

*Second
Annual*
**Student
Scholarship
Recognition
Day**



Wednesday
**April
10
2002**

Welcome

to The Second Annual

Student Scholarship Recognition Day

Wednesday, April 10, 2002

At large research universities, student research opportunities are generally reserved for graduate students, but at small private liberal arts colleges like Willamette, undergraduates have the opportunity to work closely with faculty as they pursue intellectual questions, devise scientific experiments, create works of art, wrestle with age-old conundrums, and, in so doing, pursue the questions that feed their intellectual curiosity. We are proud of the achievements of our students—of their thoughtful engagement with problems and their dogged pursuit of truth and beauty. We measure our success by theirs.

The students whose work you will see today have been supported in many different ways during their research. Some have earned Carson Undergraduate Grants, others have worked as faculty research assistants, others have labored with faculty through the Science Collaborative Research Program, and two of them who won awards as Presidential Scholars have devoted a large part of their senior year to their own research. All have been guided by patient and wise faculty mentors.

Our day of presentations begins at 9:00 a.m. and extends to 4:45 p.m., culminating in our Academic Awards Evening at 6:00 p.m. in The Cat Cavern. 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.)

We hope that you will enjoy your travels through the minds and passions of our students and our university. Welcome to the heart of Willamette.

STUDENT SCHOLARSHIP RECOGNITION DAY

Wednesday
April 10, 2002

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MORNING ACTIVITIES

9:00 - 11:00 a.m.

Oral Presentation Panels

Collins Science Center, Eaton Hall, Smullin Hall

Chemical Signals & Biological Barriers (Collins 205)

Moderator: Chuck Williamson

Emerin Hatfield

Reproductive Isolating Barriers to Hybridization Between Two Milkweed Species (A. speciosa and A. fascicularisa)

Linnsey Puana Miller

Effects of Temperature and Abscisic Acid (ABA) on the Production of an Extracellular Signal Regulating Kinase (ERK-1) in Cultured Guard Cell Protoplasts of Nicotiana glauca

Benjamin Creelan

Cloning and Characterization of a Putative Translation Factor in Xenopus Oocytes

Benjamin J.D. Wright and Julidang Chue

Progress Toward the Asymmetric Synthesis of Kalkitoxin

In The Telling (Eaton 211)

Moderator: David Craig

Julie Stefan

Motion

John Harnetiaux

Fish Stories Told Here: Performing Competence Among Fly Fishermen

David Nitka

One Day I Will Reboot My Brain: An Examination of the Mechanical Augmentation of Human Intellect

Robert Sassor

The Process of Getting Rejected (And Not): How I Wrote My Senior Thesis

Narrative & Identity (Eaton 209)

Moderator: Maria Blanco-Arrejo

Lindsay Wolff Logsdon

C'era una volta il West: Post World War II Italian Morality and Leone's Spaghetti Westerns

Santiago Lopez

The forbidden loves of The House of The Spirits

Stephenie Rodgers

La Presencia del poder femenino en los cuentos latinoamericanos y como existe en las obras femeninas y masculinas [The presence of feminine power in Latin American stories and how it exists in both feminine and masculine writings]

Pacific Northwest: Struggles (Smullin 159)

Moderator: Paul Howard

Jessica Juran

The Rogue River Indian Wars: A Southern Oregon Tragedy

Benjamin Peterson

A Fight They Could Not Win: The Failure of the IWW in the Pacific Northwest (1907-1918)

Daniel Robert Rivas

Mexican-American Identities: The Role of Binary Thinking in the "Internal Differentiation" of Persons

Public Policy & Politics (Smullin 117)

Moderator: Melissa Buis-Michaux

Gregory S. Jones.

Reasoning and Rationalization of Public Mass Transportation in America: Why Privatization Risks Too Much

C. Alina Cansler

Political Backlash and the Endangered Species Act: A Case Study of the Habitat Conservation Planning Process and The "No Surprises" Policy" and "The Use of Science in Habitat Conservation Plans Under the 'No Surprises' Policy: A Case Study of the Addition of Canada Lynx to Plum Creek's Habitat Conservation Plan

Evan Larson

Fire History of the Lava Cast Forest, Central Oregon

Jeffrey Doud

The Initiative Process as a Form of Internal Political Dissent

Violence & Ethics (Smullin 129)

Moderator: Angus Vail

Greg Ishmael

Warfare and Sports: An Analysis of Football and Baseball

Laura Bottemiller

The Internet as a Call to Action: A New-Aristotleian Analysis of Violent Rhetoric in The Nuremberg Files

David Mcadams

Origins of Terror

Russell Bither-Terry

The Ethics of Resistance: The Debate on Violence as a Means of Social Change in Latin America

11:15 a.m. - 12:15 p.m.

**Julie Carson Undergraduate Research Grants & the Science Collaborative
Research Program Presentation: *The Impact Independent Research Has on Your
Life*, Hatfield Room, Hatfield Library**

Students who were awarded Julie Carson Undergraduate Research Grants or the Science Collaborative Research Program awards in 2000-2001 will discuss how the experience of doing independent research has impacted their lives.

Moderator: Barbara Stebbins-Boaz

Jessica Anderson

Graeme Byrd

Julidang Chue

Zach Holmboe

Evan Larson

BJ Southard

**Puppet Show: *The Day: A Bread and Puppet Inspired Production*
Smith Auditorium**

The Day is a puppet show written, produced, and directed by Willamette University senior Katie Krieger. The artistic and thematic aspects of *The Day* were primarily by her summer internship experiences at the Bread and Puppet Theater, a political and social puppet theater that has been around since the 1960s. *The Day* highlights everyday miracles that are often taken for granted, such as blades of grass facing the sun. It also showcases everyday tragedies that go unnoticed, for instance hunger and police brutality.

Moderator: Heidi Preuss Grew

Katie Krieger and the Willamette Puppeteers

AFTERNOON ACTIVITIES

12:15 - 1:00 p.m.

Presentation: *The Service Learning Project at the 21st Century Community Schoolhouse*, Language Learning Center, Walton

A discussion of the service learning process and experience by students from the Salem-Keizer School District's 21st Century Community Schoolhouse and Willamette University's Globalization and Equity course.

Moderator: Robert Dash

Willamette University Students:

Hannah Bingham

Hannah Bohart

Colin Brownsberger

Katherine Crocker

Devin Culbertson

Paula Edwards

Aaron Fickes

Tracey Gramenz

Mary Hildebrandt

Peter Littlefield

Locke Loeb

Devin McComb

Benjamin Peterson

John Peterson

Brendan Price

Jeremiah Tenneson

Lindsay Vines

21st Century Community Schoolhouse Students:

Megan Bell

Anna Kinsey

Edith Lopez

Jon Martin

Keith Martin

Allison Pascal

Brian Riester

Erin Sutton

Sandra Velasquez

1:30 - 3:30 p.m.

