

SCHEDULE OF EVENTS

RECOGNITION WEEKEND

MAY 7/8, 2010

FRIDAY, MAY 7

9:00 A.M. - 5:00 P.M.

The Charles Proteus Steinmetz Symposium Presentations on student creative, scholarly and research achievement. Programs and information are available in the Arts Atrium, just inside the north entrance to Social Sciences and just inside the entrance to the Olin Building.
Student presentation sessions begin at 9:00 a.m.

1:00 P.M. - 4:00 P.M.

Becker Career Center Open House
Becker Career Center

6:30 P.M.

Steinmetz Symposium Banquet
Upperclass Dining Hall
For Symposium presenters, their parents, guests, and faculty sponsors

8:00 P.M.

The Union College and Community Orchestra and Choir
Memorial Chapel
"Steinmetz Concert 2010"

SATURDAY, MAY 8

11:00 A.M. - 12:30 P.M.

Prize Day
Memorial Chapel

12:30 P.M. - 1:30 P.M.

Prize Day Reception
Reamer Campus Center Patio

1:00 P.M. - 2:00 P.M.

Union College Jazz Ensemble
Taylor Music Center
Fred L. Emerson Foundation Auditorium

The C-Store will be open:

Friday from 8:45 a.m. – 11:00 p.m.
Saturday from 10:30 a.m. – 11:00 p.m.
Sunday from 4:00 p.m. – 11:00 p.m.

The Nott Memorial will be open:

Friday from 10:00 a.m. – 6:00 p.m.
Saturday from 10:00 a.m. – 6:00 p.m.
Sunday from 10:00 a.m. – 6:00 p.m.

The Bookstore will be open:

Friday from 8:45 a.m. – 6:30 p.m.
Saturday from 10:30 a.m. – 3:30 p.m.
Sunday closed

Schaffer Library will be open:

Friday from 8:00 a.m. – 10:00 p.m.
Saturday from 10:00 a.m. – 10:00 p.m.
Sunday from 10:00 a.m. – 2:00 a.m.

Art History

Visual Arts 215

Moderator: David Ogawa

9:00 | LISA CRESCENZO | Art Collector's Gift

Biochemistry I

Olin 115

Moderator: Brian Cohen

9:00 | DOMINICK CENTURIONI | The Study of Membrane Microdomains Using Atomic Force Microscopy

9:20 | MARIA DZIALO | Characterization of a putative caveolin interaction motif in the human follicle stimulating hormone receptor

9:40 | DILLON BETANCOURT | Cloning and Expression of a putative metacaspase from *Schizophyllum commune*

10:00 | HUIQING ZHENG | Cloning and Expression of a type I metacaspase from *Schizophyllum commune*

Biological Sciences I

Bailey 207

Moderator: Leo Fleishman

9:00 | ISAIAH BUCHANAN | Isolation of PAF49 from *E.coli* for the creation of Anti-bodies

9:20 | PATRICK O'HERN | Investigation of Ppt1 RNAi induced knock-down during *Drosophila* Neurogenesis

9:40 | AMY FRANKENTHALER | An Analysis of 1 year versus 3 month alpha-Interferon Treatment in Patients with Melanoma Stages IIB, IIC, and IIIA

10:00 | LEAH ROBISON | Developmental regulation of caspases in the colonial protochordate *Botryllus schlosseri*

History I

Social Sciences 014

Moderator: Mark Walker

9:00 | RICHARD PAIKOFF | Searching for a Soul: Exploring the Heritage of the Don Cossacks

9:20 | HARRY AARON | The Greek Experience in World War Two

9:40 | MATTHEW ROHRS | History of the German Automobile Industry

10:00 | DANIEL BARRINGER | Virtual History: The Battle of Agincourt

Classics I

Humanities 112

Moderator: Mark Toher

9:00 | JAMESON DUNNE | Emetos- Vomit in Ancient Medicine

9:20 | SUZANNE ESTOK | Jealousy between Gods and Mortals in Ovid's Metamorphoses

9:40 | AMELIA ABBA | The Uses of Barley and Pomegranate in Ancient Greek Medicine

10:00 | ANDY DONNELLY | Agamemnon's Status in the Iliad

Economics I

Social Sciences 017

Moderator: Lewis Davis

9:00 | JEREMY FRITZHAND & AMANDA JUDSON | Social Entrepreneurship: A Minerva Fellowship - 10 Months in Bagru, India

9:20 | JOHN MARA | Labor Market Outcomes of Human and Social Capital Accumulated in College

9:40 | JOHN MAHLSTEDT | Brand Name and Generic Pharmaceutical Price Behavior as Relating to Price Insensitive Market share and Substitutability: A Closer Look at the Generic Competition Paradox

10:00 | POOJA DAVE | Does Racial Disparity in Healthcare Still Exist?

Chemistry

Olin 106

Moderator: Jim Adrian

9:00 | VALERIE ANGELL | New Methods for Preparing and Testing Libraries of Pyrrolidine-Triazole Organocatalysts

9:20 | RACHEL GRAY | Progress Toward an Organo-Catalyzed Multiple Component Reaction

Latin American and Caribbean Studies

Humanities 019

Moderator: Lorraine Morales-Cox

9:00 | KATHARINE MEYER | The Influence of Folk Art and the Rise of Nationalism in Mexican Art of the Post-Revolutionary Period

9:20 | DEANNA COX | The Silenced Finally Speak: Afro-Descendant Brazilian Women

9:40 | KELLY LOPEZ | Transnational Women: The Dominican Migration of Women to the U.S.

Mathematics I

Bailey 201

Moderator: Christina Tonnesen-Friedman

- 9:00 FOYROJ KABIR
- 9:20 MOLLY MAGUIRE
- 9:40 BENJAMIN MILES
- 10:00 ANDREW TRELEASE

- Differentiable Manifolds
- Euler's Method to Solve Spherical Triangles By Means of Calculus
- Groups Written as Unions of Proper Subgroups
- A Musician's Guide to Prime Numbers

Mechanical Engineering I

Science & Engineering Center N205

Moderator: Ashok Ramasubramanian

- 9:00 KATHLEEN PHELAN
- 9:20 MATTHEW FULGHUM
- 9:40 DAVID SMOOT
- 10:00 TODD HERMAN

- The engineering in roadkill prevention: what role does it play, and how effective has it been?
- Design of a Planar Laser-Induced Fluorescence Testbed for Combustion Analysis
- The Study of Memristor Properties
- Investigation of the Mechanical Strength of Flexible Solar Nanocomposites

Mohawk and Watershed Issues

Olin 307

Moderator: Jaclyn Cockburn

- 9:00 VERA ASHLEY KOVACK
- 9:20 NICOLE REEGER
- 9:40 WILLIAM SCHOENDORF

- Thermal characteristics of the Schoharie Creek and its role in the reintroduction of Brown trout (*Salmo trutta*)
- A tree-ring record of slope stability along Sandsea Kill, Schenectady County, NY
- Effects of Storm Intensity and Duration on Event Response in the Urban Watershed

New Perspectives on Asian Studies

Social Sciences 012

Moderator: Joyce Madancy

- 9:00 SEONG CHEOL MIN
- 9:20 CASEY SHERIDAN
- 9:40 SARAH TARDIFF
- 10:00 CAMILLE MORI

- Korean Nationalism
- The Land Where the Sun Refuses to Set: Japanese Conglomerates Before and After World War II
- Never Underestimate the Power of Denial: China's Inadequate Response to Uighur Marginalization and the Riots of 2009
- Shingon Buddhism: The Origins of Tantric Buddhism in China and its Transmission to Japan

