

Colby



Colby College
Digital Commons @ Colby

Undergraduate Research Symposium (UGRS)

Student Research

2008

Schedule of Presentations

Colby College

Follow this and additional works at: <https://digitalcommons.colby.edu/ugrs>

Recommended Citation

Colby College, "Schedule of Presentations" (2008). *Undergraduate Research Symposium (UGRS)*. 60.
<https://digitalcommons.colby.edu/ugrs/60>

This Abstract is brought to you for free and open access by the Student Research at Digital Commons @ Colby. It has been accepted for inclusion in Undergraduate Research Symposium (UGRS) by an authorized administrator of Digital Commons @ Colby.

Colby Undergraduate Research Symposium

April 30 - May 2, 2008

Colby College, Waterville, Maine

Research Presentations

Wednesday, April 30th

SESSION I: BIOLOGY

Behavior and Physiological Ecology Presentations

Olin 335

Session Chair: Cathy Bevier

11:00 AM

Jessica Harold ('08)

Assessment of the dose-effect response of atrazine on behavior, oxygen consumption, and gonadal malformations in *Xenopus laevis*

SESSION II: SCIENCE, TECHNOLOGY, AND SOCIETY

Science, Technology, and Society Studies

Diamond 242

Session Chair: James Fleming

1:00-3:00 PM

1:00 pm **Noah Bonnheim ('11) and Caitlin Dufraine ('09)**, Science, Technology, and Society
Feasibility Study: Solar Water Heating at Colby's Harold Alfond Athletic Center

1:20 pm **Katherine Klepinski ('08)**, Science, Technology, and Society
Kennebec Valley Co-op: All Local, All Affordable

1:35 pm **Stephen Erario ('10)**, Science, Technology, and Society
Moving Toward a Sustainable Waterville

1:50 pm **Megan Browning ('10) and Alice Evans ('10)**, Science, Technology, and Society
Climate Change Education and Action in Local High Schools

2:10 pm **Brooke Wanlass ('11) and James Pinkston ('08)**, Science, Technology, and Society
The State's Benefits from the Maine Solar Rebate Program

2:45 pm **Benjamin Many ('09)**, Science, Technology, and Society
Visualizing Energy Use: 10,000 Whatts?

SESSION III: ENVIRONMENTAL STUDIES

Environmental Studies Presentations

Smith Room

Session Chair: Russell Cole

1:30-5:00 PM

1:30 pm **Bethany Darling ('08)**
Smart Growth and Quality of Place: Options and Opportunities in Planning for Rural Maine

2:00 pm **Lauren Bizzari ('09)**
Nitrate Removal in Nitrex(TM) Permeable Reactive Barriers: Investigating Denitrification Using a ¹⁵NO₃ Tracer

2:15 pm BREAK

Environmental Studies Honors Presentations Follow

2:30 pm **Alaina Clark** ('08)

Designing a Green Graduation at Colby College

3:00 pm **Courtney Larson** ('08)

Separating People and Wildlife: Zoning as a Conservation Strategy for Large Carnivores

3:30 pm **Jamie O'Connell** ('08)

Carbon Neutrality at Colby College

4:00 pm **Kerry Whittaker** ('08)

Using Variable Stomatal Sensitivity to CO₂ in Conifers to Reconstruct Ancient Atmospheres and Predict Future Implications of Climate Change

4:30 pm **Charles Carroll** ('08)

An Analysis of Carbon Sequestration Potential in Maine

**SESSION IV:
General Session**

**Hurd Room
Session Chair: Suzi Cole**

1:45-3:30 PM

1:45 pm **Yin Li** ('08), East-Asian Studies

The Relationship Between Unreality and Strength in 'Kafka on the Shore'

2:00 pm **Annelene Fisher** ('08), African Studies

Coloured Identity and Experience in South African Theatre (Goldfarb Center Student Research)

2:30 pm **Daniel Franklin** ('10), German/Russian

Revenge, Relocation, Integration, and Recovery: The Expulsion of Germans from Eastern Europe and their Role in West Germany's Post-WWII Reconstruction

