Friday, May 2nd

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 – 4:00 p.m. Becker Career Center Open House
Becker Career Center

5:30 – 8:00 p.m. AEPi & Golub House Cinco de Mayo Fiesta
Golub House

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 2008”

Saturday, May 3rd

11:00 a.m. – 12:30 p.m. Prize Day
Memorial Chapel

12:30 – 2:00 p.m. Steinmetz Symposium continues
Poster Sessions

12:30 – 1:30 p.m. Prize Day Reception
Reamer Campus Center Patio

1:00 – 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 9:30 a.m. – 11:00 p.m.
Sunday from 4:00 p.m. – 11:00 p.m.

The Bookstore will be open:
Friday from 8:45 a.m. – 4:30 p.m.
Saturday from 9:30 a.m. – 4:30 p.m.
Sunday from 10:00 a.m. – 2:00 p.m.

The Nott Memorial will be open:
Friday from 9:00 a.m. – 8:00 p.m.
Saturday from 9:00 a.m. – 6:00 p.m.
Sunday from 10:00 a.m. – 6:00 p.m.

Schaffer Library will be open:
Friday from 8:00 a.m. – 11:00 p.m.
Saturday from 10:00 a.m. – 10:00 p.m.
Sunday from 11:00 a.m. – 1:00 a.m.
Charles Proteus Steinmetz (1865–1923), a professor at Union, was regarded as a leading pioneer of electrical engineering. He served as chief consulting engineer for the General Electric Company, and took charge in 1902 of Union’s new electrical engineering program. He was born in Breslau, Prussia (now Wroclaw, Poland) and studied in Breslau, Zurich and Berlin, receiving his Ph.D. in 1888. Steinmetz, an active socialist with strong anti-racist beliefs, was forced to flee Germany after writing a paper critical of the German government. He immigrated to the United States in 1893. He studied alternating current, and patented a system of AC in 1895. By the time he died, he held over 200 patents. Steinmetz served as a lecturer in undergraduate and post-graduate courses at Union until his death. He wished for his students “the spirit of divine discontent, for without it the world would stand still.”

Union is proud to dedicate the Charles Proteus Steinmetz Symposium on Student Creative, Scholarly and Research Achievement to the memory of this scholar, teacher, and practitioner.

Mary K. Carroll
Director of Undergraduate Research
Sessions are at the following times

**Friday, May 2nd, 2008**

**SESSION I**
9:00 – 10:20 a.m.  
*Concurrent Oral Presentations* in Bailey Hall, the Humanities Building, the Olin Building, the Science & Engineering Center and the Social Sciences Building

**SESSION II**
10:30 a.m. – 12:10 p.m.  
*Concurrent Oral Presentations* in the Arts Building, Bailey Hall, the Humanities Building, the Olin Building, Science & Engineering Center, the Social Sciences Building, and the Taylor Music Center

**SESSION III**
12:20 – 1:50 p.m.  
*Poster Session, other Special Presentations*
12:20 – 1:30 p.m.  
*Dance Performances* in the Nott Memorial

**SESSION IV**
2:00 – 3:20 p.m.  
*Concurrent Oral Presentations* in the Arts Building, Bailey Hall, the Humanities Building, the Olin Building, Science & Engineering Center, and the Social Sciences Building

**SESSION V**
3:30 – 5:10 p.m.  
*Concurrent Oral Presentations* in the Arts Building, Bailey Hall, the Humanities Building, the Olin Building, Science & Engineering Center, and the Social Sciences Building

   Improvisational Theater Performance in Yulman Theatre

**Saturday, May 3rd, 2008**

**SESSION VI**
12:30 – 2:00 p.m.  
*Poster Sessions* in Reamer Campus Center

1:00 – 2:00 p.m.  
*Jazz Ensemble* in the Taylor Music Center, Fred L. Emerson Foundation Auditorium

Student Visual Arts exhibitions are in the Burns Arts Atrium throughout the weekend.
Steinmetz Symposium 2008

Session I

9:00 – 10:20 a.m.  Concurrent Oral Presentations

Bailey Hall—201
Mathematics I

Moderator: Brenda Johnson

KATHERINE BELLUCCI  Spherical Trigonometry Applied to Navigation at Sea
STEVE COHEN  Walking on Gaussian Primes
VALERIE GOMES  Tangled Messages
LAURA HUTCHINSON  Ruler and Compass Geometry

Bailey Hall—207
Neuroscience I

Moderator: Quynh Chu-LaGraff

CASSANDRA DENEFRIO  An Investigation of the role of PPT1 on Embryonic Neural Development in Drosophila Melanogaster
ANNA KUSCHPEL  Examining the role of galanin in cocaine reward
KATE LANGWIG  An fMRI Study of the Effects of Eye Movement Desensitization and Rehabilitation Therapy on Post-traumatic Stress Disorder Car Accident Patients
STEPHANIE MASON  Coritsol Levels as a Result of Academic Stress

Bailey Hall—312
Psychology I

Moderator: Joshua Hart

RACHEL BENNETT  Previous Media Exposure and the Relation to Change in Body Dissatisfaction after Exposure to the Thin Media Ideal
KATELYN BIANCAMANO  Person Perception
BRITTNEY PULLEY  Do We Perceive Eating Disorders as Addictions?
DANA SEIDLER  Lucid Dreaming: Effects on Mood and Health