Passions Françaises and Francophones

Humanities 014

Moderator: Charles Batson

- 9:00 ERIN BLIGH
- 9:20 ANDREW PHILBIN

- La sexualité dans le film francophone/Sexuality in Francophone Film
- French Nationalism and Football

Psychology I

Bailey 312

Moderator: Ken DeBono

- 9:00 KATHARINE DAVIS
- 9:20 MEGAN HYNDMAN
- 9:40 ELIZABETH RYAN
- 10:00 HANNAH SCHOENBACH

- Taking Responsibility: The Effect of High Self-Accountable Emotions on Risky Drinking Behavior
- Role-Playing Games and Self-Perception
- The Idealized Female Image in the Media Impacts Women's Overall Mood
- The Inconsistencies of Our Minds: The Effects of Cognitive Dissonance on Moral Judgment

Renewable Energy

Science & Engineering Center N304

Moderator: Richard Wilk

- 9:00 GARETH LEWIS
- 9:20 KATIE SOFIA
- 9:40 ADAM WINSLOW

- Development of a Sun-Tracking System for Solar Modules
- Analysis and Design of a Small-Scale Vertical Axis Wind Turbine
- Enhancement of Solar PV System Performance by Incorporating Thermal Energy Recovery

Sociology I

Social Sciences 016

Moderator: Melinda Goldner

- 9:00 KAREN CHAN
- 9:20 ELINA MERAS
- 9:40 SHARY PARRA
- 10:00 ANDREW MAK

- Traditional Chinese Medicine in China and the United States: A Focus on American Institutionalization
- Health Care Reform: Physicians' Outlook on the Future of Medical Care
- Coping with Childhood Cancer in the Latino Community Through the Eyes of the Patient, Parents, and Siblings
- From "Yellow Peril" to "Ghetto Asians": Contemporary Portrayals of Asian and Asian American Men in American Mainstream, Independent, and Erotic Cinema

Anthropology I

Social Sciences 014

Moderator: Jeffery Witsoe

- 10:30 | **MELISSA MCDONALD** | Changing Classrooms and Changing Communities: Cultural Adjustments for Refugee students and Citizens
- 10:50 | **SARA MARK** | Environmental Racism: A Case Study of the Chevron Texaco Oil Refinery and the people of Richmond California
- 11:10 | **JULIE LICHTBLAU** | A New Approach to Combating Poverty: Insight Into Politically Active Nonprofit Organizations
- 11:30 | **NATALIE AZZOLI** | Religious Identity and Culture- Secular Judaism at Union College

Biological Sciences II

Bailey 207

Moderator: Steven Rice

- 10:30 | **MEREDITH NEARPASS** | The Investigation of the Function of Plasma Membrane Domains in Follicle Stimulating Hormone Signal Transduction
- 10:50 | **JOHN PETERS** | Relation of Microdomain Residency to the Function of the Follicle Stimulating Hormone Receptor
- 11:10 | **GENEVIEVE ST. HILAIRE** | Quality Versus Quantity: Serum AMH Levels Predict Oocyte Viability and Pregnancy Success in Women Undergoing IVF
- 11:30 | **ALAN ZULICK** | Does xanthophyll cycling protect the moss *Pleurozium schreberi* from the damaging effects of excess light?

Chemical Biology

Olin 106

Moderator: Joanne Kehlbeck

- 10:30 | **ZACHARY SMITH** | Fractionation and identification of biologically active compounds from *Paulownia tomentosa* using LC-MS/MS
- 10:50 | **RACHEL EASTMAN** | Investigating Anthelmintic Compounds in *Paulownia Tomentosa*
- 11:10 | **JACLYN KROLICK** | Investigation of a Novel Molecular Transporter Containing the Guanidinium Moiety

Classics II

Humanities 112

Moderator: Stacie Raucci

- 10:30 | **NORAH FRIAR** | Bloodletting: From Hippocrates to Galen
- 10:50 | **RACHEL GRAY** | Following Virgil's Legacy: the Story of Ascanius
- 11:10 | **JOHN MCDANIEL** | Pudor in Ovid's Metamorphoses
- 11:30 | **M. DANIELLE MENDIOLA** | Hetaera, Pallake, Aste and Priestess: Degrees of Women's Freedom in Ancient Athens

Economics II

Social Sciences 017

Moderator: Younghwan Song

- 10:30 | **BENJAMIN MELTZER** | The Economic Crisis in Hungary: Its Roots and Origins
- 10:50 | **JONATHAN LAREAU** | Do lower salaried workers choose more expensive retirement funds?
- 11:10 | **F. WILLIAM PINKSTON** | What does AlcoholEdu do?
- 11:30 | **ANIL AKOON** | The Lost Fat Paycheck: The Trend of Obesity's Wage Penalty Over Time in the U.S
- 11:50 | **MOOSA HAIDER** | Adolescent Cigarette Access: Smoking Prevention Through Development of a Parental Production Function

English I

Humanities 014

Moderator: Claire Bracken

- 10:30 | **EMILY BURGESS** | Re-representing Identity in the Harlem Renaissance: Reading Poetry with Respect to the Visual Arts
- 10:50 | **IAN CLEMENTE** | A Bridge Between Mind and Muse: Applying Creative Writing to Philosophic Discussion
- 11:10 | **THOMAS FAGIN** | A Dialogue With The Other: Portrayal of Immigrants In Roddy Doyle's Deportees
- 11:30 | **COURTNEY FOSTER** | Mutation and Proliferation of the Grotesque in the Works of Charles Dickens (Oliver Twist, The Old Curiosity Shop, and Great Expectations)
- 11:50 | **BRIDGET JAMESON** | Political Children's Literature: Informing and Socializing America's Youth

Energy Studies

Olin 307

Moderator: George Shaw

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|-------|-----------------------|---|
| 10:30 | JEFF COOMBS | The Politics of the Alberta Oil Sands |
| 10:50 | RIVKA FIDEL | The Environmental Impacts of Alberta's Tar Sands Operations |
| 11:10 | NATALIE KONCKI | Alberta Oil Sands: Industry |
| 11:30 | MARK KRISANDA | Local Population dynamics with the Athabasca Oil Sands Industry |

France and Beyond

Humanities 008

Moderator: Cheikh Ndiaye

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|-------|-----------------------|--|
| 10:30 | MARISSA GAINES | The Complexities of Illegal Immigration to France |
| 10:50 | MOLLY MERZ | La vie et la lutte des femmes antillaises/ The Life and Fight of Women in the French Caribbean |
| 11:10 | MATTHEW ROHRS | Sugar Cane's Influence on Martiniquian History |

Geology I

Olin 306

Moderator: John Garver

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|-------|-------------------------|---|
| 10:30 | NICHOLAS MCTURK | The development of unusual rock weathering features in granodiorite boulders on late Quaternary moraines in the Cordillera Blanca of central Peru. |
| 10:50 | BENJAMIN CARLSON | Timing of movement on the Burtonville Landslide, Schenectady County NY |
| 11:10 | JOSEPH WOLD | Laramide uplift of the Bighorn Mountains revealed through Detrital Zircon in the Powder River Basin, Wyoming |
| 11:30 | LEONARD ANCUTA | U/Pb and Fission track dating of detrital zircon from the Paleogene Kootznahoo Formation, southeastern Alaska: implications for exhumation and transport of adjacent terranes |

