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Schedule of Presentations

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Colby Undergraduate Research Symposium 2010

April 28 - April 30, Colby College, Waterville, Maine

Keynote Address

April 28, 7:30 pm Ostrove Auditorium

Research Presentations

Wednesday, April 28

SESSION I:
General Session
9:00 - 11:30 AM

Smith Room, Roberts
Session Chair: Adam Howard

- 9:00 am** **Terri Bello** ('10), Education and Human Development
Enhancing Attributional Retraining with a Multiple Intelligence Approach
- 9:30 am** **Sarajane Blair** ('10), Education and Human Development
The Unmarked Intersectionality of Gender and Ethnic Prejudices: An Examination of the Difficulties of Post-Conflict Curricular Reform in the Republika Srpska of Bosnia and Herzegovina
- 10:00 am** **Allyson Cheever** ('11), **Leah Perlmutter** ('12) and **Sarah Harmon** ('12),
Computer Science
Comparison of *Drosophila* Circadian Clock Models Through Oscillator-specific Phase Sensitivity Analysis
- 10:30 am** **John Moriarty** ('10), Physics and Astronomy
The Cluster Environment of High Mass Protostars
- 11:00 am** **Daniel Reeves** ('10), Physics and Astronomy
Pressure-Driven Flow of a Confined Suspension

SESSION II: ENVIRONMENTAL STUDIES
Tropical Forests and Sustainable Development
10:00 - 10:50 AM

Lovejoy 213
Session Chair: Janette Bulkan

- Amanda Lindsay** ('10)
The Relationship Between the Ban on Trade in Ivory and African Elephant Populations
- Emily VanWyk** ('11)

Human/Wildlife Conflict in Agro-ecosystems in Southern Africa

SESSION III: ENVIRONMENTAL STUDIES

Hazardous Waste and Environmental Justice

1:00 - 2:15 PM

Hurd Room

Session Chair: Gail Carlson

- 1:00 pm** **Blair Braverman** ('11)
Environmental Justice on Saint Lawrence Island, Alaska
- 1:15 pm** **Sarah Hart** ('10)
The Abandoned HoltraChemical Plant's Toxic Effects on Orrington, Maine and the Penobscot Nation
- 1:30 pm** **Sarah Dallas** ('10)
A Case of Environmental Justice: North River Wastewater Treatment Plant
- 1:45 pm** **Katherine Orrick** ('10)
Chevron Refinery and the Environmental Injustice of Richmond, CA

SESSION IV:

General Session

1:00 - 3:45 PM

Smith Room, Roberts

Session Chair: Suzi Cole

- 1:00 pm** **Edward Benjamin** ('11), **Aaron Halpine** ('13), **Daniel Reeves** ('10), **Jilian Vaughan** ('12) and **Joshua Kelton** ('10), Philosophy
Somali Bantu Integration in the Greater Waterville Area
- 1:30 pm** **Kristen Psaty** ('10), Philosophy
On Perfect Friendship: An Outline and a Guide to Aristotle's Philosophy of Friendship
- 2:30 pm** **Elizabeth Kugel** ('10), Geology
A Study of Flow Trends in Lower Perkins Brook, Colby College Campus, Waterville, Maine
- 2:45 pm** **Samuel Mathes** ('10), Geology
Interpretation of an Ancient Collisional Plate Tectonic Boundary, Wyoming: Part 2
- 3:00 pm** **Wyatt Fereday** ('11), Geology
Interpretation of an Ancient Collisional Plate Tectonic Boundary, Wyoming: Part 1
- 3:15 pm** **Andrew McCarthy** ('10), Geology
Using Medical Imaging Software to Assess Deformation in Quartzite

