2003

Schedule of Presentations

Colby College

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Colby Undergraduate Research Symposium 2003
May 1 & 2, Colby College, Waterville, Maine

Research Presentations
Thursday, May 1

SESSION I: ECONOMICS
Economics Honors
Session Chair: Professor Michael Donihue
Smith Room

9:00-12:00 AM

9:30 am Vanessa L. J. Haleco ('03)
Alternative Currencies: Their Social and Economic Contribution to Communities

10:00 am Katrina Noyes ('03)

11:00 am Peter Newberry ('03)
Possible Contraction and Its Effect on 2002 Major League Baseball Attendance

SESSION II: SOCIOLOGY
Session Chair: Alec Campbell
Hurd Room

10:00 AM -12:00 PM

10:00 am Sarah D. Style ('03)
Children of Incarcerated Parents: The Theoretical Foundations of Innovative Programming

10:30 am E. Ryan Swank ('03)
Taxation of Advertising as a Tool for Social Change

10:45 am Amanda Kellar ('03)
CHILD LABOR AND CORPORATE AMERICA, IS THERE A CAUSAL RELATIONSHIP?

11:00 am Andrea Taylor ('03)
From Propaganda to Publicity: An Analysis of the Advertising Council over the Past 60 Years.

11:30 am Courtney Fry ('03)
Bolivian Public Policy in the Context of the Global Economy: Is There Another Viable Development Strategy for Bolivia?
SESSION III: ECONOMICS  
Economics Honors  
Smith Room  
Session Chair: Professor Michael Donihue  
1:00-3:30 PM

1:00 pm  Donna M. Pitteri ('03)  
Solid Waste Management in Maine: Challenges and Possible Solutions for Waterville

1:30 pm  Grete Rod ('03)  
Capital Market Integration in Europe: Differing Experiences in the East and the West

2:30 pm  Abigail Benjamin ('03)  
Economic Impact of Colby College on the Waterville Economy

3:00 pm  Christopher A. Zeien ('03)  

SESSION IV: HISTORY  
HI 446 Historical Epidemiology  
Lovejoy 318  
Session Chair: Professor Jim Webb  
1:00-4:00 PM

1:00 pm  Amity Burr ('03)  
A Surgical History of Breast Cancer

1:30 pm  Elyssa Ford ('03)  
Yellow Fever in 19th Century Texas: A Critical Study and a Comprehensive Analysis

2:00 pm  John Knoedler ('03)  
International Disease in Minnesota: The Effect of Immigration on Tuberculosis in the 19th and 20th Century

2:30 pm  Matthew Mahoney ('03)  
Stopping the Spread of Influenza in 1918: The Maine Method

3:00 pm  Lauren Tiberio ('03)  
Transformation Through Time: A History of Anorexia Nervosa

SESSION V: EAST ASIAN STUDIES  
Freeman Scholars  
Hurd Room  
Session Chair: Professor Ken Rodman  
1:00-2:15 PM

1:00 pm  Michael S. Crawford ('04)  
Engaged Buddhism in Thailand

1:15 pm  L. Maclagan Cathles ('03)  
The Relation Between Physical Qualities and Gas Flow Through Snow.
Jessica Kellett (’04) and Emily Posner (’04)
The Commodification of Life and Water in Northern Luzon, Philippines

Doan Trang T Nguyen (’03)
Vietnamese Interpretation and Integration of Religions

Ellie Roan (’03)
Search for Roots: The Influence of 'The Past' on Fifth Generation Film

**SESSION VI: MUSIC**
*Whitney Room*

**Music and Contemplative Practice: Hearing the Divine**
*Session Chair: Professor Steven Nuss*

1:00-2:30 PM

Kate Heidemann (’04)
Hidden Divinity in Music: Gyorgy Ligeti's Concerto for Cello and Orchestra

1:30 pm Alexander Browne (’03)
Time in Music and Contemplative Practices

2:00 pm Seth Aylmer (’04)
Sounding Images, Praying Time

**SESSION VII: MUSIC**
*Whitney Room*

**Imagining Music: New Modes of Musical Discourse**
*Session Chair: Professor Steve Saunders*

3:00-4:30 PM

Victoria C. Hayes (’04)
Taking Note(s): Discoveries in Reception History Through Musical Reviews of the Beethoven Violin Concerto