Music

Taylor Music Center - Emerson Hall

Moderator: Tim Olsen

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|-------|----------------------------|---|
| 10:30 | MICHAEL DEL VECCHIO | How To Put Out An Album |
| 10:50 | MAX JACK | Culture, segregation, and the achievement gap in Albany High School |
| 11:10 | YU CHEN | A Taste of Chinese Folk Songs |

Mathematics II

Bailey 201

Moderator: Jue Wang

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|-------|--------------------------|--|
| 10:30 | PETER BONVENTRE | How Sweet It Is: An Analysis of the "Sweet Spot" of a Baseball Bat |
| 10:50 | TOMAS KOURIM | Boundary Segmentation in Ultrasound Images |
| 11:10 | ERIN WHITNEY | Discovery of Incommensurables |
| 11:30 | MATTHEW ZAWODNIAK | What is a Topos? |

Mechanical Engineering II

Science & Engineering Center N205

Moderator: Ann Anderson

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|-------|-----------------------|---|
| 10:30 | COLLIN DOYLE | Aerogel Heat Shield Tiles for Space Shuttle Applications |
| 10:50 | MICHAEL WAKITA | Redesigning the Spray Nozzle and Canister of Pepper Spray Bear Deterrent |
| 11:10 | SARAH SCHINASI | Racing Shell Drag Reduction Using Films Fabricated from Superhydrophobic Aerogels |
| 11:30 | RYAN SKEUSE | Design of 2010 Union College Mini Baja Suspension System |

Nanotechnology

Olin 115

Moderator: Michael Hagerman

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|-------|-------------------------|--|
| 10:30 | KENNETH SKORENKO | Ice Templated Laponite Nanostructures |
| 10:50 | ADAM KOWALSKI | Mophosynthesis of Conductive Polymer Polyaniline for Solar Cell Applications |
| 11:10 | SANGIN LEE | Electrospinning of PEO/Laponite Nanofibrous Networks |
| 11:30 | MEGAN WEILL | Properties of Zinc Oxide and Laponite Nanomaterials |
| 11:50 | BERNADETTE PEACE | Atomic Force Microscopy of a Polymer-Based Solar Cell |

Physics

Science & Engineering Center N304

Moderator: Rebecca Surman

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|-------|-------------------------|--|
| 10:30 | BENJAMIN MILES | Laser Cooling Krypton for Atom Trap Trace Analysis |
| 10:50 | DANIEL BARRINGER | Neutron Capture Rates and the r-Process Abundance Pattern in Shocked Neutrino-Driven Winds |

Political Science I

Social Sciences 012

Moderator: Bradley Hays

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|-------|-----------------------|--|
| 10:30 | CLAIRE CHAZEN | Civic Engagement; The Union College
Schenectady Story |
| 10:50 | ARIA WALFRAND | Gender Bias in American Asylum Law |
| 11:10 | ELYSE VAN PELT | Media's Rapid Change from Print to Online |
| 11:30 | ERIN BLIGH | Growing Communities: A Roots and Wisdom Study |

Social Movements in Contemporary Latin America

Humanities 019

Moderator: Teresa Meade

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|-------|--|---|
| 10:30 | SERGIO AZCONA | Into the Mines: Cultural Consciousness and Survival
in Bolivia |
| 10:50 | CUTTER SHELBY &
CASSANDRA SKOUFALOS | The Mothers of Plaza de Mayo |
| 11:10 | YIRAN ZHANG | City of Change: Buenos Aires in the 21st Century |

Sociology II

Social Sciences 016

Moderator: Janet Grigsby

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|-------|-------------------------------|---|
| 10:30 | LORI CASSORLA | The Influence of Advertisements on Childhood
Obesity: a content analysis of television commercials
during prime-time cartoons |
| 10:50 | LISA MCMANUS | Prostitution and Impersonal Sex: Does money make
a difference? |
| 11:10 | ALEXANDRIA NUNEZ-BIBBY | Untangling the Relationship between Hair and Self-
Esteem: the View of Young African American Women |
| 11:30 | EMILY FELD | College females pursuing demanding careers: An
analysis of sociological factors affecting women's
career commitment |
| 11:50 | TAMARA LINDE | The Image of Beauty Through Time |

The Psychology of Attitudes

Bailey 312

Moderator: George Bizer

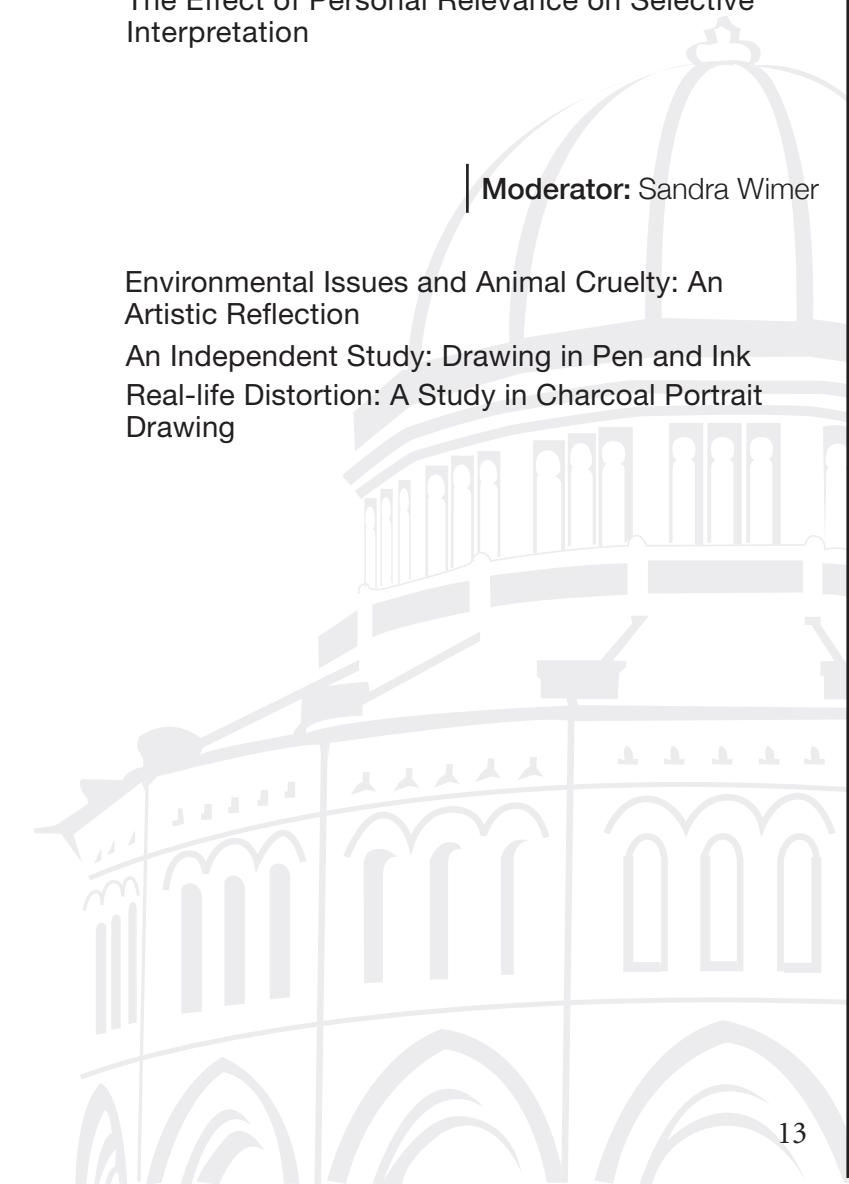
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|-------|------------------------|--|
| 10:30 | JAMIE LUGURI | The impact of gender of political candidates: How
framing affects perceived candidate competency,
viability, and characteristics |
| 10:50 | MICHELLE RUSSO | Attitudes towards intermarriage |
| 11:10 | GABRIEL HARRIS | Price-Quality Relationship and Self Concept: Does
self-monitoring affect the way people perceive the
quality of a product because of differences in price? |
| 11:30 | KATHARINE SMIDT | Taste Preferences Amongst High and Low Self-
Monitors: Effects of Descriptive and Foreign
Sounding Product Names |
| 11:50 | SAM RINGEL | The Effect of Personal Relevance on Selective
Interpretation |

