revolutionary figure differs from Plato's depiction of Socrates in the Apology. The discrepancy between David's and Plato's depiction of the same man demonstrates that classical figures become symbols with meanings that shift to align with the different values of different cultures over time.

Penrod, Calvin Matthew

Historical Analysis for Understanding
Contemporary Challenges
Collins 210, Session 1

Hitler's Atlantic Wall and Its Importance in the Larger WWII Narrative

This project will focus on how the construction and defense of Hitler's Atlantic Wall fits into the overarching narrative of the history of WWII and why it is significant to explore Germany's decisions surrounding the creation of the western defensive perimeter. The intention of this project is to show how the Atlantic Wall's economic and military repercussions hastened the downfall of the Third Reich and the end of the war, while playing a key role in shaping the European continent after the fighting had ended.

Polzin, Mathew; Willgohs, Patrick

Surfing the Newest Wave: Willamette
Filmmakers
Ford 122, Session 1

Light Out: A 3D Animated Short

Light Out is a short animation created with the Maya 2009. It was animated as part of the 3D animation class (IDS-252) in cooperation with Creating Music with Technology (Music 121). The talk will outline the collaborative process and some of the challenges and techniques used to overcome them.

Poole, Ethan

Love and Romance in the Classics
Collins 105, Session 2

Jews, Romans, Love, and Sex

The purpose of this project is to examine the different views of love, women, and sex in ancient Roman and Hebrew culture by analyzing the Amores of Ovid and The Song of Solomon. These two works contain a wide plethora of information relating to the different, though at times similar, views of love and sex in these two cultures. The presentation will touch on topics which range from poetical analysis to a broader examination of scholarly opinions on the two works throughout history.

Porter, Karina; Chan, Lai Chim

Take-a-Break: Willamette's Alternative Spring and Winter Break Program
Eaton 307, Session 4

TaB New Orleans

The TaB New Orleans trip focused on rebuilding the lives and homes that were destroyed by Hurricane Katrina. Participants will learn about the various economic, environmental, and social impacts that Katrina had on the New Orleans Community.

Pryce, Whitney

Ancient Studies
Eaton 307, Session 2

Using X-Ray Fluorescence to Discriminate Between Unique Clay Sources in the Southern Abruzzo, Italy

This research is aimed to test the method of using a portable X-Ray Fluorescence (XRF) to differentiate between geologically distinct clay units in the southern Abruzzo, Italy. The clay units are potential sources for ancient local pottery production. XRF measures the elemental composition of solid objects. In conjunction with these findings XRF measurements were also taken of pottery sherds found in the Abruzzo, Italy. The data from the sherds is then compared to the clay units to try and source them to local production sites or show that they are extra-regional.

Rathe, Caitlin

Historical Analysis for Understanding Contemporary Challenges
Collins 210, Session 1

The Emergence of a High African-American to White Unemployment Ratio During the Great Depression

“Although the ratio of nonwhite to white unemployment rates in the United States has approximated two to one for most of the postwar era, such large racial differences did not exist 60 to 100 years ago” (Vedder and Gallaway 1992). Where did this unemployment differential come from? What about the Great Depression led to the growth in unemployment inequity? By comparing unemployment rates from both the North and the South, I hope to find clues from the past to explain the early years and growth of the large unemployment ratio that has held into modern times.

Rathe, Caitlin

Gendered Representations and Struggles
Hatfield Room, Hatfield Library, Session 4

Free Women of Color and Plaçage in 19th Century New Orleans

The system of plaçage arose out of the unique culture of Louisiana. My research tries to put plaçage in a historical context and explore how it evolved, drawing on the French and Spanish colonial influences in Louisiana's capitol city. How and why was a system that gave power to black women permitted, especially in the South during a time of strong racism and sexism? In the end, I hope to answer the question: did plaçage give free women of color more power, or was it just another form of slavery?

Reid, David

Education, Learning, & Social Justice
Collins 408, Session 2

Austin Blvd: A Comparative History of Education on Chicago's Westside

On Chicago's Westside there are two neighboring communities: Oak Park and Austin. While one has the public school system in place to send many of its students to high-level Universities, the other struggles to push barely literate students through the doors. My study examines what historical and social factors have led to such a disparity in educational equity and what things are being done to correct the problem. Research for this study has been collected from

my firsthand experience as a student-teacher in Austin, oral interviews from residents, students and teachers as well as census reports and school records.

Rhodes, Emi; Baroza, Aurora; Li, Xun; Faricy, Morgan

Cultural Integration Within and Beyond Asia
Ford 302, Session 1

Exchange of Religion Between China and Japan

Much of what we now recognize as Japanese culture has origins in ancient China. My presentation will be about exchange of religion between China and Japan through the influence of a Chinese monk named Yin-yuan. Through learning about Yin-yuan, I want to explore early cultural communication between China and Japan and, most importantly, to learn about the history of Sino-Japan relationships resulting from this early cultural exchange.