Oral Presentation Panels

Collins Science Center, Eaton Hall, Hallie Ford Museum of Art, Olin Science Center, Smullin Hall

Building Fictional Worlds (Smullin 129)

Moderator: Miho Fujiwara

Elizabeth Belgau

The Element of Fire: John Donne's Imagery of Destruction and Restoration

Danica Praza

Seehears Wordmusic: Language as Music in the Sirens Chapter of James Joyce's Ulysses

Virginia Sorensen

The Linguistic Mystery of Mauritius: Exploring French Language and Literature in a British Colony

Amelia Williams

Breaking Boundaries as Trickster: Gender and Power in American Children's Literature.

Images & Form (Roger Hull Lecture Hall, Hallie Ford Museum)

Moderator: Roger Hull

Kurt Johnson

Images of Oregon's Past: Community, Industry & University through the lens of Otto K. Paulus

Nancee Jaffe

Creating the Human Form: Figures from Ancient Mexico

Erin Bonsi

Wall to Wall: Manifestations of the Chicago Mural Movement in Portland, Oregon

Learning & Loss (Collins 205)

Moderator: Mark Stewart

Emily Fagerstrom and Jennifer Sirotek

Binary Numbers 101

Anna J. Knisely

Examination of Novel Cell-death: Regulating Proteins in Brief and Prolonged Focal Cerebral Ischemia

Erin Winterrowd

Attention Deficit Hyperactivity Disorder: Biological or Environmental? An Analysis of the etiologic factors contributing to the phenotypic expression of AD/HD in children

Molly Brady

The Etiology of ACL Injuries in Female Athletes

Money & Power (Smullin 117)

Moderator: Nathan Boyce

R. Ethan Braden

Causal Factors of the Mexican Financial Crisis

Erin Eldredge

Official Dollarization: A Beneficial Alternative for Latin American Countries in Crisis?

Mary Hildebrandt

The Cultural Meaning of Money: The Significance of Dollarization in Ecuador

Shannon Vincent

Political Economic Violence: A Critical Evaluation of the World Trade Organization

Race & Identity (Collins 408)

Moderator: Seth Cotlar

Melissa Kanzler

White Mistress, Black Slave: Women's Roles Under the Dominant Gender, Class and Racial Hierarchy of the Slave South

Sabrina Andrus

Divided Sisterhood: An Examination of the Complex Relationship Between Black & White Women in the 1960s and 1970s

Beth Gilmore

Learning from Libraries: A study of Jacob Lawrence and his depictions of the Black Academic Environment

Jessica Anderson

The Effect of Race and Age on Face Recognition Abilities

Spatial Significance (Olin 302)

Moderator: Stas Stavrianeas

Heidi Huntley

Beyond the Pictures: Deconstructing Social & Political Commentary in Images of Cuba

Laura Leineweber

The Plaza: Visiting the Significance of Public Space in Urban Latin America

Elizabeth D. Sweeney

Ecuador v. Texaco: Competing Visual Rhetoric

1:30 - 2:30 p.m.

Music Program I

Rehearsal Hall, Mary Stuart Rogers Music Center

Concerto in A Major, K. 622, I. Allegro, W.A. Mozart

Melanie Yamada: clarinet

Shelley Lawson: piano

Somnyeniye (Doubt), Mikhail Glinka

Tsarskoyelskaya Statuya (The Statue at Czarskoe-Selo), Cesar Cui

Renee Schwab: mezzo-soprano

Ann Snelling: piano

Concerto for Violin and Orchestra, I. Allegro, Samuel Barber

Laurie Shimabukuro: violin

Shelley Lawson: piano

First Sonata for Flute and Piano, Bohuslav Martinu

Sarah Abe: flute

David Ingram: piano

Concerto for Piano in A Minor, Edvard Grieg

Patricia Price: piano

Shelley Lawson: piano

English Suite No. 2 in A Minor, BWV 807, I. Prelude, J.S. Bach

Sonata in A Major, Opus 120 posth., III. Allegro, Franz Schubert

Shelley Lawson: piano

Sarah Abe is a flute student of Jeanne Eikrem.

Shelley Lawson is a piano student of Jean-David Coen.

Patricia Price is a piano student of Anita King.

Renee Schwab is a student of Kurt-Alexander Zeller.

Laurie Shimabukuro is a violin student of Daniel Rouslin.

Melanie Yamada is a student of Cindi Bartels.

3:45 - 4:15 p.m.

Poetry Reading: *A Good Memory*

The Multi-Purpose Room, Montag Center

This poetry project aims both to explore the rough and the poetic sides of language and to integrate voice, language and movement into acting. The poems performed are from a collection by author Yusef Komunyakaa.

Moderator: Maggie Burns

Alyssa Bradac

Leah Batt

Renee Beaudoin

Brittany Burch

Kurt Conroyd

Evan Cooney

Kim Crow

Jessie DiSalvo

Kate Lawrence

Megan McClintock

Duncan Robertson

Allie Saucy

Rebekah Steinfeld

Julia Strickland

James Veber

3:45 - 4:45 p.m.

Presidential Scholars Presentation

Hatfield Room, Hatfield Library

Moderator: Barbara Stebbins-Boaz

Anna Enisa Carpenter

What Policy? On Being and Becoming a Welfare Caseworker

Garrett Tenold

Sonoluminescence: the art (and science) of turning sound into light

4:00 - 5:00 p.m.

Music Program II

Rogers Rehearsal Hall, Hudson Hall, Mary Stuart Rogers Music Center

Willamette University Wind Ensemble

Senior Music Majors with the Willamette Wind Ensemble and Willamette Chamber Choir

America, Samuel Augustus Ward; Arr. Carmen Dragon

Andy Hordichok, student conductor

Concerto No. 1 in E-flat, Richard Strauss; Transcribed by Kim Johnson

Kurt Reeser, horn solo

Benjamin St. Hilaire, student conductor

***A Gathering, for Wind Ensemble*, Ki Sun Ruiz**

Ki Sun Ruiz: student composer, student conductor

Andy Hordichok is a conducting student of Martin Behnke

Kurt Reeser is a horn student of Professor Mike Hettwer.

Benjamin St. Hilaire is a conducting student of Martin Behnke.

Ki Sun Ruiz is a composition student of John Peel and a conducting student of Martin Behnke.

