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2006

## Schedule of Presentations

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***Colby Undergraduate Research Symposium 2006***  
***May 3-5, Colby College, Waterville, Maine***  
***Olin 1***

***Research Presentations***

***Wednesday, May 3***

***SESSION I: ENVIRONMENTAL STUDIES***

***Conservation Biology Presentations***

***11:00 - 11:50***

***Olin 234***

***Session Chair: Russ Cole***

**Liza Mitchell** ('08), **Katie Renwick** ('07) and **Jeff Carroll** ('08), Conservation  
Biology Presentations

Gray Wolf Reintroduction in the Greater Yellowstone Area

***SESSION II: ANTHROPOLOGY***

***Senior Research in Anthropology***

***1:00-3:00 PM***

***Whitney Room***

***Session Chair: Catherine Besteman***

- 1:00 pm**     **Jessica Moore** ('07), Anthropology  
The Little White Lie That Could Save the World
- 1:15 pm**     **Greyson Brooks** ('06), Anthropology  
Sociocultural Degeneration and State Patronage of the Arts: Mapplethorpe,  
Cultural Crisis, and the NEA
- 1:30 pm**     **Chelsea Downs** ('06), Anthropology  
Brand Management And The Wal-Mart Model
- 1:50 pm**     **Jamie Manzer** ('06), Anthropology  
Unveiling Democracy: The Rhetorical and Ritualistic Disguises of Representation
- 2:05 pm**     **Lauren Simmons** ('06), Anthropology  
A Leader's Place in Revolution: How One Individual Embodies the Many Voices  
of Dissent
- 2:20 pm**     **Jia-Ling Loo** ('06), Anthropology  
The Culture of Open Source: Countering Hegemony in a Digital Economy

***SESSION III:***

***General Session***

***2:15-5:15 PM***

***Smith Room***

***Session Chair: Clem Guthro***

- 2:15 pm**     **Kara McCabe** ('06), English  
A Journey Through Memory and Self in the Works of Edwidge Danticat and Julia Alvarez
- 2:30 pm**     **Gregory Lusk** ('06), Philosophy  
Virtue Epistemology: Rethinking the Presuppositions of Knowledge
- 3:45 pm**     **George A. Williams** ('06), Science, Technology, and Society  
Viewing the Human Body as Technology
- 4:15 pm**     **Jessica Varnum** ('06), Government  
Catalyzing Change: Towards Accelerated and Expanded U.S.-EU-Russian Action to Reduce the Threat of Nuclear Terrorism
- 4:45 pm**     **Julie Jaenicke** ('06), Mathematics  
Piero della Francesca: Geometry in Painting
- 5:00 pm**     **Jane Leary** ('06), Mathematics  
Hypatia: the Original Woman Mathematician

*Thursday, May 4*

**SESSION IV: ANTHROPOLOGY**

*Gender Studies*

*11:00-12:15*

*Whitney Room*

*Session Chair: Mary Beth Mills*

- 11:00 am**     **Laura Snider** ('06), Anthropology  
Travesti Rights are Human Rights
- 11:15 am**     **Stephanie Atwood** ('06), Anthropology  
To Be a Good Italian Woman
- 11:30 am**     **Jamie Manzer** ('06), Anthropology  
Denaturalizing Sex Binaries: Professional Women Officials Transgressing Gender Boundaries
- 11:45 am**     **Jane Lee** ('06), Anthropology  
Status and Gender in Korea