Richardson, Theodore

Latin America Past, Present and Future
Collins 205, Session 4

Participatory Rural Appraisal and Power Relations in the Andes Mountains

The many worldwide, on-the-ground successes of Participatory Rural Appraisal (PRA) have made it, by far, the most popular method for participatory development within the development sector. However, many scholars question whether or not it has actually changed power relations on local, national, and international levels. I look to answer this question by analyzing several PRA community development projects in the Andes. By exploring the successes and failures of these projects I can surmise what it is about PRA that may have hindered its effect on the various power relations of development work and what it might improve upon to accomplish this.

Richardson, Theodore; Wright, Robin

Take-a-Break: Willamette's Alternative Spring and Winter Break Program
Eaton 307, Session 4

Tab Immigration NW

We will be spending a week exploring the people, policies, and politics that influence and shape migration from Latin America to the United States, and the experiences of the Latino Immigrant Community here in the

Pacific Northwest. We hope to foster greater understanding and awareness of our own local immigrant community through service, dialogue, and education.

Rising, Amy

Subcultures and Countercultures
Collins 408, Session 1

The Propensity of Military Brats' Future Military Enlistment

Much research has been done to determine trends in military enlistment among civilian groups. Although it has been shown that children from military families are more likely than their civilian peers to enlist and then serve for longer periods of time, little research exists regarding trends in enlistment from this special group known as military brats. This research examines the factors that increase the propensity of military brats' future enlistment. I use survey data and content analysis of internet discussion boards to determine which types of military exposure as well as how much exposure increases the likelihood of enlistment.

Robb, Timothy; Hykan, Rebekah

Nationalisms Examined
Ford 301, Session 5

Rethinking Globalization: an Individual's Approach.

Our presentation will begin by drawing from our study abroad program that traveled through Tanzania, India, New Zealand and Mexico, critically examining the impacts of a more globalized world. We will emphasize how the multiplicity of reactions to this year abroad creates avenues for a plurality of interests in continued education and action. We will discuss how this experience has helped shape our individual academic interests at Willamette through its influences of our senior theses. Our research attempts to actively engage the experiences of our study abroad in our search for ethical action as members of a global community.

Robinson, Bethany

Sex Education: Models and Behavior
 Ford 302, Session 2

Pure Romance: Undressing the Sex Toy Stigma

This project analyzes how Pure Romance, an in-home, female-only consultant based business selling sexual enhancement products, provides an educational experience and forum through which women learn about their bodies, stimulation points, and sexuality. This research also analyzes the social deviancy of sexual enhancement products, and how Pure Romance serves to combat notions of deviancy, and has the potential to engender normalcy with respect to sexual enhancement products. Finally, my research will question whether Pure Romance provokes female sexual empowerment, as well as whether it can be classified a feminist organization.

Robinson, Chelsea

Experiencing Asia: Student Explorations and Discoveries
 Collins 201, Session 1

Presentations of Emperor Hirohito in Japanese War Museums

Emperor Hirohito is a controversial figure in the narrative of World War II. Depictions of his role as monarch have ranged from deified leader of a militaristic nation to a tragically powerless figurehead. My research examines depictions of Emperor Hirohito in Japan today through the multi-media and multi-purpose mode of museum exhibits. The three Japanese war-related museums examined were selected for their variance in management and educational/memorial purpose. Their varying presentations of the emperor show that, while this topic may be marginalized in some war narratives for reasons of sensitivity, it is by no means dead.

Roos, Lyndsey

Philosophy
 Eaton 412, Session 1

Three Aspects of Dasein's Disclosedness in Heidegger's Being and Time

This paper analyzes the relationship between understanding, interpretation, and assertion as aspects of Dasein's disclosedness in Martin Heidegger's Being and Time. Heidegger argues that the philosophical tradition has misunderstood human experience by thinking

of it in terms of a subject-object duality, and needs a new way of thinking about the meaning of being. Contrary to the Cartesian view that we can obtain knowledge about the world through detached reflection, I will agree with Heidegger's view that we are completely immersed in the world and can never detach ourselves from the context that characterize our understanding of ourselves.

Saccomanno, Olivia

Life in the City
 Ford 201, Session 5

Improving Subjective Quality of Life for Individuals Diagnosed with Schizophrenia: Urban vs. Rural Environments

Individuals diagnosed with schizophrenia have more opportunities to increase their subjective quality of life when residing in urban vs. rural areas. The factors that promote urban areas include resource availability and decreased social stigma towards mental illnesses. When self-perceived needs are met, quality of life is increased. Access to mental health resources is important in meeting identified needs and more resources are provided in urban vs. rural areas. Additionally, there is less stigmatization in urban areas because increased levels of diversity lead to more intergroup contact which decreases prejudice towards minorities. Reducing stigma is negatively associated with utilization of services.