Music Program III: Willamette Chamber Choir

Hudson Hall, Mary Stuart Rogers Music Center

Aftonen, Hugo Alfvén

Benjamin Enright: student conductor

El Guayaboso, Guido Lopez-Gavilan

Joie Gratton: student conductor

Benjamin Enright is a conducting student of Wallace Long.

Joie Gratton is a conducting student of Wallace Long.

EVENING ACTIVITIES

4:15 - 5:15 p.m.

Theatrical Performance: *The Cycle: A Medieval Mystery Play*

The Multi-Purpose Room, Montag Center

The Cycle is a modern reconstruction of Medieval theatre themes and techniques, performed as a reading by Willamette theatre students. Written by Willamette University student Sarah Johnson, *The Cycle* won the Northwest Drama Conference's One-Act award at the American College Theatre Festival.

Moderator: Maggie Burns

Sarah Johnson

Kirsten Lloyd

Aisha McKenzie

Alyssa Nielsen

Lucas Volger

Nick Williams

5:00 - 5:45 p.m.

Reception for CLA students, faculty, staff, and invited guests

The Cat Cavern

Music provided by the University Sextet

Coach: Stan Bok

Nick Grant: drums

Brian Mansfield: tenor saxophone

Mike Nolley: piano

Todd Jackson: alto saxophone

Hiroshi Nasu: bass

John Vollmer: trumpet

6:00 - 7:15 p.m.

2002 Academic Awards Evening

(open to CLA students, faculty, staff, and invited guests)

The Cat Cavern

Emcee: Charlie Wallace

7:45 - 9:15 p.m.

Student Video Screening: A production by students in Andrea Wallace's Video Art course, Jackson Plaza (or Smith Auditorium if the weather is adverse)

A production by eight Video Art students who, throughout the semester, have completed many different short videos that express their views on a variety of topics and experiences. Each group of videos shown will consider different times and ideas involving "super to memories."

Moderator: Andrea Wallace

Matt Benjamin

Graeme Byrd

Naomi Corwin

Marti Deyo

Katie Hastings

Rose Vinson

Johnny Vong

Nathaniel Willson

All-Day Activities

10:00 a.m. - 5:00 p.m.

Senior Art Majors' Exhibition

Hallie Ford Museum of Art

Amy Ashkinos: Oil Painting

Gina Bevill: Ceramic Mural

Dana Christopherson: Photography, Mixed Media

Amy Curkendall: Batik

Kimberly Goodell: Digital Imaging, Mixed Media

Janell Moore: Encaustic Painting

Alex Speaks: Photography

Nathaniel Willson: Photography

Erin Youtz: Photography

Jenny Avery: Thesis

Stacy Biethan: Thesis

Alexandra Cowen: Jewelry

Sita Davis: Art Book

Kelda Martensen: Cardboard, Oil, Pastel

Edmund Rivera: Architectural Scale Model

Piper Walters: Polaroid Transfers

Josh Wray: Acrylic Painting

Spring Review Exhibition

Montag Center

An exhibit by Art and Art History sophomores and juniors.

ABSTRACTS

Student's Name: In alphabetical order

Student's Major

Presentation Panel, Time & Location

Presentation Title

Presentation Abstract

[Reason for project, paper or thesis, & when it was completed.]

Jessica Anderson

Psychology

Race & Identity 1:30 p.m. Collins 408

The Effect of Race and Age on Face Recognition Abilities

Laboratory studies have provided some basis for the existence of the cross-raced effect, where people recognize faces of their own race better than faces of another race. Surprisingly, few studies have examined whether different age groups remember faces from their own age groups better. To assess face recognition abilities, young Japanese, young Caucasian, middle aged Caucasian, and elderly Caucasian participants were tested. To assess their recognition abilities, the subjects were shown photographs of young, middle aged and elderly Caucasian and Japanese faces and were later asked to identify them. The cross race effect was found among the subjects.

[A Carson Grant study completed in the Fall of 2001]

Sabrina Andrus

Politics

Race & Identity 1:30 p.m. Collins 408

Divided Sisterhood: An Examination of the Complex Relationship Between Black and White Women in the 1960 and 1970s

This paper examines the split between black and white women political activists in the late 1960s to early 1970s, and asks why the women's movement of that time period was designed by and catered to white women. Essays, speeches and articles written by the women who participated in the civil rights and women's rights movements are examined. The paper concludes that had both black and white women been willing to engage in dialogue and work through their differences and racist beliefs, a multi-cultural women's rights movement would have succeeded.

[A Senior Thesis completed in the Spring of 2002]

Elizabeth Belgau

English & History

Building Fictional Worlds 1:30 p.m. Smullin 129

The Element of Fire: John Donne's Imagery of Destruction and Restoration

This project isolates divine and secular images in John Donne's poetry, and connects these images to explicit references within the poems and to outside sources and ideas. The image of fire is central to this study and linked to it are images of baptism, alchemy and communion. By seeing these images as inseparable, we begin to appreciate the depth of the poems. Also, the connections in imagery between the divine and secular poems allows us to see in greater clarity the relationships between Donne and his patrons, and Donne and his lover.

[An English Department Independent Senior Project completed in the Spring of 2002]

Russell Bither-Terry

Politics

Violence & Ethics 9:00 a.m. Smullin 129

The Ethics of Resistance: The Debate on Violence as a Means of Social Change in Latin America

This thesis begins with an overview of major proponents of nonviolence (Tolstoy, Gandhi, and King) and violent revolution (Lenin and Mao). It then looks at how these ideas have influenced Latin American figures, such as Che Guevara, Archbishop Camara, Perez Esquivel, Camilo Torres, and others. Lastly, it applies their thought to the cases of Nicaragua, El Salvador and Brazil.

[A Politics Senior Seminar Thesis completed in the Spring of 2002]

Erin Bonsi

Art History

Images & Form 1:30 p.m. Roger Hull Lecture Hall, Hallie Ford Museum

Wall to Wall: Manifestations of the Chicago Mural Movement in Portland, Oregon

This thesis defines the characteristics of the Chicago Mural Movement in order to demonstrate that the movement exists in Portland, Oregon. It also argues that a city sign ordinance severely disrupts the momentum of the art movement in the city. Using examples of murals found throughout Portland, this thesis contends that the wall paintings are a part of the mural movement because they are created through a specific process and serve a particular purpose. Like the murals in Chicago, the community-based murals of Portland are completed outdoors with the direct participation of the community and actively represent the residents within the vicinity. By exploring historical conditions and influences, artistic aspects and components, and contemporary issues, the thesis demonstrates that the existing community-based murals of Portland contribute to the complex continuum of the mural movement. At the same time it shows that the mural movement is paralyzed by the restrictions of Portland's sign code, and concludes that the mural movement in Portland is suffocating and cannot be revived without community action.

