



Willamette University

Eighth Annual

Student Scholarship Recognition Day

Wednesday, April 16th, 2008

WELCOME TO THE WILLAMETTE UNIVERSITY EIGHTH ANNUAL STUDENT SCHOLARSHIP RECOGNITION DAY

WEDNESDAY, APRIL 16TH, 2008

Student Scholarship Recognition Day (SSRD) celebrates exemplary scholarship and performance of Willamette students, providing a venue through which they share their work – in the form of oral and poster presentations, performances, and art exhibits across campus – with the campus community, families, and friends. We believe that student research is at the heart of our educational enterprise, and so we cancel classes for this important day. (And we don't cancel classes lightly!)

At large universities research is typically reserved for graduate students, but at small private liberal arts colleges like Willamette, undergraduates have the opportunity to work closely with faculty designing scientific experiments, creating actively engage the questions that feed their intellectual curiosity.

The students whose work you see at SSRD have been supported in many ways during their research. Some have worked as faculty research assistants or collaborated with faculty on research projects. Others complete their work in senior seminars, or devote much of their senior year to their research. Still others create and perform works of art. All have been guided by faculty advisors or mentors.

We are proud of our students' achievements, of their thoughtful engagement with problems, and of their dogged pursuit of truth and beauty. We measure our success by theirs. We sincerely hope that you enjoy your travels through the minds and passions of our students and our university.

Afternoon Activities

2: 00 - 4: 00 p.m. **page 9**

Take a Break (TaB) Panel – Hatfield Room, Mark O. Hatfield Library

2: 00 - 4: 00 p.m. **pages 9-12**

Oral Presentation Panels – Collins Science Center, Eaton Hall, Olin Science Center, Rogers Music Center, & the Hatfield Room, Mark O. Hatfield Library

4: 00 - 5: 00 p.m. **page 13**

Music Performances and Conducting Sessions – Hudson Concert Hall, Mary Stuart Rogers Music Center

Evening Activities

9: 00 - Midnight **page 13**

Literary Readings, *The Chrysalis* Premiere and Poetry Reading – Bistro

Abstracts **pages 14-46**

Acknowledgements **page 47**



ALL DAY ACTIVITIES

8: 00 a.m. – 4: 00 p.m.

Junior Art Major Spring Review Exhibition

Art Building – Student Gallery

Kari Clarke, Jonathan Feld, Georgia Watson, Peter Rosenberg

10: 00 a.m. – 5: 00 p.m.

Senior Art Major's Exhibition

Hallie Ford Museum of Art

Elise Cherpin, Allison Fairbanks, Katherine Gordon, Julia Houha, Raino Isto, Faith Kreskey, Jessica Lawrence, Katrina Maher, Amanda Rose, Anna Sabo, Breanna Aldrich, Max Antinone, Megan Bay, Tatyana Droyak, Suzanne Duket, Hannah Hall, Margaret James, Timothy Kohlstedt, Shasta Krueger, Cheline Lundin, Kirsten Poulsen-House, Lauren Pressler, Lee Stromberg, Jacob Wicks

11: 00 a.m. – 2: 00 p.m.

Poster Presentations – Open Session

Willson & Hines Rooms, Goudy Commons

Attendees are welcome to walk through the poster displays of the CLA Student Collaborative Research Projects (SCRIP) and students from the Tokyo International University of America (TIUA) between the hours of 11-2pm. The presenters will be on site at Goudy from 1-2pm for conversation and to answer questions.

The TIUA poster presentations center on the theme of climate change. Topics include extreme weather, carbon footprint, melting ice cap, alternative energy, and recycling. Each group explores a different area and looks at causes and solutions to the problem. They also examine Japanese and American viewpoints to the issues through analysis of editorial cartoons.

College of Liberal Arts Student Poster Presenters

Lai Chim Chan, Sara Clawson, Pete Crisalli, Rachelle Fryd, Anna Greenswag, Lauren Kajiura, Shannon Levin, Andy Myer, Jennifer Robblee, Meredith Roberts, Jai Salzwedel, Molly Sultany, Victoria Swigart, Lindsey Wolf

Tokyo International University of America (TIUA) Student Poster Presenters

Pamela Aldana, Ryu Arai, Takako Hiraishi, Sachie Imai, Kyu Imamura, Mao Ishida, Yoko Kaneko, Yuki Kamiyama, Gansukh Khurelbaatar, Katsuya Makino, Yuki Matsuda, Tetsuya Matsumoto, Sayaka Namiki, Sara Namikwa, Yuka Saito, Rika Sakumoto, Yumiko Sato, Seira Shimazaki, Kanna Shoji, Izumi Takahashi, Aya Tamura, Mutsumi Tokaji Yuka Takahashi, Shino Usui, Yuki Wakae, Mayu Yamada, Chisato Yoshida, Takuma Yoshizawa, Ye Zhao

MORNING ACTIVITIES

9: 00 a.m. – 10: 30 a.m.

Oral Presentation Panels

Collins Science Center & Eaton Hall

1. Graphic Talk: Gaming, Graphs & Python Concurrency **Collins 105**

Moderator: Josh Laison

Alexander Ford	pyTheatron – Actor Model Concurrency in the Python Language
Andrea Mae Walker	Prime Distance Graphs
John Lawrence	The Effectiveness of Learning AI Players in Real Time Strategy Games

2. Birds & the Bugs **Collins 201**

Moderator: Barbara Stebbins-Boaz

Leanne Weiss	Functional Analysis of Benthic Macro-Invertebrates at Brownsville Dam
Melissa Ostermick	Preference of Sugar Concentration and Feeder Location by Anna's Hummingbirds, <i>Calypte anna</i>
Peter Olson	Evolution of Social Intelligence in Birds

3. Art Interpretations: Degas, Duchamp, and the Book of Hours **Collins 204**

Moderator: Roger Hull

Elise Cherpin	Edgar Degas' Visualization of Truth and Illusion in Nineteenth Century Middle-Class Society
Katrina Maher	Reading the Social and Religious Messages of the Virgin in the Praeces Piae
Raino Isto	The Window Into Discourse: Negation, Affirmation, and Postmodern Language in Marcel Duchamp's The Large Glass

4. Spanish-Speaking Identities: Feminism, Immigration, and Spain's National Anthem

Moderator: Maria Blanco

Collins 205

Alexandra Frackelton	Arachne's Revenge?: Feminine Power, Weaving and La Celestina
Collin Siu	La Aculturación en la Literatura de Siu Kam Wen (Acculturation in the Literature of Siu Kam Wen)
Ivo Dimitrov	National Harmony: Spain's Quest Identity

5. Critical Communication: Murder, Global Warming, and the Media **Collins 210**

Moderator: Jeanne Clark

Bridget A Sutherland	The Facts and Fictions of Global Warming: The Curious Case of Michael Crichton
Melenie Duval	Case Number 016441: A Narrative Analysis of a Condemned Father's Plea
Philip Handke	The Pen is Mightier Than the Metaphor: A Metaphorical Analysis of Global Climate Change in International Editorial Cartoons

6. Living Sustainably in the Willamette Valley

Collins 408

Moderator: Joe Bowersox

Forrest Lindsay-McGinn A Sustainable Urban Model for the City of Salem, Oregon

Johannah B. Larsen Potential for Bicycle Commuting Among Willamette University Employees

Tatiana Mac Qualitative and Quantitative Valuation of Trees on the Willamette University Campus Using Geographic Information Systems Data

7. Literary Society: Virginia Woolf, William Faulkner, & Carson McCuller

Eaton 106

Moderator: Tobias Menely

Sarah Tofflemire Queer Conversations in Carson McCuller's The Heart is a Lonely Hunter

Caitlin Palo "Between the Acts" of History: Claiming Agency in the Narrative of Existence

Jamie Perros Art and Immortality: William Faulkner, the Human Heart, and the Creation of The Sound and the Fury

8. Kant: Reason, Morality & Faith

Eaton 211

Moderator: Doug McGaughey

Aoife Daly Religion Within the Boundaries of Mere Reason and Reflections on Grace

Devin O'Rourke The Role of Biblical Narrative in Kant's Pure Religion of Morality

Katie Salisbury If Morality is Accessible to All Through Reason, Then Why Do We Still Need Churches?: Kant's Affirmation of Historical Faith

9. Researching Our Community: Admission, Athletics, and the Willamette-TIUA Relationship

Eaton 307

Moderator: Linda Heuser

Kari Bassett, Tristan Knutson-Lombardo

Visual Portrayal of the Relationship Between Tokyo International University of America and Willamette University

Mike Reeves, Steve Haberkorn, Josh Clough

The Changing Landscape of Willamette Athletics

Hannah Mitchell, Steven Yasumura, Glen Boulware

The Evolution of the Willamette University Recruitment Process from 1999-2006

10. Crossing Borders: Canadian Education, Welfare, & the Northwest Passage

Eaton 425

Moderator: Sammy Basu

Colin Dailey Broadening the Debate on American K-12 Education

Greg Alderson Canadian and United States Relations on the Thawing Northwest Passage

Reed Renfrow Immigration Diversity and the Welfare State: An Examination of Canada, Sweden and the United States

11. Asian Awareness

Eaton 412

Moderator: Ronald Loftus

Bryan Valera-Gengler A Personal Transnational Experience

Drew Himmelreich Beyond Apology in Sino-Japanese Relations

L. Wailana Kalama-Smith

Islamic Influence in Timurid Architecture

Victor Reeser Asian Studies Colloquium: The Difference in Expression in Japanese Society vs. Japanese Media

MORNING BREAK 10: 30 a.m. – 11: 00 a.m.

11: 00 a.m. – 12: 00 p.m.

Oral Presentation Panels

Collins Science Center & Eaton Hall

12. Italian Summer: Past & Present

Collins 105

Moderator: Mary Bachvarova

Andy Myer Ancient Terroir: Understanding the Human Interaction with a Changing Landscape.
Melissa Magana An Italian Summer: Cultural, Historical, and Archeological Insight

13. The Human Body: Parkinson's Disease and Synesthesia

Collins 201

Moderator: Stas Stavrianeas

Emily Maxwell Visual and Auditory Perspectives in a Case Study of Time-Space Synesthesia
Natalie R Sashkin Stimulating Neuroplasticity: Enriched Environment and Dopaminergic Neurorestoration in the Substantia Nigra of a Mouse Model of Parkinson's Disease

14. Computer ABCs: Animations, Bodies, & Compositions

Collins 204

Moderator: Jenny Orr

Allison Martin NoruKa SoruKa: Creating a Multimedia DVD
Logan Testa, Zander Thompson, Brent Hengeveld, David Reichert, Josh Lee
"The Adventures of Bucky"
David Reichert Honolulu Summer: "Meaning of Summertime," "Broken Windows" and "Waikiki"

15. Buying Green & Dynamic Populations

Collins 205

Moderator: Karen Arabas

Katie Johannsen The Limits of Buying Green: A Critical Assessment of Green Consumerism
Kyle S. Kertay The Dynamics of Population Debate Expressed Through American Popular Magazines, 1991-2007

16. Art: Modern Installations & Traditional Ceramics

Collins 210

Moderator: Heidi Grew

Faith Kreskey Infinite Light: Yayoi Kusama's Mirror Rooms
Shasta Krueger Collaborative Relations: an Exploration of Royal Copenhagen Porcelain

17. Corporeal Research in the Theatre: Creating Bodies in Space

Eaton 106

Moderator: Sally Markowitz

Bob Alsman The Wonderful World of Menander
Sarah Lydecker Truth Illuminated Through Ritual: Concepts of Self in Morality Plays

18. Oregon Past & Present

Eaton 211

Moderator: Ellen Eisenberg

Amanda Strauss Seeing Oregon Through Threads and Beads: A Material Culture Study of the
History of Women in the West from 1840-1930.
Ty Eriksen Einladung Nach Oregon

19. Hannah Arendt and Political Responsibility

Eaton 307

Moderator: David Gutterman

Joseph Scherer Discourses of Justification: Camus and Arendt on Political Assassination
Raino Isto Leni Riefenstahl and the Artist's Political Responsibility: Critically Re-Reading
Hannah Arendt's Theory with Nietzsche, Heidegger, and Merleau-Ponty

20. Dissent Colloquium Videos

Eaton 412

Moderator: Nacho Cordova

Trevor Latal, Charlie Maines, Maya Ramsey, Celidh Scott, Karissa Smith, Cassandra Taylor, Joshua
Torassa, Matt Wolpa, Marcus Woo
Hell No We Won't Go: Democracy & Dissent Videos from the College
Colloquium

21. Social Issues in Modern France

Eaton 425

Moderator: Bill Duvall

Emily Johnson Perspectives on Neutrality, Secularity and the Health-Care System in France
Kimberlee Kogane Nicholas Sarkozy and the Question of Immigration in France

22. Video Art

Collins 408

Moderator: Alexandra Opie

Bradley Woodward, Jaered Croes, Michael Bennett, Nicholas Knauer, Tanya Schiller
In this presentation, five students will show examples of work created in two
semesters in the video art field. We will discuss genres of video art as they
relate to our own artwork, our influences and the creative processes of
making video artwork.

MID-DAY ACTIVITIES

11: 30 p.m. – 1: 30 p.m.

23. TellUs Release Event

Contact: Lizzie Brown

***Table Near the Entrance
of Goudy Commons***

Come celebrate the 4th annual TellUs publication release! TellUs is a magazine that is produced each year by a student editorial board and funded by the Office of International Education. It is a compilation of stories and pictures representing different cultures and students' experiences abroad. Submissions are from both in-bound international students studying at Willamette, and also from out-bound study abroad returnees. TellUs photos and essays are glimpses into students' lives abroad, examining the global perspectives that can develop from multicultural exchange. We will distribute journals, serve refreshments and display student photographs over the lunch period. Where: Goudy Commons, Front vendor table. When: 11: 30-1: 30. SSRD: April 16, 2008.

1: 00 p.m. – 2: 00 p.m.

24. Presidential Scholars Panel

Moderator: Chuck Williamson

**Hatfield Room,
Mark O. Hatfield Library**

Greg Henselman-Neshyba - Mathematics

Generating Given-Genus Sample Sets

Suppose you are given a napkin in the shape of a polygon. You glue each edge of the napkin to one other, and when you are done you'll have a three dimensional shape. What does it look like? Depending on which edge was glued to which, you may have a doughnut, a crane, a figure eight, etc. We suspect that important differences exist between the gluings that generate some 3D objects and those that generate others. Specifically, we are motivated by observations in math and physics to compare the eigenvalue density distributions of adjacency matrices which describe genus X gluings with those of adjacency matrices for graphs of genus Y gluings. The present study addresses this comparison and the computational complexities it entails.

