2007

Schedule of Presentations

Colby College

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# Colby Undergraduate Research Symposium
*May 2-4, Colby College, Waterville, Maine*

## Research Presentations
*Wednesday, May 2nd*

**SESSION II:**

### General Session

#### Smith Room

**Session Chair:** David Firmage

2:00-5:00

<table>
<thead>
<tr>
<th>Time</th>
<th>Presenter(s)</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:00 pm</td>
<td>Canaan Morse ('07)</td>
<td>'The Stewardess': Chinese Author Wang Shuo in Translation</td>
</tr>
<tr>
<td>2:30 pm</td>
<td>Christopher Zajchowski ('07)</td>
<td>The Dialectics of Diaspora Space: Themes of Belonging and Identity in 'Diasporic' Indian Literature</td>
</tr>
<tr>
<td>3:00 pm</td>
<td>Suzanne Merkelson ('09), Sameera Anwar ('10), Joel Biron ('07), Ratul Bhattacharyya ('09) and Christopher Zajchowski ('07)</td>
<td>The Contact Zone: Teaching and Learning in Rural India</td>
</tr>
<tr>
<td>3:15 pm</td>
<td>Isaac Opper ('10)</td>
<td>The Conflict between Montana and Wyoming over Coal Bed Methane Production in the Powder River Basin</td>
</tr>
<tr>
<td>3:30 pm</td>
<td>Mariah Hudnut ('07)</td>
<td>Meaningful Participation: the benefits of climate change policy to Brazil and prospects for the developing world</td>
</tr>
<tr>
<td>4:00 pm</td>
<td>Brian Fulmer ('07)</td>
<td>Political Biology: Peter Kropotkin and the Darwinian Revolution</td>
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<tr>
<td>4:15 pm</td>
<td>Jennifer Mizen ('08)</td>
<td>Elephant-Bat Interactions: Commensalism at Work?</td>
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<tr>
<td>4:45 pm</td>
<td>Christine Avena ('08), Sam Graulty (U. of Vermont, '08)</td>
<td>A Comparison of Avian Diversity in Pine Plantations and Cloud Forests of the Mazar Reserve, Southern Ecuador</td>
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</table>

**Thursday, May 3rd**

### Senior Scholars

#### Hurd Room

**Session Chair:** Howard Lupovitch

10:00-12:00 AM

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>10:00 am</td>
<td>Thomas Reznick ('07), Science, Technology, and Society</td>
<td>From the Fair to the Laboratory: Agricultural Science and Education in Aroostook, Maine.</td>
</tr>
<tr>
<td>10:30 am</td>
<td>Catherine Downing ('07), English</td>
<td>Interlocking Oppressions of Sisterhood: (Re) Presenting the Black Woman in Nineteenth Century Blackface Minstrelsy</td>
</tr>
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</table>

**SESSION IV: ENVIRONMENTAL STUDIES**

#### Hurd Room

**Session Chair:** Tom Tietenberg

12:00-2:30 PM
<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>1:00</td>
<td><strong>Kaitlin Himmelmann</strong> ('07), Environmental Studies</td>
</tr>
<tr>
<td></td>
<td>Endocrine Disrupting Chemicals and Colby's Purchasing Practices</td>
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<tr>
<td>1:30</td>
<td><strong>Renzo Mendoza Castro</strong> ('07), Environmental Studies</td>
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<tr>
<td></td>
<td>Negotiating the Next Climate Treaty</td>
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<td><strong>SESSION V:</strong> General Session</td>
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<td></td>
<td>Smith Room</td>
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<tr>
<td>1:00-3:00</td>
<td><strong>Session Chair: Julie Millard</strong></td>
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<tr>
<td>1:30</td>
<td><strong>Yu-Hwei Chou</strong> ('07) and <strong>Ian Cross</strong> ('07), Physics and Astronomy</td>
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<tr>
<td></td>
<td>High Magnetic Field Spectroscopy of Vibrational and Electronic Transitions in NTNB and Other Integer Spin Compounds.</td>
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<tr>
<td>2:00</td>
<td><strong>Roy Wilson</strong> ('07), Physics and Astronomy</td>
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<td>Temperature Control in Ultra Cold Plasmas</td>
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<tr>
<td>2:30</td>
<td><strong>Julian Jacobson</strong> ('10), Mathematics</td>
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<tr>
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<td>The Physics of Perception in Tilt-Translation Models</td>
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<td><strong>SESSION VI: BIOLOGY</strong></td>
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<td><strong>Session Chair: Judy Stone</strong></td>
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<td>1:00</td>
<td><strong>Sarah Clark</strong> ('08)</td>
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<td></td>
<td>Genetic markers reveal excess homozygosity in two closely-related orchid species</td>
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<td>1:00</td>
<td><strong>Dan Dewey-Mattia</strong> ('08)</td>
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<tr>
<td></td>
<td>Genetic variation in Isotria medeoloides as assessed by Simple Sequence Repeats</td>
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<tr>
<td>1:00</td>
<td><strong>Heather Nickerson</strong> ('09)</td>
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<td></td>
<td>Lack of genetic variation in Isotria verticillata as assessed by Amplified Fragment Length Polymorphism markers</td>
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<td>1:00</td>
<td><strong>Kristine Robin</strong> ('08)</td>
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<td>A comparison of geographic and genetic distances among populations of the rare orchid, Isotria medeoloides</td>
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<td><strong>Talia Savic</strong> ('09)</td>
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<td>1:00-2:00</td>
<td><strong>Session Chair: Ariel Armony</strong></td>
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<td>1:00</td>
<td><strong>Class members,</strong> Government</td>
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<td><strong>Sarah Faasse</strong> ('07)</td>
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<td></td>
<td>Pediatric soft tissue sarcomas: causes, clinical manifestations, and treatments</td>
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<td>1:00</td>
<td><strong>Beth Hirschhorn</strong> ('07)</td>
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<td>Skin cancer</td>
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<td>1:00</td>
<td><strong>Julie Hike</strong> ('07)</td>
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<td>The diagnosis, prognosis, treatment, and challenges of pancreatic cancer</td>
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<td><strong>Katie Lillehei</strong> ('07)</td>
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Molecular markers in the classification of gliomas and their implications for treatment
Andrew Herstein ('07)
Chronic myelogenous leukemia: a success story in targeted cancer therapies
Kate Dziedzic ('07)
Downs syndrome and leukemia
David Amadu ('07)
B-lymphocytes gone wild: cell biology, clinical manifestations and treatment of Hodgkin’s disease