[An Art History Thesis completed in the Fall and Spring semesters of 2001-2002]

Laura Bottemiller

Rhetoric

Violence & Ethics 9:00 a.m. Smullin 129

The Internet as a Call to Action: A New-Aristotelian Analysis of Violent Rhetoric in The Nuremberg Files

The Internet, as a new medium of mass communication, is beginning to confront one of the most treasured of American values, Free Speech. One of the challenges facing advocacy of Free Speech is coming from *The Nuremberg Files* website, an anti-abortion site that uses graphic images and personal narrative to persuade its viewers. The site relies heavily on ethos, pathos, and logos to convince viewers that the anti-abortion cause is just and that all previous methods used to stop abortion in America have not worked. Without an explicit call to violence, evidence in the site leads the viewers to believe violence is the only option that will work in arresting abortion.

[A project for Rhetoric Senior Seminar completed in the Fall of 2001]

R. Ethan Braden

Economics

Money & Power 1:30 p.m. Smullin 117

Causal Factors of the Mexican Financial Crisis

An investigation of the Mexican Financial Crisis of 1994-1995. The paper explains the economic factors such as currency overvaluation and exchange rates, as well as political factors such as hyper presidentialism and the preservation of one's reputation, that ultimately lead to the collapse of the Mexican economy. Lastly, the paper explains how the crisis possessed warning signs that elected officials ignored, ultimately allowing them to escalate into a currency crisis.

[An Economics Senior Seminar paper completed in the Fall of 2001]

Molly Brady

Undeclared

Learning & Loss 1:30 p.m. Collins 205

The Etiology of ACL Injuries in Female Athletes

Recently, women have broken through social and cultural barriers that limited their involvement in physically demanding activities including sport and competition. However, a disturbing trend in the rate of ACL injuries in female athletes raises the question of whether women are suited for demanding physical activities. Etiological factors implicated in ACL injuries in women to be discussed include physiological, anatomical and kinesthetic components, such as variations in muscle strength, ligament size and strength, and knee joint laxity. Hormonal influences on the function of the ACL will also be mentioned.

[An EXSCI 135 paper completed in the Fall of 2001]

C. Alina Cansler

Politics & Environmental Science

Public Policy & Politics 9:00 a.m. Smullin 117

Political Backlash and the Endangered Species Act: A Case Study of the Habitat Conservation Planning Process and the 'No Surprises' Policy

A private landowner may get an exception to the Endangered Species Act, or Incidental Take Permit, by formulating a Habitat Conservation Plan (HCPs). The Clinton Administration's "no surprises" policy was the prime motivating force behind the expanded use of HCPs. It gave a guarantee to landowners that they would not be responsible for any subsequent changes to plans. The effectiveness on the "no surprises" policy at achieving the recovery of listed species is evaluated. The reason for the selection of the "no surprises" policy by the Administration is examined. It is argued that the policy was selected because the potential backlash against the ESA forced the Administration to make a quick choice.

[A Politics Thesis completed in the Spring of 2002]

The Use of Science in Habitat Conservation Plans Under the "No Surprises" Policy: A Case Study of the Addition of Canada Lynx to Plum Creek's Habitat Conservation Plan

A private landowner may get an exception to the Endangered Species Act, or Incidental Take Permit, by formulating a Habitat Conservation Plan (HCPs). The "no surprises" gives a guarantee to landowners that they would not be responsible for any subsequent changes to plans. The author examines the argument that this policy undermines the use of sound science in HCPs. Specifically, the addition of Canada Lynx to Plum Creek's HCP through the "no surprises" policy is examined. The amount and quality of scientific information, such as information on the species status, habitat requirements, and monitoring measures is evaluated.

[An Environmental Science Thesis completed in the Spring of 2002]

Anna Enisa Carpenter

Sociology

Presidential Scholars Presentation 3:45 – 4:15 p.m. Hatfield Room, Hatfield Library

What Policy? On Being and Becoming a Welfare Caseworker

Since the early nineteen-nineties, the United States welfare system has changed dramatically, moving from a federal entitlement program to a work-oriented program characterized by state innovation. Legislators, advocacy groups and academics influenced the formation of new welfare politics, but welfare caseworkers interpret and implement that policy. Using ethnographic methods, this interview-based study examines the day-to-day lives of welfare caseworkers in order to understand how they negotiate the worlds of the welfare office and welfare policy. This study explores the identity, work and emotion management techniques that case workers employ in order to make sense of their work and it examines how the actions of caseworkers shape social policy at the ground level.

[A Presidential Scholar study completed in the Fall and Spring semesters of 2001-2002]

Julidang Chue

Chemistry

Chemical Signals & Biological Barriers 9:00 a.m. Collins 205

Progress Toward the Asymmetric Synthesis of Kalkitoxin

Efforts toward the total stereoselective synthesis of (+)-kalkitoxin were carried out to demonstrate a viable method for installing the acyclic α , β , γ -trimethyl core at C7, C8, and C10 in high enantioselectivity. It was anticipated that this synthetic approach to kalkitoxin, installing the 7, 8, 10 *anti*, *anti* trimethyl functionality in an efficient manner, would be applicable not only to analogs of kalkitoxin, but also to other molecules with this stereochemical configuration. Treatment of (+)-2, 4-dimethylcyclohexanone with LDA followed by reaction with trimethylsilyl chloride afforded the corresponding kinetic trimethylsilyl enol ether. Ozonolysis followed by reductive workup with dimethyl sulfide, and subsequent treatment with diazomethane converted the trimethylsilyl enol ether to the ring opened aldehyde ester. Reductive amination with methyl amine in THF and sodium cyanoborohydride generated a secondary methyl amine which was protected with BOC anhydride to afford a *t*-butyl carbamate ester, a key precursor in the synthesis of kalkitoxin.