Visual Arts

Visual Arts 215

Moderator: Sandra Wimer

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|-------|-----------------------|--|
| 10:30 | VASYL HEREHA | Environmental Issues and Animal Cruelty: An
Artistic Reflection |
| 10:50 | MIA SIMONE | An Independent Study: Drawing in Pen and Ink |
| 11:10 | BIANCA GERMAIN | Real-life Distortion: A Study in Charcoal Portrait
Drawing |



Poster 1

Beuth House - 12:20 - 1:50

Moderator: Mary Carroll

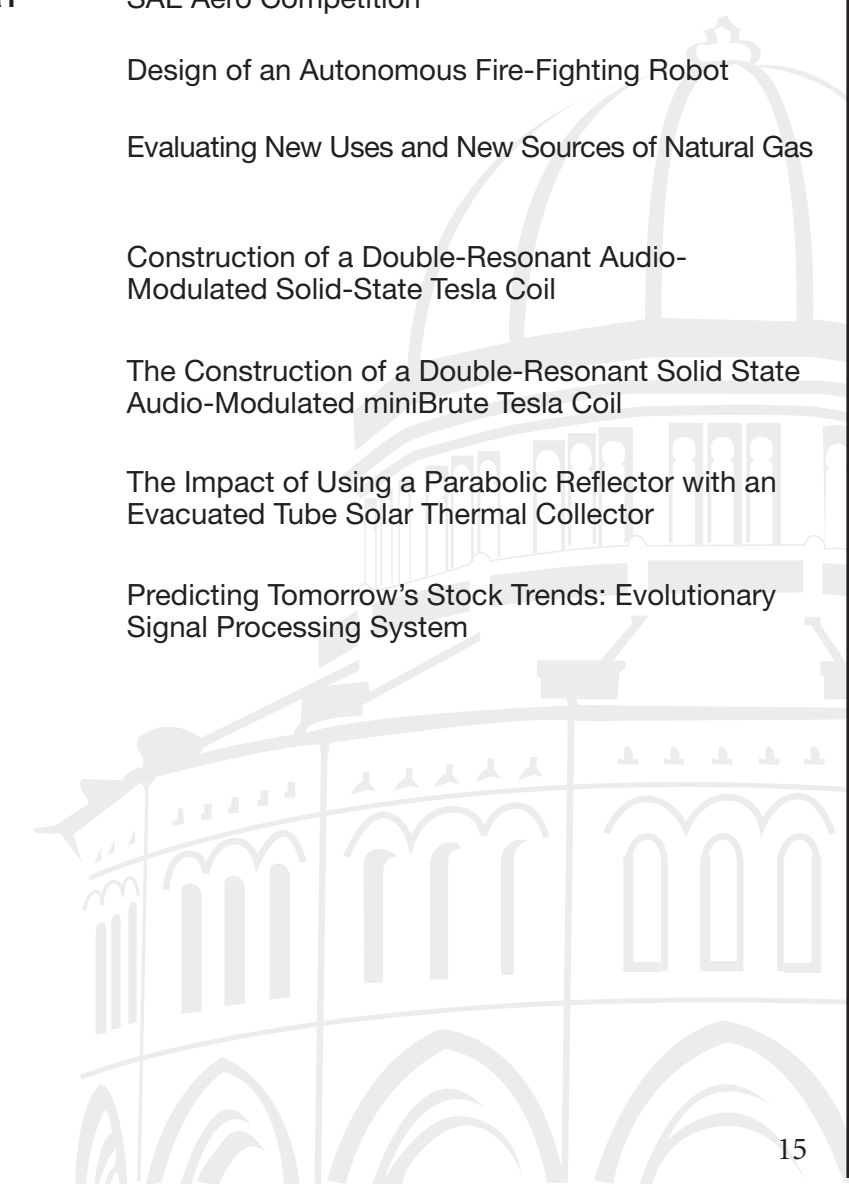
SEAN FITZGERALD	Color Polymorphism in <i>Plethodon cinereus</i> : A Study of melanocortin-1-receptor, MC-1-R
DANIELLE KREIG	Culinary Chemistry: The Science of Chocolate
CLANCY SLACK	NMR Monitored Kinetics for use in an Undergraduate Curriculum
JOHANNAH RYAN	Red Is The New Green: Color Expression of Cobalt, Copper, and Iron Pigments on Pottery Surfaces
MATTHEW WILK	Platinum Chemotherapy Drugs
REBECCA LEE	The Effects of High Temperature on Hydrophobic Silica Aerogels
LEIGH MANLEY	Superhydrophobic Silica Aerogels
ZACHARY RITTNER	Determining the suitability of habitat for the Karner Blue Butterfly by evaluating forage quality using chlorophyll fluorescence
RYAN SMITH	Factors influencing habitat choice in the lizard <i>Anolis sagrei</i>
EMILY FELDMAN	The Impact of the trial of Adolf Eichmann on the Argentinean Jewish Community and the Israeli Jewish Community

Poster 2

Beuth House - 12:20 - 1:50

Moderator: James Hedrick

CARLEY JACOBSON	Object Grouping in a Drawing Program
KRYSTLE GALLO	Dance Mechanics: A Study of the Biomechanical Forces Endured by a Dancer
LAUREN B. BROWN	Fabrication of Titania and Titania-Silica Aerogels Prepared Using Rapid Supercritical Extraction
CHRISTOPHER PILLSBURY	SAE Aero Competition
MICHAEL FITZPATRICK	Design of an Autonomous Fire-Fighting Robot
DREW MCCONNELL	Evaluating New Uses and New Sources of Natural Gas
JACOB LAROCCA	Construction of a Double-Resonant Audio-Modulated Solid-State Tesla Coil
ANDREW PERSSON	The Construction of a Double-Resonant Solid State Audio-Modulated miniBrute Tesla Coil
REBECCA SLOSBERG	The Impact of Using a Parabolic Reflector with an Evacuated Tube Solar Thermal Collector
DAVID BROWN	Predicting Tomorrow's Stock Trends: Evolutionary Signal Processing System



Returning Minerva Fellows

Olin Rotunda - 12:20 - 1:50

Moderator: Tom McEvoy

MIKE EISENMAN
NED LINCOLN
NATE SASLOW
ANDREW SCAPLEN
J. M. JONES
MONICA ROWETT
LYNDSAY WEHRUM
TOM PERRY

Tales and Photos from Cambodia, Uganda, Uruguay, South Africa, China

MINERVA COURSE: FOOD

Beuth and Golub Houses - 12:20 - 1:50

Moderator: Suzie Benack

JORDAN C. ADEY
GAIL Z. AIKEN
RACHEL B. COHEN
MADELEINE I. CULLERTON
CORY P. GIONET
NICOLE R. HENNINGS
DANIELLE F. HOROWITZ
TIFFANY C. IPPOLITI
NICOLE D. LITVACK
SARAH M. MARCHAND
JOSEPH A. PRICE
HASANUR RAHMAN
HILLARY C. ROHBACK
KONSTANTIN AVDASHCHENKO
MICHELLE RUSSO
AMANDA I. SAMUELS
JASON B. SHAFFER
JESSICA S. SINGER
HARITHA SISHTLA
TAMARA M. STONE
SCOTT L. SWARTZ
SHAWNAGAN TANGNAVARAD
CHANDNI V. VAID
MICHAEL H. WAKITA

Groups of students from the Minerva Course (Food) will present posters about African, Spanish, French, Japanese, Thai, and Greek cuisine and have available food from this cuisine that they have prepared.