SESSION IX: HISTORY
WGSS Senior Seminar Presentations
Hurd Room
Session Chair: Lisa Arellano
2:00-4:00 PM

2:00 pm Allison Cole ('07), Women, Gender, Sexuality
Chick Lit: Contemporary Popular Fiction & Consumerism

2:15 pm Rebecca Flint ('07), Women, Gender, Sexuality
The Body as a Medium: Iris Marion Young and Caroline Knap on Women's Body Experience in the United States Today

2:30 pm Phoebe Larkin ('08), Women, Gender, Sexuality
Experiencing Trauma: A Personal Account and Analytical Study of How People Experience and Manage the Effects of Trauma

2:45 pm Adriana Nordin Manan ('07), Women, Gender, Sexuality
Purchase and Set Her Free: Fair Trade as a Vehicle for Women's Empowerment

3:00 pm Katherine Price ('07), Women, Gender, Sexuality
Why is Feminism a Bad Word?

3:15 pm Amanda Vickerson ('07), Women, Gender, Sexuality
Marriage as Represented Through the Lens of Reality Television

3:45 pm Carolyn Curtis ('08), Women, Gender, Sexuality
Non-Participatory Poverty

SESSION X: General Session
Whitney Room
Session Chair: Jim Terhune
2:30-6:00 PM

2:30 pm Adriana Nordin Manan ('07), Anthropology
Citizenship and Boundary Setting in Multiethnic States: The Case of Refugees in Malaysia and Ecuador

3:00 pm Valerie Friedman ('07), Anthropology
Photojournalistic Manipulations of Reality: A Globalized Foucauldian Analysis

3:30 pm Christopher Appel ('08), Government
ETA and Basque Nationalism: Prospects for Peace

4:00 pm James Cryan ('07), Government
Sustainable Development in Practice: The Handicraft Sector of Carapeguá Paraguay.

4:15 pm Daniela Andreevska ('09), International Studies
The Role of Agriculture in Carapegua, Paraguay as a Factor for Achieving the Millennium Development Goals

4:30 pm Leora Feldstein ('08), International Studies
The Struggle of Urban Refugees in Yaoundé

4:45 pm Nancy Mc Dermott ('08), International Studies
Theory versus Reality of Agricultural Development: A Study of GICs and Aid Organizations in Nguendéré, Cameroon

5:15 pm Adam Robbins ('07), Anthropology
World Bank -- CPA Conflict: The Struggle to Define Human Rights and Development in the Philippines

SESSION XI: INTERNATIONAL STUDIES
Smith Room
SESSION XII: HISTORY
Session Chair: Raffael Scheck
History Honors I

3:00-4:00 PM

3:00 pm Ivica Petrikova ('07), International Studies
TOO MANY BAD COOKS SPOILING THE BROTH? Analysis of the Effectiveness of NGO Work in Solving the Problem of Child Labor (field research conducted in El Salvador)

3:30 pm Katelyn Trionfetti ('07), International Studies
The Criminalization of Sexual Violence and Wartime Rape Under International Humanitarian Law

SESSION XIII: CHEMISTRY
Session Chair: Kevin Rice
Chemistry Senior Research

11:00-12:30 pm

Emily McClure ('07)
Senior Research Project

Trevor Hanly ('07)
Senior Research Project

Ta-Chung Ong ('07)
Photochemical Production of Superoxide

SESSION XIV: ECONOMICS
Session Chair: Debra Barbeza
Economics Honors

1:00-3:30 PM

1:00 pm Aimee Williams ('07)
An Analysis of the Effectiveness and Impacts of Child Cap Provisions in Welfare Reform

1:30 pm Michael Aquino ('07)
Can the Business Cycle Be Used to Create Predictable Mutual Fund Outperformance?