2:45 pm **Andrei Roman** ('08), Economics

Living Arrangements and Subjective Well-being of Older Adults: A Comparison Between China and Japan

3:15 pm **Ivan Balbuzanov** ('09), Economics

Thou Shalt Not Kill... Thyself: The Effect of Religious Participation on Suicide

SESSION V: LATIN AMERICAN STUDIES

**Whitney Room
Session Chair: Ben Fallaw**

Latin American Studies

4:00-5:30 PM

4:00 pm **Stephanie Bowman** ('08), Latin American Studies

In the Absence of Family: How Private Honduran Childrens Homes Meet the Needs of At-Risk Youth

4:30 pm **Abigail Hall** ('08), Latin American Studies

The Penguins' Revolution: An Analysis of Student Response to the Multi-Dimensional Chilean Educational Crisis.

SESSION VI: ART

**Hurd Room
Session Chair: Veronique Plesch**

Art

4:00-5:30 PM

- 4:00 pm** **Justine Ludwig** ('08)
From the Kunstkammer to the Art Museum
- 4:20 pm** **Laure-Helene Caseau** ('10)
Jean-Honoré Fragonard: A Sentimental Affair
- 4:40 pm** **Virginia Robbins** ('09)
Written on the Face: The Grotesque Physiognomy in Northern Renaissance Art
- 5:00 pm** **Grant Netzorg** ('08)
If it's the Devil's Music, Satan Must Be Awfully Proud

SESSION VII: GERMAN

Sex, Madness, and Transgression in German Literature

***Hurd Room
Session Chair: Arne Koch***

5:15-6:30 PM

- 5:15 pm** **Michael Hempel** ('11), German/Russian
'Der Reigen als kritisches Bild der Wiener Gesellschaft' (Der Reigen as a Critical Image of Viennese Society)
- 5:45 pm** **Gretchen Markiewicz** ('08), German/Russian
Eine zu große Rolle: Zufall in 'Das Versprechen: ein Requiem auf den Kriminalroman' und Dürrenmatts Warnung, ihn in der Wirklichkeit anzuerkennen (Too Great a Role: Chance in Dürrenmatt's 'Das Versprechen')
- 6:15 pm** **Melanie Ungar** ('08), German/Russian
Die Frauen in Schnitzlers 'Reigen': Widerstehen gegen stereotype Geschlechtsrollen und gesellschaftliche Heuchelei (The Women in Schnitzler's 'Reigen': Resisting Stereotypical Gender Roles and Societal Hypocrisy)

Thursday, May 1st

SESSION VIII: ANTHROPOLOGY

Asia Pacific Modernities Presentations

Session Chair: Mary Beth Mills

11:00 PM

- Diana Sternberg** ('09)
The Sex Trade in Thailand and its Effect on Gender Roles
- Katie-Elyse Turner** ('09)
Narratives of China: Bodies and the 2008 Beijing Olympics
- Silas Gill** ('09)
Localization in Chinese Rock Music
- Ethel Chou** ('10)
Taiwan's Foreign Brides

SESSION IX: RELIGIOUS STUDIES

Death and Spirituality Presentations

***Lovejoy 319
Session Chair: Debra Campbell***

11:00 AM

Fran Still ('10)

Families, the State, and the Church of Christ, Scientist: Balancing Religious Autonomy and Child Welfare

Becky Feldman ('08)

The Complicated Relationship between Music, Religion, and Suicide

SESSION X: AMERICAN STUDIES

Hurd Room

American Studies Honors Presentations

Session Chair: Margaret McFadden

11:00-12:45 PM

11:00 am Julie Bero ('08)

Coalitions for Victory: The Necessity of Alliance Creation for Progressive Ballot Initiative Campaigns

11:30 am William Fong ('08)

Kung Fu Fighting and Masculinity

12:00 pm Carolyn Lovejoy ('08)

Portrayal of Masculinity in American Society as seen Through The Pickup Artist

12:15 pm Lindsay Tolle ('08)

