2004

Schedule of Presentations

Colby College

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Colby Undergraduate Research Symposium, 2004
April 28-30, Colby College, Waterville, Maine
April 28, 7:30 pm Olin 1

Research Presentations

Thursday, April 29

SESSION I: SOCIOLOGY
Sociology
10:00 - 12:00 Noon

10:00 am Greg Dupuy ('04)
The Politics of Danger: Constructing Identity, Interests and Security in International Relations

10:30 am Michael Hildebrandt ('04)
Morphing Master Status and the Tormented Mind, Body, and Soul: Reconstructing Identity as an Ex-Athlete

11:00 am Brittney Lazar ('04)
'Big Team, Little Me:' A Social Psychological Study Of Social Identity Placement for Collegiate Athletic Team Members

11:30 am Ariel Martin-Cone ('04)
Restricted Environments: Reformatting Special and Specialized Education to Effectively Teach Children with Learning Disabilities.

SESSION II: AMERICAN STUDIES
American Studies Honors Presentations
10:00 - 12:00 Noon

10:00 am Kelly McGowan ('04)

10:15 am Johanna L. W. Schroeder ('04)
'Who Are They?': Gender, Class, and Politics in Contemporary Country Music

10:45 am Kristan D. Jiggetts ('04)
Crazy, Beautiful, Clueless and at the Crossroads: Representation of Reality in Contemporary Teenage Film

11:00 am Alicia M. Burrows ('04)
The Construction of Killers: Morality and Representation in Vietnam War Films
### SESSION III: General Session

**Smith Room, Roberts Union**  
**Session Chair: Professor Jeffrey Anderson**  
**1:00 - 3:00 PM**

<table>
<thead>
<tr>
<th>Time</th>
<th>Name</th>
<th>Major</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>1:00 pm</td>
<td>Meredith Needle ('04)</td>
<td>Anthropology</td>
<td>Anti-Semitism: The Past and Present of the Jewish Community of Buenos Aires, Argentina</td>
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<tr>
<td>1:30 pm</td>
<td>Bonnie L. Dowling ('04)</td>
<td>International Studies</td>
<td>Managing the Responsibility: The Private Sector's Role in Combating HIV/AIDS in Lesotho</td>
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<tr>
<td>1:45 pm</td>
<td>Morgan S. Pratt ('04)</td>
<td>Anthropology</td>
<td>Seeing Double: The Duality of Body Image in Female College Athletics</td>
</tr>
<tr>
<td>2:00 pm</td>
<td>Nathan J. Sigworth ('06)</td>
<td>Physics and Astronomy</td>
<td>Religiously Motivated Community Development in Uttar Pradesh</td>
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</tbody>
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### SESSION IV: HISTORY

**Hurd Room**  
**Session Chair: Professor Paul Josephson**  
**1:00 - 3:00 PM**

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<tr>
<th>Time</th>
<th>Name</th>
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<tbody>
<tr>
<td>1:00 pm</td>
<td>Karen Prager ('04)</td>
<td>History</td>
<td>Defense and Defiance: The Russian Old Believers of the 1660s</td>
</tr>
<tr>
<td>1:15 pm</td>
<td>Karsten Solberg ('04)</td>
<td>History</td>
<td>The Course of the Empire: The Hudson River School and the Landscape of Progress</td>
</tr>
<tr>
<td>1:30 pm</td>
<td>Holli Grover ('04)</td>
<td>History</td>
<td>Local Reactions to the Cape Cod Canal</td>
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<tr>
<td>1:45 pm</td>
<td>Margaux Leonard ('04)</td>
<td>History</td>
<td>The Eugenics Movement in America: The Case in Massachusetts, 1920-1940.</td>
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### SESSION V: General Session

**Whitney Room**  
**Session Chair: Marilyn Pukkila**  
**1:00 - 3:00 PM**

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>1:00 pm</td>
<td>Allison B. Kolkhorst ('04)</td>
<td>Psychology</td>
<td>Moral Treatment at the Maine Insane Asylum</td>
</tr>
<tr>
<td>1:30 pm</td>
<td>Emily R. Brostek ('06)</td>
<td>Education and Human Development</td>
<td>Dr. Seuss and Adolf: the Good Doctor's Take on Fascism</td>
</tr>
<tr>
<td>1:45 pm</td>
<td>Alan Stimpson ('04)</td>
<td>English</td>
<td>Exploration of Implied Line and Motion</td>
</tr>
<tr>
<td>2:00 pm</td>
<td>Sarah Kaminshine ('04)</td>
<td>Mathematics</td>
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</tbody>
</table>
The Musical Mondo

2:15 pm  **Ben Sanoff** ('04), International Studies
Integration of Non Native Students Through Educational Systems Considered From The Varied Perspectives of Puerto Rico, Spain, and The United States