**SESSION V: RELIGIOUS STUDIES**

*Religion and World War II*

*11:00 - 12:15*

*Lovejoy 344*

*Session Chair: Debra Campbell*

**Robert Rosenbaum** ('07)

The Third Reich Church

**Ryan Ahearn** ('07)

The Khalsa in World War II

**Jen McAleer** ('07)

Resistance in the Nazi Government and Army

**SESSION VI: BIOLOGY**

***Cell Cycle and Cancer***

**1:00 PM**

***Olin 234***

***Session Chair: Paul Greenwood***

**Erin Schlossman** ('07)

Ewing's Sarcoma and Possible Gene Therapies Involving EWS/FLI-1 and CD99

**Alexander White** ('07)

The Genetics of Prostate Cancer

**Carolyn Litty** ('06)

Mantle Cell Lymphoma: Incidence, Biological Features, and Treatments

**Peter Steinour** ('07)

*Glioblastoma multiforme*: Hope for Pacification

**Nichol Penna** ('06)

Synovial Cell Sarcoma: Diagnosis, Therapy, and Case Study

**SESSION VII:**

***General Session***

**1:00-3:30 PM**

***Smith Room***

***Session Chair: Mark Serdjenian***

**1:00 pm**

**Sara Booth** ('06)

Human Trafficking, Immigration, and Prostitution in Italy

**1:45 pm**

**Adil D'Sousa** ('06)

The Family Novel in the Emerging Nation-State: A Comparative Study of Ba Jin's *Jia* and Lev Tolstoy's *Anna Karenina*

**2:15 pm**

**Hye Kim** ('08)

Was Handel a Plagiarist?

**2:30 pm**

**Jonathan Bastian** ('06)

Logical Liberation: Perspectives from the East and West

**3:00 pm**

**Kathryn Lidington** ('06)

Variation in Beach Profiles and Sediment Characteristics at Popham Beach, Phippsburg, ME

**3:15 pm**

**Elizabeth Mollo-Christensen** ('06)

Potential Effects of Deep-Ocean Carbon Dioxide Sequestration on Foraminifera

**SESSION VIII: EAST ASIAN STUDIES**

***Research in Japanese Fiction***

**1:00-3:00 PM**

***Hurd Room***

***Session Chair: Tamae Prindle***

- 1:00 pm**     **Morgan Manoff** ('08), East-Asian Studies  
The Confessional Hero of the 'Temple of the Golden Pavilion'
- 1:20 pm**     **Liza Mitchell** ('08), East-Asian Studies  
Secrecy, Sexuality and the Covert Feminine Power in 'Masks'
- 1:40 pm**     **James Luckenbill** ('08), East-Asian Studies  
Botchan's Transformation in Accordance with Justice
- 1:45 pm**     **Katherine MacBain** ('06), East-Asian Studies  
Reality and Liminal Space in Murakami Haruki's 'Dance Dance Dance'
- 2:00 pm**     **John Kester** ('08), East-Asian Studies  
Silence in Silence: The Titular Significance of Shusako Endo's Novel
- 2:15 pm**     **Alexander Connors** ('08), East-Asian Studies  
Narrative Structure in Kenzaburo Oë's A Personal Matter: Hierarchy of  
Chatman's Kernels and Satellites, Suspense and Surprise

**SESSION IX:**  
**General Session**  
2:00-4:00 PM

**Whitney Room**  
**Session Chair: Toni Katz**

- 2:15 pm**     **Erin Rhoda** ('06)  
Let Us Now Praise Famous Women
- 2:45 pm**     **Erica Dorpalen** ('06)  
Carry Emptiness: The Ecology and Zen Buddhism of Gary Snyder's Poetry
- 3:00 pm**     **Christabel Kwabi** ('06)  
An Evaluation of the Ghanaian Education System
- 3:15 pm**     **Emily Brostek** ('06)  
"The Kind of Person I Am:" Reassessing the Aims of Community Service and Its  
Impact on College Students Through Identity Development

**SESSION X: ECONOMICS**  
**Advanced Topics in Environmental Economics**  
2:30 - 3:45 PM

**Miller 319**  
**Session Chair: Thomas Tietenberg**

- Charles Reed** ('06)  
Insurance and the Management of Environmental Risk: The Case of Climate  
Change
- Emilia Tjernström** ('06)  
Co-management of Natural Resources: Evaluating the Concepts and Empirical  
Evidence from Protected Areas