3:15 pm Kate Hughes (’03)
The Last Protest Singers?: Musical Meaning in the Indigo Girls' 'Our Deliverance'

3:30 pm Robert D. MacBain (’04)
Sampling and the Death of Mechanical Reproduction

3:45 pm Sarah Chapple-Sokol (’04)
Cross-cultural, Technological, and Sociopolitical Influences in South African Kwela Music

4:00 pm Edward J. Piasecki (’03)
Unmasking 'The Perfect Stranger': Pierre Boulez, Frank Zappa, and the Common Ground Between Modernism and Postmodernism

**SESSION VIII: GENERAL SESSION**
*Hurd Room*

3:00-5:45 PM

Session Chair: Professor Paul Josephson
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<thead>
<tr>
<th>Time</th>
<th>Name</th>
<th>Major</th>
<th>Topic</th>
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<tbody>
<tr>
<td>3:00 pm</td>
<td>Alexandra Gelbard ('03)</td>
<td>Anthropology</td>
<td>Racism in Cuba: Yesterday and Today</td>
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<tr>
<td>3:30 pm</td>
<td>Meade Barlow ('03)</td>
<td>Theater and Dance</td>
<td>'Sonqoba Simunye:' Black and White Theatre Under the Apartheid Regime</td>
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<tr>
<td>3:45 pm</td>
<td>Adam N. Grassi ('03)</td>
<td>Art</td>
<td>Early Admission: A Redesigned Entrance to the Colby Campus</td>
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<tr>
<td>4:00 pm</td>
<td>Jennifer A. Varley ('03) and Christopther K. Varley</td>
<td>Psychology</td>
<td>A Review of Phenomenology and Treatment of Childhood Depression</td>
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<tr>
<td>4:15 pm</td>
<td>Melvin K. Ladera ('03)</td>
<td>History</td>
<td>Early Minority Students of Colby College</td>
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<tr>
<td>4:45 pm</td>
<td>Erin Bodner ('03), Brooke Harris ('03) and Jaclyn Gilman ('03)</td>
<td>History</td>
<td>Panel Discussion Regarding the Intersections of Judaism, Feminism and the Queer Movement</td>
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Friday, May 2

SESSION IX: BIOLOGY
Comparative Animal Physiology Projects
Olin 234
Session Chair: Professor Sharon Lynn
10:00-10:50 AM

Mike Jarcho ('03) and Nick Rohs ('03)
Influence of Acclimation Temperature on Specific Dynamic Action of Emerald Swifts
(Sceloporous malachiticus)

Jeff Owen ('03) and Aaron Charniak ('05)
Intracellular and Hormonal Influences on Color Change in Convict Cichlids, (Cichlasoma nigrofasciatum)

SESSION X: ECONOMICS
Economics Honors Presentations
Smith Room
Session Chair: Professor Randy Nelson
1:00-3:00 PM

1:00 pm Benjamin S. Hoffman ('03)
Environmental Regulation and Its Effect on Technical Change for Electric Utilities

2:00 pm Thomas V. Richardson ('03)
The Effect of Competitive Balance on Individual Game Attendance in Major League Baseball

SESSION XI: BIOLOGY, GEOLOGY, AND MATHEMATICS
Whitney Room
Session Chair: Professor Herb Wilson
1:00-4:00 PM

1:00 pm Brie A. Drummond ('03)
The Selection of Native and Invasive Plants by Frugivorous Birds.