[A Science Collaborative Research Program project completed in the Fall and Spring semesters of 2001-2002]

Benjamin Creelan

Chemistry

Chemical Signals & Biological Barriers 9:00 a.m. Collins 205

Cloning and Characterization of a Putative Translation Factor in Xenopus Oocytes

Cytoplasmic polyadenylation regulates translational activation of dormant mRNA stored in *Xenopus* oocytes, a process that starts oocyte maturation. CPEB is a protein that binds a specific mRNA sequence and interacts with nearby proteins, forming a sophisticated regulatory system. Here Ben reports the screening of a *Xenopus* egg cDNA for a single peptide sequence from a protein of approximately 135,000 daltons. This protein was previously shown to be associated with CPEB, and thus may have a role in translational regulation. Combinations of vector and cDNA-specific primers, annealing temperature and Mg^{2+} concentration were optimized for product synthesis. Numerous products of varying sizes were detected. Products of 0.7 and 1kbp were gel purified, cloned into a bacterial vector and sequenced. [A Science Collaborative Research Program project completed in the Fall of 2001]

Jeffrey Doud

Political Science

Public Policy & Politics 9:00 a.m. Smullin 117

The Initiative Process as a Form of Internal Political Dissent

This project establishes the initiative process as an avenue of internal political dissent for alienated citizens. Though the initiative process resides within the ordinary framework of government, it provides the citizenry with an extra governmental, extraordinary means of challenging unresponsive governments and allows them to enact their own laws in an attempt to dispel the apathy and alienation that has strangled the electorate.

[A Politics project completed in the Fall of 2001]

Erin Eldredge

International Studies & Spanish

Money & Power 1:30 p.m. Smullin 117

Official Dollarization: A Beneficial Alternative for Latin American Countries in Crisis?

This project examines the current trend of replacing a national currency with the U.S. dollar in countries of Latin America. The effects that dollarization has on a country are quite significant, ranging from changes in the economy to political and social upheaval. Information presented will include an overview of factors that lead countries to consider the dollar and an analysis of the costs and benefits associated with dollarization. To illustrate these general concepts, Erin will use the examples of Ecuador, which adopted the dollar in 2000, and El Salvador, which dollarized in 2001. The presentation will include a synthesis of this information and an outlook for the future of the dollar in Latin America.

[An International Studies Senior Thesis completed in the Spring of 2002]

Emily Fagerstrom

Mathematics

Learning & Loss 1:30 p.m. Collins 205

Binary Numbers 101

Emily Fagerstrom and fellow Willamette University student, Jennifer Sirotek, taught mathematics as part of the Saturday Explorations in Advanced Science (SEAS) program. They used a base-2 worksheet, along with base-2 blocks to teach kids about binary numbers. In the classes with older, more advanced students, they showed them how to generalize the method to any base and then let the kids write codes to one another in a base of their choice. Emily and Jennifer will present excerpts of their lesson.

[A lesson taught during the Saturday Explorations in Advance Science program during the Spring of 2002]

Beth Gilmore

American Studies

Race & Identity 1:30 p.m. Collins 408

Learning from Libraries: A study of Jacob Lawrence and his depictions of the Black Academic Environment

Throughout his lifetime, Jacob Lawrence revisited the theme of libraries in his artwork. These scenes comprise a sort of "series" extending over a 50-year period. These depictions are important to study because they show a transformation in Lawrence's personal views of progress, community, and racial equality. Additionally, they demonstrate how Lawrence challenged the accepted representation of Blacks in American art. His pieces emphasize the importance of education within the African American community, a subject often overlooked in popular art for social and political reasons.

[A Senior Thesis completed in the Fall of 2001]

John Harnetiaux

Sociology

In The Telling 9:00 a.m. Eaton 211

Fish Stories Told Here: Performing Competence Among Fly Fisherman

This ethnographic study examines how fly fishermen manage the impressions they give in order to present a competent, experienced fly fisherman self. It examines the fly fisherman's use of "fish stories" as a means to achieve legitimacy within cultures of other fly fishermen. The research has included participant observation and semi-structured interviews with numerous fly fishermen within the community. It takes a Symbolic Interactionist perspective, with an emphasis on examining fly fishermen behavior and interaction.

[A Sociology Senior Thesis completed in the Spring of 2002]

Emerin Hatfield

Biology

Chemical Signals & Biological Barriers 9:00 a.m. Collins 205

Reproductive Isolating Barriers to Hybridization Between Two Milkweed Species (A. speciosa and A. fascicularis)

This study examined the possibility and occurrence of hybridization between two co-occurring milkweed species, *A. speciosa* and *A. fascicularis*. Morphological measurements were used to confirm species distinctions and to test for possible character displacement in sympatric as well as allopatric populations of both species. Artificial crosses were performed between *A. speciosa* and *A. fascicularis* in the field. Various other reproductive isolating barriers were also investigated. In particular, the reproductive isolating mechanisms that were studied include varying insect visitation, differing flowering phenology and mechanical barriers such as size of the stigmatic chamber in relation to the size of the pollinia. The seeds collected were from the successful hybrid crosses planted for a germination experiment.

[A Biology Senior Thesis completed in the Fall and Spring of 2001-2002]

Mary Hildebrandt

Latin American Studies

Money & Power 1:30 p.m. Smullin 117

The Cultural Meaning of Money: The Significance of Dollarization in Ecuador

The thesis begins with a brief history of money and how we have reached the relationship we have with money today. The paper then changes focus to Ecuador and its transition to dollarization, specifically emphasizing the cultural impact and implications of this process. Demonstrated is the cultural imposition of a dominant country's ideals onto a less dominant country. The thesis then offers a solution in the redefinition of cultural symbols, while maintaining tradition in order to be able to live with a new currency without giving up or losing cultural identity.

[A Latin American Studies Senior Seminar Thesis completed in Fall 2001]

Heidi Huntley

Rhetoric & Media Studies

Spatial Significance 1:30 p.m. Olin 302

Beyond the Pictures: Deconstructing Social and Political Commentary in Images of Cuba

This project is an interdisciplinary discussion and analysis of historical and popular images of Cuba. A study of visual rhetoric, it is concerned with a filmmaker's or photographer's claim of artistic objectivity. Filmmakers and photographers are in truth architects of subjective work, expressing social and political commentary. While the photographs in *Walker Evans: Havana 1933* and the images in the documentary *The Buena Vista Social Club* may intend to be interpreted as neutral and unbiased, the values and beliefs maintained by their creators are apparent and readily exposed in the images and film. Likewise, it is not possible for an average viewer to examine these works objectively. Nobody - photographer, editor, or audience, is merely "just looking" at these images.

[A Rhetoric Senior Seminar Project completed in the Spring 2002]

Greg Ishmael

Anthropology

Violence & Ethics 9:00 a.m. Smullin 129

Warfare and Sports: An Analysis of Football and Baseball

This paper addresses the following question: Do increased levels of warfare affect participation in combative sports? On the basis of a critical evaluation of a previous statistical analysis that tried to correlate combative sports and warfare, the paper concludes that the evidence for such a connection is questionable. Through an examination of U.S. society in the post-WWII era, the paper presents alternative explanations for the popularity of two specific sports: baseball and football. It will focus on the resonance between these sports and contemporary economic structures, among other things, and draws conclusions about the popularity of these two sports, and sports in general.