Pete Crisalli - Chemistry

Design, Synthesis and Testing of Neomycin B - Amino Acid Conjugates

Existing research shows that Neomycin B although a potent antibiotic, is also a promiscuous binder, creating a problem in the fight against antibiotic resistance. This research examines the linking of amino acids to Neomycin B to take advantage of natural amino acid-nucleotide interactions to develop a better antibiotic derivative. A new synthetic methodology was developed to create Neomycin B-dipeptide derivatives, which were assayed against a model of prokaryotic rRNA (the drug's natural binding site). Multiple dipeptide derivatives were developed each attached through the single primary alcohol of Neomycin B and fluorescence spectroscopy was employed to determine their binding properties.

1: 00 p.m. – 2: 00 p.m.

25. Poster Presentations

Moderator: Sarah Kirk, Mary Ann Stipe

**Willson & Hines Rooms,
Goudy Commons**

Students from Willamette's College of Liberal Arts (CLA) and Tokyo International University of and America (TIUA) will be present to discuss their respective poster topics.

1: 00 p.m. – 1: 30 p.m.

26. Nature Walk, A Pleasant Stroll with a Campus Naturalist **Meet at South Side of
Waller Hall**
Stroll Leader: Jordan Aney

This is a great opportunity to learn about the natural history of Willamette University. The walk consists of a short stroll through campus. Participants will learn the importance of local ecology, local mammals, birds, plants, and the ecological systems of which all of us are a part.

AFTERNOON ACTIVITIES

2: 00 p.m. – 4: 00 p.m.

27. Take-A-Break Presentations: Eight Trips, One Heart **Hatfield Room,
Mark O. Hatfield Library**
Moderator: Mikki Trowbridge

Take a Break (TaB) is a service-immersion alternative break program and is a student-led educational experience. TaB provides an opportunity for students, staff and faculty to work side-by-side learning about the social and environmental issues that affect our country. Eight Willamette students will talk about their experience during this year's Take-a-Break (TAB) program that took place over Spring Break.

2: 00 p.m. – 4: 00 p.m.

Oral Presentation Panels

Collins Science Center, Eaton Hall, Olin Science Center, Rogers Music Center, & the Mark O. Hatfield Library

28. Making Human Dinosaurs: Science, Technology, Medicine, and the State
Moderator: Melinda Gormley **Collins 105**

Allison Dellwo	History of Alternative Medicine in America: Opposition and Integration
Jessica Belle	In Vitro Fertilization, Eugenics & Evolution
Karla Penman	The Hierarchy of Heredity: Current and Historical Patterns of Intellectual Integration in Genetics
Stephen Kearns	Viability of Telomerase in Life Extension in the United States

29. Walmart, Justice Movements, and Inequality **Collins 201**
Moderator: Greg Felker

Jenne Schmidt	Navigating the Traffic at the Intersections of Whiteness and Feminism: White Women in Racial Justice Movements
Hannah Mitchell	More to the Protesters Than Meets the Eye: A Look at How Intersectionality of Race/Class/Gender Play Into the Anti-Wal*Mart Movement
Sam Menefee-Libey	Anti-Racism Lite: Race, Class, Gender, Sexuality, and Oppression in US Films about Racism

30. Social Justice Movements & 'Freedom Dreaming' **Collins 204**
Moderator: Emily Drew

Cassi Ross	Modeling Social Justice: YWCA and Considerations for Institutional Change
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Kaitlin Thackery	Knowledge of the Truth is Power: The Case for Anti-Bias Educational Reform in the U.S.
Lindsey Schneider	Salmon & Sovereignty: Environmental Racism in Our Own Backyard
Jenne Schmidt, Elliot Williams	Moving Forward to Somewhere Over the Rainbow: Willamette University's LGBTQ Campus Climate Assessment

31. Anthropology: AIDS to World of Warcraft Collins 205
Moderator: Rebecca Dobkins

Elliot Williams	Decolonizing Archaeology: Indigenous Peoples, Archaeologists, and Collaborative Research
Jasmine Azpiri	Ritual Healing: How Far Can We Go to Alleviate the Stigma of AIDS?
Kara Casey	Where's the Community in Service-Learning? An Anthropological Perspective on Service-Learning for Social Change
Rachel Keiko Stark	Gold, Runs, and Enchants: Gift Giving In World of Warcraft

32. The Arts and Identity in South Africa Collins 210
Moderator: Andries Fourie

Hannah Harper, Kali Boehle-Silva, Rachel Hohler, Savanna Chesworth

33. A Millennium of French Culture: Romance, Retail, Revisionism, Redemption Collins 408
Moderator: Gaetano DeLeonibus

Genna Robertson-Hall	Heroic Adventurer or Heartless Imperialist? A Study of Colonial Ideology in Hergé's "Tintin in the Congo"
Jessa Fox	French Prostitutes: Use for Class Commentary in the Nineteenth Century Novel
John Dunton	Bresson's Cinema: A Man Escaped and Pickpocket
Tolly Davis	Troubadour Poetry: Landscape as Mirror of Medieval Identity

34. Hypocrisy, Gender Roles, & Sexuality in Chaucer Eaton 106
Moderator: Gretchen Moon

Ashika Bhan	"A Ful Vicious Man"? A Reexamination of Chaucer's Pardoner and His Tale
Emily Donaldson	Active Passivity: The Western Authenticity of Custance in Chaucer's Man of Law's Tale
Hannah Short	Female Authority in the Second Nun's Tale
Ian Portner	Queering the Fabliau: A Discussion of Chaucer's Shipman's Tale's Critical History and its Ambiguity of Narrator, Genre, and Theme

35. Communism and its Discontents Eaton 211
Moderator: Bill Smaldone

Ivo Dimitrov	How to Kill 60 Million Peasants and Get Away With It
Matthew Best	Russia's Economically Stable Authoritarianism
Daniel J King	Pragmatism, Radicalization, and Revenge: Domestic Policy, the Sino-Soviet Relationship, and the Progression of Mao Zedong Thought, 1949-1959

36. Asian Culture in Salem**Eaton 307****Moderator: Xijuan Zhou**

Allison Fairbanks, Emi Rhodes	Asian Faces in Salem Market
Hildred Billings, Satoshi Nomoto	Documenting Asians in Salem
Sarah Dunford, Xun Li	Asian Faces on Salem Streets
Tiffany Ortega	A Vanishing Culture: The Outset of Salem's Local Mien

37. Big Ideas in Economics: Garbage, Hip-Hop, Housing & Redevelopment**Eaton 412****Moderator: Nathan Sivers-Boyce**

Casey Murphy	The Trash Compactor: Price Effects of Market Concentration in the Landfill Industry
Collin Siu	Why Are Subprime Loans Concentrated in Communities of Color?
Jaime Hodgkin	Redefining Conspicuous Consumption: Veblen, Hip-Hop, and Bling Bling
Shain Corey	Tax Increment Financing: Renewing the People or Just the Community?

38. Dangers of the Free Market**Eaton 425****Moderator: Don Negri**

Anne Watson	Conflict Diamonds: De Beers and Market Structure
Becky Gullberg	Ghanaian Healthcare Professionals: Private Decisions, Public Impacts
Kevin Beeman	The Effects of Mergers and Market Concentration on the Pricing Behavior of Hospitals

39. Cell Signaling Pathways and Cancer Prevention**Olin 301****Moderator: Drew Duncan**

Jennifer Bufford	The Effect of Nitric Oxide on Thermotolerance and Cellular Thermoinhibition in Cultured Guard Cell Protoplasts of <i>Nicotiana glauca</i> .
Rachelle Fryd, Meredith Roberts	Cancer: One Step Closer to the Cure
Sarah Zerzan	The Influence of Ribonuclease A Contamination on Studies of Eukaryotic Protein Synthesis
Lucas Nebert	A Dynamical Comparison Between the Apo-wild-type Trp Repressor Protein and a Temperature Sensitive Apo-L75F-TrpR Mutant Through Use of NMR-Derived Backbone Order Parameters

40. Social Issues in the States**Smullin 129****Moderator: Ken Nolley**

Amy Johnson	Helping the Hungry: A Sociological Analysis of Food Service Organizations in the Willamette Valley
Sarah Tofflemire	Same-Sex Adoption: America's Support and the Missing Conservatives
Thomas Balcom	In Search of Respect: A Comparative Study of Violence and Substance Abuse Among Puerto Rican Crack Dealers in New York City and Young Latino Gang Members in Salem, Oregon.
Lindsey Mizell	One Nail at a Time: Recovery in Post-Katrina New Orleans

41. Investigating Performance History: Theatre as an Agent of Progress

Moderator: Jonathan Cole

Olin 302

Kelsey Scott	A Fellow in Petticoats: The New Woman in George Bernard Shaw
Tara A McLaughlan	A Voice for the Voiceless: Athol Fugard's Effect as a White South African Dramatist
Tracie Nygaard	Making a Pointe

42. Music Composition

Rehearsal Multimedia Hall

Moderator: Mary Wright

Rogers Music Center

(In alphabetical order; actual performance order may differ)

Nicholas Eugene Woolsey	Gunka and Minyo in Japan During WWII
Noah D. Zaves	I Promise: This Music Will Engage You

4: 00 p.m. – 5: 00 p.m.

43. Music Performance

Hudson Concert Hall

Moderator: Grant E Linsell

Rogers Music Center

(In alphabetical order; actual performance order may differ)

Scott Gerweck	Composition Project
Lisa Glasspool	"Le Merle Noir" by Olivier Messiaen
Leslie Katter	"The Doll Song" by Jacques Offenbach
Kimberlee Kogane	"Acht Stücke" by Paul Hindemith
Bonnie Monk	Senior Conducting Project: "Musick's Empire" by Lloyd Pfautsch
Debbie Southorn	Engaging Liberal Arts Values in Music Education
Reece Sauve, Phil Taylor Paganini	"Variations for Two Pianos" by Lutoslawski

EVENING ACTIVITIES

9: 00 p.m. – 12: 00 a.m.

44. The Chrysalis Literary Readings

The Bistro, 1st Floor of

The Chrysalis Staff: Carlee Kondo, Rebecca Demarest, Darick Dang

Putnam University Center

Authors from the 2008 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.

ABSTRACTS

Student's Name (Alphabetical)
Student's Major
Panel Title
Time & Location
Presentation Title
Abstract

Pamela Aldana, Mao Ishida, Yuka Takahashi
TIUA Panel
Poster Presentations TIUA
1: 00-2: 00 p.m. Willson-Hines, Goudy Commons
Carbon Footprints

Greg Alderson
Undeclared
Crossing Borders: Canadian Education, Welfare, and the Northwest Passage
9: 00-10: 30 a.m. Eaton 425

Canadian and United States Relations on the Thawing Northwest Passage

This project explores the dispute between the US and Canada over rights to the rapidly opening Northwest Passage. A brief history will provide context to the concerns of both countries. The principal legal and practical arguments will be presented, followed by a discussion of the impact of this dispute on U.S.-Canada relations. This project draws upon coursework from the College Colloquium course "Oh Canada" and is adapted from an award-winning panel presentation at the Canadian Consulate's "Crossing Borders" Student Conference in March 2008.

Bob Alsman
Undeclared
Corporeal Research in the Theatre: Creating Bodies in Space
11: 00 a.m.-12: 00 p.m. Eaton 106

The Wonderful World of Menander

This presentation is about a semester-long project on Menander, an ancient Greek playwright. Menander was responsible for creating a dynamic form of theatre known as "New Comedy," which became the standard for dramatic comedy for over a thousand years. In the spirit of Menander, I attempt to recreate the style of "New Comedy" through an original twenty-minute one-act play entitled, *The Missing Tooth*. I incorporate the following dramatic tools that Menander utilized in his own works: "takes" to the audience, obnoxious exposition, limited stage directions, and mistaken identities. The play is written as if it had been transported directly from Ancient Greece into the 21st century.

Ryu Arai, Kanna Shoji, Chisato Yoshida
TIUA
Poster Presentations TIUA
1: 00-2: 00 p.m. Willson-Hines, Goudy Commons
Reduce, Reuse, Recycle

Jasmine Azpiri
Anthropology
Anthropology: AIDS to World of Warcraft
2: 00-4: 00 p.m. Collins 205
Ritual Healing: How Far can we go to Alleviate the Stigma of AIDS?

This project is a critical analysis of Steven Robins' theory that South Africans living with AIDS experience their illness through a ritual process and that participation in this process assists in the treatment of AIDS. I focus on the role of the Treatment Action Campaign (TAC) in South African society, the effects of governmental denial of the epidemic, the relationship the government has with TAC, and the social and health consequences of celebrating AIDS and framing AIDS as a ritual experience. The South African government and Treatment Action Campaign (TAC) have been battling the issue of AIDS treatment for 10 years now. This project introduces TAC, the campaign's origins, and its contributions to alleviating the AIDS crisis. The project also indicates that despite TAC's marked successes, it is not enough; other methods of intervention are needed in order to alleviate the AIDS crisis in South Africa and save the middle generation.

Thomas Balcom

Anthropology

Social Issues in the States

2: 00-4: 00 p.m. Smullin 129

In Search of Respect: A Comparative Study of Violence and Substance Abuse Among Puerto Rican Crack Dealers in New York City and Young Latino Gang Members in Salem, Oregon.

The focus of this research project is on the interplay between structure and agency in the lives of ethnic minorities. In particular, I look at the ways in which socially marginalized ethnic minorities use violence and substances to claim agency in their lives. The positive and negative impacts of violence and substance use/abuse in the lives of the individuals are observed in each study. One case study was conducted by Philippe Bourgois, who spent time with Puerto Rican-American crack dealers in East Harlem during the early 1990's. The second case study comes from my ongoing interaction with young Latino gang members in Salem, Oregon.

Kari Bassett, Tristan Knutson-Lombardo

Sociology; Sociology & Environmental Science

Researching Our Community: Admissions, Athletics, and the Willamette-TIUA Relationship

9: 00-10: 30 a.m. Eaton 307

Visual Portrayal of the Relationship between Tokyo International University of America and Willamette University

Beginning with the inception of Tokyo International University of America in 1989 and continuing on through 2007, this research looks at the visual portrayal of the relationship between students at TIUA and Willamette. By examining yearbooks, newspaper articles, pamphlets and other community publications from both universities, we found that Tokyo International University of America featured photographs of students from both universities. We recommend specific ways that the visual representation of their relationship can be improved.