Santos, Anita

Love and Romance in the Classics
 Collins 105, Session 2

Deception, Love, and Conquest in Ovid's Amores

Amores 1.5, one of only two poems in Augustan love poetry with a successful love scene, is often read as a simple love poem expressing the sensuality between lovers on a hot day. However, Ovid cleverly masks elements within the poem, such as duality, the theme of conquest, and allusions to famous, promiscuous women, which point to a more profound meaning of the poem. These elements highlight a deeper, subtler intention: to reveal the true nature of Ovid's relationship with Corinna. To him, love is untouchable, something just out of reach, and this ephemeral quality is what makes it so desirable.

Sather, Craig

Chemistry Research Presentations

Ford 122, Session 4

Asymmetric Organocatalytic Synthesis of (R)-2-morpholineethanol

Morpholines, six membered carbocycles containing oxygen and nitrogen atoms, occur in a wide array of naturally occurring molecules. Being biologically active, the morpholine group is also found in many pharmaceutical products. However, some derivatives are challenging to synthesize and cost prohibitive. This research focuses on developing a straightforward synthesis of morpholine derivatives. If successful, our work will allow pharmaceutical researchers simpler access to currently unused or unavailable compounds for clinical study. Our synthesis starts from a commercially available amino acid derivative. A three step synthesis followed by a novel stereocontrolled organocatalyzed step gives (R)-2-morpholineethanol, an important morpholine derivative.

Satterwhite, Shannon

Gendered Representations and Struggles

Hatfield Room, Hatfield Library, Session 4

In Our Own Home: Gender, Discourse and Married Couples' Experiences of Homebirth

How do married, heterosexual couples experience homebirth and how does this experience challenge (or perpetuate) societal structures that reinforce gender norms and unequal power structures? Does the definition of birth as a woman's domain create a shift in power within the relationship? I draw on studies of women's experience of homebirth and men's transition to fatherhood in addition to new ethnographic research based on interviews with predominantly white, married, heterosexual couples that have chosen to birth at home. This presentation will include an overview of the prevalence of homebirth in Oregon, popular discourse on homebirth and my own research.

Schilbach, Aleksander

Views of Contemporary Eastern Europe

Ford 204, Session 2

The Steel Triangle: Russian, Belarusian and Ukrainian Energy Relations Post-1991

With the first delivery of natural gas to Western European consumers in 1966, the Soviet Union solidified its status as a major natural gas

exporter. In the post-Soviet period, however, shifting political allegiances and differing foreign policy agendas have complicated the Belarusian and Ukrainian role in the transport of Russian natural gas to Europe. In this presentation I will analyze the development of Russian gas policy since 1991 towards Belarus and Ukraine, two major pipeline transit states, in an attempt to understand how Russian foreign policy interests are reflected in its natural gas agreements and policy.

Schiller, Tanya

Surfing the Newest Wave: Willamette

Filmmakers

Ford 122, Session 1

Los Kiltros de Valparaíso (The Street Dogs of Valparaíso): A Chilean Documentary

This short documentary explores the problematic stray dog population in Chile. The city of Valparaíso has a population of 300,000 people with 25,000 homeless dogs. While many people see the dogs as a health hazard and a deterrent to tourists, others see the dogs as part of the character of the city. Interviews were conducted with Chileans and study abroad students to discuss how the dogs affect the daily lives of citizens, reasons for the immense problem, and proposals for change. The film is subtitled in English and Spanish.

Schlegel, Annie

Food and Agriculture in the 21st Century

Eaton 307, Session 1

Pesticide Use and Migrant and Seasonal Farmworkers in Oregon: An Examination of Health, Risk Perception and Agency

Migrant and seasonal farmworkers are frequently exposed agricultural chemicals that may result in negative health. Pesticide training and use regulations in the state are in place, but may not be effective. Through structured and informant interviews, this study sought to explain how and why farmworkers are exposed to pesticides, their perceptions of risk, and their agency over exposure and, therefore, health. Of 21 interviews, 15 respondents were exposed to pesticides in the workplace; 7 had received training and 8 had not. This research illustrates the context surrounding farmworker exposure, outlining structural (political, economic, and educational) influences.

Scott, Kelsey; Donaldson, Emily

Blurring Lines: Relationships Mediated by Cultural Identity in British Fiction
 Ford 102, Session 2

The Secret Shall Be Told: Failures of Friendships in E.M. Forster's A Passage to India and Where Angels Fear to Tread

This project investigates the nature of friendship in two of E.M. Forster's novels: *A Passage to India* and *Where Angels Fear to Tread*. Drawing on Terry Eagleton's reading of the Lacanian imaginary and symbolic orders, the paper examines how issues of national identity, language and communication influence the fulfillment of meaningful relationships between the novels' characters and explores why the potential for friendship in Forster's novels is constantly deferred.

