Schedule of Presentations

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**Colby Undergraduate Research Symposium 2005**
April 27-29, Colby College, Waterville, Maine

**Research Presentations**

*Thursday, April 28*

**SESSION I:**

**General Session**

Smith Room  
Session Chair: Clem Guthro  
1:00-3:00 PM

1:15 pm  **Andrew Orr** ('05), English  
Knowing the Void, Hearing the Sound, and Ordering the Fury: Faulkner's Agency, Through Art, from The Sound and the Fury to Absalom, Absalom!

1:30 pm  **Christopher Rodney Yeoh** ('05), Religious Studies  
The Religious System of the Australian Aboriginals: A Study of the Arranda People of Central Australia

2:00 pm  **Rebecca Nisetich** ('05), English  
Maternal and Cultural Influences on Individual Identity in the Novels of Toni Morrison and William Faulkner

**SESSION II: HISTORY**

**History Honors Presentations**  
Hurd Room  
Session Chair: Jason Opal  
1:00-3:00 PM

1:00 pm  **Adam Harvey** ('05)  
The Maine Supreme Judicial Court and the Battle Over National Identity During the Civil War

1:30 pm  **Aaron Poplack** ('05)  
Road Rage: The Turnpike Debate In Dedham, Massachusetts, 1801-1803

**SESSION III:**

**General Session**  
Whitney Room  
Session Chair: Paul Greenwood  
1:00-3:00 PM

1:15 pm  **Timothy Newhouse** ('05), Chemistry  
Rod-and-Panel Macrocycles

1:30 pm  **Gabriel Reves** ('05), Latin-American Studies  
The Continuous Struggle for Representation in the Venezuelan State
2:00 pm  **Sean Baron ('05), Psychology**  
An Event Related Potential Study of the Role of Attention and Gender in the Illusory Flash Effect

2:15 pm  **Mao Zheng ('06), Mathematics**  
Neural Networks for Mathematical Operations

2:30 pm  **Asma Husain ('05), Art**  
Exploring Memories and Imagination

**SESSION IV: GOVERNMENT**  
*Democratization in Latin America*  
*Lovejoy 344*  
*Session Chair: Ariel Armony*

1:00 PM

**Graham Hennessey ('05)**  
The Effects of Neoliberal Policy on Economic Inequality in Brazil

**Mike Miller ('05)**  
Plurinationalism and Democracy? Bilingual Education and Symbolism at Play in Bolivia

**SESSION V: INTERNATIONAL STUDIES**  
*International Studies*  
*Smith Room*  
*Session Chair: Patrice Franko*

3:00-5:00 PM

3:00 pm  **Justin Dubois ('05), International Studies**  

3:30 pm  **Erica Hill ('05), International Studies**  
The Liberalization of Village Banking in Guatemala

4:00 pm  **Emily Honig ('05), International Studies**  
Governmental Resistance in International Intellectual Property Rights

**SESSION VI: EAST ASIAN STUDIES**  
*Freeman Scholars*  
*Hurd Room*  
*Session Chair: Walter Hatch & Philip Brown*

3:00-6:00 PM

3:00 pm  **Timothy Saw Sunshine ('05), Government**  
Transitional Justice and Prospect of Reconciliation in Burma

3:15 pm  **Jayadev Vadakkanmarveettil ('06), Government**  
Ethnic Cleansing in Burma: How Long, How Many More...
4:00 pm  Jingjing Zhou ('07), History
Recovering My Past--for Those Who Should Be Remembered

4:15 pm  Catherine Fillebrown ('05), East Asian Studies
Two Contemporary Representations of Honglou Meng

5:00 pm  Matthew M. Meredith ('06), East-Asian Studies
Biochemical Research in Japan

5:30 pm  Sarah Eilefson ('05), English
Vietnam: Beyond Tim O’Brien’s Literature

SESSION VII: COMPUTER SCIENCE
Mudd 405
Honors Presentations  Session Chair: Dale Skrien
4:00 PM

Chris Ries ('05)
Automated Identification of Malicious Code Variants

Russ Spitler ('05)
Eclipse Java Security Scanner - JSS

SESSION VIII: GOVERNMENT
Whitney Room
Government Honors Presentations  Session Chair: Sandy Maisel
4:00-5:00 PM

4:00 pm  Marc J. Kassin ('05)
Do Presidential Debates Influence Voter Perceptions? National Election Studies
Comparisons of Viewers and Nonviewers, 1996 and 2000

4:30 pm  Michael Rutherford ('05)
Investigation of Public Discourse and the Federal Budget

SESSION IX: GOLDFARB CENTER
Smith Room
Corporate Responsibility  Session Chair: Patrice Franko
5:00-6:00 PM

5:00 pm  Caitlin McCusker ('05), Alan Ashbaugh ('05), Melissa Landau ('05), Shannon Emerson ('05) and Jonah Waxman ('05), Economics
Corporate Social Responsibility in Latin America

SESSION X: BIOLOGY
Olin 234
The Cell Cycle and Cancer  Session Chair: Paul Greenwood
7:00 PM
Brian Rodriguez ('06)
Adult and Childhood Leukemia: A Developmental and Fundamental Comparison of AML and ALL

Megan Daley ('05)
Cervical Cancer

Amy Campfield ('05)
Neonatal Neuroblastomas: Causes, Detection, and Treatment of Cancer in Newborns

Noah Hoffman ('05)
Prostate Cancer: The TGF-b Pathway and Treatment

Lily Maltz ('05)
Pancreatic Cancer: The Silent Killer

Christina Pluta ('05)
Breast Cancer: Men Can Get It Too!