Kevin Beeman

Economics

Dangers of the Free Market

2: 00-4: 00 p.m. Eaton 425

The Effects of Mergers and Market Concentration on the Pricing Behavior of Hospitals

During the 1990s there were over 900 hospital mergers and acquisitions in the United States. The hospitals claimed that these mergers and acquisitions would be socially beneficial because they would allow the hospitals to become more efficient and lower prices for consumers. However, there is clearly another possible motive for hospitals to merge. Merging could increase the market power the new entity has, which would then allow it to raise its prices. In this presentation I will summarize the theoretical and empirical literature on the subject to determine whether hospital mergers are helping society by increasing efficiency and lowering prices, or whether they are harming society by creating uncompetitive markets and higher prices.

Jessica Belle

Science Studies

Making Human Dinosaurs: Science, Technology, Medicine, and the State

2: 00-4: 00 p.m. Collins 105

In Vitro Fertilization, Eugenics and Evolution

In 1883, Sir Francis Galton established “a science that deals with all influences that improve and develop inborn qualities of [a human] race.” Positive eugenics encourages socially valuable people to reproduce, while negative eugenics seeks to prevent the “weak” from doing so. Today, positive eugenics persists through in vitro fertilization (IVF). Infertile couples conceive through IVF, a technique of a sperm artificially fertilizes an egg, which is then implanted in a woman’s uterus. Rarely covered by health insurance, only wealthy Americans can afford IVF. Allowing infertile socially valuable people to reproduce directly challenges natural evolution and raises ethical issues.

Michael Bennett

Computer Science

Video Art

11: 00 a.m.-12: 00 p.m. Olin 408

In this presentation, five students will show examples of the work we have created in two semesters in the video art field. We will discuss genres of video art and how they relate to our own artwork, our influences and the creative processes of making video artwork.

Matthew Best

International Studies and Russian Language

Communism and its Discontents

2: 00-4: 00 p.m. Eaton 211

Russia's Economically Stable Authoritarianism

This paper will discuss a modern Russian irony: the ill effects of economic stability (or success) upon democratic reform. Russia’s newly powerful economy has suppressed the nascent democracy within the country. This will cause problems in future political competitions as well as force Russia to essentially revert to past authoritarian dominance.

Ashika Bhan

Biology

Hypocrisy, Gender Roles, and Sexuality in Chaucer

2: 00-4: 00 p.m. Eaton 106

"A Ful Vicious Man?" A Reexamination of Chaucer's Pardoner and his Tale

The Pardoner in Chaucer’s *The Canterbury Tales* has generated more criticism regarding his character than his tale itself. This project addresses such criticism in order to decipher his tale and enrich a reading of it, as a significant relationship exists between the tale and its teller. His character can be seen in the rioters and the Old Man in his tale. The alleged hypocrisy of the Pardoner and the seemingly ironic discrepancies in his Introduction, Prologue, and Tale is discussed. However, there are fewer ironies and conflicts concerning the Pardoner than originally believed.

Hildred Billings, Satoshi Nomoto

Japanese Studies; International Studies

Asian Culture in Salem

2: 00-4: 00 p.m. Eaton 307

Documenting Asians in Salem

This presentation seeks to provide an overview of Asian groups in Salem - their histories, their circumstances, and their current social and economic statuses within a diverse community. Also included is an introduction to our new archival project that seeks to document the histories and folklife of Asians in this region and make them available to the public.

Kali Boehle-Silva

Undeclared

The Arts and Identity in South Africa

2: 00-4: 00 p.m. Collins 210

Past and Present: The Role of Film in the Creation of Identity in South Africa

By looking at the Arts of South Africa in socio-historical context, we will examine the role of art, theater, film and music in the creation of contemporary South African identity. From 1948 to 1994

South Africa was ruled by a repressive white minority government that instituted and enforced a policy of apartheid or racial segregation. The black majority resisted apartheid with every means at their disposal, and the arts played an important role in the liberation struggle. After the end of apartheid the arts were instrumental in the construction of a new, shared South African identity, and functioned as an agent of reconciliation. In South Africa the arts are both a cultural identity marker and a unifying force that transcends the barriers of specific ethnic identities. South Africans today use culture as both a weapon in the struggle for equality and an instrument of forgiveness. The nature and function of the arts changed as the country itself was transformed from a battleground to a vibrant melting pot. The panel will examine music, theater and film of the apartheid and post-apartheid eras in socio-historical context.

Glen Boulware, Hannah Mitchell, Steven Yasumura

Sociology; Sociology; Sociology

Researching Our Community: Admissions, Athletics, and the Willamette-TIUA Relationship

9: 00-10: 30 a.m.

The Evolution of the Willamette University Recruitment Process from 1999-2006

Willamette University's admission practices have evolved from 1999 to 2006. By focusing on the visual portrayal of university life through recruitment materials and data provided by admission's staff, we break down the multifaceted misrepresentation of diversity on campus through the following multi-method approach: (1) a quantitative analysis of recruitment materials and (2) a qualitative analysis of staff interviews. The data collected comes from the Office of Admission, the Office of Communication, and university archives. This research provides supporting evidence that reveals uncertain intentions and uncertain results when targeting diverse populations of students.

Lizzie Brown

International Education Intern, Tellus

11: 30 p.m.-1: 30 p.m. Table in Goudy Commons

TellUs Release Event

Come celebrate the 4th annual TellUs publication release! TellUs is a magazine that is produced each year by a student editorial board and funded by the Office of International Education. It is a compilation of stories and pictures representing different cultures and students' experiences abroad. Submissions are from both in-bound international students studying at Willamette, and also from out-bound study abroad returnees. TellUs photos and essays are glimpses into students' lives abroad, examining the global perspectives that can develop from multicultural exchange. We will distribute journals, serve refreshments and display student photographs over the lunch period. Where: Goudy Commons, Front vendor table. When: 11: 30-1: 30. SSRD: April 16, 2008.

Jennifer Bufford

Biology

Cell Signaling Pathways and Cancer Prevention

2: 00 p.m.-4: 00 p.m. Olin 301

The Effect of Nitric Oxide on Thermo Tolerance and Cellular Thermo Inhibition in Cultured Guard Cell Protoplasts of Nicotiana Glauca.

As global temperatures increase, understanding the impact of heat on plants is critical to maintaining crop yields. To evaluate the role of nitric oxide (NO) signaling in resistance to heat (thermotolerance) and heat-associated cell cycle arrest (thermoinhibition), guard cell protoplasts (GCP) of *Nicotiana glauca* were cultured at 32°C or 38°C in the presence of a NO scavenger and inhibitors of NO-producing enzymes. These treatments reduced growth and survival of cells at 32°C, but not at 38°C. The data indicate that in GCP at 32°C, but not 38°C, NO-producing enzymes mediate cell growth and division through NO.

Kara Casey

Anthropology

Anthropology: AIDS to World of Warcraft

2: 00-4: 00 p.m. Collins 205

Where's the Community in Service-Learning? An Anthropological Perspective on Service-Learning for Social Change

Most university-based service-learning projects emphasize the student's experience, rather than the agency and experiences of the recipients of service. Such an emphasis on students may unintentionally reduce the engagement and investment of community members in a program of social change. Through the use of examples from a variety of service learning programs, and through an Action Anthropology and Practice Theory perspective, this project contributes to the development of a "service-learning for social change" model. By addressing power relations, reflexivity, and reciprocal learning, "service-learning for social change" creates mutually respectful interactions between students and community members and greater long-term social change.

Lai Chim Chan, Lauren Kajiura

Undeclared; Biology

Poster Presentations

1: 00-2: 00 p.m. Willson-Hines, Goudy Commons

The Hormonal Herbicide, 2,4-D, Blocks Animal Cell Cycle Progression: Is Cyclin B a Target?

This research explores the detrimental effects that an auxin-like herbicide, 2,4-D, has on frog (*Xenopus laevis*) development. Auxins have been shown to indirectly degrade certain proteins in plants, so it was hypothesized that 2,4-D might be blocking normal hormone-induced oocyte maturation by similarly degrading key proteins in animal systems. Protein targets of interest were from a family of cyclins (B1 and B2), which are newly synthesized to high levels beginning at the onset of maturation. 2,4-D's potential role in preventing the vital accumulation of cyclins will be discussed.

Elise Cherpin

Art History

Art Interpretations: Degas, Duchamp, and the Book of Hours

9: 00-10: 30 a.m. Collins 204

Edgar Degas' Visualization of Truth and Illusion in Nineteenth Century Middle-Class Society

My project investigates the paradoxical relationship between truth and artifice in nineteenth century French society as presented in several of Edgar Degas' paintings. Basing my argument on a photograph Degas took, I consider the camera's significant influence on his artwork. Many of his paintings demonstrate photographic qualities while also containing mirrors that possess a more important function than simply serving as background decoration. With respect to these works, I will discuss the camera and the mirror as objects demonstrating both truthful as well as artificial qualities. Additionally, I will discuss how Degas' "skill as a recorder" places these concepts of truth and illusion in the cultural context of his time.

Elise Cherpin, Allison Fairbanks, Katherine Gordon, Julia Houha, Raino Isto, Faith Kreskey, Jessica Lawrence, Katrina Maher, Amanda Rose, Anna Sabo, Breanna Aldrich, Max Antinone, Megan Bay, Tatyana Drofyak, Suzanne Duket, Hannah Hall, Margaret James, Timothy Kohlstedt, Shasta Krueger, Cheline Lundin, Kirsten Poulsen-House, Lauren Pressler, Lee Stromberg, Jacob Wicks

Art and Art History

Senior Art Majors' Exhibition

All Day – Hallie Ford Museum of Art

Art and Art History Majors' Senior Exhibition

Savanna Chesworth

Undecided

The Arts and Identity in South Africa

2: 00-4: 00 p.m. Collins 210

The Arts and Identity in South Africa

By looking at the Arts of South Africa in socio-historical context, we will examine the role of art, theater, film and music in the creation of contemporary South African identity. From 1948 to 1994 South Africa was ruled by a repressive white minority government that instituted and enforced a

policy of apartheid or racial segregation. The black majority resisted apartheid with every means at their disposal, and the arts played an important role in the liberation struggle. After the end of apartheid the arts were instrumental in the construction of a new, shared South African identity, and functioned as an agent of reconciliation. In South Africa the arts are both a cultural identity marker and a unifying force that transcends the barriers of specific ethnic identities. South Africans today use culture as both a weapon in the struggle for equality and an instrument of forgiveness. The nature and function of the arts changed as the country itself was transformed from a battleground to a vibrant melting pot. The panel will examine music, theater and film of the apartheid and post-apartheid eras in socio-historical context.

Kari Clarke, Jonathan Feld, Georgia Watson

Studio Art

Junior Art Majors' Spring Review Exhibition

All Day -- Student Gallery, Art Building

Junior Spring Review Exhibition

Sara Clawson

Biochemistry

Poster Presentations

1: 00-2: 00 p.m. Willson-Hines, Goudy Commons

Epigallocatechin (EGC), a Component of Green Tea, Poisons Topoisomerase II

Green tea, a widely consumed beverage that is a rich source of polyphenols, has been suggested to lower the risk of various cancers. The chemopreventative properties of green tea are attributed to epigallocatechin gallate (EGCG) and other related polyphenols such as epigallocatechin (EGC). Despite the therapeutic effects of these compounds, certain polyphenols display genotoxic properties that are believed to reflect interactions with the DNA-regulating enzyme topoisomerase II. This study investigated the ability of EGC to enhance human topoisomerase II (hTII)-mediated DNA scission and the mechanism by which this compound modulates enzyme activity.

Mike Reeves , Steve Haberkorn, Josh Clough,

Economics; Sociology; Sociology

Researching Our Community: Admissions, Athletics, and the Willamette-TIUA Relationship

9: 00-10: 30 a.m. Eaton 307

The Changing Landscape of Willamette Athletics

This project investigates the effects of the move from NAIA to NCAA Division III athletics on the Willamette community. The project includes analysis of interviews with key administrators and coaches as well as survey responses from former Willamette student-athletes and coaches. The findings reveal that athletes experienced little or no direct effect, while the coaches varied in their perceptions about the impact of this switch. Recommendations will be made based on the findings of this study.

Shain Corey

Economics

Big Ideas in Economics: Garbage, Hip-Hop, Housing and Redevelopment

2: 00-4: 00 p.m. Eaton 412

Tax Increment Financing: Renewing the People or Just the Community?

Tax increment financing (TIF) has been one of the most popular redevelopment tools used by cities for the past fifty years. While it has been heralded for its ability to renew communities, many critics of TIF claim that while improving the area, it does not do the same for the community residents. This project analyses several empirical studies looking at the effect TIF has on poor communities and the residents within them, and details the consequences of TIF. It then offers suggestions on how to alter the TIF program to better aid the residents of blighted communities.

Pete Crisalli

Chemistry

Poster Presentations

1: 00-2: 00 p.m. Willson-Hines, Goudy Commons

Design and Synthesis of Neomycin-Dipeptide Conjugates

The synthesis of Neomycin B derivatives involves many reactions that use halogenated compounds and other corrosive or toxic agents. This research examined and created a new synthetic scheme to both decrease the number of steps necessary for synthesis while also increasing net yield of products. Ultimately, a seven step synthesis was reduced to a three step synthesis with a greater net yield of products. The key alteration is use of a Steglich Esterification selecting for the single primary alcohol of Neomycin B. Reactions conditions are still in the process of being optimized to provide higher product yields.

Pete Crisalli

Chemistry

Presidential Scholars Panel

1: 00-2: 00 p.m. Hatfield Room, Mark Hatfield Library

Design, Synthesis and Testing of Neomycin B - Amino Acid Conjugates

Existing research shows that Neomycin B although a potent antibiotic, is also a promiscuous binder, creating a problem in the fight against antibiotic resistance. This research examines the linking of amino acids to Neomycin B to take advantage of natural amino acid-nucleotide interactions to develop a better antibiotic derivative. A new synthetic methodology was developed to create Neomycin B-dipeptide derivatives which were assayed against a model of prokaryotic rRNA (the drug's natural binding site). Multiple dipeptide derivatives were developed each attached through the single primary alcohol of Neomycin B and fluorescence spectroscopy was employed to determine their binding properties.