Sifferman, Teresa

Political and Social Expression in Latin America
 Eaton 106, Session 2

Mama Huaca and Amorfinos: Ecuadorian Oral Literature as Identification

It is said that "the pen is mightier than the sword," but what about the might of unwritten words? This presentation explores the power of spoken words in defining and distinguishing certain populations from others. Using the oral literature of Ecuador as an example, I expound upon the significance of spoken expression, analyzing the orature that spans from the chilling cautionary tales told in the Andes to the musical poems of the coast. These oral traditions, from the indigenous and afroecuadorian populations respectively, help to define their communities through the stories they tell and, more importantly, how they tell them.

Soma, Erica

Diet, Endurance, and Disease
 Ford 201, Session 3

Effects of a Carbohydrate Loading Protocol on Anaerobic Work

Carbohydrate loading (CL) has traditionally been used to improve performance in endurance activities, though some evidence suggests it may also enhance anaerobic performance. The purpose of this study was to examine the effects of CL on anaerobic work, measured by an anaerobic treadmill test. College varsity athletes performed anaerobic treadmill tests with and without CL. Participants were able to generate

significantly more work under the CL condition (22.90 ± 9.55 kJ) than in the normal condition (20.716 ± 8.39 kJ). It is concluded that CL is effective in improving performance in anaerobic activities.

Southorn, Debbie

The Art and History of Music
 Rogers Rehearsal Hall, Session 1

Teaching to a New Tune: Possibilities for Social Justice in Music Education

Over the last 2 years I have explored the emerging literatures of critical pedagogy and critical social theory with a particular focus on music education scholars. In pursuing social justice practice in music pedagogy as my senior thesis topic, I interviewed music educators identified as explicitly engaging with social justice in their teaching practices in order to identify some of their common practices, challenges and experiences. Ultimately I sought to identify several ways in which social justice, as theorized by music education scholars over the past few years, can inform music education practices.

Starr, Tyler

Molecular Approaches to Ecology
 Collins 105, Session 3

Hybridization in the Joshua Tree (*Yucca brevifolia*)

The Joshua tree (*Yucca brevifolia*), in association with the yucca moth, is a classic example of an obligate pollination mutualism; the Joshua tree relies on the yucca moth as its exclusive pollinator, while the yucca moth depends on the tree's developing seeds as food for her larvae. There are two morphologically distinct Joshua tree varieties, each pollinated by a different yucca moth species. It is thought that these two tree varieties could be forming hybrids within a narrow contact zone. While vegetative morphological data is inconclusive, preliminary floral and genetic data suggest hybridization may be occurring.

Stefanik, David

Latin America Past, Present, and Future
Collins 205, Session 4

A Reformative Perspective on Immigration Policy

The current debate regarding a comprehensive reform in US immigration policy is extremely important, and if passed could change the face of immigration for the future, or at least set an important precedent. In order to understand the implications of a possible compressive reform, I studied the effects it would have on the US economy, health care, education, and the social conglomeration. The results were rather enlightening, as the studies and data demonstrated the positive effects comprehensive reform would have for the US, and many of the stereotypes of immigrants being a burden to various systems, proved to be untrue.

Stewart, Shannon

Life in the City
Ford 201, Session 5

Envisioning Community: A Sociological Analysis of Shared Space

The purpose of this project is to explain how developers and key participants in cohousing developments go about building a community based around a central vision, specifically focusing on the impact of shared space. Cohousing developments are defined by their intentional designs that facilitate neighborhood activity; although residents own their own homes, the communities contain several public spaces that encourage social interaction. Using a case study of Pringle Creek Community, a sustainable housing development in Salem, OR, this project reveals the symbolic nature of community and the impact of shared space on community interaction.

Stiglich, Larissa; Greenberg, Chelsea

Troubadours, Bards, and Philosophers: Love and Reason in the Middle Ages
Eaton 106, Session 4

Kings and Pawns: Courtly Critiques in the Romance Genre

Examines the critiques and ideals of courtly and kingly behavior presented by Chretien de Troyes, Marie de France, and the author of Gawain and the Green Knight

Stiglich, Larissa; Wyrsh, Peter; Greenberg, Chelsea

Troubadours, Bards, and Philosophers: Love and Reason in the Middle Ages
Eaton 106, Session 4

The Humanization of the Arthurian Court

As a whole, this panel offers insight into the diversity of intellectual thought during the Middle Ages. From Boethius to the Romance of the Rose, and Maimonides to Marie de France, the intellectual thinkers of the time occupied themselves with ideas and themes as diverse as the ultimate good, true love, moderation, and sex. Through their works, often including scathing critiques, we can see the issues that were pertinent to society at the time, and even those themes that have permeated history and maintained their relevance to this day.