**SESSION XI: AMERICAN STUDIES**  
**Honors Projects in American Studies**  
3:15-5:45 PM

**Hurd Room**  
**Session Chair: Margaret McFadden**

- 3:00 pm**     **Kara Fagan** ('06)  
From Ball of Fire to Cattle Queen: Gender and Class in The Films of Barbara Stanwyck
- 3:15 pm**     **Emily Judem** ('06)  
Off the Tracks
- 3:45 pm**     **Katherine Hamm** ('06)  
Why Do Men Hate Ani DiFranco? The Connection Between Women Rock Musicians and the Image of Feminism
- 4:00 pm**     **Christina Terrell** ('06)  
The Racialization of Female Body Image Perception in the United States
- 4:15 pm**     **Jairus Steed** ('06)  
Blue-eyed Soul in the 21st Century: African-American Influence on Popular American Music

**SESSION XII: ECONOMICS**  
**Research in Economics**  
4:00-5:30

**Smith Room**  
**Session Chair: Philip Brown**

- 4:00 pm**     **Alexandra Funk** ('06), Economics  
The Adequacy of Health Care Services for the Elderly in China
- 4:20 pm**     **Michael Poplaski** ('07), Economics  
Econometrically Modelling Alumni Giving to Colby and Other NESCAC Schools
- 4:40 pm**     **Brian Tierney** ('06), Economics  
Religion and Happiness among China's Oldest-Old
- 5:00 pm**     **Jonathan Wong** ('06), Economics  
Analyzing the Determinants of Obesity in Maine

**SESSION XIII: HISTORY**  
**New Studies in American and European History: Senior Honors Theses**  
4:00-6:00 PM

**Whitney Room**  
**Session Chair: Paul Josephson**

- 4:00 pm**     **Jonathan Ashcroft** ('06), History  
British and French Intelligence on the "German Question" and the Growth of Pacifist Movements

- 4:20 pm**     **Timothy Stenovec** ('06), History  
The Taking of Mayflower Hill: the Vietnam Antiwar Movement at Colby College
- 4:40 pm**     **Julia Malkin** ('06), History  
From Private Protest to Public Philosophy: The Democratic Society of Pennsylvania and the Election of 1800
- 5:00 pm**     **Courtney Kubilis** ('06), History  
Space Age Learning: Education Reform in the USSR and USA in the Age of Sputnik
- 5:20 pm**     **Katie Fuller** ('06), History  
Spinners and Losers: Lewiston's Irish and French-Canadian Immigrants 1850-1930

*Friday, May 5*

**SESSION XIV: SCIENCE, TECHNOLOGY, AND SOCIETY**  
**Science, Technology and Society Studies**  
9:30-11:30 AM

**Smith Room**  
**Session Chair: Paul Josephson**

- 10:00 am**     **Aaron Bradford** ('07)  
Video Games and Social Anxiety: A Historical Approach to the Fear of Youth
- 10:15 am**     **Madeline Horwitz** ('06)  
Man-Made Menopause
- 10:45 am**     **Jakob Moe** ('06)  
From Hatcheries to Aquaculture: A Technical Solution to a Tragedy in the United States?
- 11:15 am**     **Ethan Payne** ('06)  
Big Ideas, Big Technology and the Founding of Las Vegas 1905-1935

**SESSION XV: AMERICAN STUDIES**  
**Honors Projects in American Studies**  
10:00-12:00 PM

**Hurd Room**  
**Session Chair: Margaret McFadden**

- 10:00 am**     **Tyler Hales** ('06)  
Is Baseball Still America's National Pastime, or has Football Become the All-American Sport?
- 10:30 am**     **Noah Balazs** ('06)  
iDentity: Constructing Identity in a Mass Mediated and Postmodern Society
- 11:00 am**     **Anna Erdheim** ('06)  
Exploring Opportunity in America: Immigrant Entrepreneurship and Rags to

Riches Success

- 11:30 am**      **Chelsea Downs** ('06)  
The Economics of Hip Hop Culture -- More Than Music

