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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
1:00-3:00 PM

Smith Room
Session Chair: Clem Guthro

- 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
1:00-3:00 PM

Hurd Room
Session Chair: Jason Opal

- 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
1:00-3:00 PM

Whitney Room
Session Chair: Paul Greenwood

- 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
1:00 PM**

**Lovejoy 344
Session Chair: Ariel Armony**

- 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
3:00-5:00 PM**

**Smith Room
Session Chair: Patrice Franko**

- 3:00 pm** **Justin Dubois** ('05), International Studies
Extension of National Membership: Government Promises, Immigrant Expectations and the Impact on the Foreign Population in Germany
- 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
3:00-6:00 PM**

**Hurd Room
Session Chair: Walter Hatch & Philip Brown**

- 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)

Presidential Management, Fiscal Policy, and Public Rhetoric: An Empirical
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- β 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

Olin 335

Session Chair: Stacey Lance

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

Smith Room

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 Karina Russo ('05)

Deceptive Simplicity: A Study of Jacob Lawrence's Migration Series

SESSION XII: ECONOMICS

Economics

1:00-3:00 PM

Hurd Room

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
Biology Research Papers
1:00-5:00 PM

Whitney Room
Session Chair: Josh Kavalier

- 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 Photosensitivity 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
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: 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

Senior Presentations

3:00 PM

Keyes 105

Session Chair: Julie Millard

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

Environmental Studies

3:30-5:00 PM

Hurd Room

Session Chair: Philip Nyhus

- 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

4:00 PM

Mudd 405

Session Chair: Jan Holly

Jamie Falk ('05)

Wedderburn Structure Theory