Stonebraker, Peter

Forest, Fish and Farm: Research at Willamette University's Zena Forest
Collins 105, Session 1

Zena Forest Rainwater Reclamation and Sustainability

This paper investigates the potential for rainwater harvesting at Willamette University's Zena Forest. Non potable uses for harvested rainwater include irrigation for farming, landscaping and washing equipment. To investigate rainwater harvesting, I have placed several long-term water gauges throughout the property to get a better understanding of Zena's hydrology and water table to make sure that harvesting rain is feasible and cost effective. My results show that rainwater harvesting at Zena could produce 13,000 gallons of water per year. I propose that harvesting rainwater at Zena can help reduce the demand on publically shared water resources and will highlight the importance of water conservation in the 21st century.

Svenson, Kristen; Miller, Barratt; Kummert, Nicholas; Zane, Megan

Paradise Lost
Collins 201, Session 5

A Transmutative Creation of Epic Genre

John Milton wrote Paradise Lost with the intention of creating something "yet unattempted in prose or rhyme." This paper argues that the poem's genre, though intrinsically epic in the broadest sense of the term, is a mutation of previous epic tradition. By looking at the most

apparent instances of genre evolution in the text, and with an emphasis on the good that results and is created from the events of the poem, I will conclude that *Paradise Lost* cannot be considered in terms of classical or traditional genre, but as a transmutation of epic that focuses on life and redemption.

Tallent, Gabriel

The Individual Writing from the Fringe of Culture
Ford 304, Session 1

The “Intriguing Little Slut”: Pleasure in Samuel Richardson’s Pamela

Samuel Richardson’s 1740 novel *Pamela* sparked a national furor and continues to cause critical debate to this day. The novel’s titular heroine has both been denounced as a slut and recommended from the pulpit as a paragon of virtue. I argue that this problem is usually polarized unhelpfully and misconceived and that the *Pamela* uses chastity and virtue to create pleasure in ways that would today be considered perverse, relying upon role-play, name-calling, the pleasurable exchange of power and threat of rape, and that this solves an enlightenment era problem in the conception of pleasure.

Tallent, Gabriel; Davidson, David; Gallegos, Heather

The Individual Writing from the Fringe of Culture
Ford 304, Session 1

The Sounds of Silence: Sonnets by Elizabeth Barrett Browning and Christina Rossetti

Explores how Elizabeth Barrett Browning and Christina Rossetti use modes of both song and silence to explore relationships and tensions in their sonnet sequences, *Sonnets from the Portuguese* and *Monna Innominata*.

Taylor, Philip

Explorations in Music
Rogers Rehearsal Hall, Session 2

Metamorphosis: A Composer’s Writing Process

In this project, I will explain my individual way of writing music. I will outline the writing process of “Metamorphosis,” a trio for piano, horn and violin that I composed in the winter of 2008-09. Key factors in the composition of the work such as the use of recurring motives and the concept

of “developing variation” will also be elucidated. Musical examples illustrated at the piano and with a recording will assist in guiding the listener through the work.

Tirrell, Carrie

Philosophy
Eaton 412, Session 1

Justifying Self Respect

In *A Theory of Justice*, Rawls claims that his two-principle society will be the best society for forming self-respect among its citizens. He thinks that the two principles will cause people to realize that society is working towards their best interests, and that this will make them feel that they are worthwhile to society, which will foster a sense of self-respect. In this paper, I will argue that Rawls’s notion of self-respect is incoherent given the context of the rest of his theory.

Tran, Thanh

Subcultures and Countercultures
Collins 408, Session 1

Athletes and Alcohol Consumption

This paper examines the influence of athletics on activities related to alcohol consumption by college athletes. The research focuses on how alcohol consumption may vary based on certain factors such as whether or not the athlete is in season, the individual’s belief regarding alcohol, the team’s stance on alcohol, the competitiveness of the sport, and the success of the team. The participants were from Division III who participated in either a team sport or an individual sport and the information was obtained through semi structured interviews and surveys. There were 12 participants that volunteered to be interviewed and 50 participants that responded to the survey, which was available to all NCAA athletes. There were more instances of this behavior from athletes of team sport than athletes of individual sports especially if there are specific rituals or celebrations that involve alcohol. More findings will be discussed.

Ubaldo, Ruth; Greenfield, Leigh Ann

Resistance & Antiracism Praxis: Applying Ethnic Studies Theory for Social Change
Hatfield Room, Hatfield Library, Session 1

Racial Reconciliation in a Christian Community: A Process of Change within Willamette's IntersVarsity Chapter

IntersVarsity Christian Fellowship is an international college ministry organization whose values include supporting socially just and racially reconciled communities and ways of being as an integral expression of the Christian faith. As of January 2010, the Willamette University Chapter of IntersVarsity has been engaged in a process of institutional and cultural reshaping in order to align more fully with this vision, which is informed by a critical Ethnic Studies lens. This presentation will look at the chapter's process in order to gain further insight into the intersections of race, faith, and social justice on the college campus.