[An Anthropology Senior Seminar Paper completed in the Spring 2002]

Nancee Jaffe

Art History

Images & Form 1:30 p.m. Roger Hull Lecture Hall, Hallie Ford Museum

Creating the Human Form: Figures from Ancient Mexico

This project involved the researching, cataloging and labeling of 51 Pre-Columbian objects that were donated to the Hallie Ford Museum of Art. The exhibit includes 22 of these objects: objects that focus on the human form. The exhibit introduces the Salem community to the art and culture of the Mesoamerican people through the use of informative labels and sculptural pieces.

[An Independent Art History Project completed in the Fall and Spring of 2001-2002]

Kurt Johnson

Art History & Rhetoric

Images & Form 1:30 p.m. Roger Hull Lecture Hall, Hallie Ford Museum

Images of Oregon's Past: Community, Industry & University Through the Lens of Otto K. Paulus

The Paulus Collection, consisting of over one-thousand gloss-plate negatives, over two-hundred glass slides and several hundred soft negatives, presents a remarkable history of the Willamette Valley, the State of Oregon, the City of Salem, and Willamette University during the World War I era. The collection, featuring historic views of Willamette University, its faculty and student life, as well as views of Salem's Commerce, and several hundred formal slide portraits, was initially thought to be the work of brothers Robert and Otto Paulus, while Otto attended Willamette University. Through an examination of the collection and textual evidence, it was discovered the work is exclusively the work of Otto Paulus.

[An Art History Senior Thesis Project completed in the Spring 2002]

Gregory S. Jones

Economics

Public Policy & Politics 9:00 a.m. Smullin 117

Reasoning and Rationalization of Public Mass Transportation in America: Why Privatization Risks Too Much

Rooted in economic theory, this project's aim is to identify the direct and indirect costs and benefits of public transportation, to explore the economic characteristics of mass urban transportation in America that render its provision by the public sector, and to defend the current public model against calls for privatization in the mass transit industry.

[An Economics Senior Research Seminar Project completed in the Fall 2001]

Jessica Juran

History

Pacific Northwest: Struggles 9:00 a.m. Smullin 159

The Rogue River Indian Wars: A Southern Oregon Tragedy

This senior project looks at the local sentiments of settlers to the Rogue River Indians, and places the Rogue River Indian War of 1855-56 in context of other Indian Wars in the West. It also explores the relationship between the gold miners who came to the area, and how the mining community had different interactions and feelings towards the local Indians than more family oriented pioneers.

[A History Senior Seminar Project completed in the Spring 2002]

Melissa Kanzler

History

Race & Identity 1:30 p.m. Collins 408

"White Mistress, Black Slave: Women's Roles Under the Dominant Gender, Class and Racial Hierarchy of the Slave South

A discussion of the different ways white mistresses and slave women interacted and how that relationship supported the roles of womanhood defined by the white male power structure. The study shows how these experiences have evolved into today's commonly held stereotypes. It also shows how these roles dissolved and transcended to further an understanding of how black and white women's relationships in the Old South could be a source of resistance to the dominant culture and at other times a mere replication, or even intensification of its brutal inequality.

[An African-American History Project]

Anna J. Knisely

Biology

Learning & Loss 1:30 p.m. Collins 205

"Examination of Novel Cell-death: Regulating Proteins in Brief and Prolonged Focal Cerebral Ischemia"

Utilizing Western blot and immunohistochemistry, the up-and-down regulation of neuroprotective and deleterious genes under brief and prolonged focal cerebral ischemia in the rat model, *Rattus norvegicus* were determined.

[A Biology Senior Seminar Project completed in the Summer 2001]

Evan Larson

Environmental Science

Public Policy & Politics 9:00 a.m. Smullin 117

Fire History of the Lava Cast Forest, Central Oregon

Fire plays a crucial role in the maintenance of the ponderosa pine stands of the Lava Cast Forest in Central Oregon. For this reason, managers need to understand historic fire regimes and their implications for the management of these forests. This study examined changes to the mean fire return interval before and after European settlement by generating a fire history using dendroecological data and historical records. Samples were taken from 50 fire-scarred trees that recorded 89 unique fires dating back to 1186. This fire history will be used to develop recommendations for future management in the Newberry Volcanic National Monument.

[An Environmental Science Senior Seminar Thesis completed in the Spring 2002]

Laura Leineweber

Latin American Studies

Spatial Significance 1:30 p.m. Olin 302

The Plaza: Visiting the Significance of Public Space in Urban Latin America

This cultural analysis of the Latin American plaza explores, through two distinct illustrations, the profound sociopolitical meaning that the use of the plaza's public space for demonstration and protest can create. The focus of this analysis is on the 1968 student protests in Mexico City's Plaza Tlateloco that ended in massacre and the weekly demonstrations in Buenos Aires' Plaza de Mayo by the mothers of the "disappeared" in Argentina's Dirty War. Recognizing the significance of urban geography in these two examples aids in understanding the role of human agency.

[A Latin American Studies Senior Thesis completed in the Fall 2001]

Lindsay Logsdon

English

Narrative & Identity 9:00 a.m. Eaton 209

C'era una volta il West: Post World War II Italian Morality and Leone's Spaghetti Westerns

This project traces Sergio Leone's personal experience as an Italian during World War II in an effort to explain the differences between morality displayed in traditional American Western genre films and the often-criticized mentality of Leone's Spaghetti Western characters. The paper argues that the fundamental difference between the morality of traditional Western cinema and that of the Spaghetti Western results from the hardships and violence Italians faced during World War II. It also analyzes the history of the post World War II film industry in Italy, including the political and economic battles between the American Psychological Warfare Board, Hollywood, the Vatican, the neorealists, and Italian film goers. It finds that Leone's attention to basic Italian morality allowed his films to become some of the most successful Italian films ever produced.

[An Independent Senior Thesis Project completed in the Fall and Spring 2001-2002]

Santiago Lopez

International Relations

Narrative & Identity 9:00 a.m. Eaton 209

The forbidden loves of The House of the Spirits

The House of the Spirits, by Isabel Allende, shows the connection in Chile between social class and the treatment of women during the middle of the twentieth century. Allende gives an excellent description of how women, especially the Del Valle women, change during Allende's presidency and the coup that followed it. Furthermore, the amorous relationships in the novel describe the differences of power and class in a country divided by racism, sexism and politics. The novel shows an evolutionary process of the treatment of women in Chile that at the end leaves more questions than answers.