Seeing Through Color-Blindness: Negotiations of Multiracial Relationships on 'Six Feet Under,' 'The L Word,' and 'Ugly Betty'

SESSION XI:

Smith Room

General Session

Session Chair: Clem Guthro

1:00-3:30 PM

1:45 pm Meaghan Jerrett ('08), Religious Studies

Western Converts to Eastern Religious Traditions: Authenticity or Escapism

2:00 pm William Kinder ('08), Geology

Societal Implications and Management of Coastal Erosion in Chatham, Massachusetts

2:15 pm Escar Kusuma ('09), Kirsten Duda ('09) and Jennifer Myers ('09), Biology

Cellular Mechanisms of Melatonin-Induced and Calmodulin-Inhibited Neurite Growth in *Uca pugilator* X-Organ Cells.

2:30 pm T. U ('08), East Asian Studies

Advocating at the Margins: Women's NGOs in China

2:45 pm Nahita Nishmin ('08), East-Asian Studies

The West's Impact on the East: Perceptions of Women through Times

3:00 pm Melyn Heckelman ('08), Anthropology

The Language of Sex: Moral Socialization and Reproductive Education in Public Schools

**SESSION XII: WOMEN, GENDER, AND
SEXUALITY STUDIES**

Whitney Room

Women, Gender, and Sexuality Studies

Session Chair: Lisa Arellano

1:00-3:00 PM

1:00 pm Lindsay Tolle ('08), Women, Gender, Sexuality

'I'm a Carrie' becomes 'I'm a Cutter': Selling Girls Self-Harming Behavior in Young

- Adult 'Issue Lit'
- 1:30 pm** **Patrick Sanders** ('08), Women, Gender, Sexuality
Failing Women and the Failures Who Dress Them: How Gay Male Hosts of Lifestyle Makeover Shows Fail to address the True Failure, Heteronormativity
- 2:00 pm** **Laura Webb** ('08), Women, Gender, Sexuality
Creating PIP: Conveying the Feminist Movement to the Next Generation

SESSION XIII: BIOLOGY

Olin 234

The Cell Cycle and Cancer Symposium

Session Chair: Paul Greenwood

1:00 PM

Dylan Perry ('09)

Familial adenomatous polyposis (FAP) and Lynch syndrome: two forms of hereditary colorectal cancer

Jessica Egan ('08)

Improving treatment of ALL in adults and infants

Megan Watts ('08)

Surviving pediatric acute myeloid leukemia: Emily's story of relapse and remission

Jennifer Zuar ('08)

Proteasome inhibitors: a treatment for multiple myeloma and applications to other cancers

Richard Katz ('08)

Viruses, parasites, and cancer: a critical interplay between Epstein-Barr virus, malaria, and Burkitt lymphoma with implications on public health

Cadran Cowansage ('08)

Ewing's sarcoma: an overview of symptoms, treatment, and current research

SESSION XIV: RELIGIOUS STUDIES

Lovejoy 344

Women in American Religion Presentations

Session Chair: Debra Campbell

2:30 PM

Nicole Raheja ('10)

The Struggles and Triumphs of Muslim Women In America

Amanda Burgess ('10)

The Habit: Official Vatican Position, Impact of Vatican II, Modern Roadblocks to Wearing It

SESSION XV: ECONOMICS

Diamond 341

Advanced Topics in Environmental Economics

Session Chair: Tom Tietenberg

2:30 PM

Brett McNeice ('08)

Electricity Deregulation: Theory and Evidence

Bobby Gorman ('08)