Jaered Croes

Japanese Studies

Video Art

11: 00 a.m.-12: 00 p.m. Olin 408

In this presentation, five students will show examples of the work we have created in two semesters in the video art field. We will discuss genres of video art they relate to our own artwork, our influences and the creative processes of making video artwork.

Colin Dailey

Politics

Crossing Borders: Canadian Education, Welfare, and the Northwest Passage

9: 00-10: 30 a.m. Eaton 425

Broadening the Debate on American K-12 Education

The purpose of this project is to answer the following puzzle in American education: why does the USA spend more per student in primary and secondary education than most countries, yet score significantly below the OECD average in the 2003 Program for International Student Assessment (PISA), ranking 24th of 29 OECD countries? I analyze common explanations--the USA recruits unqualified teachers, or the USA provides a more democratic, general education than top-scoring countries--and find that these are too narrowly focused on school variables and do not tell the whole story. I then investigate the success stories of Finland and Canada, two top-scoring countries that also demonstrate high levels of educational equality. These two examples show that the education debate must be broadened to address non-school variables, and, despite huge demographic/cultural differences, the USA can benefit from looking to other top-scoring countries for solutions.

Aoife Daly

English

Kant: Reason, Morality & Faith

9: 00-10: 30 a.m. Eaton 211

Religion within the Boundaries of Mere Reason and Reflections on Grace

What does the concept of grace imply for a person of pure religious faith? Kant sees grace as a blessing for our actions, rather than an idea that would wipe the slate of our sin completely such as in the phrases “God forgives us through grace” or “We are saved through God’s amazing grace,” for this would undermine our freedom. This means that we don’t necessarily *need* to do anything because God will excuse our actions. With this form of grace, God does something for us; it makes humans marionettes. For it no longer matters what we choose to do; these phrases result in the elimination of our freedom. However, grace can be beneficial to us if it complements our moral efforts rather than eliminates our freedom and discouraging our moral efforts. Nevertheless, grace becomes a problem when we rely on its occurring first.

Tolly Davis

Undeclared

Comparative Literature and French

A Millennium of French Culture: Romance, Retail, Revisionism, Redemption

2: 00-4: 00 p.m. Collins 408

Troubadour Poetry: Landscape as Mirror of Medieval Identity

This project explores landscape in the panegyric poems of the Provençal troubadours as more than a simple backdrop. Landscape carries its own meaning which can deepen our understanding of medieval conceptions of love, self and other.

Allison Dellwo

Science Studies

Making Human Dinosaurs: Science, Technology, Medicine, and the State

2: 00-4: 00 p.m. Collins 105

History of Alternative Medicine in America: Opposition and Integration

In recent years, Complementary and Alternative Medicine has become increasingly popular among Americans, especially for those dissatisfied with the typical biomedical care. I will focus on the history of specific alternative therapies in America, discussing the age-old conflict between biomedicine and its unconventional counterparts. I will discuss why and how the therapies have gained popularity and remained a viable option for the past 50 years, looking into political and social factors that have shaped its recent history.

Ivo Dimitrov

History and Spanish Literature

Spanish-Speaking Identities: Feminism, Immigration, and Spain's National Anthem

9: 00-10: 30 a.m. Collins 205

National Harmony: Spain's Quest Identity

For nearly three decades, Spanish Olympic athletes had to awkwardly hum the national anthem, for it had no official lyrics. In January 2008, an unemployed man from Madrid won a national contest to write the accompanying text. Just five days later, after a very lukewarm public response, Spain's anthem was without words once again. This entertaining presentation will explore how Spanish national identity has developed since the 18th century and it will offer some reasons behind Spain's difficulty in projecting a unified patriotic image.

Ivo Dimitrov

History and Spanish Literature

Communism and its Discontents

2: 00-4: 00 p.m. Eaton 211

How to Kill 60 Million Peasants and Get Away With It

Collectivization campaigns in the Soviet Union (1928-29) and China (1955-56) sought to improve the productivity of agriculture in order to finance each country's industrialization strategy. Yet in the pursuit of modernization and national power, the countries used barbaric means to crush peasant resistance and to eliminate the reliance of the state on the village. This presentation will show how private farms became "publicly-owned" and how the degree of coercion was reflected in the success of the campaigns.

Emily Donaldson

English and Music

Hypocrisy, Gender Roles, and Sexuality in Chaucer

2: 00-4: 00 p.m. Eaton 106

Active Passivity: The Western Authenticity of Custance in Chaucer's Man of Law's Tale

This project argues that the heroine Custance in Chaucer's "Man of Law's Tale" is not, as critical trends have widely asserted, a completely passive and inhuman character. Rather, it argues that she is as active as possible within the confines of her Western social role. She wholeheartedly believes in the validity of this ideology, which makes her ostensibly passive actions authentic. Through a source study, close readings of Custance's most active moments, and comparing her to the non-Western women in the tale, this project shows how "The Man of Law's Tale" validates Western ideals through Custance's authentic passivity.

Sarah Dunford, Xun Li

Religious Studies; Exercise Science

Asian Culture in Salem

2: 00-4: 00 p.m. Eaton 307

Asian Faces on Salem Streets

The purpose of this project is to compare Asian businesses in Salem based on their location, size, architecture, decoration, ownership, customers, and other public displays. I have explored the way in which authenticity and identity figure in how Asians make meaning of their everyday practice.

John Dunton

French and Philosophy

A Millennium of French Culture: Romance, Retail, Revisionism, Redemption

2: 00-4: 00 p.m. Collins 408

Bresson's Cinema: A Man Escaped and Pickpocket

Bresson's unique style of cinematography manifests itself quite strikingly in opposition to the typical trends of "Hollywood film". Using actors with little experience, in a sense robbing them of the sort of attention movies receive due to the fame of their actors, Bresson cuts out emotion, exposing actors as people in a narrative rather than acting heroes.

Melenie Duval

Rhetoric and Media Studies

Critical Communication: Murder, Global Warming, and the Media

9: 00-10: 30 a.m. Collins 210

Case Number 016441: A Narrative Analysis of a Condemned Father's Plea

This project is a narrative analysis of statements made at the sentencing hearing of condemned murderer, Christian Longo, by his father and sister-in-law. Longo was convicted of murdering his wife and children in Newport, Oregon in December 2001. I examine the way the participants, including the media, have constructed the characters of Christian Longo and his wife, Mary Jane Longo and how this becomes the story they tell.

Ty Erisken

International Studies and German

Oregon Past and Present

11: 00 a.m.-12: 00 p.m. Eaton 211

Einladung nach Oregon

Oregon has been selected as "Destination 2009" for Germany! This video, in German, captures the highlights and uniqueness of Oregon, and promotes some of the fascinating tourism options presented to our visitors. From Crater Lake to Astoria (named for famed German entrepreneur John Jakob Astor), from OMSI to the Painted Hills, Oregon is ideal for the outdoors-y and inquisitive German tourist.

Allison Fairbanks, Emi Rhodes

Art History; Chinese Studies

Asian Culture in Salem

2: 00-4: 00 p.m. Eaton 307

Asian Faces in Salem Market

This project compares the Asian foods available in main stream markets, such as Safeway, Winco and Walmart, with the selection offered by privately owned Asian markets in the Salem area. Employees and customers of the main stream stores will be interviewed as well as the owners and customers of the privately owned markets. The data will then be compiled and analyzed in relation to the authenticity, the popularity and the variety offered by each store. This information will be archived and create a better understanding of Asian communities influence and presence in Salem.

Alexander Ford

Computer Science

Graphic Talk: Gaming, Graphs & Python Concurrency

9: 00-10: 30 a.m. Collins 105

pyTheatron – Actor Model Concurrency in the Python Language

Concurrency is a vital component of any modern computing environment. This project addresses the implementation of the Actor model of concurrent computing as a library for the Python programming language. This model is based on the concept of independently executing and asynchronously communicating “actors”, and provides a friendlier alternative to traditional lock-based concurrency for managing the complexity of concurrent programming. The relationship of the Actor model to the Object-oriented programming paradigm and the challenges of implementing the model within the Python language will be discussed.

Jessa Fox

French

A Millennium of French Culture: Romance, Retail, Revisionism, Redemption

2: 00-4: 00 p.m. Collins 408

French Prostitutes: Use for Class Commentary in the Nineteenth Century Novel

Alain Corbin writes of 19th century France that, “the bourgeois and the prostitute simultaneously took control of [Paris].” This era for the country was one of intense social conflict and change, as well as a time when circumstances and social structure allowed prostitution to flourish. The prostitute’s existence in all levels of social class and the potential for social mobility made her a useful character for social commentary at a time of class conflict. The presentation will explore how three authors, Emile Zola, Guy de Maupassant, and Alexandre Dumas films use prostitute characters for the purpose of class commentary.

Alexandra Frackelton

Politics and Spanish

Spanish Speaking Identities: Feminism, Immigration, and Spain's National Anthem

9: 00-10: 30 a.m. Collins 205

Arachne's Revenge?: Feminine Power, Weaving and La Celestina

This project examines weaving as a metaphor for feminine creative power in La Celestina. Weaving in La Celestina is a cover for illicit activities, the object of demonic possession, and the method of re-virginizing young women. I argue that although Celestina tries to use weaving to gain power, by using the tools of the patriarchal system she is eventually trapped by her own spell, both figuratively and literally enchained. However, in the hierarchical medieval world there are few options for women to gain social power, and to escape or fundamentally challenge the system often means ostracism or death.

Rachelle Fryd, Meredith Roberts

Chemistry; Chemistry

Poster Presentations

1: 00-2: 00 p.m. Willson-Hines, Goudy Commons

Cancer: One Step Closer to the Cure

Cancer researchers have recently begun to investigate ruthenium compounds as potential chemotherapeutics due to their effectiveness and low toxicity. One promising ruthenium-based drug, NAMI-A, is currently in Phase II clinical trials; yet, little is understood about its reactivity. After successfully synthesizing and characterizing NAMI-A, we examined the pH dependence of its reactions in water. Specifically, we are interested in determining the order in which ligands are replaced by water molecules. The interaction between NAMI-A and glutathione, an abundant biological component, was also investigated. Our results will be discussed in the context of how inorganic chemistry can be interfaced with medicinal pharmaceuticals.

Rachelle Fryd, Meredith Roberts

Chemistry; Chemistry

Cell Signaling Pathways and Cancer Prevention

2: 00 p.m.-4: 00 p.m. Olin 301

Cancer: One Step Closer to the Cure

Cancer researchers have recently begun to investigate ruthenium compounds as potential chemotherapeutics due to their effectiveness and low toxicity. One promising ruthenium-based drug, NAMI-A, is currently in phase two clinical trials; yet, little is understood about its reactivity. After successfully synthesizing and characterizing NAMI-A, we examined the pH dependence of its reactions in water. Specifically, we are interested in determining the order in which ligands are replaced by water molecules. The interaction between NAMI-A and glutathione, an abundant biological component, was also investigated. Our results will be discussed in the context of how inorganic chemistry can be interfaced with medicinal pharmaceuticals.

Lisa Glasspool

Music Education

Music Performance

4: 00-5: 00 p.m. Rogers Music Hall, Hudson Concert Hall

"Le Merle Noir" by Olivier Messiaen

"Le Merle Noir" ("The Blackbird") is a piece written by Olivier Messiaen in 1952 for flute and piano which reflects his interest in ornithology and birdsong. The interactions between the two instruments were intended to be a reflection of the song of blackbirds. Although this is not the first piece that Messiaen has written to incorporate birdsong, Le Merle Noir is his earliest piece to be based primarily on birdsong.

Anna Greenswag

Chemistry

Poster Presentations

1: 00-2: 00 p.m. Willson-Hines, Goudy Commons

Progress Towards the Design and Synthesis of a Tetracaine Derivative as a Bifunctional Ion Channel

Cyclic nucleotide-gated (CNG) ion channels are found in many tissues of the body. However, only those found in the eye and olfactory system are very well understood. In an attempt to gain a greater understanding of cell signaling, we have designed a CNG channel blocker. In this research, we are synthesizing a derivative of tetracaine, a known nonselective moderate blocker. Past research has shown that increasing the butyl tail to an octyl tail improved the potency by approximately 5 fold. Progress has been made on the synthesis of an aminooctyl tail with the eventual goal of creating a bi-functional blocker containing a cGMP moiety. Herein we describe the synthetic challenges of attaching the aminooctyl tail. The original proposed synthesis called for a nucleophilic aromatic substitution of a 4-chlorobenzoic acid by a 1,8 diaminoctane. This proved to be difficult so multiple attempts of mono-protection of the 1,8-diaminoctane were preformed. As the nucleophilic aromatic substitution still proved to be ineffective and occur in low yields a new synthetic scheme was developed utilizing a 4-fluorobenzonitrile as the aromatic starting material.

Becky Gullberg

Mathematics

Dangers of the Free Market

2: 00-4: 00 p.m. Eaton 425

Ghanaian Healthcare Professionals: Private Decisions, Public Impacts

I have had the opportunity to travel to two different countries in Africa in order to study the international migration of healthcare professionals. This is a significant issue due to the increasing number of healthcare professionals who are migrating to developed nations in search of better working conditions, further education, more money, etc. These professionals leave behind them nations who are striving for development under the burden of both infectious and chronic diseases. As we all find ourselves in the middle of this increasingly globalized society we must adapt and take action.

Philip Handke

Rhetoric and Media Studies

Critical Communication: Murder, Global Warming, and the Media

9: 00-10: 30 a.m. Collins 210

The Pen is Mightier than the Metaphor: A Metaphorical Analysis of Global Climate Change in International Editorial Cartoons

This essay analyzes international editorial cartoons using metaphor theory. Metaphor theory is used to the extent that visual metaphors constitute a physical blending of two distinct images and experiential domains within a global climate change case study. The enthymematic nature of metaphor enhances the argumentative capabilities of the cartoonist and his or her ability to construct concise and coherent commentaries on complex information. These functions create an alternate medium for communicating complex issues to a wider public audience.

Hannah Harper

Undeclared

The Arts and Identity in South Africa

2: 00-4: 00 p.m. Collins 210

The Arts and Identity in South Africa

By looking at the Arts of South Africa in socio-historical context, we will examine the role of art, theater, film and music in the creation of contemporary South African identity. From 1948 to 1994 South Africa was ruled by a repressive white minority government that instituted and enforced a policy of apartheid or racial segregation. The black majority resisted apartheid with every means at their disposal, and the arts played an important role in the liberation struggle. After the end of apartheid the arts were instrumental in the construction of a new, shared South African identity, and functioned as an agent of reconciliation. In South Africa the arts are both a cultural identity marker and a unifying force that transcends the barriers of specific ethnic identities. South Africans today use culture as both a weapon in the struggle for equality and an instrument of forgiveness. The nature and function of the arts changed as the country itself was transformed from a battleground to a vibrant melting pot. The panel will examine music, theater and film of the apartheid and post-apartheid eras in socio-historical context.