Poster 3

Golub House - 12:20 - 1:50

Moderator: Joyce Madancy

ANTHONY SAVAGLIO
EMILY BLUTH

Commodore Perry and Early American-Japanese Relations
The Contrasting Views and Concept of an Afterlife in World Religions

Poster 4

Golub House - 12:20 - 1:50

Moderator: Chad Orzel

TYLER IZYKOWSKI
ELIZABETH MORGAN
JONATHAN GRIFFITH
TYLER IZYKOWSKI
COLIN GLEASON
CHARLES HARRINGTON
PETER BONVENTRE
SHIVANI PATHAK
MARIA BATTAGLIA
SREYNOCH CHIN
AMER KHRAISAT
JARGALSAIKHAN DULMAA

Sediment transport and deposition processes in dynamic hydroclimate environments: Schenectady County, NY

Reconstructing Deglaciation Processes at Tangle Lakes, Central Alaska Range, Alaska Using Ground Cover and Substrate Mapping

Tilting of Lake-Lining Trees at Stauffer Lake in Saskatchewan's Churchill Watershed

Fault geometry of extension in the Kodiak accretionary complex, Narrow Cape, Alaska

Particle Induced X-Ray Emission Analysis of Atmospheric Aerosols Collected in Upstate New York
Elemental Concentrations as a Function of Particle Size for Aerosol Samples Collected in Upstate New York from PIXE

Preparation and Analysis of Porous Silica
Use of PIXE to Determine Mercury Concentration in Crematoria Emissions

Trace Elemental Composition, Concentration and Seasonal Variation in New York Rainwater and Snow Samples Using the Union College Pelletron Particle Accelerator and Proton Induced X-ray Emission Spectroscopy

ALFALFA HI Observations Of The NGC 5846 Galaxy Group

Melting Behavior of n-Decane and 1-Decanol inside Nanoporous Silica

Comparison of melting behaviors of physically restricted 1-Decanol and 2-Decanol inside Nanoporous Silica

Anthropology II

Social Sciences 014

Moderator: Linda Cool

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|------|-------------------------|--|
| 2:00 | KATHRYN KRAKOWKA | Unraveling the Secrets of the Hook Up Culture: A Biological and Cultural Analysis of Casual Sex Among College Students |
| 2:20 | MARIA TSVETKOVA | Bilingualism: Building Towards an Intercultural Identity |
| 2:40 | BRIAN ROSENBLATT | Ensuring Lifelong Creativity: Artists in Academe |
| 3:00 | LAURA SCHWARTZ | Moral Relativism: The Implications of a Philosophical Analysis for the Anthropologist |

Biochemistry II

Olin 115

Moderator: Stephen Horton

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|------|-----------------------|--|
| 2:00 | NIKHIL KOTHARI | Progress towards the construction of a "knockout-ready" strain of the mushroom fungus <i>Schizophyllum commune</i> |
| 2:20 | VIRGINIA SACK | DNA-Based Testing of Genetic Disease in Domesticated Dogs |

Biological Sciences III

Bailey 207

Moderator: Scott Kirkton

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|------|------------------------------|---|
| 2:00 | KEVIN STEFANI | Variations in MC1R and Color Polymorphisms in <i>Plethodon cinereus</i> |
| 2:20 | MATTHEW SANTA BARBARA | Effects of Fecundity on Grasshopper Jumping Performance |
| 2:40 | MARY SWIFT | Lactate Metabolism in the Jumping Muscle of the American locust |

English II

Humanities 014

Moderator: Claire Bracken

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|------|-------------------------|--|
| 2:00 | CRISTINA LIQUORI | Woolf, Le Guin and Winterson: Androgyny as a Literary Strategy in Twentieth Century Women's Writing |
| 2:20 | LAUREN RANDALL | The Rhetoric of Change: Exposing the Prose of America's Activist Food Writers |
| 2:40 | SAMANTHA ZAYAS | Poetry and Pedagogy |
| 3:00 | LILLIAN MARTO | Literary Seduction & Abandonment in the Late Eighteenth through the Early Twentieth Century American Novel |

Economics III

Social Sciences 017

Moderator: Tomas Dvorak

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|------|----------------------|--|
| 2:00 | KENRICK LIU | Hyperinflation in Zimbabwe: Case Study and Analysis of Money Velocity |
| 2:20 | SEAN GORSKI | Quantifying Capital Overhang in the United States Housing Market and its Impact on Future Housing Investment |
| 2:40 | DAVID LEAVITT | Why is the Beneficiary Protection in the New York State Pension Plan so Expensive? |
| 3:00 | YU CHEN | Will Performing Arts Thrive in Shenzhen, China? |

Developmental Psychology

Humanities 019

Moderator: Linda Stanhope

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|------|--------------------------|--|
| 2:00 | ASHLEY GILMAN | Amount of Time in Day Care, Temperament, and the Development of Theory of Mind |
| 2:20 | ALEXANDRA JOHNSON | Birth Order and Temperament as Predictors of Preschool Children's Prosocial Behavior |
| 2:40 | STEVEN SCHAPP | Attitudes towards homosexual couples that wish to adopt children |
| 3:00 | EMILY STANO | The Effect of Age, Self-Monitoring, and Media Exposure on Body Image in Adolescent Girls and College Women |

Ecological Research

Olin 106

Moderator: Jeff Corbin

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|------|--------------------------|--|
| 2:00 | TYLER CROSS | An Assessment of the Effectiveness of Combining Removal Techniques in Eliminating <i>Berberis thunbergii</i> and Reducing Subsequent Germination by Other Invasive Species |
| 2:20 | NATALIE KONCKI | Simulated forest biofuel harvest decreases soil carbon and nitrogen pools |
| 2:40 | KATHLEEN O'CONNOR | An Evaluation of the Internal Parasites of Grey Squirrels in Urban and Rural Environments |
| 3:00 | RIVKA FIDEL | Blue Lupine Growing Conditions Affect Leaf Nutritional Quality and Influence Growth of an Endangered Butterfly |

Environmental Science

Olin 307

Moderator: Don Rodbell

- 2:00 SARAH CONNER
2:20 MARK KRISANDA
Natural Cyclicality of Climate Change
- 2:20 A Late Holocene Record of Mohawk River Flooding Preserved in a Sediment Core from Collins Pond in Scotia, New York
- 2:40 SARAH TONRY
A continuous Holocene record of paleoclimatic change from Laguna Yanacocha sediment cores, Cordillera Blanca, Peru