SESSION V: ENVIRONMENTAL STUDIES

Environmental Studies

2:30 - 4:30 PM

Hurd Room, Roberts

Session Chair: Russell Cole

- 2:30 pm** **Caroline Turnbull** ('10)
The Grameen Bank: Methodology and Perspective
- 2:45 pm** **Jordan Schoonover** ('10)
Population Genetics of the Invasive Plant *Impatiens glandulifera* in Maine
- 3:00 pm** **Ian McCullough** ('10)
The Impacts of Land Use and Development Patterns on Water Quality of the Belgrade Lakes
- 3:30 pm** **Stephen Erario** ('10)
Helping Maine Communities Understand the Energy Efficiency Conservation Block Grant Program
- 4:00 pm** **John Abbett** ('10)
Achieving Carbon Neutrality at Colby College through Carbon Offsets

SESSION VI: ENGLISH

On With The Story: Fiction, Memoir, and Screenplay

4:00 - 6:00 PM

***Smith Room, Roberts
Session Chair: Jennifer Boylan***

- 4:00 pm** **Lindsey Anderson** ('10), English
Helen
- 4:15 pm** **Jean Burnet** ('10), English
Hiding
- 4:30 pm** **Katrina Gravel** ('10), English
Fast: The Stories of a Team
- 4:45 pm** **Eric McDowell** ('10), English
Stopgap: Short Stories
- 5:00 pm** **Annelise Wiersema** ('10), English
The Eccentrics
- 5:15 pm** **Blair Braverman** ('11), English
Prose Reading
- 5:30 pm** **J. Clark** ('10), English
Shep & Saint Adelaide

SESSION VII: RELIGIOUS STUDIES

Food and Religious Identity

4:00 - 6:00 PM

***Whitney Room, Roberts
Session Chair: David Freidenreich***

- 4:00 pm** **Karthik Sonty** ('10), Religious Studies
Diet and Deification in Ancient Hinduism

- 4:20 pm** **George Venturella** ('12), Religious Studies
查剎茶 Chá Chà Chá: How Buddhism Made Tea Wonderful
- 4:40 pm** **Sierra Medling** ('12), Religious Studies
KÄ • lÄ« and Food Ritual in Hindu Tantra
- 5:10 pm** **Amanda Burgess** ('10), Religious Studies
The Story of the Pomegranate in Jewish and Christian Literature, Thought, and Practice
- 5:30 pm** **Naamah Azoulay** ('10), Religious Studies
You Don't Have to be Jewish to Eat Bagels

SESSION VIII: MATHEMATICS

Mathematics Presentations

Mudd 405

4:00-5:00 PM

- 4:00 pm** **Aichatou Fall** ('10)
The Implicit Function Theorem

SESSION IX: DEAN OF FACULTY

Keynote Faculty/Student Poster Session

Diamond Atrium

Session Chair: Ed Yeterian/Michael Donihue

6:30 - 7:30 PM

Daniel Reeves and Jonathan McCoy

Pressure-Driven Flow of a Confined Suspension

Eric Braunstein and Jeff Katz

Analysis of the Electron Withdrawing Capability of Acetylene Groups for Nucleophilic Aromatic Substitution; Formation of Acetylene-substituted Oxacalixarenes

Devon McIntyre and Jen Coane

Congruency and Survival: The Mnemonic Advantage After Priming Survival Processing Depends on What Was Studied

Qianwen Xu

Behavioral Responses to New Dam Construction in Southwestern China

Jessica-Ashley Williams, Katherine Littleton and Priscilla Doel

Rural Health Care Initiative of the Dominican Republic

Adam Paine and Kevin Rice

Cell Death Mechanisms Associated with the Carbamoylating Activity of the Anticancer Prodrug Laromustine

Roberto Delhy Nolivos and Guillermo Vuletin

Central Bank Independence and Fiscal Dominance

Jennifer Corriveau and Melissa Glenn

Preventing Severe Psychosis: Anti-schizophrenic Properties of Adolescent Choline Supplementation in a Rat Model of Schizophrenia

Ian McCullough and Russell Cole

Nutrient Loads and the Presence of an Invasive Species Threaten Salmon Lake, Kennebec County, Maine

Katherine Orrick and David Firmage

Impacts of Land Use Changes on Water Quality in Salmon Lake and McGrath Pond

Brian DiMento and Whitney King

The Chemiluminescent Detection of Superoxide and Hydrogen Peroxide

Cassandra Knight and Robert Gastaldo

Late Permian Paleoenvironmental Factors Expounded Through Analysis of a Forest-floor Paleosol Profile, Karoo Basin, South Africa

