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Schedule of Presentations

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Colby Undergraduate Research Symposium, 2004
April 28-30, Colby College, Waterville, Maine
April 28, 7:30 pm Olin 1

Research Presentations

Thursday, April 29

SESSION I: SOCIOLOGY

Sociology

10:00 - 12:00 Noon

Hurd Room

Session Chair: Professor Terry Arendell

10:00 am **Greg Dupuy ('04)**

The Politics of Danger: Constructing Identity, Interests and Security in International Relations

10:30 am **Michael Hildebrandt ('04)**

Morphing Master Status and the Tormented Mind, Body, and Soul: Reconstructing Identity as an Ex-Athlete

11:00 am **Brittney Lazar ('04)**

'Big Team, Little Me:' A Social Psychological Study Of Social Identity Placement for Collegiate Athletic Team Members

11:30 am **Ariel Martin-Cone ('04)**

Restricted Environments: Reformatting Special and Specialized Education to Effectively Teach Children with Learning Disabilities.

SESSION II: AMERICAN STUDIES

American Studies Honors Presentations

10:00 - 12:00 Noon

Whitney Room

Session Chair: Professor Margaret McFadden

10:00 am **Kelly McGowan ('04)**

Viewing Race: Deconstructing 'Blackness' in American Situational Comedies, 1969-1992

10:15 am **Johanna L. W. Schroeder ('04)**

'Who Are They?': Gender, Class, and Politics in Contemporary Country Music

10:45 am **Kristan D. Jiggetts ('04)**

Crazy, Beautiful, Clueless and at the Crossroads: Representation of Reality in Contemporary Teenage Film

11:00 am **Alicia M. Burrows ('04)**

The Construction of Killers: Morality and Representation in Vietnam War Films

SESSION III:
General Session
1:00 - 3:00 PM

Smith Room, Roberts Union
Session Chair: Professor Jeffrey Anderson

- 1:00 pm** **Meredith Needle** ('04), Anthropology
Anti-Semitism: The Past and Present of the Jewish Community of Buenos Aires, Argentina
- 1:30 pm** **Bonnie L. Dowling** ('04), International Studies
Managing the Responsibility: The Private Sector's Role in Combating HIV/AIDS in Lesotho
- 1:45 pm** **Morgan S. Pratt** ('04), Anthropology
Seeing Double: The Duality of Body Image in Female College Athletics
- 2:00 pm** **Nathan J. Sigworth** ('06), Physics and Astronomy
Religiously Motivated Community Development in Uttar Pradesh

SESSION IV: HISTORY
History
1:00 - 3:00 PM

Hurd Room
Session Chair: Professor Paul Josephson

- 1:00 pm** **Karen Prager** ('04), History
Defense and Defiance: The Russian Old Believers of the 1660s
- 1:15 pm** **Karsten Solberg** ('04), History
The Course of the Empire: The Hudson River School and the Landscape of Progress
- 1:30 pm** **Holli Grover** ('04), History
Local Reactions to the Cape Cod Canal
- 1:45 pm** **Margaux Leonard** ('04), History
The Eugenics Movement in America: The Case in Massachusetts, 1920-1940.

SESSION V:
General Session
1:00 - 3:00 PM

Whitney Room
Session Chair: Marilyn Pukkila

- 1:00 pm** **Allison B. Kolkhorst** ('04), Psychology
Moral Treatment at the Maine Insane Asylum
- 1:30 pm** **Emily R. Brostek** ('06), Education and Human Development
Dr. Seuss and Adolf: the Good Doctor's Take on Fascism
- 1:45 pm** **Alan Stimpson** ('04), English
Exploration of Implied Line and Motion
- 2:00 pm** **Sarah Kaminshine** ('04), Mathematics

- The Musical Mondo
- 2:15 pm** **Ben Sanoff** ('04), International Studies
Integration of Non Native Students Through Educational Systems Considered From The Varied Perspectives of Puerto Rico, Spain, and The United States
- 2:30 pm** **Laura Mistretta** ('04), Government
Who Comes Out to Play? Opportunity and Interest In College Sports: A Critical Analysis of Title IX and Its Effects on Intercollegiate Athletics 1972-2004
- 2:45 pm** **Adelin Cai** ('05), International Studies
Manufacturing Visibility

SESSION VII: HISTORY

Lovejoy 307

Historical Epidemiology

Session Chair: Professor James Webb

1:00-3:30 PM

- 1:00 pm** **Ashley A. Porter** ('04), History
The Marketing of Depression: The Ladies' Home Journal in the 1950s
- 1:30 pm** **Laura L. Snow** ('04), History
Cholera and the Crisis of Public Health in Peru
- 2:00 pm** **Mary P. Karottki** ('04), Environmental Studies
Something in the Daily Bread: The Phenomenon of the Witch in Southern Germany, ca. 1600
- 2:30 pm** **Sarah G. Wolfrum** ('04), History
The Implications of Culture on the HIV/AIDS Epidemic in Thailand
- 3:00 pm** **Peter L. Burch** ('04), History
The Political Dimension of Hoof-and-Mouth Disease in the United Kingdom, 2001