[A Latin American Contemporary Women Writers Paper completed in the Fall 2001]

David McAdams

International Studies

Violence & Ethics 9:00 a.m. Smullin 129

Origins of Terror

This project focuses on the effects of occupation on societies and the tendency of major terrorist resistance to occur approximately 20 years after the onset of an occupation of a society. In particular, two major case studies are conducted; one on the Baader-Meinhof Group of Germany, and the other of Hamas in Israel. Also, Osama bin Laden's al Qaeda organization is looked at, especially its stance regarding the supposed US occupation of the Islamic Holy Lands. His goal is to show that occupation leads to terrorism not only in these case studies, but in the development of nearly all major terrorist organizations.

[An International Studies Senior Seminar Project completed in the Spring 2002]

Linnsey Puana Miller

Biology

Chemical Signals & Biological Barriers 9:00 a.m. Collins 205

Effects of Temperature and Abscisic Acid (ABA) on the Production of an Extracellular Signal Regulating Kinase (ERK-1) in Cultured Guard Cell Protoplasts of Nicotiana glauca

Guard cells (GC) are paired leaf epidermal cells which regulate photosynthesis in plants by controlling the rate of gas exchange. GC cultured at 32°C dedifferentiate and divide to form callus tissue. At 38°C, GC retain their differentiated morphology and some GC physiological functions, and do not divide. MAPK (Mitogen-Activated Protein Kinase) transcription is necessary for cell cycle progression in many animal cells. Antibodies to two MAPKs, ERK-1 and ERK-2, were used to detect MAPK in whole leaf *Nicotiana glauca* tissue, fresh GC, 32°C and 38°C cultured cells, and 38°C cultured with the addition of the growth hormone abscisic acid.

[A Wilson-Berg Scholarship Project completed in the Fall and Spring 2001-2002]

David Nitka

History

In The Telling 9:00 a.m. Eaton 211

One Day I Will Reboot My Brain: An Examination of the Mechanical Augmentation of Human Intellect

The quantifiable amount of information available to humanity is rapidly increasing. The limiting factor in embracing such copious amounts of knowledge is our ability to keep it properly indexed and available for retrieval. This presentation focuses on the creation of computing technologies for purposes of cataloging humanities knowledge of the universe. Additionally, it will focus on how man interacts with computers to input and retrieve data. It will focus on how the future of computing will enable humanity to improve its relation with computing through cyborg technology, three dimensional image displays and other cutting edge technologies, which will define our future.

[A History Senior Thesis completed in the Fall 2001]

Benjamin Peterson

Politics

Pacific Northwest: Struggles 9:00 a.m. Smullin 159

A Fight They Could Not Win: The Failure of the IWW in the Pacific Northwest (1907-1918)

Prior to World War I, the International Workers of the World were on the verge of taking leadership in the organization of Pacific Northwest lumber workers. Yet after the start of World War I, the IWW collapsed as a viable labor organization in the Pacific Northwest. This collapse was not the result of an internal failure of the IWW leadership. Instead it was the result of external pressure resulting from the peculiarities of the wartime economy. This pressure took many forms including systematic government repression of IWW members and the use of misinformation to destroy the credibility of the IWW.

[An American Radicalism Paper completed in the Fall 2001]

Danica Praza

English

Building Fictional Worlds 1:30 p.m. Smullin 129

Seehears Wordmusic: Language as Music in the Sirens Chapter of James Joyce's Ulysses

Music appears in various forms throughout Joyce's *Ulysses*, and with an ear tuned to the "Sirens" chapter, the sounds and rhythms of his words express their music. In this chapter, Joyce parallels musical constructs by establishing a fugal construction and leitmotifs. Specific musical references provide insight into the reasons Joyce wrote the "Sirens" chapter with music in mind, and more significantly, explain the chapter's objective to show that music and language are the same. In this chapter alliteration, assonance, and word repetition create tempos, dynamics, rhythms, tones, and phrases, revealing that the "Sirens" chapter is not just about music, it is music.

[A Humanities Senior Seminar Paper completed in the Fall 2001]

Daniel Robert Rivas

Anthropology

Pacific Northwest: Struggles 9:00 a.m. Smullin 159

Mexican-American Identities: The Role of Binary Thinking in the 'Internal Differentiation' of Persons

This paper critically evaluates Michael Kearney's arguments about transnationalism, using oral histories of Mexican-Americans as empirical evidence. It argues that Michael Kearney's influential transmigrational theories advance a useful anthropological perspective, but in some cases at the expense of a full understanding of specific migrant and immigrant identities. Though Kearney provides insight into the process of globalization and the ways identities continue to blur in an increasingly global world, he goes too far in claiming that certain binary categories are not useful in understanding migrant, immigrant, and binational identities, failing to recognize the persistence of certain concepts in the formation of identities.

[An Anthropology Senior Seminar Paper completed in the Spring 2002]

Stephenie Rodgers

Spanish & Sociology

Narrative & Identity 9:00 a.m. Eaton 209

La Presencia del poder feminine en lost cuentos latinoamericanos y como existe en las obras femeninas y masculines [The presence of feminine power in Latin American stories and how it exists in both feminine and masculine writings]

The thesis discusses the strength of women in Latin American short stories; a concept often overlooked in the place of "machismo." Men are considered the more dominant members of society and may appear stronger because they are the decision makers. The thesis uses six stories by both male and female writers to demonstrate that although women may not be as physically strong as men, they possess emotional and sexual powers and strengths that overcome those of the dominant male. The thesis compares both male and female writers to show that female empowerment exists regardless of the author's gender. The female strengths are more subtle but very influential, and can overcome the will power of men. It is the woman who can tear apart brothers as in "la intrusa" and who keeps the family together as in "la fuga."

[A Spanish Senior Seminar Thesis completed in the Fall 2001]

Robert Sassor

English

In The Telling 9:00 a.m. Eaton 211

The Process of Getting Rejected (And Not): How I Wrote My Senior Thesis

In the process of writing his senior thesis, Robert learned the importance of failure in the creative process. As he solicited interviews for his work, he found that rejection can often be as exciting as success, and he quickly shifted his focus to an earnest desire to get rejected by the world's leading environmentalists. As a result, he collected several passionate replies from many exciting offices.