Anne Chang and Cathy Bevier

Exploring Diversity and Function of Epibiotic Bacteria in Three Species of Frogs in Maine

Brittany Thomas and Frank Fekete

Characterization of Surface Attachment Factors of *Vibrio* Related Aquatic Bacteria

Yiyuan Qin and Philip Nyhus

South China Tiger Prey Habitat Suitability GIS Assessment in Hupingshan-Houhe National Nature Reserve Complex, China

Bethany L. Bartley, Christopher Ng, David C. Hirsch, Julie T. Millard and Vanesa L. Silvestri

Mechanisms of Cytotoxicity of Diepoxybutane, Epichlorohydrin, and (1-chloroethenyl) Oxirane

Thursday, April 29

SESSION X: BIOLOGY

Symposium on Cancer

1:00 PM

Olin 234

Session Chair: Paul Greenwood

Katie Littleton ('11)

Ovarian Cancer: Classification, Diagnosis, and Treatment of Ovarian Epithelial Carcinomas

Molly McKenna ('10)

Hodgkins vs. non-Hodgkins Lymphoma: A Threat to the Younger Generation

Hillary Rockey ('11)

Diagnosis and Management of Colorectal Cancer

CeeJay Frederick ('10)

Chronic Lymphocytic Leukemia: Using CD38 to Determine Susceptibility and Course of Disease in Patients with CLL

Anne Chang ('10)

Osteosarcoma: Sticks and Stones May Break your Bones, but Cancer will Really Break Them

Jack Brainard ('10)

The Transition to Malignancy: the Case of Melanoma

SESSION XI: ANTHROPOLOGY
Modernities, Mobilities, Citizenship
1:00 - 3:30 PM

Diamond 323
Session Chair: Mary Beth Mills

Jen Shriber ('10)

Desert Meets Digital: Negotiating Global Identities through Raï Music

Hanna Noel ('10)

Volunteerism in the United States: Identities and Citizenship in the Making

Emily Pavelle ('10)

The Refugees of Hurricane Katrina: Secondary Citizenship, Displacement and the Restructuring of New Orleans

Elizabeth Millikin ('10)

Wolves in Virtual Clothing: Exploring Identity through Online Role-playing Communities

Nicole Mitchell ('10)

Discourses of Modernity and Nostalgia in Maine Coastal Towns

Delia Langan ('10)

Tourism and Native American Citizenship

Carly Rapaport ('10)

Tabloid Mania: America's Obsession with Celebrity Lives and Gossip

SESSION XII:
General Session
12:15 - 4:00 PM

Smith Room, Roberts
Session Chair: Michael Donihue

12:15 pm

Jacob Roundtree ('10), Philosophy
A Nietzschean Case for Tax Evasion

12:45 pm

Jacob Roundtree ('10), Philosophy
'The General Will's Cold Fury: Hegel's Critique of Rousseau and the French Revolution'

1:00 pm

James Bowe ('11), East-Asian Studies
Women in Japanese Literature: How Women Escaped their

- Marginal Roles in Ooba Minako's Short Stories
- 1:15 pm** **Laure-Helene Caseau** ('10), East-Asian Studies
The Myth of Tsugumi: Death and Absurdism in Yoshimoto's Goodbye Tsugumi
- 1:30 pm** **Rinchen Olthang** ('10), Economics
A Market for Magritte : Investing in the Surreal
- 2:00 pm** **Amy Weston** ('10), Sociology
The Western Abenaki Experience and the Racial-Ethnic Closet
- 2:15 pm** **Leigh Bullion** ('10), English
Shakespeare and Homoeroticism
- 2:45 pm** **Kelly Sullivan** ('10), Mathematics
Perceived Motion and Modeling of Eye Movements during Human Centrifugation
- 3:00 pm** **Justin De Santis** ('13), Mathematics
Visual Taylor Series and a Generalized Alternating Series Test
- 3:30 pm** **Saralin Davis** ('10), Mathematics
Mismatch Between Human Perception and Eye Reflexes During Off-Vertical Axis Rotation

