Schedule of Presentations

Colby College
Colby Undergraduate Research Symposium 2009  
April 29 - May 1, Colby College, Waterville, Maine

Research Presentations

Wednesday, April 29

SESSION I: WGSS  
WGSS Senior Seminar  
9:00 - 11:00 AM

9:00 am  Elizabeth Doran ('09), Women, Gender, Sexuality  
'The Husband, the Wife, and the Lord in the Middle': Evangelical Women, Mutuality, and Submission

9:15 am  Ashlee Holm ('09), Women, Gender, Sexuality  
Fantasies: Staging Feminist Performance Art

9:30 am  Danielle Crochiere ('09), Women, Gender, Sexuality  
How Porn has been Normalized into Society: A Closer Look at its Effect on College Campuses

9:45 am  Naomi Smith ('09), Women, Gender, Sexuality  
Sexuality, Gender and the Law in the United States

10:00 am  Katherine Dammann ('09), Women, Gender, Sexuality  
'Just imagine it being your sister or mom, and then think about how we should talk about that': The Representation and Consumption of Chris Brown, Rihanna, and Domestic Violence

10:15 am  Pamela Colon ('09), Women, Gender, Sexuality  
'Grass Without Roots': Social Programs and Women's Empowerment in India

10:30 am  Cary Finnegan ('09), Women, Gender, Sexuality  
Pushing Boundaries: Expressions of Love and Sexuality in the Life and Work of Edna St. Vincent Millay

SESSION II: ENVIRONMENTAL STUDIES  
Conservation Biology Presentations  
11:00 AM

Rachel E. Baron ('11), Bryan J. Brown ('09) and Brooke E. Wanlass ('11), Conservation Biology Presentations  
What is Ecoagriculture?
SESSION III: ENVIRONMENTAL STUDIES

Environmental Studies Honors Presentations
Session Chair: Russ Cole
1:00 - 4:00 PM

1:00 pm  Patrick Roche ('09), Environmental Studies
Learning the Lay of Their Land: Data Collection by Maine Land Trusts

1:30 pm  Megan Saunders ('09), Environmental Studies
Factors Influencing Conservation Success or Failure in Tiger Range States

2:15 pm  Caitlin Dufraine ('09), Environmental Studies
An Identification and Assessment of Human-Carnivore Conflict Hotspots and Large Carnivore Policy Implications in the United States

2:45 pm  Lindsay Dreiss ('09), Environmental Studies
Protecting Maine's Mammals: A Model of Human Footprint and Biodiversity in the North Woods

SESSION IV: General Session

General Session
Session Chair: Suzi Cole
1:00 - 4:50 PM

1:00 pm  Hilana Bernheimer ('10) and Anna Kelemen ('10), Psychology
School Readiness: The Underlying Factors of Socio-Economic Status and the Ways in Which Those Factors Affect Waterville Children's Kindergarten Preparedness

1:15 pm  Carla Jacobs ('09), Psychology
Assesing Body Image Concerns in Preschoolers from a Social Cognitive Perspective

1:30 pm  Nina Gold ('09), Psychology
Simon Is Sick: A Therapeutic Book for Pediatric Patients

1:45 pm  Daniel Heinrich ('09) and Dylan Perry ('09), Biology
Reaction Latency Period in Response to Tactile Stimuli

2:00 pm  Eric Braunstein ('10), Chemistry
Analysis of the Electron Withdrawing Capability of Acetylene Groups for Nucleophilic Aromatic Substitution.

2:30 pm  Samantha Richens ('11), Art
The American Portrait and the Invention of the Daguerreotype

2:45 pm  Shelley Payne ('09), History
Currents of Aggression: The American Agrarian Dream and Mexican Land Grants in Alta California

3:00 pm  James Goldring ('09), Government
Identity Politics in Post-Genocide Rwanda: Obstacles to Reconciliation and
Stability

3:30 pm  Michele Chu ('09), Psychology
David vs. Goliath: Whose Side Are you on Anyway?