Greg Henselman-Neshyba

Math and Classical Studies

Presidential Scholars Panel

1: 00-2: 00 p.m. Hatfield Room, Mark Hatfield Library

Generating Given-Genus Sample Sets

Suppose you are given a napkin in the shape of a polygon. You glue each edge of the napkin to one other, and when you are done you'll have a three dimensional shape. What does it look like? Depending on which edge was glued to which, you may have a doughnut, a crane, a figure eight, etc. We suspect that important differences exist between the gluings that generate some 3D objects and those that generate others. Specifically, we are motivated by observations in math and physics to compare the eigenvalue density distributions of adjacency matrices which describe genus X gluings

with those of adjacency matrices for graphs of genus Y gluings. The present study addresses this comparison and the computational complexities it entails.

Drew Himmelreich

Asian Studies

Asian Awareness

9: 00-10: 30 a.m. Eaton 412

Beyond Apology in Sino-Japanese Relations

Apology is often looked to as a primary hindrance to diplomatic relations between Japan and China. While apology is a very important issue for Japan in its East Asian relations, more deep-seated conflicts exist between Japan and China.

Takako Hiraishi, Yoko Kaneko, Gansukh Khurelbaatar, Izumi Takahashi

International Relations and Language Communication

Poster Presentations TIUA

1: 00-2: 00 p.m. Willson-Hines, Goudy Commons

Shrinking Ice Cap

Jaime Hodgkin

Economics

Big Ideas in Economics: Garbage, Hip-Hop, Housing and Redevelopment

2: 00-4: 00 p.m. Eaton 412

Redefining Conspicuous Consumption: Veblen, Hip-Hop, and Bling Bling

This project focuses on establishing the relevance and changing nature of Thorstein Veblen's theories on conspicuous consumption, as shown through the specific context of contemporary mainstream hip-hop. A close analysis of hip-hop culture and application of Veblen's theories will allow for a useful insight into the consumption patterns of hip-hop culture, providing both connections and distinctions from previously established definitions. Additionally, through this study the social and cultural implications of hip-hop consumption patterns will provide an opportunity to examine determinants as well as policy solutions to the inherent negative effects.

Rachel Hohler

Theatre

The Arts and Identity in South Africa

2: 00-4: 00 p.m. Collins 210

The Arts and Identity in South Africa

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Sachie Imai, Yuki Kamiyama, Takuma Yoshizawa

TIUA

Poster Presentations TIUA

1: 00-2: 00 p.m. Willson-Hines, Goudy Commons

Alternative Energy

Kyu Imamura, Yuki Matsuda, Tetsuya Matsumoto
International Relations and Language Communication
Poster Presentations TIUA
1: 00-2: 00 p.m. Willson-Hines, Goudy Commons
Recycling

Raino Isto
Politics and Art History
Art Interpretations: Degas, Duchamp, and the Book of Hours
9: 00-10: 30 a.m. Collins 204

The Window into Discourse: Negation, Affirmation, and Postmodern Language in Marcel Duchamp's The Large Glass

This essay analyzes Marcel Duchamp's postmodern approach to language in The Large Glass, using the writings of Friedrich Nietzsche and Ludwig Wittgenstein to provide a theoretical framework in which to situate the patterns of meaning generated by the work. I focus particular attention on Duchamp's consciousness of art's dependence on language, manipulation of contextual discourses, use of humorous and absurd metaphors, and his critique of absolute truths in art and language. Ultimately, Duchamp's playful restructuring of verbal and visual paradigms is an attempt to reaffirm the power of artistic creativity in the face of a kind of postmodern aesthetic nihilism.

Raino Isto
Politics and Art History
Hannah Arendt and Political Responsibility
11: 00 a.m.-12: 00 p.m. Eaton 307

Leni Riefenstahl and the Artist's Political Responsibility: Critically Re-Reading Hannah Arendt's Theory with Nietzsche, Heidegger, and Merleau-Ponty

This paper examines the question of the artist's political responsibility, focusing upon the case of Leni Riefenstahl, the infamous German director of Triumph of the Will, the documentary of the 1934 Nazi Party Rally. The essay approaches the dilemma of attributing responsibility to the artist using a framework provided by Hannah Arendt's political writings, but argues that Arendt's theory is unable to sufficiently address the questions at hand. A modification of Arendt's model, using the ideas of Friedrich Nietzsche, Martin Heidegger, and Maurice Merleau-Ponty, is offered, and the issue of the artist's political responsibility is re-evaluated.

Katie Johannsen
Politics
Buying Green and Dynamic Populations
11: 00 a.m.-12: 00 p.m. Collins 205

The Limits of Buying Green: A Critical Assessment of Green Consumerism

Recognizing that consumer choice can be a form of political action, the proliferation of 'green' in the marketplace prompts the question: how well can markets respond to environmental degradation? Green consumerism has become increasingly popular, as is evident in advertisements that emphasize environmental friendliness and green consumer guides that inform people which product alternatives most benefit the environment. While consumers seem to be responding, both 'traditional environmentalists' and 'free-market environmentalists' see different potential problems with this trend. Using the case studies of the automobile industry and the personal care/cosmetics industry, this paper evaluates competing concerns over green consumerism.

Amy Johnson
Sociology
Social Issues in the States
2: 00-4: 00 p.m. Smullin 129

Helping the Hungry: A Sociological Analysis of Food Service Organizations in the Willamette Valley

This research examines the problem of food insecurity in the Willamette Valley. Within this project, I interviewed leadership in 15 not-for-profit organizations about their emergency food services. My

findings demonstrate that the vision and activities of the majority of these programs are oriented towards providing emergency food boxes as a means to cover immediate food needs, without the resources to address greater structural issues. However, as a number of these programs endorse, I argue that in order to alleviate regional hunger, solidarity must be developed within the community and pressure must be applied on the institutions that aggravate food insecurity.

Emily Johnson

French

Social Issues in Modern France

11: 00 a.m.-12: 00 p.m. Eaton 425

Perspectives on Neutrality, Secularity and the Health-Care System in France

This project explores the implications of France's secularity laws on current French society. In the past, secularity laws were in place to restrict the power of the Catholic Church, but today they often come into conflict with immigrant communities. I plan to examine how these laws are implemented in French hospitals, a setting where public and private spheres intersect.

L. Wailana Kalama-Smith

Comparative Literature and History of Ideas

Asian Awareness

9: 00-10: 30 a.m. Eaton 412

Islamic Influence in Timurid Architecture

This project will describe how and why Islamic arts and architecture influenced parts of Central Asia, especially during the reign of Timur the Lame (Tamberlane) and his successors during the 14th and 18th centuries. It will be a cross-cultural analysis of religion and arts, drawing on observations from primary sources as well as modern records. It will also note how Central Asia serves geographically as a crossroads and a melting-pot of Eastern and Western cultures, and is a major factor in the exchange of ideas, law, languages, religion, arts, and peoples.

Stephen Kearns

Science Studies

Making Human Dinosaurs: Science, Technology, Medicine, and the State

2: 00-4: 00 p.m. Collins 105

Viability of Telomerase in Life Extension in the United States

Controlling the activity of the enzyme telomerase has been proposed as a method of human life extension, with attendant biological and societal consequences. I will then discuss the discovery and biological activity of telomerase, and explore the history of life extension and immortality. Finally, I will discuss how telomerase-driven life extension could cause rifts in U.S. society.

Kyle S. Kertay

Environmental Science

Buying Green and Dynamic Populations

11: 00 a.m.-12: 00 p.m. Collins 205

The Dynamics of Population Debate Expressed Through American Popular Magazines, 1991-2007

This study investigates the fluctuation in debate concerning human population and overpopulation over the past sixteen years and utilizes publications of articles about population within popular magazines as a way of measuring the ferocity of debate. Over 300 articles were categorized according to the argument frames they included (and other factors). This presentation discusses the distribution of articles as they relate to major events within the timeline and to the issue attention cycle. This study was designed as a continuation of Wilmoth and Ball's population study measuring debate from 1946-1990.

Daniel J. King

History/3-2 BA-MBA

Communism and its Discontents

2: 00-4: 00 p.m. Eaton 211

Pragmatism, Radicalization, and Revenge: Domestic Policy, The Sino-Soviet Relationship, and the Progression of Mao Zedong Thought, 1949-1959

This project will examine the role that the Sino-Soviet relationship, when combined with Chinese Domestic (economic, political, and social) pressures, played in the radicalization of Mao Zedong's ideology. Given Mao's power at the time, his ideology became, with a few marked exceptions, Chinese Communist Party policy. By examining a number of Mao's speeches and writings in the context of above-mentioned factors, the paper will unravel the "drivers" behind one of the most important ideological turns in the 20th century.

Nicholas Knauer

English

Video Art

11: 00 a.m.-12: 00 p.m. Olin 408

In this presentation, five students will show examples of the work we have created in two semesters in the video art field. We will discuss genres of video art they relate to our own artwork, our influences and the creative processes of making video artwork.

Kimberlee Kogane

French and Mathematics

Social Issues in Modern France

11: 00 a.m.-12: 00 p.m. Eaton 425

Nicholas Sarkozy and the Question of Immigration in France

Nicolas Sarkozy's desire to change the immigration and integration policies in France started when he was appointed as Minister of the Interior. As the current president of France, one of his primary goals is to make the immigration system in France more effective. The changes that Sarkozy is proposing do not solve the problem of integration in France, but rather, they create a system that is more restricted and ethnic populations that are more separate.

Kimberlee Kogane

French and Mathematics

Music Performance

4: 00-5: 00 p.m. Rogers Music Hall, Hudson Concert Hall

Acht Stücke

Acht Stücke is a piece by Paul Hindemith (1895-1963) for solo flute.

Faith Kreskey

Art History

Art: Modern Installations and Traditional Ceramics

11: 00 a.m.-12: 00 p.m. Collins 210

Infinite Light: Yayoi Kusama's Mirror Rooms

Yayoi Kusama is a contemporary Japanese artist who has produced a huge number of works in her fifty-year career. In this essay I examine three works of light sculpture from Yayoi Kusama's Mirror Room series and their two contradictory levels of meaning. On one level, these three room installations can be enjoyed simply for their aesthetic value. However, there is a deeper undercurrent of meaning in these works that springs from a complex philosophical system that Kusama has created. In my discussion, her philosophical ideas are presented in a biographical and cultural context in order to effectively identify and define the symbols that form the visual vocabulary she uses in these works. The dual nature of these works allows them to function for both the casual viewer and also for those who are well versed in Kusama's ideas.

Shasta Krueger

Studio Art and Biology

Art: Modern Installations and Traditional Ceramics

11: 00 a.m.-12: 00 p.m. Collins 210

Collaborative Relations: An Exploration of Royal Copenhagen Porcelain

During the summer of 2007, I worked among professional and emerging artists in a community studio at Guldagergaard, an International Ceramic Research Center in Denmark. I used this opportunity to work with Royal Copenhagen porcelain, a distinctive Danish clay. As an artist in clay, I mostly work with altered forms, through additions and manipulations, which reflect on nature. This body of work explores texture on the rich smooth surface of the porcelain and reflects the direct and indirect roles of collaboration.

Johannah B. Larsen

Environmental Science

Living Sustainably in the Willamette Valley

9: 00-10: 30 a.m. Collins 408

Potential for Bicycle Commuting Among Willamette University Employees

The purpose of this project is to estimate the amounts of carbon dioxide emissions that are being saved, or could be potentially be saved, by bicycle commuters among Willamette University's faculty and staff. Data for this project were collected and analyzed through population mapping, commuter habit surveys, and bicycle route field testing. This presentation will explain the process of the project and discuss the results, as well as display some images from the resulting GIS.

Trevor Latal, Charlie Maines, Maya Ramsey, Celidh Scott, Karissa Smith, Cassandra Taylor, Joshua Torassa, Matt Wolpa, Marcus Woo

Undecided

Dissent Colloquium Videos

11: 00 a.m.-12: 00 p.m. Eaton 412

Hell No We Won't Go: Democracy & Dissent Videos from the College Colloquium

From "give me liberty or give me death" to "we're mad as hell and we're not going to take it anymore!" this College Colloquium course explored how Americans of all stripes have articulated disagreement, disapproval, opposition, defiance, and protest throughout history. Students spent the semester exploring dissenting discourse and its expression through a variety of texts, including movies, television, music, newspapers, and speeches. This panel showcases short videos developed by students as a way to explore different facets of democratic dissent, and enacting a dissenting voice of their own.

John Lawrence

Computer Science

Graphic Talk: Gaming, Graphs & Python Concurrency

9: 00-10: 30 a.m. Collins 105

The Effectiveness of Learning AI Players in Real Time Strategy Games

Real time strategy games are a very popular genre in the commercial gaming industry. However, more realistic computer opponents in these games are often overlooked in favor of better graphics or new game play features. The goal of this project is to explore the possibilities of applying the latest adaptive artificial intelligence techniques in a real time strategy environment. The results will be discussed and then audience members can play against the computer opponent's first hand in the Collins Linux lab.

Shannon Levin, Victoria Swigart

Exercise Science; Exercise Science

Poster Presentations

1: 00-2: 00 p.m. Willson-Hines, Goudy Commons

One Small Step for Hikers but one Giant Leap for Ecological Validity: Taking Research Outside, a Kinematic Study of Hiking Downhill

The purpose of this study was to examine the use of an indoor ramp in comparison to an outdoor slope while hiking with and without trekking poles. Ten participants walked downhill over four conditions at a slope of 15 degrees. Video was recorded (60Hz) and EMG (1000 Hz) was collected from five muscles in the lower extremity and back. Pole use was advantageous in most cases, both indoors and out. Caution is warranted when examining the kinematics and muscle activity of hiking in a lab setting, since the poles are used differently on a simulated hill compared to a trail.