SESSION XIII: AMERICAN STUDIES
American Paintings in the Colby Museum
1:00 - 2:15 PM

Hurd Room, Roberts
Session Chair: Julie Levin Caro

- 1:00 pm** **Sandra Johnson** ('12)
The Denial of Convention in the Sophisticated Portrayal of a Young Girl: John Singleton Copley's Little Girl with Grapes, 1765-70
- 1:20 pm** **Samantha Richens** ('11)
Milton William Hopkins's Martha Ellen Connell: The Significance of Non-Academic Portrait Painting in Jacksonian America
- 1:40 pm** **Gordon Lessersohn** ('12)
John Frederick Kensett's Seacoast View: In Harmony with Emerson's Nature

SESSION XIV: HISTORY
History Senior Thesis Presentations
1:00 - 4:00 PM

Whitney Room, Roberts
Session Chair: Paul Josephson

- 1:00 pm** **Aimee Kidder** ('10)
A Disappearing Boundary?: The Changing Distinction between

Combatants and Civilians from the First World War to the Present Day.

1:30 pm

Courtney Cronin ('10)

Domestic Drama, International Crises: Tsarina Alexandra, Nicholas II and the End of the Romanov Dynasty

2:00 pm

Alison Berryman ('10)

Soviet Education: Communism in the Classroom

2:30 pm

Steven Tatko ('10)

The Budworm and the Mill: The Spruce Budworm Epidemic and the Evolving Forest Products Industry in Maine from 1975-1985

3:00 pm

Daniel Franklin ('10)

The Legacy of the American Civil War in the Lives of Women: A Comparative Study of the Northern and Southern Experiences through Reconstruction

3:30 pm

Catherine Vieth ('10)

'Bad Copyists': Photography in the Early Soviet Union

SESSION XV: MUSIC

Schenkerian Analysis

2:30 - 4:00 PM

Bixler 226

Session Chair: Steve Saunders

2:30 pm

Qainat Khan ('11), Music

Uniting Neo-Riemannian Theory and Schenkerian Analysis in Liszt's 'Sonetto 104 del Petrarca'

3:00 pm

Kathleen Fallon ('10), Music

Auxiliary Cadences and Voice-Leading Structure in Robert Schumann's 'Aufschwung'

3:30 pm

Emily Wolf ('10), Music

Chopin: Idiot or Genius?

SESSION XVI: RELIGIOUS STUDIES

Food and Religious Identity (II)

2:30 - 4:30 PM

Hurd Room, Roberts

Session Chair: David Freidenreich

2:30 pm

Emma Gildesgame ('10), Religious Studies

Kosher Ethics: American Jewish Responses to the AgriProcessors Scandal

2:50 pm

Silas Rioux ('10), Religious Studies

Religious Responses to Genetically Modified Organisms

3:10 pm

Spencer Kasko ('12), Religious Studies

'The Real Meat and Potatoes': Food and Morality in Woody Allen's Serious Films

3:30 pm

Jena Hershkowitz ('12), Religious Studies

Novelty and Neglect: Italian Americans, Food and Catholicism

3:50 pm

Amanda Forrester ('11), Religious Studies

Public Portrayal Versus Internal Practice: the Seventh-day Adventist Food Movement

SESSION XVII: ENGLISH

On With The Story: Fiction, Memoir, and Screenplay - II

4:00 - 6:00 PM

***Smith Room, Roberts
Session Chair: Jennifer Boylan***

4:00 pm

Julia Essenburg ('11), English

Historical Novel

4:15 pm

Christine Friar ('10), English

Missed Connections: A Craigslist Fiction Project

4:30 pm

Dana Himmelstein ('10), English

Right on Poole

4:45 pm

Caitlin Murphy ('10), English

Sand

5:00 pm

Zacharia Hussain ('10), English

Garbage Man

5:15 pm

Brittany Soderholm ('10), English

The God of You and Me

5:30 pm

Samuel Brakeley ('10), English

Paddling the Northern Forest Canoe Trail

SESSION XVIII: AFRICAN AMERICAN STUDIES

Exploring American Cultures: Our Journeys of Discovery

4:00-6:00 PM

Diamond 145

Session Chair: Cheryl Townsend Gilkes

4:00 pm

Shylock Baloyi ('10), **Emiliano Hergenreder** ('11), **M. Masood** ('13), **Mesay Melese** ('10), **Nirakar Poudel** ('12) and **Thando Dlamini** ('13), African-American Studies