Valera-Gengler, Bryan

Experiencing Asia: Student Exporations and Discoveries
Collins 201, Session 1

Immersing in Tagalog Language Study

SEASSI--the Southeast Asian Studies Summer Institute--offers intensive language training in the languages of Southeast Asia that are no longer taught in very many institutions. SEASSI has been operating since 1983 and I attended their summer program in order to study Tagalog, the indigenous language of the Philippines, in 2009. The experience of intensive language study in a scholarly atmosphere was challenging and rewarding. My presentation will focus on my experiences there.

Vietmeier, Hannah

Camassia (camas lilies): Genetic and Ecological Approaches
Ford 201, Session 2

Unraveling the Pollination System of a Willamette Valley Wildflower: Pollen Limitation and Pollinator Effectiveness in Camassia

Once ubiquitous in the Willamette Valley, Camassia (camas) is a native wildflower that is important for local conservation efforts. Like many flowering plants, Camassia exhibits a generalist pollination system: a web of interactions between many insects and plants.

Understanding Camassia's ecological niche and applications to restoration therefore depends on knowledge of its relationships with diverse putative pollinators. This project extends earlier work by examining the importance of pollen receipt to reproduction and the relative effectiveness of different putative pollinators for this important wildflower. My results indicate that at least some populations of camas are pollen limited and that, while social and solitary bees exhibit a range of effectiveness, fly visitors contribute little to pollination.

Volz, Brett

Games, Gaming, and 3D Media
Ford 201, Session 1

From Point A to Point B: Comparing Pathfinding Algorithms for Use in Videogames

The purpose of this project is to compare several common pathfinding algorithms used in modern videogames. The presentation includes an overview of modern pathfinding algorithms, as well as a short overview of pathfinding in the past. The presentation also includes an analytical comparison of these algorithms and an explanation of the bases on which they are compared, as well as a visual comparison of their effectiveness.

Walker, Catherine

History from the Bottom Up: Bodies Medieval and Modern
Eaton 211, Session 1

Multiple Meanings in Medieval Bodies

This paper will explore how bodies in the medieval world are understood fluidly in relation to religious thought and social pressures. Specifically, women's bodies are experienced and lived multipliciously as sites of divine connection and understandings of human power. The paper will draw on both primary texts written by medieval women as well as modern interpretations of this dynamic understanding of bodies.

Walsh, Timothy

Historical Analysis for Understanding Contemporary Challenges
Collins 210, Session 1

John VI Cantacuzenus and the Fall of the Byzantine Empire

This study broadly examines statesmanship and foreign policy in the last 200 years of the Byzantine Empire, focusing specifically on the thirteen-year reign of John VI Cantacuzenus in the middle of the 14th century. Ironically, it was under Cantacuzenus, the late Empire's most brilliant statesman, that Byzantium's decline became fatal and irreversible. By analyzing Cantacuzenus' foreign policy and comparing imperial decision-making from the Fourth Crusade to John's resignation in 1354, this project provides insight into the complex world of medieval statesmanship while also illuminating Byzantium – one of the most scholastically neglected areas of European history.

Weber, Jeffrey

Presidential Scholarship
Hatfield Room, Hatfield Library, Session 2

Mathematics, Particle Accelerators, and Chemotherapeutics: An Experimental and Computational Analysis of Anti-Cancer Compound KP1019

Mathematics, particle accelerators, and chemotherapeutics? At first glance, these three subjects might appear to be unconnected. However, this research project integrated aspects of each topic in an attempt to better comprehend the chemistry of KP1019, an anti-cancer compound being prepared for clinical trials. We discuss both experimental data (collected at the Stanford Synchrotron Radiation Lightsource) and computational results (obtained at our own Willamette University) that contribute to the enhanced understanding of an important transport mechanism intermediate for this ruthenium-based anti-cancer agent.

Weed, Hayley

History from the Bottom Up: Bodies Medieval and Modern
Eaton 211, Session 1

“Lady Soul, You are so utterly formable to my nature”

How is sexuality and spirituality intertwined? How do medieval mystics invoke the language of courtly love to show how the relationship

between individual and God is a language of reciprocity and exchange, of both pain and suffering, pleasure and love?

Wentworth, Andrew

Investigating Urban Water Issues in Salem, Oregon
Session 4, Eaton 412

Heavy Metal Accumulation in Bioswale Bed Materials in Salem, Oregon

Urbanization, intensive automobile use, and the weathering of building materials create runoff with high concentrations of toxic heavy metals. Bioswales are used to prevent pollutants from contaminating urban waterways through bioretention, removal of toxics by plant absorption and infiltration through soil. The concentrations of heavy metals in the soil bed material of two bioswales in Salem, Oregon were analyzed to determine if such pollutants are accumulating over time. Higher concentrations of heavy metals were discovered in the soil at the points of inflow, suggesting that the ability of the vegetation to absorb metals is outpaced by deposition from polluted runoff.