3:45 pm  Carrie Potter ('09), Psychology
The Effects of Eating Behaviors and Exercise Patterns on the Processing of Food and Exercise Related Stimuli

4:00 pm  Ling Zhu ('09), Economics
Central Bank Independence: The Missing Link in Cyclicality of Monetary Policies

SESSION V: ART

Realms of Faith (AR397)  Smith
Session Chair: Veronique Plesch/David Simon
4:00 - 5:00 PM

4:00 pm  Whitney Lynn ('09), Art
Byzantine Paten and Chalice

4:15 pm  Margaret Gribbell ('09), Art
A Limoges Reliquary

4:30 pm  Megan Conroy ('10), Art
Ivory Diptych with Nativity, Adoration of the Magi, Crucifixion, and Last Judgment

4:45 pm  Thomas Winter ('09), Art
Façade Relief with Two Birds

Thursday, April 30

SESSION VI:  Whitney
General Session  Session Chair: Suzi Cole/Marilyn Pukkila
1:00 - 4:30 PM

1:00 pm  Ellen London ('09), English
Romantic Representations: The Intercultural Translation of Body and Commodity in Orientalist Discourse

1:25 pm  Colin Cummings ('09), English
Reading Joycean Comedy and Faulknerian Tragedy: Exploring the Significance of Location, Literary Influence and the Possibilities of Heroism with Leopold Bloom in Joyce’s Ulysses and Quentin Compson in Faulkner’s The Sound and the Fury and Absalom, Absalom!

1:50 pm  Lauren Duval ('09), History
'La Belle Américaine': Sarah Jay's Experience Abroad during the American Revolution

2:30 pm  
**Eitan Green** ('09), Anthropology

Re-imagined Communities: Global Climbing on Local Mountains

3:15 pm  
**Matthew Von Vogt** ('11), German/Russian

The Concept of the Modern Family in Fassbinder's Group Films of 1960s Germany

3:35 pm  
**Sei Harris** ('10), German/Russian

The Sound of Yourself Listening: Faust and the Politics of the Unpolitical

3:55 pm  
**Yilin Xu** ('09), Economics

Hydropower Development and Resettlement Policy on China’s Nu River

**SESSION VII:**  
Natural Sciences and Environmental Studies  
**Session Chair: Robert Bluhm**

1:00 - 3:45 PM

1:00 pm  
**Nathan Hill** ('09), Physics and Astronomy

The Higgs Mechanism and the Search for the Higgs Boson

1:15 pm  
**David Connick** ('09), Physics and Astronomy

Noether's and Goldstones theorem in particle physics

1:30 pm  
**James Jones** ('09), Physics and Astronomy

Beyond the Standard Model: Supersymmetry and Large Extra Dimensions

1:45 pm  
**Seth Johnson** ('10) and **Frances Still** ('10), Biology

Regulation of D-Pax-2 by Proneural Genes

2:00 pm  
**Rachel Guest** ('09), Geology

Can Predatory-Prey Arms Races Intensify during a Mass Extinction Event? Strombid Gastropods from Late Neogene of Florida

2:30 pm  
**Lauren Harris** ('10) and **Michael MacNicoll** ('09), Mathematics

Three-dimensional Modeling of Vertigo Sensation in Patients Suffering from Benign Paroxysmal Positional Nystagmus.

2:45 pm  
**Colin O'Shea** ('10), Biology
The Neurological Phenotyping of Methylmalonic Acidemia

3:00 pm  
**Blair Braverman ('11)**, Environmental Studies

The Iditarod Trail as a Model for Conservation

3:15 pm  
**William Tyson ('09)**, Environmental Studies

The Human Landscape of Potential Wolf Habitat in the Northeastern United States: A Spatial Analysis of the Political and Social Suitability of Wolf Re-Colonization