2:00 pm Carolyn Adler ('07)
The Determinants of Recovery Rates on Defaulted Corporate Securities: An Investigation of Credit Ratings

2:30 pm Magda Tsaneva ('07)
Voices of the Poor: Poverty and Growth in Albania

3:00 pm Horacio Diaz Adda ('07)
The Divergent Effect of Social Cohesion on Economic Growth in East Asia and Latin America

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<td>Mate Choice in the Zebra Finch Taeniopygia guttata</td>
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Hormonal Influence on Butterfly Territoriality and Aggressive Behavior

3:00 pm  Lee Kozakiewicz ('07)  
Confirmation of Horizontal Gene Transfer of Mercury and Antibiotic Resistance Determinants in Hatchery Lake Trout Gastrointestinal Tract Microflora

3:30 pm  Jessica Kaplan ('07)  
Circadian Patterns in the Innate Immune System of Zebrafish

4:00 pm  Anne Cuttler ('07)  
The Neuroprotective Effects of Melatonin on Neuronal Growth in Crustaceans

4:30 pm  Gregory Engel ('07)  
Characterization of Cells Cultured from Fiddler Crab X-Organs

SESSION XVIII: EDUCATION  Diamond 122
Student Research in Education  Session Chair: Mark Tappan
2:00-3:00 PM

2:00 pm  Rebecca Anderson ('07), Education and Human Development  
From Policy to Practice: A Look at the Implementation of the No Child Left Behind Act in Maine

2:15 pm  Anne Wachtel ('07), Education and Human Development  
'A Little Child Shall Lead Them': Education and Cultural Identity Destruction in the Great 'Civilizing' of Indian Country

2:30 pm  Ryan Weaver ('07) and Kate Nevius ('07), Education and Human Development  
The Hill & the 'Ville

3:00 pm  G. Albaugh ('07), Education and Human Development  
Through the eyes of youth: A documentary

SESSION XIX: ENGLISH  Hurd Room
Studies in English  Session Chair: Pat Onion
3:00-5:00 PM

3:30 pm  Patrick Benton ('07)  
The Agent of Change: Trickster in Ojibwa Oral Narratives and in the Works of Louise Erdrich

4:00 pm  Peter Carty ('07)  
The Apocolyptic Landscape in Cormac McCarthy's Works

4:15 pm  Matthew Crane ('07)  
Literary Ambiguity: Shakespeare and the Resonance of Language

4:30 pm  Elizabeth Finn ('07)  
The Apple and the Tree: Shakespeare's Use of Father-Child Relationships in Character Construction

SESSION XX: CHEMISTRY  Keyes 105
Chemistry Senior Research  Session Chair: Kevin Rice
3:00-4:30 pm

Alexandra Fulreader ('07)  
Senior Research Project

Colby Souders ('07)  
Isolation and Characterization of Frog Peptides

Eric Bergh ('07)  
The Synthesis of Biomimetic Tungsten Complexes
SESSION XXI: RUSSIAN/GERMAN
Russian Student Symposium (Talks are in Russian) Room: Lovejoy 215
Session Chair: Julie de Sherbinin

3:15-5:00 PM
3:15 pm  Nicole Crocker ('09)
The Bird and Its Flight: A Struggle for Freedom in Bulgakov's Master and Margarita
3:30 pm  Holly Duello ('07)
The Nighttime is the Right Time: Images of Power and Influence in Bulgakov's Master and Margarita
3:45 pm  Elise Washer ('07)
'An Upside Down World: The Opposition between Light and Dark in Bulgakov's Master and Margarita'
4:00 pm  Jessica Zia ('07)
'Off with His Head!': Inexplicable Faith in Bulgakov's Master and Margarita
4:15 pm  Cassandra Newell ('08)
The Corruption of Morals in Bulgakov's 'Master and Margarita'
4:30 pm  Benjamin Poulos ('08)
'Good and Evil, The Devil and Stalin in Bulgakov's Master and Margarita'
4:45 pm  Magda Tsaneva ('07)
The Image of the Devil in Bulgakov's 'Master and Margarita'