Forrest Lindsay-McGinn

Environmental Science

Living Sustainably in the Willamette Valley

9: 00-10: 30 a.m. Collins 408

A Sustainable Urban Model for the City of Salem, Oregon

This project demonstrates how urban agriculture, alternative transportation, appropriate technologies and riparian corridors can be utilized to achieve sustainability in Salem, Oregon. The project uniquely tailors green urban planning concepts for Salem by drawing on the demographics, community preferences and environmental history of the city. The model will be shown and its underlying strategies will be presented and discussed.

Sarah Lydecker

Art History

Corporeal Research in the Theatre: Creating Bodies in Space

11: 00 a.m.-12: 00 p.m. Eaton 106

Truth Illuminated Through Ritual: Concepts of Self in Morality Plays

I examine how the ritualistic elements within Morality Plays establish religious doctrine as truth. Morality Plays create a world of heightened religious truth through enacted ritual. Man is created with a freedom of will along with an inherently sinful nature, yet he must subvert that tendency in order to find salvation. This discussion is accompanied with original costume designs for *The Castle of Perseverance*; by far the most intricate of the surviving Morality Plays. The costume designs serve to embody this view of the individual within society as man tries to understand his environment.

Tatiana Mac

Environmental Science and Mathematics

Living Sustainably in the Willamette Valley

9: 00-10: 30 a.m. Collins 408

Qualitative and Quantitative Valuation of Trees on the Willamette University Campus Using Geographic Information Systems Data

Trees are a contributor to both the natural and built environment. Although their interactions with forest and riparian ecosystems are more thoroughly understood, research in the last decade has shown that trees help with problems unique to the urban environment. Trees help with both human physical and psychological health problems, improve the urban environment, provide innumerable energy savings, and ultimately, add an important and necessary natural aspect to the city. Through qualitative and quantitative techniques, this project seeks to determine the value of the trees on the Willamette University campus, through analysis of shade cover and individual tree characteristics by aerial photography and Geographic Information Systems data.

Melissa Magana

Classical Studies

Italian Summer: Past and Present

11: 00 a.m.-12: 00 p.m. Collins 105

An Italian Summer: Cultural, Historical, and Archeological Insight

This presentation will provide a detailed log of summer experiences in Italy while participating in the Sangro Valley Project, an archeological field school in rural Italy. In addition, the importance of having a basic understanding of and experience with archeological study as a Classical Studies major will be highlighted. Likewise, the presentation will also discuss relevant insights gathered about Italian culture, Roman history, and archeological practice. Finally, this presentation will share the personal impact and growth that this miniature study-abroad experience allowed the student.

Katrina Maher

Art History and Biology

Art Interpretations: Degas, Duchamp, and the Book of Hours

9: 00-10: 30 a.m. Collins 204

Reading the Social and Religious Messages of the Virgin in the Praeces Piae

This thesis examines the social and religious messages that fifteenth century women would read in images of the Virgin Mary from the Praeces Piae, a Book of Hours owned by Willamette University. The Praeces Piae was owned by women over the generations, and this thesis argues that internal evidence suggests that it was specifically created for a female reader. Analysis of the five miniatures that depict the Virgin, the Annunciation, the Crucifixion, the Pentecost, the Pietá, and the Virgin and Child, it is possible to explore the virtues that Mary embodied that women were expected to emulate.

Katsuya Makino, Yuka Saito, Rika Sakumoto

TIUA

Poster Presentations TIUA

1: 00-2: 00 p.m. Willson-Hines, Goudy Commons

Melting Polar Ice Caps

Allison Martin

Spanish

Computer ABCs: Animations, Bodies, and Compositions

11: 00 a.m.-12: 00 p.m. Collins 204

NoruKa SoruKa: Creating a Multimedia DVD

This presentation describes the creation of a music and dance DVD. The multi-phase project was sponsored by the Keck Arts and Technology Grant. Preproduction included developing a recording plan, dealing with technology and artist logistics, creating audio recording templates in Logic Pro, and developing models in iMovie and iDVD for a reference video. The recording phase required a remote studio setup, running of performance lighting, and shooting the reference video. Post-production involved three phases: First, the audio was mixed and mastered; second, the video was edited and composited with the audio using Final Cut Pro; lastly, the DVD design was finalized and proofed.

Emily Maxwell

Psychology

The Human Body: Parkinson's Disease and Synesthesia

11: 00 a.m.-12: 00 p.m. Collins 201

Visual and Auditory Perspectives in a Case Study of Time-Space Synesthesia

Galton (1883) first described the perceptual experiences of time-space synesthesia, in which units of time are associated with specific locations in three-dimensional space (Smilek et al., 2007). I will discuss experimental data where synesthete E.M. was tested for her subjective account of months of the year. She experiences the months upside-down when spoken and upright when written. An attentional-cueing paradigm, which made millisecond comparisons between E.M. and control participants, indicated that E.M.'s experiences for months are psychologically valid. The findings point to a relationship between sight and sound in time-space synesthesia, and support the notion that spatial representations can influence attention.

Tara A McLauchlan

Psychology and Theatre

Investigating Performance History: Theatre as an Agent of Progress

2: 00-4: 00 p.m. Olin 302

A Voice for the Voiceless: Athol Fugard's Effect as a White South African Dramatist

Fugard, a white South African playwright, utilized his privilege to benefit and aid the Black and Colored South Africans in their struggle against Apartheid. His plays, some of which have achieved global success, emphasized the pettiness of Apartheid laws and presented to both Black and white audiences the real-life struggles of oppressed peoples. His trend of late, however, has shifted towards a global stage; which has in turn shifted his writing towards the promotion of stereotypes in modern South African society.

Sam Menefee-Libey

Critical Theory and Social Justice

Walmart, Justice Movements, and Inequality

2: 00-4: 00 p.m. Collins 201

Anti-Racism Lite: Race, Class, Gender, Sexuality, and Oppression in US Films about Racism

This project examines the films: American History X (1998), The Green Mile (1999), Remember the Titans (2000), Monster's Ball (2001), Bad Boys II (2003), Crash (2005), The Departed (2006), and Hairspray (2007). This set of, supposedly counter-hegemonic, films perpetuate dominant ideologies of racism, sexism, classism, and heterosexism. They also create an atmosphere of misinformation that leads viewers to believe that the portrayals of bigotry on screen reflect the true nature of racism and they make invisible the true roots of inequality. This presentation explores the nature and consequences of this dynamic.

Hannah Mitchell, Steven Yasumura, Glen Boulware

Sociology, Sociology, Sociology

Researching Our Community: Admission, Athletics, and the Willamette-TIUA Relationship

9: 00-10: 30 a.m. Eaton 307

The Evolution of the Willamette University Recruitment Process from 1999-2006

Willamette University's admission practices have evolved from 1999 to 2006. By focusing on the visual portrayal of university life through recruitment materials and data provided by admission's staff, we break down the multifaceted misrepresentation of diversity on campus through the following multi-method approach: (1) a quantitative analysis of recruitment materials and (2) a qualitative analysis of staff interviews. The data collected comes from the Office of Admission, the Office of Communication, and university archives. This research provides supporting evidence that reveals uncertain intentions and uncertain results when targeting diverse populations of students.

Hannah Mitchell

Sociology

Walmart, Justice Movements, and Inequality

2: 00-4: 00 p.m. Collins 201

More to the Protesters than Meets the Eye: A Look at How Intersectionality of Race/Class/Gender Play into the Anti-Wal*Mart Movement

This project explores how intersectionality of race/class/gender affects and structures social moments, with specific relation to the Anti-Wal*Mart movement. A number of Anti-Wal*Mart Protesters from around the country have participated in this study. Protesters participated in open-ended interviews about their life, background in activism, and personal identities. These complex issues of personal intersectionality will be woven together with aspects of the social movement to come to a better understanding of the Anti-Wal*Mart movement as a whole.

Lindsey Mizell

International Studies

Social Issues in the States

2: 00-4: 00 p.m. Smullin 129

One Nail at a Time: Recovery in Post-Katrina New Orleans

Will New Orleans ever recover? This project explores the natural and manmade events that led to the flooding, the work of several recovery NGOs, the current state of rebuilding citywide, and the vision for the future of New Orleans. I will draw from my 9-month experience of working with the following NGOs: United Methodist Committee on Relief, Hands On New Orleans, Phoenix of New Orleans, ACORN New Orleans, and Habitat for Humanity.

Bonnie Monk

Music Education

Music Performance

4: 00-5: 00 p.m. Rogers Music Center, Hudson Concert Hall

Senior Conducting Project: Musick's Empire by Lloyd Pfautsch

This project involved extensive preparation to teach and conduct Lloyd Pfautsch's "Musick's Empire," poetry by Andrew Marvell. Preparation involved analyzing Marvell's poetry and Pfautsch's music. In "Musick's Empire," the musical textures are presented in a very purposeful manner and have a strong

connection with the evolution of Western musical tradition, from Gregorian chant and organum to polyphony and homophony.

Casey Murphy

Economics

Big Ideas in Economics: Garbage, Hip-Hop, Housing and Redevelopment

2: 00-4: 00 p.m. Eaton 412

The Trash Compactor: Price Effects of Market Concentration in the Landfill Industry

Recent mergers in the landfill industry have reduced the number of firms in many markets to levels that are considered highly concentrated. Economic theory indicates that, given the right conditions, firms in highly concentrated markets are able to form a cartel with the goal of maximizing profits at the consumer's expense. The purpose of this project is to test empirically whether the newly formed landfill oligopolies are colluding to increase the price of dumping garbage, known as tipping fees.

Andy Myer

Environmental Science

Italian Summer: Past and Present

11: 00 a.m.-12: 00 p.m. Collins 105

Ancient Terroir: Understanding the Human Interaction with a Changing Landscape

This study correlates the suitability for areas of modern grape production with the potential for grape growing in the archaeological past. It closely examines the environmental impact that ancient viticulture may have had on the natural and human ecologies in the Mediterranean uplands and how that potential impact may be preserved in the archaeological and geomorphological record. Focusing on the middle valley of the Sangro River, Abruzzo, Italy, the current study connects field observations with archaeological data collected over the past decade.

Andy Myer

Environmental Science

Poster Presentations

1: 00-2: 00 p.m. Willson-Hines, Goudy Commons

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Sayaka Namiki, Sara Namikwa, Yumiko Sato, Ye Zhao

Language Communication and Business

Poster Presentations TIUA

1: 00-2: 00 p.m. Willson-Hines, Goudy Commons

Extreme Weather

Lucas Nebert

Chemistry

Cell Signaling Pathways and Cancer Prevention

2: 00 p.m.-4: 00 p.m. Olin 301

A Dynamical Comparison between the Apo-wild-type Trp Repressor Protein and a Temperature Sensitive Apo-L75F-TrpR Mutant through Use of NMR-derived Backbone Order Parameters

The tryptophan repressor protein (TrpR) has been the focus of several studies involving protein NMR spectroscopy due to the role of intrinsic flexibility in its non-cooperative binding of Trp corespressor ligand and subsequent binding to DNA sequences of the Trp operon. L75FTrpR is a naturally occurring temperature sensitive mutant where leucine-75 is replaced with phenylalanine. The L75F mutant dissociates more readily from DNA than the wild-type (WT) form, while essentially retaining

wild-type structure, implicating that biochemical variation between the two forms occur due to differences in dynamics. In this study, we sought to elucidate putative dynamical differences between the two forms by performing two-dimensional ^1H - ^{15}N NMR experiments on backbone amide nitrogens. We elucidated transverse (T_1) and longitudinal (T_2) relaxation time constants, as well as $^{15}\text{H}\{-^1\text{H}\}$ NOE values for all resolved ^{15}N - ^1H peaks of both apo-L75F and apo-WT forms of TrpR. These three relaxation parameters were utilized to solve for backbone order parameters (S_2) and correlation times (τ_e) of internal motions by assuming Lipari-Szabo model-free formalism. S_2 and τ_e values were solved by use of a combination of NORMAdyn and FAST-Modelfree programs. Comparison of S_2 values between the mutant and wild-type forms reveals that DNA binding helices D and E of the helix-turn-helix motif are qualitatively more ordered in the L75F mutant compared to WT-TrpR. These studies may help explain differences in biochemical activity between the two forms of TrpR.

Tracie Nygaard

Theatre and English

Investigating Performance History: Theatre as an Agent of Progress

2: 00-4: 00 p.m. Olin 302

Making a Pointe

Dancers are performers who tell a story, much like the role of an actor who conveys a message to the audience. Yet this only represents the tip of the iceberg of the connections between dance and theatre. By analyzing the development of theatre in Hellenistic Greece (City Dionysia Festival), the French Neoclassic Period (during the reign of Louis XIV) and in Romantic Europe (Marie Taglioni), it is apparent that the influence of dance has been imperative to the advancement of theatre at the time. As I step through history to analyze these particular stages, we note that while the style of dancing has changed, the effect on theatre development during each of these stages remains significant.

Peter Olson

Biology

Birds & the Bugs

9: 00-10: 30 a.m. Collins 201

Evolution of Social Intelligence in Birds

Recent discoveries show that Corvidae (crows, jays, and ravens) have larger brain sizes, more advanced cognition, and more complex social groups than other bird families. This study used birds to understand how intelligence has evolved separately from primates. In particular, the purpose of this study was to discover the effect that social complexity had on the evolution of intelligence. The correlation between group size and tool use supports the hypothesis that intelligence has evolved as an organ for social networking and group maintenance.

Devin O'Rourke

Religious Studies

Kant: Reason, Morality and Faith

9: 00-10: 30 a.m. Eaton 211

The Role of Biblical Narrative in Kant's Pure Religion of Morality

My project focuses on the role of narrative in Kant's religion of morality. More specifically, I explore how we can identify biblical narrative as a figurative representation of a religion of morality that is present within each person universally. There are key elements to the narrative that make it recognizable, by Kant's understanding, as the most complete figurative representation of a pure, moral religion. From the fall of humanity represented in the Adam and Eve narrative, up to the ascension of the Christ, Kant interprets biblical narrative as a figurative description of the universal, moral process that happens in all people constantly, rather than as events that took place at isolated periods of time.

Tiffany Ortega

Rhetoric and Media Studies
Asian Culture in Salem
2: 00-4: 00 p.m. Eaton 307

A Vanishing Culture: The Outset of Salem's Local Mien

This presentation explores the existence of the Mien people in Salem. Mien people began to migrate to the United States in the 1980s. However, the history and everyday life of this Mien group has yet to be documented. By focusing on the oral narratives and the public display of the Mien, this presentation attempts to understand how the Mien people construct their own identity through multiethnic interactions in Salem.