**SESSION VIII: ENVIRONMENTAL STUDIES**  
**Diamond 223**  
**Session Chair: Cat Ashcraft**

2:30 - 3:45 PM

Laura Gray ('09) and Alexi Greenberg ('09), Environmental Policy and Dispute Resolution Presentations

Conflict and Cooperation Over Water Rights: Cases from the Middle East and Indian Water Rights in the Western United States

**SESSION IX: EAST ASIAN STUDIES**  
**Hurd**  
**Session Chair: Tamae Prindle**

3:00 - 4:00 PM

3:00 pm  
**Jesica Chang ('11), Lauren McGrath ('12) and Sundine Chizzonite ('09)**, East-Asian Studies

20th Century Japanese Fiction

**SESSION X: INTERNATIONAL STUDIES**  
**Hurd**  
**Session Chair: Jennifer Yoder**

4:00 - 5:00 PM

4:00 pm  
**Daniela Andreevska ('09)**, International Studies

Keys and Orchards: Memory and the Palestinian Diaspora, 1948-Present

4:30 pm  
**Christine Shu ('09)**, International Studies

Antibiotics, Herbs, and Magic: Health Practices in Contemporary St. Petersburg

**SESSION XI: HISTORY**  
**Smith**  
**Session Chair: Elizabeth Leonard**

4:00 - 5:00 PM
4:00 pm  Jennifer MacDowell ('09), History
Wartime Attitudes and Morale of Union and Confederate Women

4:30 pm  Noel De Freitas ('10), History
A Study of African American Troops and Their Motives For Fighting in the American Civil War

SESSION XII: ART
Food in Art, Food as Art  
Session Chair: Veronique Plesch
Bixler 154
4:00 - 5:30 PM

4:00 pm  Virginia Robbins ('10), Art
Sins of the Flesh: Gluttony and Lust in Medieval Culture

4:20 pm  Brittany Canniff ('09), Art
Dutch Food and Identity in 17th Century Still Lives

4:40 pm  Laure-Helene Caseau ('10), Art
European Chocolate: the Early Years

5:00 pm  Fiona Braslau ('10), Art
Meat in European Art

SESSION XIII: THEATER AND DANCE
New Play Festival  
Session Chair: Lynne Conner
Strider Theater
7:30 PM

Lucy Dotson ('12), Theater and Dance
GHOSTS

Sean Senior ('10), Theater and Dance
THAT ONE DAMN BUST

Kathleen Brzozowski ('09), Theater and Dance
SEXUAL DEBUT

Frederick Freudenberger ('09), Theater and Dance
ONLY A THEORY

Kate Vasconi ('09), Theater and Dance
THE ELGIN WAR
**Friday, May 1**

**SESSION XIV: GERMAN AND RUSSIAN**

*German Studies Senior Seminar*  
*Session Chair: Arne Koch*

11:00 - 12:45 PM

11:00 am **Sommer Engels** ('09), German/Russian  
Bernhard Schlinks 'Der Vorleser' und deutsche Vergangenheitsbewältigung

11:15 am **Samuel Morales** ('09), German/Russian  
Die Individualisierung der gesellschaftlichen sittlichen Sorgen in 'Frühlings Erwachen' und 'Der Vorleser' (The individualization of societal moral problems in 'Spring Awakening' and 'The Reader')

11:30 am **Nicole Veilleux** ('09), German/Russian  
Die Darstellung des Anderen und des Bekannten: Rassenvorurteil, Menschenrecht und Philosophie in Heinrich von Kleists 'Die Verlobung in St. Domingo'

11:50 am **Katherine Dutcher** ('09), German/Russian  
Moralphilosophie in Frank Wedekinds 'Frühlings Erwachen': Freiheit plus Ordnung gleich Sittlichkeit

12:10 pm **Justin Mohler** ('09), German/Russian  
Die Darstellung moderner Identität in Doris Dörries „Bin ich schön?“

**SESSION XV: CHEMISTRY**

*Chemistry Senior Research Presentations*  
*Session Chair: Jeff Katz and Das Thamattoor*