The Economics of Green Architecture

SESSION XVI: FRENCH

Hurd Room

The Other French Empire, Then and Now

Session Chair: Adrianna Paliyenko

2:30-5:00 PM

- 2:30 pm** **Kristin Weigle** ('08), French/Italian
Catholic Missionary Efforts in the Antilles and French Guyana Under Colonial Rule:
History, Motivation, and Methods
- 3:00 pm** **Nathalie-Claire Chiavaroli** ('08), French/Italian
The Black Napoleon: Post-Colonial Figures of Toussaint Louverture
- 3:30 pm** **Alexandra Kenyon** ('08), French/Italian
War on the Seas: Franco-British Scramble for Mauritius Island
- 4:00 pm** **Amber Collins** ('08), French/Italian
Rhetoric and Reality: Changing Principles and Ambivalent Implementation of Colonial
Policy in French Indochina
- 4:30 pm** **Sarah Goldstein** ('08), French/Italian
The Role of Gender in French Colonial Indochina

*SESSION XVII: ENVIRONMENTAL
STUDIES*

Diamond 223

Session Chair: Peter Sly

Dammed Maine Biographies

2:30 PM

- Hannah Lafleur** ('11)
Edwards Dam
- Anders Nordblom** ('10)
Passamaquoddy/ St Croix
- Amanda Lindsay** ('11)
Veazie Dam and Penobscot River Restoration Project
- Sarah Stevens** ('09)
Harris Station
- Megan Saunders** ('09)
Churchill Dam

SESSION XVIII:

Whitney Room

General Session

Session Chair: Jim Terhune

3:45-6:00 PM

- 3:45 pm** **Emily Parker** ('08), English
Moral Philosophy in Twentieth-Century Legal Dramas
- 4:00 pm** **Hillary Smith** ('08), English
Representations of Grief in Akhmatova's Requiem and Pushkin's The Bronze Horseman
- 4:30 pm** **Julie Casper** ('08), Religious Studies
A Comprehensive Examination of New Immigrants: The Reverse Diaspora of
Argentinean Jews to Israel
- 5:00 pm** **Kristen Kouttab** ('08), International Studies
Urban Islamists: Reshaping Moroccan Politics in the 21st Century
- 5:20 pm** **Evan Phelps** ('08), International Studies

The Informal Economy in Urban Dakar: What Role Can Formalization Play?

SESSION XIX: HISTORY

History Honors

4:00-5:00 PM

Smith Room

Session Chair: Raffael Scheck

4:00 pm Caroline Brooks ('08)

A Movement in Moments: Exploring Women's Rights and The Iranian 1979 Revolution

4:15 pm Laura Perille ('08)

Fashioning an Ideal: Constructions of Honor Leading Up to the English Civil War

4:30 pm Jason Hayes ('08)

Western Missionary Perspectives of the Taiping Rebellion (1850-1864)

4:45 pm Timothy Regele ('08)

A Difficult Beginning: American Educational Reform in Post-World War II Germany

Friday, May 2nd

SESSION XX: BIOLOGY

Behavior and Physiological Ecology Presentations

11:00 AM

Olin 335

Session Chair: Cathy Bevier

Lauren Bizzari ('09)

The effects of melatonin on thermoregulation in the nocturnal gecko, *Hemidactylus turcicus*

SESSION XXI: CHEMISTRY

Senior Chemistry Presentations

11:00 AM

Arey 5

**Session Chair: Rebecca Conry and Das
Thamattoor**

Katie Harris ('08)

Hydrogen Peroxide Production in Deep, Suboxic Lake Waters

Doug Rooke ('08)

The Synthesis Of Oxacalixarenes Using Nucleophilic Aromatic Substitution Catalyzed By Cesium Fluoride

Tyler Schleicher ('08)

The Inhibition of Thioredoxin Reductase by the Anticancer Drug Cloretazine

SESSION XXII: ECONOMICS

Economics Honors Presentations

12:30-3:00 PM

Smith Room

Session Chair: David Findlay

12:30 pm Andrei Roman ('08)

Developing Reliable Estimates of Poverty and Inequality for Chile's Ethnic Groups

1:00 pm Joerose Tharakan ('08)

Demographic Differences in Household Expenditure for Low Income Families:
Evidence from the United States

1:30 pm **Ishan Singh** ('08)

Stock Markets and Household Wealth: Can a Stock Market Crash Cause a Recession
in The US Economy?