**SESSION XVI: ENVIRONMENTAL STUDIES**  
**Conservation Biology Presentations**  
11:00 - 11:50 AM

**Olin 234**  
**Session Chair: Russ Cole**

**Sharon McMonagle** ('06), **Jenna Morrison** ('06) and **Alaina Clark** ('08),  
Conservation Biology Presentations  
Effects of Climate change on Coral Reef Ecosystems

**SESSION XVII: EAST ASIAN STUDIES**  
**Research in Asia**  
12:30-3:00 PM

**Smith Room**  
**Session Chair: Peter Ditmanson**

- 12:45 pm**      **Lijah Barasz** ('06), East-Asian Studies  
The Effect of American Film on Chinese Youth Culture
- 1:00 pm**      **Michael Deheeger** ('07) and **O. Orantes** ('07), Government  
'Long-Neck': Purgatory on the Thai-Burma Border
- 1:30 pm**      **O. Orantes** ('07), History  
Glimpses of Hope, Laughter, and Sadness: Stories from Burmese Women  
Refugees in Thailand
- 2:00 pm**      **Lauren Brown** ('06), History  
Sars in Taiwan: Effects on Public Health and Treatment of Infectious Disease
- 2:30 pm**      **B. Tjernstrom** ('06), Economics  
Nomad's Land - Parks Protection in Mongolia: Structural and Human Obstacles

**SESSION XVIII: ENVIRONMENTAL STUDIES**  
**Environmental Studies Honors Research**  
1:00-4:00 PM

**Hurd Room**  
**Session Chair: Philip Nyhus**

- 1:00 pm**      **B. Tjernstrom** ('06)  
Be the Change You Wish to See: National Attitudes and Climate Change Policy
- 2:00 pm**      **Alexandra Jospe** ('06)  
Modeling Spatially Explicit Human-wildlife Conflict: GIS and Moose-vehicle  
Collisions in Maine
- 2:30 pm**      **Hilary Langer** ('06)  
The Cost of Conservation: Payments for Environmental Services on The Osa  
Peninsula, Costa Rica



- 3:00 pm**      **Sarah Kelly** ('06)  
Energy Use Patterns and Potential Areas for Energy Conservation in Dorm Rooms at Colby College
- 3:30 pm**      **Jenna Morrison** ('06)  
Environmental Awareness of Waterville Junior High Students

**SESSION XIX:**  
**General Session**  
1:00-3:30 PM

**Whitney Room**  
**Session Chair: Yulia Chentsova**

- 1:00 pm**      **Gabrielle Adams** ('06)  
Time, Remorse, Compensation, and Reparations
- 1:30 pm**      **Katharine Gilroy** ('06)  
MP and 6Cl-tryptophan Administered to Attenuate Secondary Pathology in Guinea Pig Spinal Cord Injury
- 2:00 pm**      **Kathryn Rooney** ('06)  
Specificity and Affective Valence of Autobiographical Memories in Depression
- 2:30 pm**      **Steen Sehnert** ('06)  
Omission and Commission in the Inaction Inertia Paradigm
- 3:00 pm**      **Laura Snider** ('06)  
Mobilized Mothers and Women Warriors: Women's Political Participation in Sri Lanka and Chile

**SESSION XX: BIOLOGY**  
**Honors Research in Biology**  
1:00-4:00 PM

**Olin Room 1**  
**Session Chair: Frank Fekete**

- 1:00 pm**      **David Civitello** ('06)  
Genetic Breeding System of Gray Fox, *Urocyon cinereoargenteus*, in a Protected Population
- 1:30 pm**      **Patrick Lizotte** ('06)  
Genetic Variation Between Populations of the Rare Orchid *Isotria Medeoloides* and Implications for Conservation
- 1:45 pm**      **Matthew Meredith** ('06)  
Concomitant Antibiotic and Mercury Resistance among Gastrointestinal Microflora of Feral Brook Trout, *Salvelinus fontinalis*
- 2:15 pm**      **Erin Parry** ('06)  
Mercury Resistance in a Multi-Drug Resistant Strain of the Fish Pathogen, *Aeromonas salmonicida*