11:00 AM

**Andrew Young** ('09), **Tom Sisto** ('09) and **Whitney Miller** ('09)

**SESSION XVI: ENVIRONMENTAL STUDIES**

*Conservation Biology Presentations*  
*Session Chair: Russ Cole*

11:00 AM

**Lauren E. Corke** ('10), **Amanda R. Lindsay** ('10) and **Sean T. Prockter** ('09),
Conservation Biology Presentations
Management and Protection of Mangroves

SESSION XVII: ECONOMICS
Economics Honors Research Presentations
Session Chair: Guillermo Vuletin
1:00 - 4:00 PM

1:00 pm  Ling Zhu ('09), Economics
A Nouval Measure of Central Bank Independence
1:25 pm  Ian Cummins ('09), Economics
Cyclicality of State Budgeting: A Political-Economy Analysis
1:50 pm  John Roberts ('09), Economics
Forecasting Commodity Prices with Parallel Exchange Rates
2:15 pm  Gregory Zartarian ('09), Economics
Occupational and Geographic Mobility of Armenian Immigrants
2:40 pm  Po Wong ('09), Economics
The Effect of Natural Disasters: The Indonesian Forest Fires in 1997
3:05 pm  Yilin Xu ('09), Economics
Public Goods Provision and Local Governance in China: Evidence from Rural Gansu Province
3:30 pm  Prabhav Rakhra ('09), Economics
Business-Time

SESSION XVIII: AMERICAN STUDIES
American Studies Senior Theses
Session Chair: Margaret McFadden
1:00 - 3:00 PM

1:00 pm  Melissa Martin ('09), American Studies
America the Beautiful, the Bountiful, the Healthful and the Hungry: Understanding Contemporary American Food Culture
1:25 pm  Hope Rosenfeld ('09), American Studies
Friend or Foe? Examining the Impact of Facebook and Social Networking on Modern American Society
1:50 pm  Tiffany Martin ('09), American Studies
The Selfish versus The Lazy: Intra-racial Relationships in Aaron McGruder's 'The Boondocks'
2:15 pm  Henry Powell ('09), American Studies
Consuming Generations: Race and Society in George Romero's Zombie Films
2:40 pm  Jamie Quine ('09), American Studies
Disney's Daughters: The Representation of Gender in Popular Animated Disney Films

**SESSION XIX: HISTORY/LATIN AMERICAN STUDIES**

**Counterinsurgency and Violence in Colombia and Guatemala**

**Session Chair: Ben Fallaw**

1:00 - 2:30 PM

1:00 pm **Catherine Coffman** ('09), History
Dust Between Two Fires: Civilian Militias in Ayacucho, Peru and Middle Magdalena Valley, Colombia in the Late Twentieth Century

1:40 pm **Sarah DeLiefde** ('09), Latin American Studies
From Colonization to Civil War: Gendering the Guatemalan Counterinsurgency

**SESSION XX: BIOLOGY**

**Biology Honors Research Presentations**

**Session Chair: Russell Johnson**

1:00 - 3:30 PM

1:00 pm **Zachary Zalinger** ('09), Biology
Characterization of the Incompatibility Group A/C Conjugative Plasmid *Aeromonas salmonicida* subsp. *salmonicida*

1:15 pm **Katharine Harmon** ('09), Biology
Engrailed and Other Pax-2 targets

1:30 pm **Ruth Langton** ('09), Biology
The Effect of Glutamate on Neurosecretory Cells in the Crustacean Nervous System

1:45 pm **Kimberly Cohen** ('09), Biology
Diet Manipulation in Painted Lady Butterfly Larvae, *Vanessa cardui*: Effects on Larvae, Adult Morphology, and Flight Performance

2:00 pm **Andrew McEvoy** ('09), Biology
Evaluation of Nocturnal Flight Calls as Useful Tool in the Study of Avian Migration

2:30 pm **Philip Crystal** ('09), Biology
Estimation of population reduction and gene flow in the rare orchid *Isotria medeoloides*