Westphal, Luke

Investigating Urban Water Issues in Salem, Oregon
Session 4, Eaton 412

A Pilot Project for Stream Enhancement of a Reach of Shelton Ditch

This research describes a design to enhance the stream and riparian functions of a reach of Shelton Ditch adjacent to Willamette University. The objectives of the study fall into three general categories: biological conditions, physical conditions and social value. In regard to the biological conditions, the goal is to enhance terrestrial and aquatic wildlife habitat by establishing greater connectivity within the stream corridor, controlling exotic and invasive species of flora and fauna, and increasing biodiversity. The physical goals are to mitigate issues of slope stability and erosion using soft-bank stabilization techniques such as native planting and erosion matting. The final objective is to develop a greater social value of Shelton Ditch by involving the Salem community in the implementation and monitoring of the proposed enhancement and creating an area where community members will find leisure and aesthetics. The results of the site analysis, design plan and other results will be discussed.

Wiggins, Chase

Resistance & Antiracism Praxis: Applying Ethnic Studies Theory for Social Change
Hatfield Room, Hatfield Library, Session 1

What's in a Name?: The Rhetoric of 'People of Color' in Group Identity Formation

"People of Color" has fairly recently come into widespread usage in reference to historically marginalized racial groups in the United States. This presentation will provide a critical analysis of the positive aspects of the term as well as the potentially problematic aspects of its usage in naming and forming group identity through the case study of the "People of Color Group" on Willamette University's campus. I consider both the need for such a group to exist as it does, as well as the ways in which the use of the term "People of Color" and the use of associated language within the space has shaped what the group has become and how it functions.

Williamson, Haley

Troubadours, Bards, and Philosophers: Love and Reason in the Middle Ages
Eaton 106, Session 4

Satire and the Supernatural

This presentation will discuss the use of the supernatural in medieval romance literature to critique the establishment of courtly love conventions. We will also discuss how medieval authors incorporate satire to comically hyperbolize and deconstruct notions of love in literature.

Wong, Samantha

Environmental Determinants to Health and Reproduction
Ford 302, Session 3

Effects of 2, 4-Dichlorophenoxyacetic Acid on *Xenopus laevis* and *Mus Musculus* Sperm Morphology

The effects of short-term 2, 4-dichlorophenoxyacetic acid (2, 4-D) exposure on frog and mouse sperm morphology will be used to further our understanding of the effects of herbicides on aquatic and mammalian populations. The study of the in vitro effects of 2, 4-D on frogs is important because amphibian sperm are exposed to the environment post-ejaculation to find and fertilize externally located eggs. Though mouse sperm remains internal,

hormonal disruptions within the vaginal tract may produce similar effects to 2, 4-D on frog sperm. It is possible that 2, 4-D could affect sperm structure and/or function and impede fertilization.

Wright, Albert

The Sun & Stars
Collins 210, Session 2

My Summer Experience With Photovoltaics

This past summer I received the Fred Wert Sustainability grant to build a solar panel. During this time I researched solar cells to find the most efficient and high quality cells, bought the parts, and then created a 12.5-16 Volt, 3.5 amp solar panel. In this presentation, I will discuss the process of creating the solar panel and the research that I did to decide what solar panel to build. Also, I will be handing out blueprints and supply lists so that at the end of the presentation one can go home and build their own solar panel.

Wright, D'Arcy

College Colloquium Research
Ford 102, Session 1

In Search of a Greener Revolution: The Origins of the Green Revolution and Sustainable Agricultures

An agricultural movement that began at the close of World War II, the Green Revolution increased global food production, changing social relationships and the environment. This study seeks to determine the Green Revolution's socio-economic and political causes, its local and global impact, and the requirements for a sustainable agriculture – one that benefits the community, individual, and environment. My conclusion that we must cultivate a Greener Revolution, placing social and environmental health before financial profit, is derived from my analysis of the academic literature, interviews with prominent thinkers such as Michael Pollan and Wes Jackson, and participant observation at commercial and research farms.

Wright, Robin

History from the Bottom Up: Bodies Medieval and Modern.

Eaton 211, Session 1

Gendered Explorations of Body, Self, and Sexuality in Medieval and Modern Texts

This paper will examine the ways men and women have explored and constructed the relationships between body, 'self,' and sexuality and in doing so, created the body as a site of meaning. It will draw upon primary texts and contemporary scholars to examine how our relations to our bodies have changed or remained constant throughout history.

Wright, Robin

Latin America Past, Present and Future
Collins 205, Session 4

The Landless Workers Movement (MST) and Counter-Hegemony: Strategies of the Struggle for Agrarian Land Reform

MST, the largest and perhaps most dynamic social movement in Latin America, works to redistribute agricultural land to poor farmers in response to the gross inequality of land ownership in Brazil. What are the strategies that make such a movement successful? I suggest that through their practices of land occupation and settlements, leadership structure, education, and cultural production the MST helps create a Counter-Hegemonic identity and culture for the rural workers of Brazil. This identity provides the strength, cohesion, and continuity of the movement. The MST therefore demonstrates the importance of creating Counter-Hegemonic discourses within movements, while also speaking to the limits of this strategy in the face of non-democratic tendencies and neo-liberal policies of the Brazilian state.