A Pakistani's Investigation on Cultural Preservation - Case Study: Gullah Culture in South Carolina

4:30 pm

Carl Richards ('11), African-American Studies

Color Lines, Shading Hughes of Class

SESSION XIX: GOLDFARB CENTER

Goldfarb Center Studies

4:15 - 5:15 PM

Whitney Room, Roberts

Session Chair: Sandy Maisel

4:15 pm

Isaac Opper ('10), Economics

FOMC Committee Members on Monetary Policy

4:30 pm

C. Lee ('11), Economics

Cyclicalities of Taxation: International Evidence

5:00 pm

Foster Huntington ('10) and **Daniel Opalacz** ('10), Science,
Technology, and Society

UAV Aerial GIS Data Acquisition

SESSION XX: RELIGIOUS STUDIES

Religious Studies Senior Projects

4:00 - 7:30 PM

Lovejoy 213

Session Chair: Carleen Mandolfo

4:00 pm

Alexander Bassett ('10)

One Wife Too Many: An Examination of the Theological
Differences Between Mainstream and Fundamentalist Mormonism

4:30 pm

Alexander Teixeira ('10)

Inerrancy in the Bible: W. A. Criswell on the book of Daniel

5:00 pm

Karthik Sonty ('10)

Emerson's American Hinduism

5:30 pm

Dana Yerigan ('10)

The Clash of Christianity and Traditional Spirituality in Africa:
Irreconcilable differences?

6:00 pm

Amanda Burgess ('10)

American Catholic in the Age of Obama: Identity, Politics,
Dialogue

6:30 pm

Rebecca Muller ('10)

Jewish Wives in Small Town America: Examining the Experiences
of Waterville's Jewish Women in the Post War Years 1945-1960

7:00 pm

Naamah Azoulay ('10)

'The Judenrat: The Ethical and Moral Implications of Their
Actions During the Holocaust'

**SESSION XXI: SCIENCE, TECHNOLOGY
AND SOCIETY**

Parker Reed, SSW

Session Chair: Jim Fleming

NSF EPSCoR Belgrade Regional History

Posters

4:00 - 4:30 PM

Erin Schnettler ('11)

Geology, Geography, and Change Over Time

Danielle Sheppard ('11)

A Case Study of Two Historic Camps on Great Pond

James Westhafer ('10)

A History of Artistic Expression in the Belgrades

***SESSION XXII: SCIENCE, TECHNOLOGY
AND SOCIETY***

UAV Demonstration Flight

4:30 - 5:00 PM

Colby Green

Session Chair: Jim Fleming

Foster Huntington ('10) and Dan Opalacz ('10)

***SESSION XXIII: SCIENCE, TECHNOLOGY
AND SOCIETY***

STS Senior Poster Presentations

5:00 - 6:00 PM

Parker Reed, SSW

Session Chair: Jim Fleming

Zach Rich ('10)

The Cost of Breathing: Air Pollution in Modern China

James Westhafer ('10)

The Maturation of the Armed Sky: A Comparison of the Progression and Development of American and German Aerial Warfare Technologies, 1914-1945

Nick Bromley ('10)

A Politically Charged Science Fiction Story

Alice Evans ('10)

Examining Alternative Medicines and Therapies: The NIH and China

Dan Opalacz ('10) and Foster Huntington ('10)