SESSION VIII: INTERNATIONAL STUDIES

Smith Room

International Studies Honors

Session Chair: Professor Jennifer Yoder

3:00 - 6:00 PM

- 3:00 pm** **Emma J. James** ('04), International Studies
Victim's Justice? The Desirability of Establishing a Khmer Rouge Tribunal in Cambodia
- 3:30 pm** **Elizabeth L. Holmes** ('04), International Studies
Building Morocco through Literacy - Women's Participation in Development
- 4:00 pm** **Melissa Rosales** ('04), Latin American Studies
Education and Participation as Vehicles to Empowerment: The Impact of Non governmental Organizations on Street Children in Latin America
- 4:30 pm** **Kristin Saucier** ('04), International Studies
Evaluations and Project Effectiveness

- 5:00 pm** **Spencer Fenniman** ('04), International Studies
Participatory Publics? The Limitations of Democracy in Rural Bolivia
- 5:30 pm** **Caitlin Cassis** ('04), International Studies
Silencing the Singing Stone: The Impact of Modern Technology on Indigenous People in Brazil

SESSION IX: EAST ASIAN STUDIES

Hurd Room

Freeman Scholars

Session Chair: Professor Peter Ditmanson

3:00 - 5:00 PM

- 3:00 pm** **Lynn Cole** ('04), East-Asian Studies
Religious Tolerance in Vietnam
- 3:15 pm** **Lindsay Grossman** ('04), Religious Studies
Contemporary Orange Robes: Buddhism and the Monastic Community in Modern Laos
- 3:30 pm** **Adam Saltsman** ('04), Anthropology
Looking at Sites of Cultural Production: the Tourist Industry in Vietnam
- 3:45 pm** **Caroline Swindells** ('04), East-Asian Studies
The Tet Nguyen Dan Festival in Vietnam
- 4:00 pm** **Anna Rover** ('04), East-Asian Studies
Fuji Eco Park Village: An Organic Farm in Japan Seeking Self-Sustainability
- 4:15 pm** **Tu-Quyen Nguyen** ('06), Religious Studies
Japanese Christianity
- 4:30 pm** **Ryan G. Holben** ('07), Mathematics
Researching How Mathematics is Taught in Japan
- 4:45 pm** **Michael Howard** ('06) and **Jia Chen** ('06), Biology
Karate and Kendo: Martial Arts and Experiences from Japan

SESSION X: ENVIRONMENTAL STUDIES

Whitney Room

Environmental Studies

Session Chair: Professor Tom Tietenberg

3:00 - 5:00 PM

- 3:15 pm** **Kellie K. Phelan** ('04), Environmental Studies
Estimating the Impact of State Policy Incentives on Wind Power Development.
- 3:45 pm** **Brandon Smithwood** ('06), Environmental Studies
Colby's Role in Global Climate Change
- 4:00 pm** **Brian Kittler** ('04), Environmental Studies
An Evaluation of Energy Conservation Competitions to Reduce Consumption and Change Habits on a College Campus

SESSION XI: COMPUTER SCIENCE
Computer Science Honors Presentations
4:00 PM

Mudd 405
Session Chair: Professor Clare Congdon

Kevin J. Septor ('04)

Creating a Video Device Application

Rachel T. Noiseux ('04)

Designing and Implementing a User-Focused Web-Based Database System

SESSION XII: ENGLISH
English Honors
5:00 - 6:00 PM

Whitney Room
Session Chair: Professor Laurie Osborne

5:00 pm **Elizabeth W. Lund ('04)**

Mary Sidney, Countess of Pembroke

5:15 pm **Emma McCandless ('04)**

The Aesthetics of Adaptation: Plain Jane Goes to the Movies

5:45 pm **Rebecca Avrutin ('04)**

Reinforcement of Patriarchal Society Through Film: An Examination of the Mother-Daughter Relationship in Literature and Film

Friday, April 30

SESSION XIII: ECONOMICS
Economics Honors
1:00 - 4:00 PM

Smith Room
Session Chair: Professor Patrice Franko

1:45 pm **Katherine Brown ('04), Economics**

Passenger Car Sales in the Peoples Republic of China: What Are the Macroeconomic Factors Affecting Automobile Demand in China?