2:45 pm **Jennifer Myers** ('09), Biology
The Effects of N-acetylserotonin and Prazosin on Fiddler Crab (*Uca pugilator*) X-Organ Cell Neurite Growth

3:00 pm **Escar Kusema** ('09), Biology

**SESSION XXI: EDUCATION**

**Student Inquiry and Practice in Education and Human**

**Session Chair: Mark Tappan**

Diamond 122
Development
2:00 - 4:00 PM

2:00 pm Pamela Colon ('09), Independent Studies
'It's not all they are': The Lives of Girls in the South End

2:15 pm Amanda Mello ('09) and Margaret Lancaster ('09), Education and Human Development
Student Teaching Portfolio Presentation

3:15 pm Ruth Langton ('09), Danielle Carlson ('10), Ozzy Ramirez ('10), Aleah Starr ('11) and Alyssa Kavanagh ('10), Education and Human Development
Coloring Class Lines

SESSION XXII: RUSSIAN
Russian Senior Symposium: Boris Pasternak's Doktor Zhivago

2:00 PM

SESSION XXIII: General Session

3:00 - 5:15 PM

3:00 pm Qainat Khan ('11), Women, Gender, Sexuality
Representing Harvey Milk in the Media 1973-1988

3:15 pm Amy Dunlap ('11), Women, Gender, Sexuality

3:30 pm Emma Anastos-Wallen ('11), Women, Gender, Sexuality
Improving Lipstick Quotients: The Media’s Construction of Gender and Romance in The Colby Echo During the 1950s

4:00 pm Amy Lu ('09), East-Asian Studies
China's Environmental Challenges

4:30 pm Frederick Freudengerber ('09), Geology
Morphological Fluctuations of the Sahara Desert: An Overview of Quaternary Climate Change and Geomorphology with Special Attention to Water.

4:45 pm Daniel Franklin ('10), History
Ibn Khaldun (1332-1406): The Medieval Dar al-Islam’s Greatest “Renaissance Man”, His Historical and Sociological Contributions, and His Encounter with the Mongol
SESSION XXIV: HISTORY
Senior Seminar on the Civil War
3:00 - 4:00 PM

3:00 pm Matthew Quinlan ('10), History
Hollywood's Depiction of Irish Soldiers in the American Civil War

3:30 pm Emily Schofield ('09), History
10th and 29th Maine Regiments

SESSION XXV: CHEMISTRY
Chemistry Senior Research Presentations
3:00 PM

Zac Helm ('09)
A Novel Method for Measuring Antioxidant Activity

Nichole Schmidt ('09)
The Synthesis of a Biomimetic Mo Complex with a New Bidentate Sulfur Ligand

Becky Thorburn ('09)
The Synthesis of Chiral Macrocycles Containing BINOL

SESSION XXVI: RELIGIOUS STUDIES
Religious Studies Senior Presentations
4:00 - 6:00 PM

Elizabeth Byrne ('09)
Think of the Children: Narratives of Violence in Children's Bibles

Esther Boyd ('09)
The Popcorn Apocalypse: Judeo-Christian Apocalypticism in Contemporary American Film

Sejal Patel ('09)
'She Who Lived': Using Film as Means of Examining the Disconnect Between the Subjugation of Women in India and the Reverence for Hindu Goddesses

Joseph Slater ('09)
There is Neither Greek nor Latin in Christ Jesus

SESSION XXVII: SOCIOLOGY
Sociology Honors Research Presentations
4:00 - 6:00 PM
4:00 pm  Abigail Sussman (’09), Sociology
        Midwifery in the USA: An Exploration of the Decline and Rise in Midwife Use.

4:40 pm  Elizabeth Doran (’09), Sociology
        'Contentment in My Heart': Evangelical Women and Spiritual Journeys

SESSION XXVIII: THEATER AND DANCE
Strider Theater
New Play Festival
Session Chair: Lynne Conner
7:30 PM (see Thurs.)