2:30 pm  **Laura Mistretta** ('04), Government

2:45 pm  **Adelin Cai** ('05), International Studies
Manufacturing Visibility

**SESSION VII: HISTORY**

**Historical Epidemiology**  
*Lovejoy 307*
*Session Chair: Professor James Webb*
*1:00-3:30 PM*

1:00 pm  **Ashley A. Porter** ('04), History
The Marketing of Depression: The Ladies' Home Journal in the 1950s

1:30 pm  **Laura L. Snow** ('04), History
Cholera and the Crisis of Public Health in Peru

2:00 pm  **Mary P. Karottki** ('04), Environmental Studies
Something in the Daily Bread: The Phenomenon of the Witch in Southern Germany, ca. 1600

2:30 pm  **Sarah G. Wolfrum** ('04), History
The Implications of Culture on the HIV/AIDS Epidemic in Thailand

3:00 pm  **Peter L. Burch** ('04), History
The Political Dimension of Hoof-and-Mouth Disease in the United Kingdom, 2001

**SESSION VIII: INTERNATIONAL STUDIES**

*Smith Room*
*Session Chair: Professor Jennifer Yoder*
*3:00 - 6:00 PM*

3:00 pm  **Emma J. James** ('04), International Studies
Victim's Justice? The Desirability of Establishing a Khmer Rouge Tribunal in Cambodia

3:30 pm  **Elizabeth L. Holmes** ('04), International Studies
Building Morocco through Literacy - Women's Participation in Development

4:00 pm  **Melissa Rosales** ('04), Latin American Studies
Education and Participation as Vehicles to Empowerment: The Impact of Non governmental Organizations on Street Children in Latin America

4:30 pm  **Kristin Saucier** ('04), International Studies
Evaluations and Project Effectiveness
5:00 pm  **Spencer Fenniman** ('04), International Studies  
Participatory Publics? The Limitations of Democracy in Rural Bolivia

5:30 pm  **Caitlin Cassis** ('04), International Studies  
Silencing the Singing Stone: The Impact of Modern Technology on Indigenous People in Brazil

**SESSION IX: EAST ASIAN STUDIES**  
**Hurd Room**  
*Freeman Scholars*

**Session Chair: Professor Peter Ditmanson**

3:00 - 5:00 PM

3:00 pm  **Lynn Cole** ('04), East-Asian Studies  
Religious Tolerance in Vietnam

3:15 pm  **Lindsay Grossman** ('04), Religious Studies  
Contemporary Orange Robes: Buddhism and the Monastic Community in Modern Laos

3:30 pm  **Adam Saltsman** ('04), Anthropology  
Looking at Sites of Cultural Production: the Tourist Industry in Vietnam

3:45 pm  **Caroline Swindells** ('04), East-Asian Studies  
The Tet Nguyen Dan Festival in Vietnam

4:00 pm  **Anna Royer** ('04), East-Asian Studies  
Fuji Eco Park Village: An Organic Farm in Japan Seeking Self-Sustainability

4:15 pm  **Tu-Quyen Nguyen** ('06), Religious Studies  
Japanese Christianity

4:30 pm  **Ryan G. Holben** ('07), Mathematics  
Researching How Mathematics is Taught in Japan

4:45 pm  **Michael Howard** ('06) and **Jia Chen** ('06), Biology  
Karate and Kendo: Martial Arts and Experiences from Japan

**SESSION X: ENVIRONMENTAL STUDIES**  
**Whitney Room**  
*Environmental Studies*

**Session Chair: Professor Tom Tietenberg**

3:00 - 5:00 PM

3:15 pm  **Kellie K. Phelan** ('04), Environmental Studies  
Estimating the Impact of State Policy Incentives on Wind Power Development.

3:45 pm  **Brandon Smithwood** ('06), Environmental Studies  
Colby's Role in Global Climate Change

4:00 pm  **Brian Kittler** ('04), Environmental Studies  
An Evaluation of Energy Conservation Competitions to Reduce Consumption and Change Habits on a College Campus
SESSION XI: COMPUTER SCIENCE
Computer Science Honors Presentations
Mudd 405
Session Chair: Professor Clare Congdon
4:00 PM

Kevin J. Septor ('04)
Creating a Video Device Application

Rachel T. Noiseux ('04)
Designing and Implementing a User-Focused Web-Based Database System

SESSION XII: ENGLISH
English Honors
Whitney Room
Session Chair: Professor Laurie Osborne
5:00 - 6:00 PM

5:00 pm Elizabeth W. Lund ('04)
Mary Sidney, Countess of Pembroke

5:15 pm Emma McCandless ('04)
The Aesthetics of Adaptation: Plain Jane Goes to the Movies

5:45 pm Rebecca Avrutin ('04)
Reinforcement of Patriarchal Society Through Film: An Examination of the Mother-Daughter Relationship in Literature and Film

Friday, April 30

SESSION XIII: ECONOMICS
Economics Honors
Smith Room
Session Chair: Professor Patrice Franko
1:00 - 4:00 PM

1:45 pm Katherine Brown ('04), Economics
Passenger Car Sales in the Peoples Republic of China: What Are the Macroeconomic Factors Affecting Automobile Demand in China?