2:00 pm **Yauheniya Sidarchuk** ('08)

How Widely Watched Stock Market Indexes Predict Future Economic Activity: Two
Centuries of Evidence Since 1800 Until Present

2:30 pm **Kyle Smith** ('08)

An Incumbent's Guide to Reelection: Economic Voting by State in U.S. Presidential
Elections

SESSION XXIII: BIOLOGY

Olin 1

Biology Honors Presentations

Session Chair: Frank Fekete

1:00-4:15 PM

1:00 pm **Leslie Wardwell** ('08)

Pervasiveness of Heavy Metal and Antibiotic Resistance Due to Co-selection in
Sphagnum Core Samples Dating Back 2000 Years

1:15 pm **Sarah Clark** ('08)

The Identification of a Chloramphenicol Inducible Multidrug Efflux Pump in
Flavobacterium johnsoniae-like Isolates

1:30 pm **Victoria Work** ('08)

The Antibiotic Chloramphenicol Induces Bacterial Slime and Biofilm Formation in
Pseudomonas putida

1:45 pm **Megan Watts** ('08)

Cytotoxicity of Diepoxybutane and Epichlorohydrin in Relation to Stages of the Cell
Cycle

2:00 pm **MaryClaire McGovern** ('08)

The Effects of Alcohol and Training on Exercise Recovery Metabolism and Sprint
Performance in the Brown Anole (*Anolis sagrei*)

2:15 pm Fifteen Minute Break

2:30 pm **Timothy Miller** ('08)

The Pollination Biology of a Peripheral Population of *Witheringia solanacea*
(Solanaceae)

2:45 pm **Emily Lyczkowski** ('08)

Microhabitat Selection by the Tortoiseshell Limpet, *Tectura testudinalis*, in Tide Pools
on the Mid-Maine Coast.

3:15 pm **Joshua Lord** ('08)

Movement Patterns and Feeding Behavior in the Limpet *Tectura testudinalis* Along
the Mid-Maine Coast

3:45 pm **Jennifer Mizen** ('08)

Spring Arrival Dates of Maine Migratory Breeding Birds: 1896-1911 vs. 1994-2006

SESSION XXIV: EAST ASIAN STUDIES

Hurd Room

***Between Tradition and Modernity: Reconfiguration
of Public Spaces in Urban China***

Session Chair: Hong Zhang

1:00-2:30 PM

- 1:00 pm** **Jessie Tang ('08), Thomas Huff ('08), Robert Ferriter ('08), Hye Kim ('08) and Keane Ng ('08)**, East-Asian Studies
Between Tradition and Modernity: Reconfiguration of Public Spaces in Urban China

SESSION XXV: PSYCHOLOGY

Whitney Room

Research in Psychology

Session Chair: Thane Pittman

1:30-3:15 PM

- 1:30 pm** **Walter Campbell ('08)**
Movement Coordination in Joint Action
- 1:45 pm** **Stacey Dubois ('08)**
Stereotype Threat Affects False Memory Susceptibility in Older Adults
- 2:00 pm** **Cheryl Hahn ('08)**
The Effects of Reproductive Experience and Maternal Behaviors on Mother Rats' Cognitive Abilities and Anxiety Responses
- 2:15 pm** **Linsey Walker ('08)**
The Effects of Contextual Backgrounds of Natural and Artificial Images on ERPs
- 2:45 pm** **Madeline Ragan ('08)**
Group Decision Making in the Dictator Game: The Effect of Gender and Offer Method
- 3:00 pm** **Raven Adams ('08)**
The Effects of Prenatal Choline Availability on Behavioral and Neural Reactions to Social Isolation Rearing in the Rat

***SESSION XXVI: EDUCATION AND HUMAN
DEVELOPMENT***

Diamond 122

***Research and Practice in Education and Human
Development***

Session Chair: Mark Tappen

2:00-4:00 PM

- 2:00 pm** **Justin Dunn ('08)**, Education and Human Development
Prospects for Reauthorization of the No Child Left Behind Act
- 2:20 pm** **Terri Bello ('10)**, Education and Human Development
Learning Differences and Higher Education
- 2:40 pm** **Jake Obstfeld ('09)**, Education and Human Development
Teach for Who? Teach for America's Effects on Inner City Schools
- 3:00 pm** **Heidi Donahue ('08) and Sophia Newbury ('08)**, Education and Human Development
Panel on Student Teaching and Portfolio Presentation