History II

Social Sciences 016

Moderator: Robert Wells

- 2:00 BRIAN KARIMI-PASHAKI
2:20 DANA GOLDSMITH
2:40 JOSHUA WEISS
3:00 RIVA PACKARD
McCarthy: A Devil of Whose Design?
- Executive Orders and the Modern Presidency
- Jewish Resistance in Poland During the Holocaust
- A Lady and a Leader: The Effects of Class and Gender on Women's French Revolutionary Experiences

Mechanical Engineering III

Science & Engineering Center N304

Moderator: Frank Wicks

- 2:00 JIRI HAVRAN
2:20 JAMES WALKER
2:40 WILLIAM BLACK
3:00 GEORGE KERSHAW
Today's Energy Situation in India and its Future Prospective
- Analyzing and Communicating Benefits of Carbon Dioxide Reduction Technologies
- Mechanical Self-Spotting Bench Press System
- Rowing on Wheels: The Design and Production of an Ergometer Skateboard

Spain's History and Culture through Film

Humanities 008

Moderator: Pilar Moyano

- 2:00 ALEXANDER BROCKWEHL
2:20 ANDREW DRESNER
2:40 NATALIE GROME
3:00 DOLEV MELAMED
Between Tradition and Modernity: The Conflict Over an Individual's Right to Die in Contemporary Spain
- Death Sentence: ETA and Spain
- United Against Fascism: The International Brigades in the Films of the Spanish Civil War
- Motherhood and Women in Modern Spain: An Analysis of Solas by Benito Zambrano

Neuroscience I

Bailey 201

Moderator: Cay Anderson-Hanley

- 2:00 RUSSELL CREED
2:20 ANN KELLER
2:40 LYNSAY DE MATTEO
3:00 KIMBERLY TURECK
Perceived Stress as the Basis for Salivary Cortisol Levels Differences in Stress Between Student Athletes and Non-athletes
- Neuropsychological Effects of Exergaming on Cognition in Older Adults: Role of Physical and Mental Exercise Components
- Exergaming and Autism: Effects on Self-stimulatory Behaviors and Cognition

Political Science II

Social Sciences 012

Moderator: Michele Angrist

- 2:00 LINDSAY COLVIN
2:20 KATHARINE MURPHY
2:40 MEAGHAN O'NEILL
3:00 ABIGAIL PLEETER
Counternarcotics Policy in Colombia: An American Trojan Horse
- Nation Building in Afghanistan and Iraq
- Reproductive Rights of Women in the Middle East: A Case Study on Iran
- Ariel Sharon: Hawk or Dove? How Ariel Sharon Changed Prospects for Peace in the Middle East

Psychology II

Bailey 312

Moderator: Christopher Chabris

- 2:00 LISA MCMANUS
2:20 ADAM WEINBERGER
2:40 DIANA GOODMAN
3:00 JACLYN MANDART
Measuring the Intelligence of Human-Computer Teams
- Inattentional Blindness in a Realistic Outdoor Setting
- The Effect of Optimism and Imagined or Physical Practice on Learning
- A Study of Musical Perception

Mixed I

Visual Arts 215

Moderator: Janet Grigsby

- 2:00 ANDREW PHILBIN
2:20 AUNG SOE
2:40 ELLEN BLANCHARD
3:00 JESSICA SINGER
Athletics Fostering Community Relations in Ancient Athens
- The Trolley Tracking Project: Improving Trolley Service at Union
- The History of the Debutante Ball in the US: A Story of Female Empowerment?
- Food Culture around the World

American Studies

Social Sciences 014

Moderator: Andrea Foroughi

- 3:30 | **LISA CRAWFORD** Meeting Financial and Familial Responsibilities: An Analysis of Messages in Ladies' Home Journal Regarding Women's Economic Citizenship in the 1930s and 1970's
- 3:50 | **JARED GOURRIER** The Black Experience

Computer Science and Digital Media

Science & Engineering Center N205

Moderator: Kristina Streignitz

- 3:30 | **JAMES TOY** James the GIANT killer: evaluating locking schemes in the FreeBSD kernel
- 3:50 | **PAUL TUNISON** A Tour Guide in SecondLife
- 4:10 | **CALDER PHILLIPS-GRAFFLIN** Copy Protection and the Future of Media Distribution

Economics IV

Social Sciences 017

Moderator: Suthathip Yaisawarnng

- 3:30 | **DARCIA DATSHKOVSKY** Cultural impacts on the success rates of microfinance
- 3:50 | **ALLISON FREDERICK** Predicting Community College Tuition and Enrollments and Simulating the Initial Effects of the Obama's American Graduation Initiative
- 4:10 | **SARAH YERGEAU** Community Care Versus Institutionalized Care: Effects of State Funding on Mental Health Care
- 4:30 | **SHEENA GUPTA** Do Community Health Centers Improve Health Status?
- 4:50 | **ALEXANDRA PERCY** Do People Vote According to Their Ideology or According to Their Self-interest?

Environmental Science and Policy

Olin 106

Moderator: Denis Brennan

- 3:30 | **BENJAMIN ENGLE** The Concordiensis: Union College's Watchdog
- 3:50 | **ERIC WHITE** Late Pleistocene, early Holocene climate change from central Andean carbonate lake sediments identified using stable isotopes and geochemical analysis
- 4:10 | **ERIN DELMAN** The Deportation Process Along the Mexican-American Border

Economics V

Humanities 014

Moderator: M. Fuat Sener

- 3:30 | **NEEJA DESAI** The World's "Best" Religion: A Cross-Country Study on How Religion Affects Economic Growth and Development
- 3:50 | **BEN MCINTOSH** Higher Education, Labor Market and Grades
- 4:10 | **GABRIEL WEBSTER** Improving the Union Course Registration System
- 4:30 | **ERIC WIGAND** Can Competitive Telecommunications Markets Reduce the Global Digital Divide?
- 4:50 | **MICHAEL DOLINGER** The Environmental Model: A Recipe for Rising Obesity in the United States

Geology II

Olin 307

Moderator: Holli Frey

- 3:30 | **REBECCA GRONCZNAK** Mineralogical and Chemical Analysis of Weathering Rinds of Basalt-Basaltic Andesite of Central Cascades, Oregon
- 3:50 | **MATTHEW KISSANE** The relationship between weathering and porosity in the silicic lava flows of the High Cascades, Oregon

Mechanical Engineering IV

Science & Engineering Center N304

Moderator: Ronald Bucinell

- 3:30 | **KRYSTLE GALLO** The Biomechanics of Cardiac S-looping in the Chick Embryo
- 3:50 | **LINDSEY WALASKI** Design of a Contractible Curtain to Prevent Rubbernecking
- 4:10 | **JASON SHAFFER** Deformation Characterization Using Electronic Speckle Pattern Interferometry
- 4:30 | **ANDREW BROWN** Design of a Curveball Pitching Machine using an Arm Mechanism
- 4:50 | **JAMES MAHER** Photogrammetry of Bullfrog Hearts

Mixed II

Visual Arts 215

Moderator: Peter Bedford

- 3:30 | **MOLLY MERZ** | The Effects of Brain-Derived Neurotrophic Factor (BDNF) and Insulin-Like Growth Factor 1 (IGF-1) on Exercise-Enhanced Cognition in Older Adults
- 3:50 | **ARKEISHA PACE** | African-American Stepmothers in American Visual Culture
- 4:10 | **BRENDAN TRUSCOTT** | Islam and the State in Indonesia
- 4:30 | **BRIAN MATTHEWS** | Documentary - Investigation of Green Technology Investment in the United States and in Foreign Countries
- 4:50 | **EMILY FELDMAN** | The Impact of the trial of Adolf Eichmann on the Argentinean Jewish Community and the Israeli Jewish Community