UAV Aerial GIS Data Acquisition and Colby Systems Integration

Friday, April 30

SESSION XXIV: ART

Sex in Art

9:00 - 11:30 AM

***Hurd Room, Roberts
Session Chair: Véronique Plesch***

- 9:00 am** **Virginia Robbins**, Art
Veiled Eroticism in Gothic Ivories
- 9:20 am** **Caroline Dickson** ('10), Art
Assessing Caravaggio's Homosexuality; An Examination of the Homoerotic Content in Caravaggio's Work in both Private and Religious Commissions
- 9:40 am** **Fiona Braslau** ('10), Art
Rodin's Drawings: An Erotic Obsession
- 10:00 am** **Megan Conroy** ('10), Art
Egon Schiele: Drawing His Sexual Biography
- 10:20 am** **Lindsey Anderson** ('10), Art
René Magritte and the Enigma of the Female Nude
- 10:40 am** **Katherine Gagnon** ('11), Art
Woman as Object in Consumer Culture

SESSION XXV: ANTHROPOLOGY

Anthropology: Honors and Independent Studies

10:00 - 12:00 AM

***Smith Room, Roberts
Session Chair: Mary Beth Mills***

- 10:00 am** **Audrey Jacobsen** ('10)
Health, Human Rights and Commodity: HIV/AIDS Healthcare Provision in Maine
- 10:40 am** **Hanna Pickwell** ('10)
Imagining Love in Contemporary China
- 11:20 am** **Emily Pavelle** ('10)
Tourism, Colonialism, and "Third Gender" in Pacific Island Cultures

SESSION XXVI: ENVIRONMENTAL STUDIES

Tropical Forests and Sustainable Development

10:00 - 10:50 AM

***Lovejoy 213
Session Chair: Janette Bulkan***

- Ellen Ramage** ('11)
Desertification in the Sahel
- Lauren Kerr** ('12)
Value Chains and Fair Trade

Olivia Lattanzi ('11)

Invasive Species

Hana Haver ('11)

Environmental and Human Health Threats Posed by Mercury in Gold Mining

Sam Brakeley ('10)

Tourism and the San of Southern Africa

Shannon Merrell ('10)

Effects of Tourism on Costa Rican Rainforests

SESSION XXVII: AMERICAN STUDIES

American Studies Honors Thesis Projects

10:00-12:00

Whitney Room, Roberts

Session Chair: Katherine Stubbs

10:00 am Erica Block ('10)

Race&Rock&Roll: an Analysis of Representation on Rolling Stone Magazine Covers

10:30 am Katherine Perez ('10)

Jewish American Renaissance: The role of the Jewish Blogosphere in Identity Negotiation

SESSION XXVIII: CHEMISTRY

Chemistry Senior Presentations

11:00 AM

Arey 5

Session Chair: Rebecca Conry

Brian DiMento ('10)

The Chemiluminescent Detection of Superoxide and Hydrogen Peroxide

Greg Klein ('10)

Optimization of a 2D LC/SFC Interface Build

Elizabeth Disney ('10)

The Effect of Antibiotics on the Conjugation Frequency of *Aeromonas salmonicida* subspecies *salmonicida*

SESSION XXIX: GERMAN

German Studies Senior Seminar: Identities and Ideologies

12:15 - 1:45 PM

Smith Room, Roberts

Session Chair: Arne Koch

12:15 pm Ross Nehrt ('10)

Film und Text als Darstellungen widerstreitender VerantwortungsgefÃ¼hle (Film and Text as Representations of Conflicting Feelings of Responsibility)

12:45 pm Susannah Hufstader ('12)

Trennung, Absonderung und IndividualitÃ¤t in Grillparzers 'Der arme Spielmann'

(Separation, Isolation, and Individuality in Grillparzer's 'The Poor Fiddler')

1:15 pm **Joshua Connell** ('10)

Gewalt in 'Die Verlorene Ehre der Katharina Blum' (Violence in 'The Lost Honor of Katharina Blum')

SESSION XXX: ECONOMICS
Economics Honors Presentations
12:30 - 2:30 PM

Hurd Room, Roberts
Session Chair: Patrice Franko

12:30 pm **Robert Knipp** ('10)

Emissions Trading

1:00 pm **Loredana Popescu** ('10)

Continuity of Foreign Direct Investment - Determinants and Effects on Growth

1:30 pm **Mesay Melese** ('10)

Foreign Direct Investment in Ethiopia: Determinants and Effects

2:00 pm **J. Delhy Nolivos** ('10)

Central Bank Independence and Fiscal Dominance

SESSION XXXI: AMERICAN STUDIES
American Studies Senior Seminar
12:30 - 3:00 PM

Whitney Room, Roberts
Session Chair: Margaret McFadden

12:30 pm **Lamont Henry** ('10)

Why Can't She Have It?