Friday, April 29

SESSION : BIOLOGY
Molecular Ecology
Olin 335
10:00 AM
Session Chair: Stacey Lance

Dave Civitello ('06) and Steve Markesich ('05)
Molecular Ecology of Wolves and Coyotes.

SESSION XI: AMERICAN STUDIES PROGRAM
American Studies
Smith Room
9:00-11:00 AM
Session Chair: Margaret McFadden

9:00 am  Emma Lynch ('05)
If You Build it, They Will Come: A History of Changing Notions of Wilderness Along the Appalachian Trail

9:30 am  Nathaniel Hulme ('05)
Marriage and Family: A Closer Look into the Debate over Same-Sex Marriage

10:00 am  Karinna Russo ('05)
Deceptive Simplicity: A Study of Jacob Lawrence's Migration Series

SESSION XII: ECONOMICS
Economics
Hurd Room
1:00-3:00 PM
Session Chair: Philip Brown
1:00 pm  **Pawel Brodalka** ('05)
Strong Nobility, Weak State: An Institutional Analysis Of Poland’s Economic And Political Development In The Middle Of The Second Millennium

1:15 pm  **Matthew Bucklin** ('05)
Sources of Market Inefficiency

1:30 pm  **Richard Downing** ('05)
Determinants of Contractible Sickness in South Africa

2:00 pm  **Warner Nickerson** ('05)
Determinants of Divorce in China

2:30 pm  **Emilia Tjernström** ('06)
Satan Makes Me Spend My Money – A Study of Street Children’s Concept of Money and Economic Behavior, Tangiers, Morocco

*SESSION XIII: BIOLOGY*

**Whitney Room**

*Biology Research Papers*  
*Session Chair: Josh Kavaler*  

1:00-5:00 PM

1:00 pm  **Patrick J. Slipp** ('05)
A Study of Innate Immune Function in Fish of the Androscoggin and Kennebec Rivers

1:30 pm  **Joel G. Morash** ('05)
Patterns of Respiratory Burst Activity in Zebrafish

2:00 pm  **Lydia R. Durant** ('05)
Exploring the Ability of Melatonin to Reduce Oxidative Stress in Fiddler Crab Hepatopancreas Cells

2:30 pm  **Jocelyn J. LeBlanc** ('05)
Endogenous Rhythmicity of Retinal Photosentivity in the Fiddler Crab, *Uca pugilator*.

3:00 pm  **Eric S. Luth** ('05)
Determining the Specific Sites and Patterns of Melatonin Production in the Fiddler Crab, *Uca pugilator*

3:30 pm  **Dana Gwinn** ('05)
Development of DNA Microsatellites for a Tropical Shrub

4:00 pm  **Maureen M. Sherry** ('05)
Overexpression and Purification of the Cereal Grain Proteins TaABF, TaWD40, and AFN1

*SESSION XIV: Smith Room*  

*General Session*  
*Session Chair: Mark Serdjenian*
1:00-5:00 PM

1:30 pm  **R. Elliott Katz ('05), Art**
Exploration of Structure: Natural Forms in Sculpture and Drawing

2:00 pm  **Jane Leary ('06), Mathematics**
Women in Mathematics: Ada Lovelace

2:15 pm  **Julie Jaenicke ('06), Mathematics**
Stretching the Path: Hamiltonion Paths in Graphs

2:30 pm  **Hannah Emery ('05), Sociology**
Popular Culture and the Child Author

3:00 pm  **Caroline E. Williams ('07), Sociology**
The Key Suffix: From Network to Networking; The Evolution of a Study of Waterville's Social Service Agencies

3:15 pm  **Christopher Surprenant ('05), Philosophy**
Cultivating a Good Will: Moral Progress and the Kantian State

3:45 pm  **Pawel Brodalka ('05), Government**
The Political Ethics of Poland's Communist Security Service, Lustration and Wildstein's List.

**SESSION XV: CHEMISTRY**

*Keyes 105*

*Senior Presentations*  
*Session Chair: Julie Millard*

3:00 PM

**John Cole ('05)**
A Biomimetic Tungsten Complex

**Yan Kung ('05)**
Towards the Production of a Mutant S-RNase that Inhibits Self-incompatibility

**Galia Debelouchina ('05)**
Guest-Host Chemistry of Calix[6]arenes

**Jonathan Lees ('05)**
Predicting Guest Host Binding

**SESSION XVI: ENVIRONMENTAL STUDIES**

*Hurd Room*

*Environmental Studies*  
*Session Chair: Philip Nyhus*

3:30-5:00 PM

3:30 pm  **Allison Stewart ('05)**
The Forest Service's Quest for Power and Money and its Implications for the American Public

4:00 pm  **Brendan Carroll ('05)**
The Transboundary Implications of Wolf Reintroduction and Recovery in Maine

4:30 pm  Jessica Beetz ('05)
The Role of Private Ownership in the Conservation of Exotic Species

SESSION XVII: MATHEMATICS
Honors Presentation
Mudd 405
Session Chair: Jan Holly

4:00 PM

Jamie Falk ('05)
Wedderburn Structure Theory