Neuroscience II

Bailey 201

Moderator: Robert Olberg

- 3:30 | **NATALIE GROME** | Neural basis of visually evoked head movements and electrically evoked wing movements in dragonflies
- 3:50 | **JACQUELINE TUTHILL** | Spatial and temporal limits of visual neurons that control flight in the dragonfly
- 4:10 | **ELLIOT HARMON** | Effects of Exercise on Neural Plasticity in Geriatric Patients
- 4:30 | **ELIZABETH OSBORNE** | An Investigation of the Attainability and Neurological Mechanisms of Absolute Pitch
- 4:50 | **NATALIE ULLMAN** | Brain Activation During Item-Specific and Relational Processing

Political Science III

Social Sciences 012

Moderator: Clifford Brown

- 3:30 | **SARAH DOUCETT** | Capitalizing on Media Involvement in Presidential Elections
- 3:50 | **JEFFREY BAILY** | The Relationship between Drugs and Democracy in Colombia
- 4:10 | **RACHAEL CARSON** | Washington versus Beijing: The Best Development Partner for Africa
- 4:30 | **KELSEY MACELROY** | The Rise and Fall of Patriotism After 9/11
- 4:50 | **ARIEL PALTER** | The Right to Health Care and the Role of Free Clinics: Action Research at the Schenectady Free Health Clinic and the Importance of Student Involvement in the Community

Psychology III

Bailey 312

Moderator: Suzie Benack

- 3:30 | **VERONICA HOPKINS** | Exergaming and Schizophrenia: Neuropsychological Effects of Exercise
- 3:50 | **KATIE WEINSTEIN** | Competitive Personalities and Relationships
- 4:10 | **AMANDA JUDSON** | The Mean Girl Phenomenon

Sociology III

Social Sciences 016

Moderator: David Cotter

- 3:30 | **HILARY SEGAR** | The Social Stigma and Stereotyping of Mexico in the United States
- 3:50 | **LINDSEY GOLDBERG** | Make New Friends But Keep The Old: Communicative Technology Use in Long-Distance Friendships

Understanding Contemporary France

Humanities 008

Moderator: Stephanie Silvestre

- 3:30 | **HANNAH COMEAU** | Boire Trop: A Comparative Study of France and the US and Changing Alcohol Use Trends Among Youth
- 3:50 | **MONICA NIEDERMEYER** | Les origines et la culture de la Bretagne/The Origins and Culture of Brittany
- 4:10 | **NATALIE ULLMAN** | Le Système de Santé en France / The French Health Care System

Exhibit: The Jewish Experience: Newark, New Jersey 1844-1940

Social Sciences Lounge

Moderator: Teresa Meade

- 3:00 - 5:00 | **JENNIFER WINKELRIED** | The Jewish Experience: Newark, New Jersey 1844-1940

DANCE PERFORMANCES

Faculty Sponsor & Show Director - Miryam Moutillet

4:00 P.M. | **NOTT MEMORIAL**

DANCE EXPERIENCE COURSE

Directed by Miryam Moutillet
Created and performed by Ariel Blum, Lisa Crescenzo, Emily Lnenicka, Andrea Morehouse, Alyssa Simeone and Amanda Wiener

DANCE PROJECTS

LEIJIA'S GAME

Choreographed and performed by Kira Moldow
Played live by Tristan Allen (pianist)

ECHA PA'LANTE

Choreographed by Valerie Angell
Valerie Angell, Peter Bonventre, Karel Durkota, Jenna Langhans, Dave Sayles and Samantha Zayas

ESTORIA DA BOCA

Choreographed by Samantha Zayas
Lisa Crescenzo, Ayanna A. Vinson-Dobson and Samantha Zayas

SANTA MARIA: DEL BUEN AYRE

Choreographed by Sara Block
Joey Abate and Sara Block

BALLET & MODERN DANCE

Choreographed by Miryam Moutillet

TANGO SUITE: ANDANTE

Marcus Rogers and Alyssa Simeone

ASTURIAS LEYENDA

Alyssa Simeone
Played live by Harry Pellegrin (Faculty Guitarist)

TANGO APASIONADO

Erin Bligh, Ariel Blum, Lisa Crescenzo, Anna Finlay, Lauren Graniero, Jenna Langhans, Kira Moldow, Jessica Nagourney, Stacy Paull, Alyssa Simeone, Katie Sofia and Ayanna A. Vinson-Dobson

JAZZ & RHYTHMS DANCE

Choreographed by Marcus Rogers

OBJECTION

Anna Finlay, Krystle Gallo, Lauren Graniero, Emily Lnenicka, Amanda Wiener and Samantha Zayas

BUSTER VOODOO

Valerie Angell, Lisa Crescenzo, Andrea Morehouse, Emily Stano, Ayanna A. Vinson-Dobson

AFRO-DANCE

MAGALENDA

Choreographed by Marcus Rogers
Valerie Angell, Erin Bligh, Lisa Crescenzo, Krystle Gallo, Lauren Graniero, Jenna Langhans, Kira Moldow, Stacy Paull, Ayanna Vinson-Dobson and Samantha Zayas

DANCE TEAM

Captains Lisa Crescenzo and Sara Mark
Amy Cerini, Yubi Choi, Lisa Crescenzo, Krystle Gallo, Jenna Langhans, Allie Levy, Sara Mark, Kira Moldow, Andrea Morehouse, Jessica Nagourney, Robyn Panella, Meridith Prescott, Katie Smidt, Katie Sofia and Amanda Wiener

BALLROOM DANCE CLUB

MANOS AL AIRE

Choreographed by Amber Woerner
Joey Abate, Valerie Angell, Erin Bligh, Peter Bonventre, Emily Burgess, James Cernik, Karel Durkota, Megan Hyndman, Jamie Lugari, Ben Miles, Dave Sayles, Casey Sheridan, Andrew Vinales, Maggie Wilson, Samantha Zayas and Adam Zinman

KUCHIPUDI DANCE

Danced by Shilpa Darivemula

THE BHANGRA UNION

Performed by Mourin Kamal, Hyma Kavuri, Najiba Keshwani, Mital Patel, Nayan Patel, Jessica Sarrantonio, Shalini Singaravelu, Haritha Sishtla, Kenia Valdez and Ari Walfrand

LIVE MUSIC PROVIDED BY

Andy Iorio – Musical Director
Tristan Allen - Keyboard
Ron Herout – Drums
Sulay Lora - Voice

Harry Pellegrin (faculty) - Guitar
Colin Turley – Violin
“Por Amarte Asi” – Christan Castro
“Knife Kight” – Astor Piazzolla

FRIDAY, MAY 7

STEINMETZ CONCERT: UNION COLLEGE ORCHESTRA AND CHORALE

Victor Klimash, Conductor

Music by Koussevitzky, Beethoven, and Albinoni

8:00 P.M. | MEMORIAL CHAPEL

Rachel Gray	(Oboe)	Elana Korn	(Contrabass)
Iris Zhang	(Violin I)	Daren DelDotto	(Viola)
Saem Hur	(Violin II)	Samuel Kim	(Cello)
Colin Turley	(Violin II)	Lauren Polizzi	(Cello)
Amanda Laven	(Violin II)	Sara Bercovici	(Oboe)
Lily Marto	(Viola)	Ajay Major	(Clarinet)