Melissa Ostermick

Biology and Spanish
Birds & the Bugs
9: 00-10: 30 a.m. Collins 201

Preference of Sugar Concentration and Feeder Location by Anna's Hummingbirds, *Calypte anna*

Anna's Hummingbirds, *Calypte anna*, are prevalent in winter months on the Willamette University campus in Salem, Oregon, due to the abundance of hummingbird feeders. The metabolism of hummingbirds requires a high daily caloric intake, which may be met through frequent feedings or high sugar concentrations in their food supply. In this study, I investigate whether Anna's Hummingbirds make a preference between 20% and 25% sugar concentrations in nectar. I also explore the role that feeder locations play in the selection made by feeding Anna's Hummingbirds.

Caitlin Palo

Russian, and English
Literary Society: Virginia Woolf, William Faulkner, & Carson McCuller
9: 00-10: 30 a.m. Eaton 106

"Between the Acts" of History: Claiming Agency in the Narrative of Existence

I have investigated the relation between the daily lives of the characters of Virginia Woolf's novel "Between the Acts" and the broader scope of history and society. The teleological structure that history, tradition and convention provide are challenged and redefined as the characters move from passive audience members waiting for the Pageant at the center of the novel, to the actors of that pageant. Through this investigation, the complex act of making history, rather than living out the predestined teleological trajectories that history suggests exists, is revealed.

Karla Penman

Biology and Science Studies
Making Human Dinosaurs: Science, Technology, Medicine, and the State
2: 00-4: 00 p.m. Collins 105

The Hierarchy of Heredity: Current and Historical Patterns of Intellectual Integration in Genetics

The field of genetics has developed beyond the scope of biology, demanding the attention of physicists and chemists, and today encompasses computer scientists. Through years of academic integration, a wealth of knowledge about our heredity has been gleaned. The human genome project, and the current personal genome project, usher forward intelligence reliant on public and corporate participation. The underlying questions about our heredity are no less intriguing today; however, the means of addressing those questions are no longer in the control of scientists alone.

Jamie Perros

English
Literary Society: Virginia Woolf, William Faulkner, & Carson McCuller
9: 00-10: 30 a.m. Eaton 106

Art and Immortality: William Faulkner, the Human Heart, and the Creation of The Sound and the Fury

This project explores William Faulkner's aesthetic on writing as exemplified in *The Sound and the Fury*. It unveils an intranarcissistic relationship fashioned between artist and art in which the aesthetic entwines with the erotic, as demonstrated between Faulkner and his muse-like character Caddy Compson. It reveals how Caddy is the object of desire not only in Faulkner's heart, but also in the hearts of each character within the text. This project celebrates the novel's achievement of artistic immortality, an achievement attributed to the belief that its source of creation emanates from exactly the same source as a human being's immortality: the soul.

Jamie Perros

English

Making Human Dinosaurs: Science, Technology, Medicine, and the State

9: 00-10: 30 a.m. Eaton 106

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Ian Portner

English

Hypocrisy, Gender Roles, and Sexuality in Chaucer

2: 00-4: 00 p.m. Eaton 106

Queering the Fabliau: A Discussion of Chaucer's Shipman's Tale's Critical History and its Ambiguity of Narrator, Genre, and Theme

This project contrasts Geoffrey Chaucer's presentation of "The Shipman's Tale" with other fabliaux both in *The Canterbury Tales* and in contemporary literature—showing both a deconstruction and queering of the form. "The Shipman's Tale" diverges from the traditional bawdy fabliau with subdued sexual metaphors and an ambiguity as to which character benefits from the tale's schemes—allowing for a reading of the tale as a deconstruction of the fabliau genre. This reading relies upon past critical analysis of the tale's relation to its analogues in Giovanni Boccaccio's *The Decameron*, and its dramatic setting within *The Canterbury Tales*.

Victor Reeser

Japanese Studies

Asian Awareness

9: 00-10: 30 a.m. Eaton 412

The Difference in Expression in Japanese Society vs. Japanese Media

I will be presenting information on the structure of Japanese society. After giving a descriptor, I will talk about how their forms of expression offer much more emotion than one would expect from the outer facade of Japanese society.

David Reichert

Anthropology

Computer ABCs: Animations, Bodies, and Compositions

11: 00 a.m.-12: 00 p.m. Collins 204

Honolulu Summer: "Meaning of Summertime," "Broken Windows," and "Waikiki"

The trio of musical compositions by David Reichert represents the artist's summer experiences in Honolulu, Hawaii. The first song, "Meaning of Summertime," is written to brief excerpts of Walt Whitman's poem "Leaves of Grass," and examines the artist's attitudes throughout his Hawaiian trip. "Broken Windows" is the second piece in which a saxophone is played through a guitar amplifier, and portrays the experience of a nightclub bouncer. The final song, "Waikiki," describes the Hawaiian beach and its ambiance. The songs use a minimalist structure, and a music synthesizer creates the

unique sounds. Each piece is composed, recorded, mixed and mastered in a computer-based environment.

Reed Renfrow

Politics and Spanish

Crossing Borders: Canadian Education, Welfare, and the Northwest Passage

9: 00-10: 30 a.m. Eaton 425

Immigration Diversity and the Welfare State: An Examination of Canada, Sweden and the United States

This project examines the role of diversity and immigration, in the formation and continuation of the welfare state. Increasing immigration in Europe spawned a body of literature questioning the continuation of a robust welfare state in the face of increasing diversity. Can a generous and expansive welfare state be maintained while diversity increases? What role does race and ethnicity play in welfare politics? The United States, Canada, and Sweden, three countries with very different welfare states and levels of diversity, tell different stories in how race and ethnicity impact welfare policy.

Jennifer Robblee

Biology

Poster Presentations

1: 00-2: 00 p.m. Willson-Hines, Goudy Commons

Synthesis of Chiral Aminocatalysts and Their Application to Asymmetric Reactions

Organocatalysis is an emerging area within organic chemistry that has blossomed in the last decade. Organocatalytic transformations utilize carbon-based compounds in lieu of metal salts to increase reaction rate and impart stereoselectivity. The focus of this project was the development of aminocatalysts based on chiral amino acids and sulfinamides. L-Proline- (S)-tert-butanesulfinamide-derived catalysts were synthesized using standard techniques and were subsequently subjected to preliminary screening for efficiency and selectivity in several transformations including carbonyl-ene and conjugate addition. To date, our catalysts have not provided the anticipated levels of reactivity; however, a number of possibilities for variation and optimization of our methods remain to be explored and will be the focus of future studies.

Genna Robertson-Hall

French

A Millennium of French Culture: Romance, Retail, Revisionism, Redemption

2: 00-4: 00 p.m. Collins 408

Heroic Adventurer or Heartless Imperialist? A Study of Colonial Ideology in Hergé's "Tintin in the Congo"

The controversy surrounding Hergé's "Tintin in the Congo" has inspired international discussion since its creation in 1931, most notably with regard to the social implications associated with the publication of a comic strip that perpetuates an antiquated, European colonial ideology within an artistic genre that specifically attracts a young and impressionable audience.

Cassi Ross

Sociology

Social Justice Movements and 'Freedom Dreaming'

2: 00-4: 00 p.m. Collins 204

YWCA and Considerations for Institutional Change

History has long used race, class and gender to divide people. But these "categories of difference" have also been a means for people to construct identity, community, and to advocate change. Despite numerous barriers, organizations like the YWCA dedicate themselves to transforming social inequality, evidenced by their mission "Eliminating Racism, Empowering Women." Working at the YWCA, I gained first-hand experience with an effective yet struggling model for social change. I will consider how the tangible outcomes of organizations such as the YWCA inform broad-based institutional change and how this might bring about equity for women and people of color.

Katie Salisbury

Religious Studies

Kant: Reason, Morality and Faith

9: 00-10: 30 a.m. Eaton 211

If Morality is Accessible to all Through Reason, Then Why do we Still Need Churches?: Kant's Affirmation of Historical Faith

Kant maintains that the one moral religion is the creative potential within every individual. This allows us to imagine the way that things should be and to act toward this vision, rather than accepting our circumstances as they are. Furthermore, historical world faiths are merely vehicles with which humanity can eventually dispense in favor of the moral religion. Nevertheless, as seeking to live morally is not a solo pursuit, my project seeks to demonstrate that historical faiths lived out by communities can play an important role in helping humankind move closer to the unified moral religion that Kant proposes.

Jai Salzwedel

Physics and Philosophy

Poster Presentations

1: 00-2: 00 p.m. Willson-Hines, Goudy Commons

Experimental Gauge-Gravity Duality

This project explored the possibility that the Maldacena conjecture might be experimentally testable using the framework of analog gravity. The goal of our research was to find a quantum theory with a suspected gravitational equivalence that one could model experimentally using a fluid in an electromagnetic field. With this, one could then measure certain qualities of the system and compare with calculated results to test the correspondence. The results of this research are presented in our poster.

Natalie R. Sashkin

Neuroscience

The Human Body: Parkinson's Disease and Synesthesia

11: 00 a.m.-12: 00 p.m. Collins 201

Stimulating Neuroplasticity: Enriched Environment and Dopaminergic Neurorestoration in the Substantia Nigra of a Mouse Model of Parkinson's Disease

The degeneration of dopaminergic neurons that form the nigrostriatal pathway is a consistent neurochemical aberration in Parkinson's disease (PD) resulting in loss of control of voluntary motor movement. Alleviation of this abnormality via restoration of dopaminergic cells projecting from the substantia nigra pars compacta (SNc) would lead to a concomitant improvement in the locomotor ability. The current study investigated the ability of enriched environmental conditions to stimulate restoration of dopaminergic neurons in the SNc. Enriched housing conditions and regular exercise treatments have been shown to stimulate neuroprotection in the nigrostriatal pathway of the Parkinsonian mouse brain. We demonstrate for the first time that an enriched environment (EE) can also stimulate neurorestoration of dopamine cells. Mice bilaterally lesioned with 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP) displaying an initial 56% loss of dopaminergic cells in the SNc showed 100% restoration of cells positive for tyrosine hydroxylase (TH) and neuron-specific nuclear protein (NeuN) after three weeks housed in EE. In addition, we observed significant recovery of locomotor function in all lesioned animals comparable to the level observed in the non-lesioned control group. The results of these studies suggest that enriched environmental conditions stimulate restorative effects on the dopaminergic neurons of the SNc.

Joseph Scherer

Politics

Hannah Arendt and Political Responsibility

11: 00 a.m.-12: 00 p.m. Eaton 307

Discourses of Justification: Camus and Arendt on Political Assassination

This project addresses the justifiability of political assassination. Using Hannah Arendt's distinction between justification (claimed in pursuit of an end) and legitimacy (arising from popular power) to situate the question, I explore the historical circumstances--sociopolitical and theoretical--of various

assassinations. The changing discourses encountered are examined from the perspectives of Arendt and Camus. Ultimately, emphasis on justification and guilt is revealed as problematic; instead, we should focus on the values assassinations disclose, values contingent not only upon the nature of the action, but upon the conditions of the community in which it occurs and its consequences.

Tanya Schiller

Film Studies

Video Art

11: 00 a.m.-12: 00 p.m. Olin 408

In this presentation, five students will show examples of the work we have created in two semesters in the video art field. We will discuss genres of video art they relate to our own artwork, our influences and the creative processes of making video artwork.

Jenne Schmidt, Elliot Williams

Ethnic Studies; Archeology

Social Justice Movements and 'Freedom Dreaming'

2: 00-4: 00 p.m. Collins 204

Moving Forward to Somewhere Over the Rainbow: Willamette University's LGBTQ Campus Climate Assessment

The liberal arts college experience provides an opportunity to explore new fields, worldviews, passions, ideas, and ways of being, all in the context of an inclusive community. However, for LGBTQ students on Willamette's campus, a lack of "Queer presence" leads many to feel that the university is an unusually closeted institution that does not represent or affirm their identities. Through a survey-design research project assessing the current institutional support for LGBTQ students, we use the results to uncover the "campus climate" and identify recommendations that might allow Willamette to become an affirming and inclusive community for all sexual identities.

Jenne Schmidt

American Ethnic Studies

Walmart, Justice Movements, and Inequality

2: 00-4: 00 p.m. Collins 201

Navigating the Traffic at the Intersections of Whiteness and Feminism: White Women in Racial Justice Movements

This project begins to explain some of the reasons why white women choose to make a sustained commitment to the values and work of anti-racist struggles by uncovering their personal and political investments. Using qualitative research methods and semi-structured interviews, I sought to explain the presence and experiences of white women working in racial justice organizations. My senior thesis in Ethnic Studies considers the deep and complex intersection between race and gender. I will argue that the various reasons for their commitments to racial justice are dependent upon their generation, sexuality, and spirituality, and their relationship to whiteness.

Lindsey Schneider

Religious Studies

Social Justice Movements and 'Freedom Dreaming'

2: 00-4: 00 p.m. Collins 204

Salmon and Sovereignty: Environmental Racism in Our Own Backyard

Through the colonization of the Native people of America, treaties were one of many tools used by the US government to divest Native people of their land in exchange for national (tribal) sovereignty and other rights. The Columbia River Inter-Tribal Fish Commission is a Portland-based organization that works to advocate with and for Native people to protect their treaty-reserved rights to harvest salmon. During my time working there, I have explored the historical context and contemporary issues that surround treaty rights and sovereignty, and discovered why these issues so frequently put Native people at odds with the government, environmentalists, and white society.

Kelsey Scott

Mathematics

Investigating Performance History: Theatre as an Agent of Progress

2: 00-4: 00 p.m. Olin 302

A Fellow in Petticoats: The New Woman in George Bernard Shaw

This presentation will examine the role of the New Woman in the works of George Bernard Shaw. It will explore Shaw's own opinions on "the Woman Question" and how his ideas were manifest in the heroines of his works. The presentation will also investigate the social attitudes of Victorian England from which the New Woman emerged and the effects she had in changing the role of women both in society and performance. It will present theatre as an art capable of commenting on the social climate and its power to act as a vehicle for social change.

Seira Shimazaki, Yuki Wakae, Mayu Yamada

TIUA

Poster Presentations TIUA

1: 00-2: 00 p.m. Willson-Hines, Goudy Commons

Extreme Weather**Hannah Short**

History

Hypocrisy, Gender Roles, and Sexuality in Chaucer

2: 00-4: 00 p.m. Eaton 106

Female Authority in the Second Nun's Tale

The question of authority is raised by almost all of the tellers throughout Chaucer's The Canterbury Tales. This project addresses the issue of female authority in the "Second Nun's Tale", specifically the Second Nun's appropriation of the hagiographical tradition to present an example of female challenge to male authority, rather than an example of the ideal spiritual life. I discuss the different ways in which Chaucer (the author), the Second Nun (the teller) and Saint Cecelia (the heroine of the tale) question the exclusivity of authority to the male gender in medieval discourse.