12:45 pm **Marcus BoisAubin** ('10)

Interracial Dating in Spike Lee's Concrete Jungle: An Analysis of Interracial dating Between Black Men and White Women In Spike Lee's Jungle Fever

1:00 pm **Erica Block** ('10)

The Virgin/Whore Dichotomy: Female Sexuality in Spike Lee's 'Crooklyn'

1:15 pm **Katherine Perez** ('10)

White Presence through Absence in Spike Lee's 'School Daze'

1:30 pm **Matthew Von Vogt** ('11)

Spike Lee's Clockers: A New Vision For Black Cultural Space

1:45 pm **Michael Talarico** ('11)

The 25th Hour: Accountability in a Post 9/11 Society

2:00 pm **Brett Souza** ('11)

Spike Lee's 'Inside Man': A New Auteurial Direction

2:15 pm **Hannah Kim** ('10)

More at Home in Facist Italy

SESSION XXXII: BIOLOGY

Biology Honors & Independent Studies Presentations

1:00 - 3:30 PM

Olin Room 1

Session Chair: Russell Johnson

1:00 pm **Seth Johnson** ('10)

External Sensory Organ Expression of D-Pax2 is Activated through Two Temporally Distinct Enhancers

1:15 pm **Colin O'Shea** ('10)

The Differential Roles of D-Pax2 Variants in Regulating *Drosophila* Eye and Bristle Development

1:30 pm **Catarina Ruksznis** ('10)

The Effects of Melatonin on the Circadian Rhythm of the Zebrafish (*Danio rerio*) Innate Immune Response

1:45 pm **Corey Martin** ('10)

Variable Phagocytosis of Gram-positive and Gram-negative Bacteria by Zebrafish (*Danio rerio*) Leukocytes

2:00 pm **Adam SanMiguel** ('10)

A Comprehensive Characterization of the *Aeromonas salmonicida* IncA/C Plasmid Conjugation System

2:15 pm **Benjamin Keyser** ('10)

The Wheat bZIP Factor, TaABF1, Mediates ABA-induced Gene Expression in Bombarded Barley Aleurone Layers.

2:30 pm **Lauren Harris** ('10)

The role of TaABF1 in abscisic acid-mediated suppression of α -amylase gene expression in cereal grains

2:45 pm **Steven Armbrust** ('10)

Vegetation Recruitment of a Restored Habitat Linkage in Tropical North Queensland: A Follow Up Study

SESSION XXXIII: PSYCHOLOGY

Psychology Honors Presentations

1:00-3:00 PM

Roberts 223

Session Chair: Thane Pittman

1:00 pm **Darshini Mahadevia** ('10)

Modulation of Hippocampal Development as a Function of Prenatal Choline Supplementation and Ethanol Exposure

1:30 pm **Alexandra Wesnousky** ('10)

I'm Really, Really Bad at Math: Competition and Self-verification Theory

2:00 pm **Anna Kelemen ('10), Jessica Bond ('10), Hilana Bernheimer ('10) and Meredith Tumilty ('10)**

An Investigation of Contextual and Personal Factors for Kindergarten Literacy Development

2:30 pm **Chelsea Stillman ('10)**

The Effects of Aging on the Survival Processing Advantage in Memory

SESSION XXXIV: RUSSIAN STUDIES

CBB-USM Russian Student Symposium

2:00-4:00 PM

Lovejoy 215

Session Chair: Julie de Sherbinin

2:00 pm **Larissa Levine ('10)**, German/Russian

Nihilism and Nature in Turgenev's Fathers and Children

2:15 pm **Craig Zevin ('11)**, German/Russian

"The Paradox of Similarity in Difference in Turgenev's Fathers and Children"

