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*  
*Smith Room*  
*Session Chair: Professor Michael Donihue*

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 Noves ('03)**  

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

**SESSION II: SOCIOLOGY**  
*Hurd Room*  
*Session Chair: Alec Campbell*

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
1:00-3:30 PM

Session Chair: Professor Michael Donihue

Smith Room

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
1:00-4:00 PM

Session Chair: Professor Jim Webb

Lovejoy 318

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
1:00-2:15 PM

Session Chair: Professor Ken Rodman

Hurd Room

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.
1:30 pm  **Jessica Kellett** (’04) and **Emily Posner** (’04)
The Commodification of Life and Water in Northern Luzon, Philippines

1:45 pm  **Doan Trang T Nguyen** (’03)
Vietnamese Interpretation and Integration of Religions

2:00 pm  **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

1:00 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

3:00 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
Session Chair: Professor Paul Josephson
3:00-5:45 PM
3:00 pm  Alexandra Gelbard ('03), Anthropology
Racism in Cuba: Yesterday and Today

3:30 pm  Meade Barlow ('03), Theater and Dance
'Sonqoba Simunye:' Black and White Theatre Under the Apartheid Regime

3:45 pm  Adam N. Grassi ('03), Art
Early Admission: A Redesigned Entrance to the Colby Campus

4:00 pm  Jennifer A. Varley ('03) and Christopther K. Varley, Psychology
A Review of Phenomelogy and Treatment of Childhood Depression

4:15 pm  Melvin K. Ladera ('03), History
Early Minority Students of Colby College

4:45 pm  Erin Bodner ('03), Brooke Harris ('03) and Jaclyn Gilman ('03), History
Panel Discussion Regarding the Intersections of Judaism, Feminism and the Queer Movement
Friday, May 2

SESSION IX: BIOLOGY
Comparative Animal Physiology Projects
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
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
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)
Evaluation of Fe(II) Analysis Techniques in a Range of Natural Water Types

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

**SESSION XIV: GENERAL SESSION**

*Hurd Room*

*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**

*Smith Room*

*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