

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 Noyes ('03)**

The Economic Effects of British Colonialism on India: An Analysis of the Goods and Capital Markets, 1853-1947

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

Smith Room

Session Chair: Professor Michael Donihue

- 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)**
Tying Together World Economies: Using an Estimation of the J-Curve Phenomenon to Recreate the Asian Currency Crisis of 1997

SESSION IV: HISTORY

HI 446 Historical Epidemiology

1:00-4:00 PM

Lovejoy 318

Session Chair: Professor Jim Webb

- 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

Hurd Room

Session Chair: Professor Ken Rodman

- 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

Music and Contemplative Practice: Hearing the Divine
1:00-2:30 PM

Whitney Room
Session Chair: Professor Steven Nuss

- 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

Imagining Music: New Modes of Musical Discourse
3:00-4:30 PM

Whitney Room
Session Chair: Professor Steve Saunders

- 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

3:00-5:45 PM

Hurd Room
Session Chair: Professor Paul Josephson

- 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 **Christopher K. Varley**, Psychology
A Review of Phenomenology 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

Olin 234
Session Chair: Professor Sharon Lynn

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

Smith Room
Session Chair: Professor Randy Nelson

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

Vision and Experience in Late-Medieval Devotional Art

1:00-3:00 PM

Hurd Room

Session Chair: Professor Veronique Plesch

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

Chemistry Senior Project Presentations

3:00-5:30 PM

Keyes 105

Session Chair: Professor Rebecca Conry

3:00 pm **Erik Lisk** ('03)

Mechanism of Hydrogen Peroxide Detection in Natural Waters

3:25 pm **Joshua Weitz** ('03)

Photochemical Generation of an Oxiranylcabene

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