2:15 pm **Andre Garron ('04), Economics**

A Theoretical Mathematical Model of Fishery Economics

3:00 pm **Andriy Avramenko ('04), Economics**

Wealth Effects on Consumer Spending in the US Economy

SESSION XIV: ART
Research from Senior Scholars and
Independent Majors in Art

Hurd Room
Session Chair: Professor Véronique Plesch

1:00 - 3:00 PM

- 1:00 pm** **Rachel Tobie** ('04), Art
Word & Image in the Contemporary Artist's Book
- 1:30 pm** **Josh McConnell** ('04), Art
Rethinking Israhel van Meckenem's Engraved Oeuvre
- 2:00 pm** **Kathryn Hulick** ('04), Art
Thought Made Visible

SESSION XV: BIOLOGY

Biology

Whitney Room
Session Chair: Professor Herb Wilson

1:00 - 6:00 PM

- 1:00 pm** **Rebecca Evans** ('04), Biology
Development of Microsatellite Markers For Evaluation of Plant Mating Systems
- 1:15 pm** **Naomi Appel** ('04), Biology
The Effects of Melatonin on the Metabolism of Fiddler Crabs
- 1:45 pm** **Gregory A. Cary** ('04), Biology
Determining the Effects of Melatonin on in vitro Neural Regeneration from *Uca pugilator* X-Organ Neurons
- 2:15 pm** **Meredith Crane** ('04), Biology
Development of a Radioligand Binding Assay for the Identification of [3H] Melatonin Binding in the Crayfish, *Procambarus clarkii*
- 2:45 pm** **Aubris L. Pfeiffer** ('04), Biology
Neurogenesis in Fiddler Crabs: is Neuronal Proliferation Regulated by Tidal Rhythms?
- 3:15 pm** **Miranda R. Bertram** ('04), Biology
Environmental and Hormonal Influences on Activity Patterns in Free-Ranging Gray Squirrels (*Sciurus carolinensis*)
- 3:45 pm** **Jonathan Romak** ('04), Biology
The Effect of pH on an Antitumor Drug as Determined by Isothermal Titration Calorimetry
- 4:15 pm** **Molly Hyde** ('04), Biology
Dissemination of Mercury Resistance Genes and Antibiotic Resistance Genes by Horizontal Gene Transfer Among Trout Gastrointestinal Tract Flora.
- 4:45 pm** **Nicholas O. Markham** ('04), Biology
Isolation and Characterization of Mercury and Antibiotic Resistant Bacteria from the Gastrointestinal Tracts of Hatchery Grown Brook Trout, *Salvelinus fontinalis*
- 5:15 pm** **John Cole** ('05), Chemistry

Elemental Analysis of Crickets and Cricket Diets as Suitable Food for Captive Animals

SESSION XVI:
General Session
4:00 - 6:00 PM

Smith Room
Session Chair: Mr. Clement Guthro

- 4:00 pm** **Vanessa L. Verri** ('04), Anthropology
How Natural History Museums Fell From Grace and Why They Shouldn't Have or, Defending Museums During The Age of Hypersensitivity
- 4:30 pm** **Adam Saltsman** ('04), Anthropology
Alternative Sites of Misrepresentation: Going from Borderland to Homeland in a Transnational Setting
- 5:00 pm** **Michael B. Greenberg** ('04), Anthropology
Power, Positionality, and Conceptions of Stewardship and Ownership in the Cleanup of Nomans Land Island, Massachusetts.
- 5:30 pm** **Josiah J. Taylor** ('05), Anthropology
Steam Rising : Innu Environmental Struggle In Nitassinan (Labrador), Canada

SESSION XVII:
General Session
3:00 - 5:00 PM

Hurd Room
Session Chair: Dean Mark Serdjenian

- 3:15 pm** **Chris W. Surprenant** ('05), Government
Kant's Argument for the Immortality of the Soul
- 3:30 pm** **Cassandra Cote** ('04), Religious Studies
Return to the Womb

SESSION XVIII: CHEMISTRY
Chemistry Senior Research
3:00 - 5:00 PM

Keyes 105
Session Chair: Professor Whitney King

- 3:15 pm** **Jessica H. Hayward** ('04), Chemistry
Synthesis of a Tetradentate Sulfur Ligand and New Biomimetic Nickel Complexes of That Ligand
- 3:45 pm** **Justin E. Juskewitch** ('04), Chemistry
Mapping of Diepoxybutane Damage in the Cytochrome b Domain of Mitochondrial and the b-globin Domain of Genomic Chicken DNA Using Quantitative PCR
- 4:15 pm** **Jeffrey H. Goldberg** ('04), Chemistry
A Laser Flash Photolysis Study of Dihalocarbenes in Room Temperature Ionic

Liquids