2:15 pm Andre Garron ('04), Economics
A Theoretical Mathematical Model of Fishery Economics

3:00 pm Andriy Avramenko ('04), Economics
Wealth Effects on Consumer Spending in the US Economy

SESSION XIV: ART
Research from Senior Scholars and Independent Majors in Art
Hurd Room
Session Chair: Professor Véronique Plesch
### 1:00 - 3:00 PM

1:00 pm  **Rachel Tobie ('04), Art**  
Word & Image in the Contemporary Artist's Book

1:30 pm  **Josh McConnell ('04), Art**  
Rethinking Israhel van Meckenem's Engraved Oeuvre

2:00 pm  **Kathryn Hulick ('04), Art**  
Thought Made Visible

### SESSION XV: BIOLOGY  
**Whitney Room**  
**Session Chair: Professor Herb Wilson**  
1:00 - 6:00 PM

1:00 pm  **Rebecca Evans ('04), Biology**  
Development of Microsatellite Markers For Evaluation of Plant Mating Systems

1:15 pm  **Naomi Appel ('04), Biology**  
The Effects of Melatonin on the Metabolism of Fiddler Crabs

1:45 pm  **Gregory A. Cary ('04), Biology**  
Determining the Effects of Melatonin on in vitro Neural Regeneration from *Uca pugilator* X-Organ Neurons

2:15 pm  **Meredith Crane ('04), Biology**  
Development of a Radioligand Binding Assay for the Identification of [3H] Melatonin Binding in the Crayfish, *Procambarus clarkii*

2:45 pm  **Aubris L. Pfeiffer ('04), Biology**  
Neurogenesis in Fiddler Crabs: is Neuronal Proliferation Regulated by Tidal Rhythms?

3:15 pm  **Miranda R. Bertram ('04), Biology**  
Environmental and Hormonal Influences on Activity Patterns in Free-Ranging Gray Squirrels (*Sciurus carolinensis*)

3:45 pm  **Jonathan Romak ('04), Biology**  
The Effect of pH on an Antitumor Drug as Determined by Isothermal Titration Calorimetry

4:15 pm  **Molly Hyde ('04), Biology**  

4:45 pm  **Nicholas O. Markham ('04), Biology**  
Isolation and Characterization of Mercury and Antibiotic Resistant Bacteria from the Gastrointestinal Tracts of Hatchery Grown Brook Trout, *Salvelinus fontinalis*

5:15 pm  **John Cole ('05), Chemistry**
Elemental Analysis of Crickets and Cricket Diets as Suitable Food for Captive Animals

SESSION XVI:  
General Session  
Smith Room  
Session Chair: Mr. Clement Guthro  
4:00 - 6:00 PM

4:00 pm  Vanessa L. Verri ('04), Anthropology  
How Natural History Museums Fell From Grace and Why They Shouldn't Have or, Defending Museums During The Age of Hypersensitivity

4:30 pm  Adam Saltsman ('04), Anthropology  
Alternative Sites of Misrepresentation: Going from Borderland to Homeland in a Transnational Setting

5:00 pm  Michael B. Greenberg ('04), Anthropology  
Power, Positionality, and Conceptions of Stewardship and Ownership in the Cleanup of Nomans Land Island, Massachusetts.

5:30 pm  Josiah J. Taylor ('05), Anthropology  
Steam Rising: Innu Environmental Struggle In Nitassinan (Labrador), Canada

SESSION XVII:  
General Session  
Hurd Room  
Session Chair: Dean Mark Serdjenian  
3:00 - 5:00 PM

3:15 pm  Chris W. Surprenant ('05), Government  
Kant’s Argument for the Immortality of the Soul

3:30 pm  Cassandra Cote ('04), Religious Studies  
Return to the Womb

SESSION XVIII: CHEMISTRY  
Chemistry Senior Research  
Keyes 105  
Session Chair: Professor Whitney King  
3:00 - 5:00 PM

3:15 pm  Jessica H. Hayward ('04), Chemistry  
Synthesis of a Tetradentate Sulfur Ligand and New Biomimetic Nickel Complexes of That Ligand

3:45 pm  Justin E. Juskewitch ('04), Chemistry  
Mapping of Diepoxybutane Damage in the Cytochrome b Domain of Mitochondrial and the b-globin Domain of Genomic Chicken DNA Using Quantitative PCR

4:15 pm  Jeffrey H. Goldberg ('04), Chemistry  
A Laser Flash Photolysis Study of Dihalocarbenes in Room Temperature Ionic
Liquids