[An English Independent Study Thesis completed in the Spring 2002]

Jennifer Sirotek

Mathematics

Learning & Loss 1:30 p.m. Collins 205

Binary Numbers 101

Jennifer Sirotek and fellow Willamette University student, Emily Fagerstrom, taught mathematics as part of the Saturday Explorations in Advanced Science (SEAS) program. They used a base-2 worksheet, along with base-2 blocks to teach kids about binary numbers. In the classes with older, more advanced students, they showed them how to generalize the method to any base and then let the kids write codes to one another in a base of their choice. Jennifer and Emily will present excerpts of their lesson.

[A lesson taught during the Saturday Explorations in Advance Science program during the Spring of 2002]

Virginia Sorensen

French

Building Fictional Worlds 1:30 p.m. Smullin 129

The Linguistic Mystery of Mauritius: Exploring French Language and Literature in a British Colony

Although the official language of Mauritius has been English since 1847, and the British Government has ruled since 1810, there remains a tendency to promote the French language and its traditions in all facets of Mauritian life. This study will offer explanations for this tendency by analyzing linguistic patterns and literary works. It will consider the historical basis for this tendency and the political and social reasons to speak and write French. Consideration of francophone Mauritian literature will help explain linguistic choices, and a look at literary and linguistic tendencies since the Mauritian independence of 1968 will explain future prospects and for French language use in Mauritian.

[A French Research and Discussion Study completed in the Spring 2002]

Julie Stefan

English

In The Telling 9:00 a.m. Eaton 211

Motion

Motion is a creative writing project consisting of three short stories. The goals of the project include: learning techniques of conception, implementation, and revision. In the first story, a woman struggles with issues of religion and marriage. In the second, a young student conflicts with her music teacher over ideas of accomplishment and reputation. In the third, two sisters must endure the repercussions of having a mentally ill mother. The project uses personal experiences, studied published stories, philosophy and religion to bring texture and vitality to the characters and storylines.

[An English Independent Study Project completed in the Spring 2002]

Elizabeth Sweeney

Rhetoric & Media Studies

Spatial Significance 1:30 p.m. Olin 302

Ecuador v. Texaco: Competing Visual Rhetoric

The conflict between Texaco Inc. and its opposition in Ecuador and other countries, including opposition from environmental groups, indigenous groups, and human rights groups, is multifaceted. The dispute began over thirty years ago and the embers of inquietude have burst into flame. The visual rhetoric used by both sides has been influential in propelling their cases. This project examines five artifacts of Texaco's visual propaganda and five artifacts from the opposition's.

[A Rhetoric Senior Seminar Project completed in the Spring 2002]

Garrett Tenold

Physics & Mathematics

Presidential Scholars Presentation 3:45 – 4:15 p.m. Hatfield Room, Hatfield Library

Sonoluminescence: the Art (and Science) of Turning Sound Into Light

Studying sonoluminescence in a single bubble doped with noble gasses will give insight into the currently unknown mechanism of light emission. This talk will describe the development of a sonoluminescence laboratory capable of studying gas doped systems; specifically the construction and analysis of an open resonant chamber, the refinement of a closed chamber, and the design of a system for the collection and analysis of emitted light.

[A Presidential Scholar study completed in the Fall and Spring semesters of 2001-2002]

Shannon Vincent

Politics & History

Money & Power 1:30 p.m. Smullin 117

Political Economic Violence: A Critical Evaluation of the World Trade Organization

This inquiry extends the prevailing definitions and distinctions associated with political violence and terrorist groups to the political economic realm; in particular, it argues that the World Trade Organization (WTO) is a politically violent entity with facets mimicking terrorist groups. The WTO's opaque, anti-democratic, and extra-legal setup is evaluated in conjunction with WTO policy consequences in order to: (1) rethink what constitutes political violence and terrorism in the international political economy, and (2) identify the power associated with polarizing different forms of political violence.

[A Politics Senior Thesis completed in the Spring 2002]

Amelia Williams

Anthropology

Building Fictional Worlds 1:30 p.m. Smullin 129

Breaking Boundaries as Trickster: Gender and Power in American Children's Literature

This paper looks at the role of trickster in children's literature, specifically at female protagonists playing the role of trickster. Trickster is an important character in anthropology because of the way the character works to break social norms and create new cultural ideas. Tricksters use very clever ways to break the boundaries that society has handed them. The paper analyzes two novels. Both are pioneer stories and have female trickster characters, but were written in very different time periods. Exploring gender and power issues are important aspects of the paper.

[An Anthropology Senior Seminar Paper completed in the Spring 2002]

Erin Winterrowd

Psychology

Learning & Loss 1:30 p.m. Collins 205

Attention Deficit Hyperactivity Disorder: Biological or Environmental? An analysis of the etiologic factors contributing to the phenotypic expression of AD/HD in children

Neurochemical, environmental, and genetic etiologies have created a heterogeneous expression of Attention Deficit Hyperactivity Disorder (AD/HD) in children. When comorbid symptomatology are controlled for, however, the relationship between environmental factors and AD/HD disappears. For some children, symptoms that resemble AD/HD are created by the environment but don't have the biological basis of pure AD/HD. These children represent a distinct subtype of environmental AD/HD which can be differentiated from biological AD/HD through comorbidity, neurochemical examinations, genetic analyses, and responses to medication.

[A Psychology Senior Honors Thesis completed in the Spring 2002]

Benjamin J.D. Wright

Chemistry

Chemical Signals & Biological Barriers 9:00 a.m. Collins 205

Progress Toward the Asymmetric Synthesis of Kalkitoxin

Efforts toward the total stereoselective synthesis of (+)-kalkitoxin were carried out to demonstrate a viable method for installing the acyclic α , β , γ -trimethyl core at C7, C8, and C10 in high enantioselectivity. It was anticipated that this synthetic approach to kalkitoxin, installing the 7, 8, 10 *anti*, *anti* trimethyl functionality in an efficient manner, would be applicable not only to analogs of kalkitoxin, but also to other molecules with this stereochemical configuration. Treatment of (+)-2,4-dimethylcyclohexanone with LDA followed by reaction with trimethylsilyl chloride afforded the corresponding kinetic trimethylsilyl enol ether. Ozonolysis followed by reductive workup with dimethyl sulfide, and subsequent treatment with diazomethane converted the trimethylsilyl enol ether to the ring opened aldehydo ester. Reductive amination with methyl amine in THF and sodium cyanoborohydride generated a secondary methyl amine which was protected with BOC anhydride to afford a *t*-butyl carbamate ester, a key precursor in the synthesis of kalkitoxin.

[A Science Collaborative Research Program project completed in the Fall and Spring of 2001-2002]

Acknowledgements

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the Order of Omega

Thank you

*Please join us
outside of
the Cat Cavern
for an
Open Reception
from
5:00 - 5:45 p.m.*