1:15 pm Mari Nishino ('03)
B Cell Response by IL-4 Overproduction in Flaky Skin Mutant Mouse Spleen

1:45 pm Jill S. Wentzell ('03)
Screening the Human Genome for Trinucleotide Repeat Expansions

2:00 pm Elizabeth Mayhall ('03)
The Primary Immune Response of Landlocked Salmon (Salmo salar) to the Protein Antigen DNP-KLH

2:30 pm Sarah E. Pierce ('03)
Investigation of the Gene Governing Gametophytic Self Incompatibility (the S-gene) in a Population of Witheringia solanacea (Solanaceae)

3:00 pm Douglas C. Melzer ('03)
Three Cereal Grain Proteins, TaABF, TaWD40, and AFN1, Have Putative Roles in the
Abscisic Acid-mediated Gene Expression Pathway

3:15 pm  Beth Dushman ('03)
Geochemical and Environmental Studies in the Belgrade Lakes Watershed, Central Maine

3:30 pm  James D. H. Falk ('05)
Hamiltonian Paths in Graphs

3:45 pm  Lisa DeKeukelaere ('03)
Fourier Transforms and the Age of the Earth

SESSION XII: ART

Hurd Room
Session Chair: Professor Veronique Plesch

1:00-3:00 PM

1:00 pm  Doan Trang T Nguyen ('03), Art
St. Francis' Ideology and Its Franciscan and Clarissan Implementation

1:20 pm  Elizabeth Urstadt ('03), Art
Andachtsbilder: Aspiring to Become the Bride of Christ Through Images of Christ and St John and the Pietà

1:40 pm  Nicole Russo ('03), Art
Nuns and Devotional Objects, Images and Practices

2:00 pm  Tracy Schloss ('03), Art
The Allegorical and Artistic Use of Mirrors in Late Medieval Devotional Art

2:20 pm  Kate Lydecker ('03), Art
The Pilgrimage to the Sacro Monte at Varallo: A Journey in Personal Devotion

SESSION XIII: CHEMISTRY

Keyes 105
Session Chair: Professor Rebecca Conry

3:00-5:30 PM

3:00 pm  Erik Lisk ('03)
Mechanism of Hydrogen Peroxide Detection in Natural Waters

3:25 pm  Joshua Weitz ('03)
Photochemical Generation of an Oxiranylcarbene

3:50 pm  Gregory Sawyer ('03)
Flanking Sequences Modulate Diepoxide Cross-Linking Efficiencies at the 5'-GNC Site

4:25 pm  Eric Nguyen ('04)
Comparison of Stimulated Osteoclastogenesis in Two Mouse Strains

4:50 pm  Matthew Courtney ('03)
5:15 pm  Andrew Moraco ('03)
Hydrogen Bonding in Discrete Base Pairing Complexes Containing 6-Thioguanine

SESSION XIV: GENERAL SESSION
Session Chair: Professor David Firmage
3:00-5:00 PM

3:00 pm  Kathryn Spirer ('03)
From Maine Farms to Maine Colleges: The Symbolism and Reality Behind the Local Purchasing Efforts at Colby, Bates, and Bowdoin

3:15 pm  Amina McIntyre ('04)
Gathering Together in His Name: An Analysis of the Christian Methodist Episcopal and African Methodist Episcopal Zion Churches' Pending Merger

3:45 pm  Kimberly Niederberger ('03)
The Paradox of Napoleon Bonaparte: A Fallen Genius

4:15 pm  Nathaniel Arguelles ('03)
Challenges to Developing Iraq's Oil in the Post-Hussein Era: International Law and Legacies of Hussein's Rule

4:30 pm  Jonathan Silberstein-Loeb ('03)
The Biography of a Man and a Magazine: Max Ascoli and The Reporter

SESSION XV: GENERAL SESSION
Session Chair: Professor Tamae Prindle
3:00-5:15

3:00 pm  James B. Cowan ('03)
Unwilling To Explain: Deceptiveness in Robert Frost

3:30 pm  Erin Hanrahan ('03)
Media and the Use of English in Tanzania

3:45 pm  Evan McGee ('03)
Mishima Yukio's Short Stories

4:15 pm  Elyssa Ford ('03)
The Water-Babies: Changing Textual Meanings Through a Study of Illustrations

4:45 pm  Alicia Ford ('03)
William Blake and Popular Musical Interpretations of his Songs of Innocence and Experience
5:00 pm  Jonathan Devers ('05)
Shusaku Endo's Novel Silence is Fiction