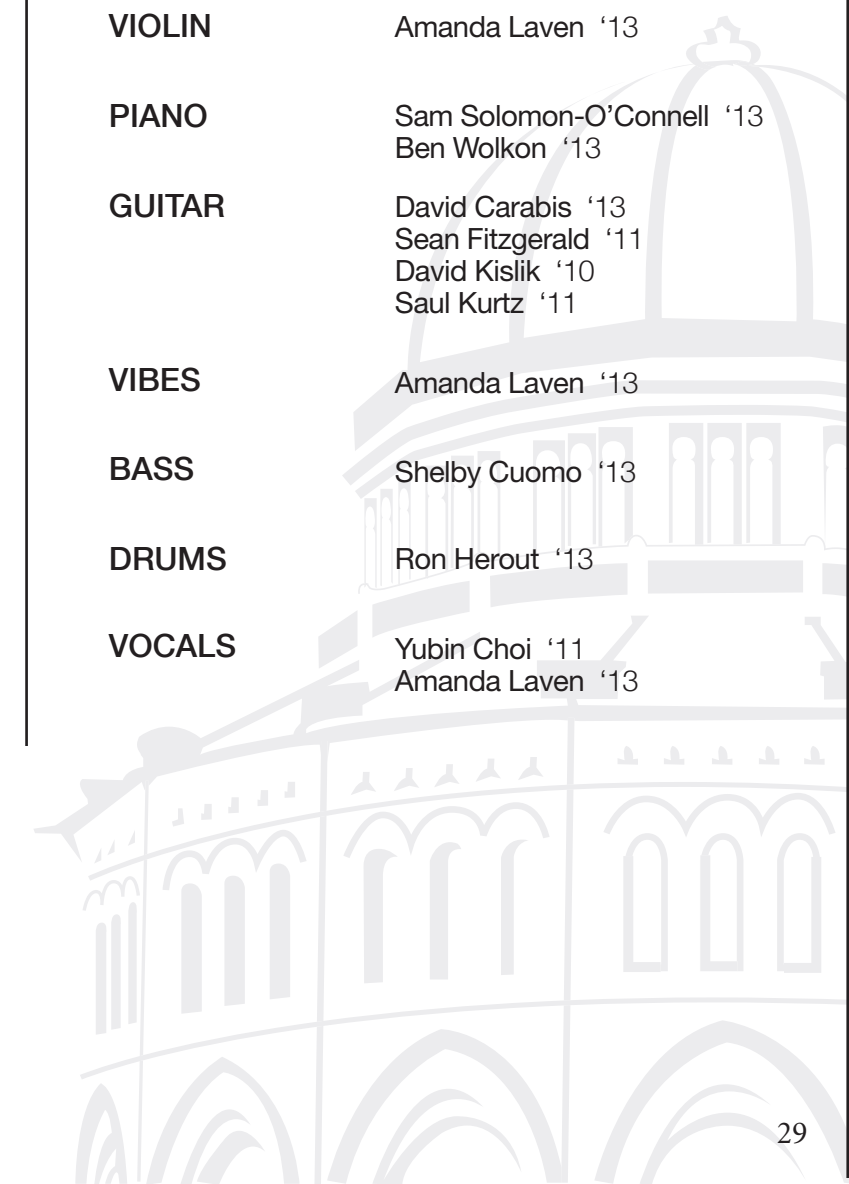
SATURDAY, MAY 8

THE UNION COLLEGE JAZZ ENSEMBLE

Tim Olsen, Director

1:00 P.M. | EMERSON AUDITORIUM IN THE TAYLOR MUSIC CENTER

CLARINET	Emma Freter '13 Alex Post '11	VIOLIN	Amanda Laven '13
ALTO SAX	Kim Blecich '13 Jarred Muller '13 Matt Zawodniak '10	PIANO	Sam Solomon-O'Connell '13 Ben Wolkon '13
TENOR SAX	Greg Bloom '11 Peter Bonventre '11	GUITAR	David Carabis '13 Sean Fitzgerald '11 David Kislik '10 Saul Kurtz '11
BARI SAX	Devin Harrison '09	VIBES	Amanda Laven '13
TRUMPET	Rachel Finkelstein '12 Victoria Frisbee '13	BASS	Shelby Cuomo '13
TROMBONE	Art Duncan Jacob LaRocca '12	DRUMS	Ron Herout '13
		VOCALS	Yubin Choi '11 Amanda Laven '13



NOTES

NOTES



THE MAP TO THE UNION COLLEGE GROUNDS

UNION COLLEGE
SCHENECTADY NY, 12308
518.388.6000
www.union.edu

1	Abbe Hall	22	Humanities Building	42	Murray and Ruth Reamer Campus Center	Student Residences
	Alumni and College Relations		Classics, English, Modern Languages, and Philosophy Departments, International Programs		Auditorium, Bookstore, Dean of Students, Upperclass Dining Hall, Dutch Hollow Restaurant, Dining Services, Multicultural Center, Mail Services, Residential Life, Student Activities, Women and Gender Studies	55 Beuth House* 56 College Park Hall; Campus Safety
2	Achilles Center-Frank L. Messa Rink	23	The Idol			57 Davidson House
3	Alumni Gymnasium	24	Jackson's Garden			58 Edwards House
4	Arts Building	25	Kappa Alpha Gate			59 Fero House
5	Bailey Hall	26	Kenney Community Center			60 Fox House
	Athletic Department, Pool, Racquetball, Squash Courts		Community Outreach/Affirmative Action			61 Golub House*
6	Stanley R. Becker Career Center	27	Lamont House			62 Hickok House
	Academic Opportunity Program, Mathematics and Psychology Departments		The Graduate College of Union University			63 North College; Blue House*
7	Blue Gate	28	Stanley and Geraldine			64 Orange House*
8	Brownell Gate	29	Levine Wildflower Garden			65 Phi Delta Theta
9	Butterfield Hall		McKean House			66 Potter House
10	Central Utilities Plant	30	Financial Services			67 Raymond House
11	Chester Arthur Courtyard	31	Memorial Chapel			68 Richmond House
12	Class of 1884 Gate	32	Memorial Fieldhouse			69 John Blair Smith House
13	College Park Neighborhood	33	North Colonnade			70 South College; Green House*; Sorum House*
	Apartment-Style Student Housing and Satellite Campus Safety Office		Nott Memorial Dyson Hall, Mandeville Gallery, Wikoff Student Gallery			71 1294 Lenox
14	Engineering Laboratory	34	Old Chapel			72 Webster House
15	Facilities Services		Rathskeller, Telecommunications Office, Emeritus Center			73 Wells House
16	Armand V. and	35	F.W. Olin Center			74 West College
	Donald S. Feigenbaum Hall		Geology Department, Observatory Payne Gate			75 Wold House*
	President, Dean of Faculty, Finance					* = Minerva Houses
17	Grant Hall	36	Mrs. Perkins' Garden			P = Parking
	Admissions and Financial Aid		Stanley G. Peschel Computer Center			
18	Hale House	37	Stephen J. Potter Testing Laboratory			
	Dining Room, Everest Lounge, Milano Lounge		President's House			
19	Hans Groot's Kill	38	Psi Upsilon Flaggpole			
20	Harlow Thyme Clock	39				
21	Roger Hull Plaza	40				
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