SESSION XXVII: HISTORY

Smith Room

History Honors

Session Chair: Raffael Scheck

3:00-5:00 PM

- 3:00 pm** **Evan Kaplan** ('08)
 Revolutionary Hijackers in Russia and Iran: How Lenin and Khomeini Seized Control of their Respective Revolutions
- 3:20 pm** **Brian Sweeney** ('08)
 'A System of Silence': Philadelphia Orphanages and the Limits of Benevolence, 1780s-1830s
- 3:45 pm** **Adam Boss** ('08)
 A City at War: Daily life and society in Orléans during the 1428-1429 English Siege
- 4:10 pm** **Hannah Coleman** ('08)
 Jeane Kirkpatrick, the Committee of Santa Fe, and the Origins of the Reagan Administration's Complicity in the Nicaraguan Counterrevolution
- 4:30 pm** **Lucia Giordano** ('08)
 Lessons on Labor and Loss: Organization, Education, and the Women's Trade Union League of America, 1900-1930

SESSION XXVIII: CHEMISTRY
Senior Chemistry Presentations

Keyes 105
***Session Chair: Rebecca Conry and Das
 Thamattoor***

3:00 PM

- Danny Herrick** ('08)
 New Frontiers in Reactions of Atomic Carbon
- Jenn Bushee** ('08)
 The Effects of Cloretazine, an Anticancer Agent, on Human Apurinic/Pyrimidic Endonuclease-1
- Matt Stein** ('08)
 Determination of the Cytotoxic Mechanism of Epihalohydrins and Diepoxybutane
- Leanne Powers** ('08)
 Reactivity of Superoxide in Natural Waters
- Michael Finnerty** ('08)
 Molecular Dynamics Conformational Study of p-Sulfonatocalix[6]arene with Various Guest Molecules

SESSION XXIX: INTERNATIONAL STUDIES
International Studies Presentations

Hurd Room
Session Chair: Jennifer Yoder

3:00-5:30 PM

- 3:00 pm** **Christina Feng** ('08)
 Microfinance through a Governance Lens
- 3:30 pm** **Nicole Terrillion** ('08)
 Cultivating Urban Ecological Citizenship: NGOs and Environmental Perception in Quito, Ecuador
- 5:00 pm** **Gautam Nair** ('08)
 The Crisis of Liberalism in Egypt: Workers and the Wafd Party (Goldfarb Center Student Research)

SESSION XXX: GOVERNMENT

Government Studies

Whitney Room
Session Chair: Joe Reisert

3:30-5:00 PM

3:30 pm **Randi Arsenault ('09)**

Predicting Presidential Performance: What Must a Voter Know?

3:45 pm **Jacqueline Grady ('08)**

Decisions to Abrogate Personal Liberty: The Ethics of Conscription in the United States

4:00 pm **Andrei Roman ('08)**

Banco Palmas: Towards a Concept of "Solidarity Economics" - Research Report on a Goldfarb Student Research Grant

4:30 pm **Andrei Roman ('08)**

Bom Conselho? - A Case Study of Community Involvement Mechanisms in the FUMAC Design of the World Bank Rural Poverty Alleviation Project (RPAP) in Pernambuco, Northeastern Brazil

SESSION XXXI: SOCIOLOGY

Sociology Honors Presentations

Diamond 122
Session Chair: Terry Arendell

4:00-5:00 PM

4:00 pm **Sara Benjamin ('08)**

A Macro-Sociological Perspective on the No Child Left Behind Act of 2001: Why Reauthorization is Not the Issue

4:30 pm **Carolyn Curtis ('08)**

Self-Destructive Behaviors of Adolescent Boys and Girls