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2009

Schedule of Presentations

Colby College

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Colby Undergraduate Research Symposium Research Presentation Schedule on April 29-May 1, 2009.

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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

Hurd
Session Chair: Margaret McFadden

- 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

Olin 234
Session Chair: Russ Cole

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
1:00 - 4:00 PM

Whitney
Session Chair: Russ Cole

- 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
1:00 - 4:50 PM

Hurd
Session Chair: Suzi Cole

- 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 Cyclicity of Monetary Policies

SESSION V: ART

Realms of Faith (AR397)

4:00 - 5:00 PM

Smith

Session Chair: Veronique Plesch/David Simon

- 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:

General Session

1:00 - 4:30 PM

Whitney

Session Chair: Suzi Cole/Marilyn Pukkila

- 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
1:00 - 3:45 PM

Smith
Session Chair: Robert Bluhm

**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
Transboundary Environmental Policy and Dispute
Resolution Presentations***

2:30 - 3:45 PM

*Diamond 223
Session Chair: Cat Ashcraft*

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

East Asian Studies

3:00 - 4:00 PM

*Hurd
Session Chair: Tamae Prindle*

**3:00
pm**

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

20th Century Japanese Fiction

SESSION X: INTERNATIONAL STUDIES

International Studies Honors Presentations

4:00 - 5:00 PM

*Hurd
Session Chair: Jennifer Yoder*

**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

Senior Seminar on the Civil War

4:00 - 5:00 PM

*Smith
Session Chair: Elizabeth Leonard*

**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

4:00 - 5:30 PM

Bixler 154

Session Chair: Veronique Plesch

**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

7:30 PM

Strider Theater

Session Chair: Lynne Conner

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

Kris Miranda ('09), Theater and Dance
SWORD AND SHIELD

Andrew Bolduc ('10), Theater and Dance
A QUICK LESSON IN CAUSE AND EFFECT

Michael Trottier ('12), Theater and Dance
CLARITY

Friday, May 1

SESSION XIV: GERMAN AND RUSSIAN
German Studies Senior Seminar
11:00 - 12:45 PM

Hurd
Session Chair: Arne Koch

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
11:00 AM

Arey 5
Session Chair: Jeff Katz and Das Thamattoor

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

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

Olin 234
Session Chair: Russ Cole

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
1:00 - 4:00 PM

Whitney
Session Chair: Guillermo Vuletin

- 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
1:00 - 3:00 PM

Hurd
Session Chair: Margaret McFadden

- 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

Smith

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

Olin 1

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

Cellular Mechanisms of Melatonin-induced Neurite Growth in Crustacean X-organ Cells.

SESSION XXI: EDUCATION

Diamond 122

Student Inquiry and Practice in Education and Human

Session Chair: Mark Tappan

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

Lovejoy 215
Session Chair: Sheila
McCarthy

SESSION XXIII:

General Session

3:00 - 5:15 PM

Hurd
Session Chair: Suzi Cole

- 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
The Rise of Second-Wave Feminism at Colby College: The Women's Organization and Women's Health on Mayflower Hill, 1973-1980
- 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 Freudenberger** ('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

Conqueror Tamerlane

SESSION XXIV: HISTORY
Senior Seminar on the Civil War
3:00 - 4:00 PM

Smith
Session Chair: Elizabeth Leonard

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

Keyes 105
Session Chair: Jeff Katz and Das Thamattoor

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

Lovejoy 213
Session Chair: Carleen Mandolfo

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

Diamond 122
Session Chair: Terry Arendell

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

New Play Festival

7:30 PM (see Thurs.)

Strider Theater

Session Chair: Lynne Conner