**2:45 pm**      **Matthew Aschaffenburg ('06)**  
The Impact of Trait-Mediated Effects on Predator-Prey Interactions in the Rocky Intertidal Community

**3:15 pm**      **Sarah Hoskinson ('06)**  
A Comparison of Forest Type Resilience to Structural and Compositional Changes Following Beech Bark Disease Infestation

**SESSION XXI: GEOLOGY**  
**Geoseminar**  
**1:00 PM**

**Mudd 218**  
**Session Chair: Robert Gastaldo**

**B. Cantor ('08), C. Thompson ('08), D. Pace ('06), S. Reid ('08) and B. Aigler ('08)**  
The Plastic Response of the Genus *Quercus* to Atmospheric pCO<sub>2</sub> Concentration

**SESSION XXII: CHEMISTRY**  
**Senior Chemistry Presentations**  
**3:00 - 4:00 PM**

**Keyes 105**  
**Session Chair: Mark Juhasz**

**Bram Geller ('06)**  
The Synthesis Of New Oxacalixarenes and Bicyclooxacalixarenes from 1,8-Naphthyridine Precursors.

**Adelajda Zorba ('06)**  
Synthesis of 2-Oxo-16-(3', 4'-methylenedioxyphenyl)-trans-15-hexadecene, an Inhibitor of *M. tuberculosis*.

**Zach Goldman ('06)**  
The Synthesis of RCLMs

**SESSION XXIII: ECONOMICS**  
**Honors Projects in Economics**  
**3:30-6:00 PM**

**Smith Room**  
**Session Chair: Philip Brown**

**3:30 pm**      **Jessica Minty ('06)**  
Media Coverage and Disaster Relief

**4:15 pm**      **Caroline Theoharides ('06)**  
The Role of Home Equity in Retirement Saving: Building Your Nest (Egg)

**SESSION XXIV: HISTORY**  
**History 435**  
**4:00-5:30 PM**

**Hurd Room**  
**Session Chair: Elizabeth Leonard**

- 4:15 pm**      **Anne Kearney** ('08), History  
Waging the War of Opinions: Northern and Southern Newspaper Coverage of Antietam
- 4:30 pm**      **Nicole Lavery** ('07), History  
Maryland and Kentucky: How Abraham Lincoln Kept Each Loyal to the Union
- 4:45 pm**      **Nathaniel Stone** ('06), History  
Ben Butler and the Woman Order: Hard War Diplomacy or Inhumane Treatment of the Citizens of New Orleans?
- 5:00 pm**      **Benjamin Herbst** ('08), History  
Pre-Civil War Acts of Violence and their influence on the Civil War

***SESSION XXV: ART***

***Art***

***3:45-5:30 PM***

***Whitney Room***

***Session Chair: Ankeney Weitz***

- 3:45 pm**      **James Thompson** ('06), Art  
Residential Environmental Design: 'A House for an Ecologist' Design Competition Entry
- 4:15 pm**      **Caroline O'Connor** ('06), Art  
Use of Devotional Art in the Public and Private Setting in Renaissance Italy
- 4:35 pm**      **Tucker Burr** ('06), Art  
Writing Styles of Modern Graffiti
- 4:55 pm**      **Steven Weinberg** ('06), Art  
The Newspaper Redesign Project
- 5:15 pm**      **Courtney Page** ('06), Art  
Exploration of Composition in Mixed Media: Fabric, Steel, and Magnets

***SESSION XXVI: GEOLOGY***

***Geology Honors Presentations***

***5:00 PM***

***SSW Alumni Center***

***Session Chair: Robert Gastaldo***

**Katherine Curtis** ('06)

A dynamic 3-D Model of the Seasonal Surface and Sub-surface Flow in the Belgrade Lakes Watershed, South-Central Maine

**Christopher Russoniello** ('06)

Quantification of Seasonal Groundwater Flux through the Southern Portion of the Serpentine Bog in South-Central Maine