SESSION XXII: HISTORY
History Honors Room: Smith Room
Session Chair: Raffael Scheck
4:00-6:00 PM
4:00 pm  Alison McArdle ('07)
Personal Politics: The Intersection of Federalism and Marriage
4:15 pm  Andrew Herrmann ('07)
Devious Politics, Demon Rum: Neal Dow and the Battle for the First Maine Prohibition Law
4:45 pm  Christopher Hoffman ('07)
Horace Mann and Common Schools: Moral Enlightenment and Economic Opportunity
5:15 pm  Merle Eisenberg ('07)
Demographic and Religious Changes in 6th and 7th Century Romano-Byzantine Edessa

Friday, May 4th

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Chemistry Senior Research Room: Arey 5
Session Chair: Kevin Rice
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African Studies
Session Chair: Laura Chakravart
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2:30 pm  Tara Bergin ('07)
Hormonal Influence on Butterfly Territoriality and Aggressive Behavior

3:00 pm  Lee Kozakiewicz ('07)
Confirmation of Horizontal Gene Transfer of Mercury and Antibiotic Resistance Determinants in Hatchery Lake Trout Gastrointestinal Tract Microflora

3:30 pm  Jessica Kaplan ('07)
Circadian Patterns in the Innate Immune System of Zebras

4:00 pm  Anne Cuttler ('07)
The Neuroprotective Effects of Melatonin on Neuronal Growth in Crustaceans

4:30 pm  Gregory Engel ('07)
Characterization of Cells Cultured from Fiddler Crab X-Organs

SESSION XVIII: EDUCATION
Diamond 122
Student Research in Education
Session Chair: Mark Tappan
2:00-3:00 PM

2:00 pm  Rebecca Anderson ('07), Education and Human Development
From Policy to Practice: A Look at the Implementation of the No Child Left Behind Act in Maine

2:15 pm  Anne Wachtel ('07), Education and Human Development
'A Little Child Shall Lead Them': Education and Cultural Identity Destruction in the Great 'Civilizing' of Indian Country

2:30 pm  Ryan Weaver ('07) and Kate Nevius ('07), Education and Human Development
The Hill & the 'Ville

3:00 pm  G. Albaugh ('07), Education and Human Development
Through the eyes of youth: A documentary

SESSION XIX: ENGLISH
Hurd Room
Studies in English
Session Chair: Pat Onion
3:00-5:00 PM

3:30 pm  Patrick Benton ('07)
The Agent of Change: Trickster in Ojibwa Oral Narratives and in the Works of Louise Erdrich

4:00 pm  Peter Carty ('07)
The Apocalyptic Landscape in Cormac McCarthy's Works

4:15 pm  Matthew Crane ('07)
Literary Ambiguity: Shakespeare and the Resonance of Language

4:30 pm  Elizabeth Finn ('07)
The Apple and the Tree: Shakespeare's Use of Father-Child Relationships in Character Construction

SESSION XX: CHEMISTRY
Chemistry Senior Research
3:00-4:30 pm

Alexandra Fulreader ('07)
Senior Research Project

Colby Souders ('07)
Isolation and Characterization of Frog Peptides

Eric Bergh ('07)
The Synthesis of Biomimetic Tungsten Complexes

Martin Ma ('07)
Senior Research Project

Bernadette Bibber ('07)
Senior Research Project

SESSION XXI: RUSSIAN/GERMAN
Russian Student Symposium (Talks are in Russian)
3:15-5:00 PM

Nicole Crocker ('09)
The Bird and Its Flight: A Struggle for Freedom in Bulgakov's Master and Margarita

Holly Duello ('07)
The Nighttime is the Right Time: Images of Power and Influence in Bulgakov's Master and Margarita

Elise Washer ('07)
'An Upside Down World: The Opposition between Light and Dark in Bulgakov's Master and Margarita'

Jessica Zia ('07)
'Off with His Head!': Inexplicable Faith in Bulgakov's Master and Margarita

Cassandra Newell ('08)
The Corruption of Morals in Bulgakov's 'Master and Margarita'

Benjamin Poulos ('08)
'Good and Evil, The Devil and Stalin in Bulgakov's Master and Margarita'

Magda Tsaneva ('07)
The Image of the Devil in Bulgakov's 'Master and Margarita'

SESSION XXII: HISTORY
History Honors II
4:00-6:00 PM

Alison Mc Ardle ('07)
Personal Politics: The Intersection of Federalism and Marriage

Andrew Herrmann ('07)
Devious Politics, Demon Rum: Neal Dow and the Battle for the First Maine Prohibition Law

Christopher Hoffman ('07)
Horace Mann and Common Schools: Moral Enlightenment and Economic Opportunity

Merle Eisenberg ('07)
Demographic and Religious Changes in 6th and 7th Century Romano-Byzantine Edessa