2005

Schedule of Presentations

Colby College

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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
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 Reyes ('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**  
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**  
**PROGRAM**  
**International Studies**  
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**  
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
Honors Presentations Mudd 405
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
Government Honors Presentations Whitney Room
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
Corporate Responsibility Smith Room
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
The Cell Cycle and Cancer Olin 234
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
10:00 AM

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

SESSION XI: AMERICAN STUDIES PROGRAM
American Studies
9:00-11:00 AM

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
1:00-3:00 PM
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 Kavalier
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: GENERAL SESSION**  
Smith Room
General Session  
Session Chair: Mark Serdjenian
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: Hamiltonian 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)
4:30 pm  Jessica Beetz ('05)
The Role of Private Ownership in the Conservation of Exotic Species

SESSION XVII: MATHEMATICS
Honors Presentation
4:00 PM

Jamie Falk ('05)
Wedderburn Structure Theory