2:30 pm **Rebecca Chenard ('12)**, German/Russian

"'Flying Fish' and other Birds: Avian Imagery in Turgenev's Fathers and Children"

2:45 pm **Jennifer Dahnke ('10)**, German/Russian

Confinement and Escape in Nabokov's Invitation to a Beheading

SESSION XXXV: GOVERNMENT

Government Senior Thesis Presentations

3:00 - 5:30 PM

Diamond 122

Session Chair: Joseph Reisert

3:00 pm **Zachary Ezor ('10)**

Family Ties: Mainstream Environmentalists' Understanding of Radical Environmentalism in America

3:30 pm **Emma Hall ('10)**

Sinn Fein's Symbolic Framework: Social Movement Theory and the Irish War of Independence

4:00 pm **Andre Rougeot ('10)**

Conditions for Containment

4:30 pm **Haolu Wang ('10)**

The Impact of Civil Society on Democratization in China

5:00 pm **Fiona Sheridan-McIver ('10)**

Latin Catholic Political Culture and Voluntary Association in Spain

5:30 pm **Nicholas Bromley ('10)**

The 'Lunatic Fringe': Barry Goldwater and the Conservative Revolution of the 1960s.

SESSION XXXVI: CHEMISTRY
Chemistry Senior Presentations
3:00 PM

Keyes 105
Session Chair: Rebecca Conry

Adam Paine ('10)

Patterns of Apoptotic Poly (ADP-ribose) Polymerase-1 Cleavage Induced by Laromustine and its Analogs

Austin Lee ('10)

TBA

Mike Baldwin ('10)

The Analysis of Bioavailable Copper Using Desferrioxamine-B Based Ligand Extraction and Inductively Coupled Plasma Emission Spectroscopy

Eric Braunstein ('10)

Analysis of the Electron Withdrawing Capability of Acetylene Groups for Nucleophilic Aromatic Substitution

**SESSION XXXVII: WOMEN'S GENDER AND
SEXUALITY STUDIES**
WGSS Senior Seminar
3:00 - 5:00 PM

Whitney Room, Roberts
Session Chair: Lisa Arellano

3:00 pm Amy Weston ('10)

Cosmonette: How the Space Race Informed American Gender Construction in the 1960s

3:13 pm Maya Steward ('10)

the Hook-Up: the Theology and Reality of Sexual Behavior at Colby College

3:30 pm Leigh Bullion ('10)

'Difficulty with duality': Batman and Masculinity

3:45 pm Sarena Maron-Kolitch ('10)

Raising Young Feminists in a Contemporary World

4:00 pm Cynia Barnwell ('11)

America's Children: The Re-infantry of Female Prisoners

4:15 pm Alison Iannotti ('11)

Gender and Race Discrimination in Sports

4:30 pm Jessica Bushee ('11)

'The One' is the Loneliest Number: A Deconstruction of Contemporary Love and Relationships through Reality TV Romance

SESSION XXXVII: ECONOMICS
Economics Honors Presentations

Hurd Room, Roberts
Session Chair: Patrice Franko

3:00 - 5:00 PM

3:00 pm **Isaac Opper** ('10)

Conflict and the Will to Win

3:30 pm **Robin Daley** ('10)

Determinants of Credit Ratings for U.S. Private Colleges and Universities

4:00 pm **Nicholas Van Niel** ('10)

Revitalizing the Signaling Power of Class Rank at Colby College

SESSION XXXIX:

General Session

3:00 - 6:00 PM

***Smith Room, Roberts
Session Chair: Clement Guthro***

3:00 pm **Maureen Dunn** ('10), Psychology

Mild Traumatic Brain Injury and Advancements in Concussion Management

3:30 pm **Kathleen Minton** ('10), Anthropology

Understanding the Mental Healthcare System for Refugees in Lewiston

4:15 pm **Amelia Swinton** ('10), Latin American Studies

Migration, Food and Cultural Production Across Changing Afro-Ecuadorian Geographies