Wulzen, Mary; Warren, Jennifer

Surfing the Newest Wave: Willamette Filmmakers

Ford 122, Session 1

A Tale of Two Socks

Filmmaking as an art form utilizes many components to elicit an emotional response from the audience. In this short film we follow the journey of a lost sock, using soundtrack and filming style in an attempt to personify an

inanimate object. It is our intention to suggest that even a short abstract film can have an engaging story, and leave the audience feeling differently than they did before they saw it.

Wyrsh, Peter

Troubadours, Bards, and Philosophers: Love and Reason in the Middle Ages

Eaton 106, Session 4

An Indirect Defense of the Nobility of Remus Lupin

Stories of lycanthropy and werewolves have existed in the Western imagination for centuries. In modern times, there have been marked changes in the way we as a culture view monsters, and werewolves in particular. The rise in popularity of works like J.K. Rowling's Harry Potter series and series like it necessitate a working knowledge of the literary evolution of werewolves from killing machines to relatable antiheroes. This presentation will discuss *Bisclavret*, a 12th century text written by Marie de France, in which the werewolf makes marked and specific strides away from the stuff of nightmares into the realm of young adult literature.

Yamada, Stephen

Surfing the Newest Wave: Willamette Filmmakers

Ford 122, Session 1

Duck and Cover: A Short Film

Duck and Cover Modern Racism is not the "Jim Crow" racism of yesteryear. Instead what we must confront as a society is institutional racism. This parody public service announcement attempts to bring institutional racism examples to the front of the discussion in hopes of shedding light on a racism that has gone long undetected by white society. The film is broken up into four shorts, and the unifying theme is: "Silence is Betrayal." The intended message is that by remaining silent, society has turned a blind eye to a racism that involves every day life.

Yee, Estella

Diet, Endurance, and Disease

Ford 201, Session 3

Insulin Resistance in Adolescent Fructose-fed Rats

The average daily consumption of added fructose in the United States has increased significantly. Elevated intake of fructose is correlated with

detrimental health effects, notably hyperglycemia and insulin resistance in the periphery. A high-fructose diet also causes insulin resistance in the brain. The cellular mechanism of insulin resistance is thought to affect insulin receptors, which would inhibit spatial learning and memory. This project investigated the effects of a high-fructose diet in rats to determine if they would develop insulin resistance. A protocol was also developed for measuring brain insulin receptor phosphorylation levels. The results will be revealed and discussed.

Young, Elise

The Evolution of Gender Representation in Asian Media
Collins 210, Session 5

**The Emancipation of Woman to Worker:
A Translation of Chinese Newspaper
Editorials from 1959-1966**

This translation project illuminates the Chinese Party's official representation of women during the Great Leap Forward and Socialist Education Movement. The study examines eight editorials published on International Women's Day by the Party's People's Daily newspaper, between 1959 and 1966. It reveals that women were re-imagined as economic capital, emancipated from the repressive household through the guidance of the Party and the red flag of Mao Zedong thought. The translations show that while women made great gains under the Communist Party, they were represented in a limited fashion and one that best served the Party's interests, not necessarily theirs.

Zane, Megan

Philosophy
Eaton 412, Session 1

**Examining the Gap: Evaluating the Dispute
Between Bertrand Russell and P. F.
Strawson**

In this paper, I explicate the dispute surrounding reference and meaning in Philosophy of Language between Bertrand Russell and Peter F. Strawson. Strawson, in his objection to Russell's Theory of Descriptions (ToD), points to the convention and context surrounding a proposition as important aspects of language not included in the ToD and advocates for a truth value gap. He believes this objection undermines

the ToD's strict reliance on reference. Russell in his own reply to Strawson claims that his theory accommodates Strawson's objections. I ultimately defend Strawson's objections and reject Russell's reply.

**Zane, Megan; Miller, Barratt; Kummert,
Nicholas; Svenson, Kristen**

Paradise Lost
Collins 201, Session 5

**To Boldly Go: Reading Paradise Lost as an
Ideology**

In Paradise Lost, Milton attempts to "justify the ways of God to men." In doing so, he perpetuates an ideology that condemns rebellion against God. However, Milton's portrayal of Satan and Eve leaves the reader torn between submission to God and sympathy with these fallen characters. Thus, their rebellions point to a faultline in God's authority. The term "faultline" is taken from Alan Sinfield's theory of Cultural Materialism which explains the structure of power in society as manifested in texts. This theory reveals a space for Milton to voice dissident potential without directly undermining the pretense of justifying God.

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