Collin Siu

Economics and Spanish

Spanish Speaking Identities: Feminism, Immigration, and Spain's National Anthem

9: 00-10: 30 a.m. Collins 205

La Aculturación en la Literatura de Siu Kam Wen (Acculturation in the Literature of Siu Kam Wen)

Given the importance of the Chinese in modern and historical Latin America, it is surprising that the Chinese immigration experience is one of the least studied themes in Latin American literature. Siu Kam Wen, a Chinese Peruvian author, is one of the few writers to offer a unique literary and sociological view into the Chinese Peruvian consciousness. In his first collection of short stories, El tramo final (1986), he discusses the acculturative experiences of the Chinese community in Lima, Peru.

Collin Siu

Economics and Spanish

Big Ideas in Economics: Garbage, Hip-Hop, Housing and Redevelopment

2: 00-4: 00 p.m. Eaton 412

Why are Subprime Loans Concentrated in Communities of Color?

Recent evidence from the US reveals concentrations of subprime loans in communities where racial minorities make up a predominant portion of the population. According to mainstream neoclassical theory, borrower credit risks should explain this spatial distribution of subprime loans. However, research using regression analysis techniques finds that credit risks alone are unable to explain this phenomenon. This paper contributes to the existing literature by combining and analyzing the regression models and the estimations of researchers who have explored this issue. Their findings call into question the efficiency of the subprime mortgage market.

Debbie Southorn

Music

Music Performances and Conducting Sessions

4: 00-5: 00 p.m. Rogers Music Center, Hudson Concert Hall

Engaging Liberal Arts Values in Music Education

Musicians trained in university and conservatory settings receive a highly specialized education. Willamette music students are no exception. Should our location within a liberal arts institution, however, have implications for the nature of our musical education? This presentation will seek to answer that question in the form of a department-wide discussion. To set the parameters for that discussion, I will identify some of the key values of a liberal arts education and explore the implications of those values when defining music and music education.

Rachel Keiko Stark

History

Anthropology: AIDS to World of Warcraft

2: 00-4: 00 p.m. Collins 205

Gold, Runs, and Enchants: Gift Giving in World of Warcraft

This project attempts to understand how gift giving in the video game "World of Warcraft" (WoW) contributes to social formation within the game. Using anthropological methods and theories, I tried to understand how social interaction in WoW, as part of a growing virtual world, can be understood through "real life" ideas. Interviewing long time players between the ages of 20-25, I was able to understand how gift giving shaped their experience of WoW as a unique and growing subculture in their lives. Entering into the virtual world for myself, I was able to see how the ideas offered by my informants affected game play for someone with no prior experience in WoW. As modern culture moves toward a more virtual life, it is my hope that continued research in virtual worlds and their emerging cultures will contribute to the larger body of cultural research.

Amanda Strauss

History and Spanish

Oregon Past and Present

11: 00 a.m.-12: 00 p.m. Eaton 211

Seeing Oregon through Threads and Beads: A Material Culture Study of the History of Women in the West from 1840-1930.

This project is a historical study of material culture, more specifically, an analysis of handcrafts produced by European American and Native American women in Oregon between 1840 and 1930. My sources are quilts made by women who settled in Oregon and beadwork created by Native American women. This project seeks to understand how these handcrafts illuminate the female experience of westward expansion, which caused cultural dislocation for both European and Native American women. Handcrafts directly reflect the adaptations women made to their changing landscape and lifestyle and indicate how gender roles within each culture were transformed by the westward expansion.

Molly Sultany

Biology

Poster Presentations

1: 00-2: 00 p.m. Willson-Hines, Goudy Commons

Insect Pollinator Behavior and Diversity in Camassia: A Study of Pollination Efficiency

Camassia (Agavaceae) is well suited for comparative pollination studies given the prevalence of the four western species throughout Oregon and sympatry between common camas and great camas. Using in situ field observation, I compared pollinator behavior (i.e. visitation frequency, patterns of floral resource collection, effectiveness). Camassia represents a hymenopteran dominated pollination system with a large spectrum of generalist pollinators. Bombus (bumblebees) and Apis (honeybees) displayed high visitation frequency and foraging effectiveness on both Camassia species. The distribution of insect visitors on flowers differed significantly between common vs. great camas ($P < 0.001$, $df=6$, $X^2 = 82.7$), implying differential pollinator visitation.

Bridget A. Sutherland

Rhetoric and Media Studies

Critical Communication: Murder, Global Warming, and the Media

9: 00-10: 30 a.m. Collins 210

The Facts and Fictions of Global Warming: The Curious Case of Michael Crichton

In Michael Crichton's *State of Fear*, he creates an argument against the plausibility of global warming by manipulating form to create a hybrid between scientific and fictional narratives. Crichton stops plot action to engage readers in scientific discussion, speaks directly to his readers, and uses fictional characters to characterize the real climate change advocate and skeptic movements. The protagonist demonstrates how the implied audience should change from climate change advocate to skeptic, and Crichton includes a set of non-fictional writings that extend his fictional arguments. The resulting narrative has profound ethical implications, as it creates hidden arguments that are exercising political influence.

Aya Tamura, Mutsumi Tokaji, Shino Usui

TIUA

Poster Presentations TIUA

1: 00-2: 00 p.m. Willson-Hines, Goudy Commons

Alternative Energy Sources**Logan Testa, Zander Thompson, Brent Hengeveld, David Reichert, Josh Lee,**

Physics; Computer Science; Anthropology; Undeclared; Undeclared

Computer ABCs: Animations, Bodies, and Compositions

11: 00 a.m.-12: 00 p.m. Collins 204

The Adventures of Bucky

A presentation of our approximately one minute animation produced in Computer Animation and Production. A pirate, standing upon a deserted island, finds the treasure chest he has sought, and proceeds to investigate his find. Titled "The Adventures of Bucky", our animation is a demonstration of what can be done with the Maya animation program after having learned basic skills.

Kaitlin Thackery

Anthropology

Social Justice Movements and 'Freedom Dreaming'

2: 00-4: 00 p.m. Collins 204

Knowledge of the Truth is Power: The Case for Anti-Bias Educational Reform in the U.S.

The education system in the U.S. has long been used by the dominant society to perpetuate racial ideologies. Educators and activists around the country have been working on changing this through implementing Anti-Bias and Multicultural Education programs in their classrooms and schools. This social justice work involves looking at social problems, understanding how they came to be and what we can do to reduce/eliminate them. Through research and volunteer work at one such school, I examined the most effective practices and strategies, and consider what their application across the board would look like and mean for educational transformation.

Sarah Tofflemire

English, German, Politics

Literary Society: Virginia Woolf, William Faulkner, & Carson McCuller

9: 00-10: 30 a.m. Eaton 106

Queer Conversations in Carson McCullers' *The Heart is a Lonely Hunter*

In this project, I attempted to understand alternative centers of dialogue in Carson McCullers' *The Heart is a Lonely Hunter*. Unsatisfied with the state of critical response to the novel, I offered a new reading based on Bakhtin's theories of the novel as a site of dialogism (an interplay of resisting discourses and the dominant discourse of social normativity) and queer theory (which specifically reads the resistant discourses of sexually marginalized characters). Instead of simply dismissing McCullers' characters as grotesques, I wished to discover how they communicated their identities within a society that consistently marginalized their discourse.

Sarah Tofflemire

English, German and Politics

Social Issues in the States

2: 00-4: 00 p.m. Smullin 129

Same-Sex Adoption: America's Support and the Missing Conservatives

Same-sex couples can adopt children in any state in the U.S. except Florida, but can marry in only one: Massachusetts. The United States is the only developed nation with legal same-sex adoption and no same-sex marriage. The puzzles that these legal and political realities imply are multiple. Why is the U.S. anti-same-sex marriage and pro same-sex adoption? And given the conservative mobilization against same-sex marriage, why is there no large debate surrounding same-sex adoption? Essentially, how did the conservative right miss same-sex adoption? This project uses history, political theories, and personal interviews to attempt to answer these questions.

Mikki Trowbridge

Take-A-Break Presentations: Eight Trips, One Heart

2: 00-4: 00 p.m. Hatfield Room, Mark Hatfield Library

Bryan Valera-Gengler

Undecided

Asian Awareness

9: 00-10: 30 a.m. Eaton 412

A Personal Transnational Experience

The idea for this presentation was engendered by the culture shock that I experienced upon moving from the Philippines to the United States. I will discuss differences in education systems, social economic conditions, family values, and everyday ethics, exploring how ethnic traditions and identities are maintained and adapted to the diverse American society.

Andrea Mae Walker

Mathematics

Graphic Talk: Gaming, Graphs & Python Concurrency

9: 00-10: 30 a.m. Collins 105

Prime Distance Graphs

Graphs are frequently used to model networks of connections, such as airline flights between cities. The rule that defines connections between the vertices of a graph can be derived from the real world, or from other patterns within mathematics. In this project we defined prime distance graphs, in which the connections between vertices are determined by distances that are prime numbers. We investigated which graphs can be represented as prime distance graphs. We give an introduction to these graphs and their properties.

Anne Watson

Economics and Spanish

Dangers of the Free Market

2: 00-4: 00 p.m. Eaton 425

Conflict Diamonds: De Beers and Market Structure

This project examines whether the market structure of diamonds is one of the causes of the resource curse in southern Africa. Conflict diamonds have had a devastating effect on southern Africa, and this analysis seeks to address whether the market structure, dominated by the firm De Beers, is partly responsible for the resource curse in southern Africa. By establishing a stable price and market for diamonds, De Beers has further promoted the value of this natural resource to rebel groups, thus allowing them to capitalize and continue funding their civil wars.

Leanne Weiss

Environmental Science

Birds & the Bugs

9: 00-10: 30 a.m. Collins 201

Functional Analysis of Benthic Macro-Invertebrates at Brownsville Dam

This project uses statistical analysis to compare benthic macro-invertebrate function trait composition above and below the Brownsville Dam near Sweet Home, Oregon. Samples were collected prior to the dam's removal in August 2007. By analyzing functional traits, this analysis looks at how invertebrates have adapted to modifications in the ecosystem due to the dam. Additionally, this method of analysis is compared to traditional methods that may not be as informative. Results of this study will be interpreted and discussed.

Elliot Williams

Archaeology

Anthropology: AIDS to World of Warcraft

2: 00-4: 00 p.m. Collins 205

Decolonizing Archaeology: Indigenous Peoples, Archaeologists, and Collaborative Research

Over the past few decades, a branch of archaeology known as collaborative Indigenous archaeology has been developing. This type of archaeology attempts to place the interests of Indigenous peoples first, as a response to what is seen as the colonialist nature of much research done by Western archaeologists on Indigenous peoples and cultures. This project seeks to understand collaborative Indigenous archaeology through an examination of several case studies, which illuminate this field's origins and current practices, as well as the motivations which cause Indigenous peoples and archaeologists to engage in this type of archaeological practice.

Lindsey Wolf

Environmental Science

Poster Presentations

1: 00-2: 00 p.m. Willson-Hines, Goudy Commons

Blood Diamonds: Geological Conflict in Market Economies

This project researches the implications of diamond mining in African countries. Because of the turmoil and warfare that has occurred in recent years, transportation and financing of 'blood diamonds' has increased. These are diamonds that are rough gems used by rebel movements to finance conflict aimed at undermining legitimate governments. This study analyzes the effectiveness of coalitions and other technological advancements attempting to keep blood diamonds from being traded in market economies. The results will provide insight to prevent theft and illegal mining, reduce the passage of blood diamonds, and enhance models and techniques for diamond exploration.

Bradley Woodward

Rhetoric and Media Studies

Video Art

11: 00 a.m.-12: 00 p.m. Olin 408

In this presentation, five students will show examples of the work we have created in two semesters in the video art field. We will discuss genres of video art they relate to our own artwork, our influences and the creative processes of making video artwork.

Nicholas Eugene Woolsey

Music and International Studies

Music Composition

2: 00-4: 00 p.m. Rogers Music Center, Hudson Concert Hall

Gunka and Minyo in Japan During WWII

Citizens of Tokushima Prefecture in Japan who were alive during WWII were interviewed and asked to describe the relationship between "gunka" (western style military music) and "minyo" (folk music) during that time period. Gunka served to fuel the men into doing their best for the war effort, and minyo served to accompany domestic tasks which were delegated to women and children. However, the government supported the creation of gunka and encouraged everyone to listen to it. Despite this act and the subsequent decline of minyo as popular music, the influence of minyo on the melodic content of gunka is still present.

Noah D. Zaves

Music & Politics

Music Composition

2: 00-4: 00 p.m. Rogers Music Center, Hudson Concert Hall

I Promise: This Music Will Engage You

Much of classical music is widely considered boring, especially by people with no musical education. So, I wrote a series of pieces designed specifically to appeal to everyone in an audience, using techniques like mixed meter and rhythmic contrast, and certain unexpected harmonic patterns. I've geared the presentation of my experiment toward a general audience (no musical knowledge necessary), with the expectation that it will engage everyone who chooses to come. (I'll take a poll at the end.)

Sarah Zerzan

Chemistry

Cell Signaling Pathways and Cancer Prevention

2: 00 p.m.-4: 00 p.m. Olin 301

The Influence of Ribonuclease A Contamination on Studies of Eukaryotic Protein Synthesis

Eukaryotic protein synthesis entails complex and only recently detailed mechanisms that complicate its study in undergraduate laboratory courses. Reliance on mRNA as a template for translation poses the most significant problem, since mRNA is highly sensitive to environmental conditions. In this project I endeavored to study the effects purine nucleoside 5' triphosphate (NTP) concentrations on the rate of eukaryotic mRNA translation. Tritium-labeled leucine was used in the translation medium and protein synthesis was measured by scintillation counting. Experimental results showed no evidence of protein synthesis, possibly due to ribonuclease (RNase) contamination. Utilizing UV-visible spectrophotometry, subsequent studies of the kinetics of untreated and heat-treated RNase A samples were undertaken. The aim of these studies was to elucidate the effects of heat on this enzyme, in the hopes of identifying ways to prevent contamination of samples in protein synthesis experiments.

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