Humanities Building—014
Writing & Literature

Moderator: April Selley

TIMOTHY BEST-HALL  Machine Translation: Out of Sight, into the Looney Bin
IAN CLEMENTE  Where All the Ladders Start: A Look into the Creative Writing Process
KIMBERLY ROSENBERGER  The Price of Fame
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<tr>
<th>Session</th>
<th>9:00 – 10:20 a.m. Concurrent Oral Presentations</th>
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**Humanities Building—019**
Seville, Spain, Term Abroad I

**Moderator: Pilar Moyano**

<table>
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<tr>
<th>Presenter</th>
<th>Title</th>
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<tbody>
<tr>
<td>Jessica Cardinale</td>
<td>Environmental Progress: A Comparative Study of the United States and Spain</td>
</tr>
<tr>
<td>Chelsea Hargis</td>
<td>The Language Barrier at Work in Spain</td>
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<tr>
<td>Steve Herron</td>
<td>An Introduction to the Flamenco Guitar</td>
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**Humanities Building—112**
French & Francophone Studies I

**Moderator: Michelle Chilcoat**

<table>
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<tr>
<th>Presenter</th>
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<tbody>
<tr>
<td>Erica Erlanger</td>
<td>Seeing Natural Disaster in the French Antilles through Science, Education, and Literature</td>
</tr>
<tr>
<td>Maeva Kehoe</td>
<td>Attitudes Towards Bilingualism in Canada</td>
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<tr>
<td>Molly Merz</td>
<td>An Informative Look at the Haitian Community in Boston</td>
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<tr>
<td>Elizaveta Saguirian</td>
<td>Paradis ou Réalité?: An Analysis of Tourism in Martinique</td>
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**Olin Building—106**
Media, Muslims and Medicine: Sociological Analyses

**Moderator: David Cotter**

<table>
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<tr>
<th>Presenter</th>
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<tbody>
<tr>
<td>Mary Abraham</td>
<td>Ayurveda: India’s best kept secret</td>
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<tr>
<td>Geraldine Emmanuel</td>
<td>Victim, Sidekick, or Clown: The Depiction of South Asians in Western Television and Film</td>
</tr>
<tr>
<td>Naazia Husain</td>
<td>The Psychosocial Impact of 9/11 on Young American Muslims</td>
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**Olin Building—115**
Biochemistry & Chemical Biology

**Moderator: Kristin Fox**

<table>
<thead>
<tr>
<th>Presenter</th>
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<tbody>
<tr>
<td>Alexander Carrese</td>
<td>Cloning and Expression of a Putative Metacaspase Gene from Schizophyllum commune</td>
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<tr>
<td>Olga Davydenko</td>
<td>Quantum Dots as FRET Donors in Molecular Beacons</td>
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<tr>
<td>Syed Hussnain</td>
<td>Cloning and expression of Scp1, a yeast metacaspase homologue, from Schizophyllum commune</td>
</tr>
<tr>
<td>Latoya Roper</td>
<td>The Synthesis of Polypeptide Analogues used as Molecular Transporters</td>
</tr>
</tbody>
</table>
9:00 – 10:20 a.m.  Concurrent Oral Presentations

Olin Building—307  
Environmental Science & Geoscience I  
Moderator: John Garver

**EMILY FOLLANSBEE**  
Test of a specific technique to reduce the impact of Alliaria petiolata on growth of a native tree seedling

**AMANDA KERN**  
Study of 20th century trends in stream flow for West Canada and Schoharie Creeks of the Mohawk-Hudson Rivers watershed

**CATHERINE KIELB**  
Stream Gradient and Knickpoint Evolution in the Plotterkill Nature Preserve, New York

**ALLISON PHELAN**  
Flood severity and changes in floodplain area along urban sections of the Mohawk River through the 20th century

Science & Engineering Center—N205  
Engineering & Computer Science  
Moderator: Kelly Black

**BENJAMIN BUNES**  
One-Dimensional Particle-Particle and Particle-in-Cell Plasma Simulation Applied to Reactive Ion Etch Processes

**MICHAEL DONOVAN**  
Non-Photorealistic Fire

**ANDREW HEISER**  
The “Greenest” Option – Environmentally Friendly Pervious Rubberized Concrete

Science & Engineering Center—N304  
Physics  
Moderator: Samuel Amanuel

**OTTO JAKUTOWICZ**  
Detection of Solvent Evaporation From Temperature Dependant FT-IR Spectra

**BILAL MAHMOOD**  
Using Dynamic Light Scattering to study the Early Kinetics of Insulin Aggregation

**STEPHEN PO-CHEDLEY**  
Investigating Heavy Metals in the Environment from Anthropogenic Sources

**CRYSTAL SMITH**  
The Production of Light P-Process Nuclei in the Outflows from Gamma-Ray Burst Accretion Disks

Social Sciences Building—012  
Issues of Sexuality  
Moderator: Janet Grigsby

**JULIE RAHILL**  
HIV Risk Factors and Prevention for Men Who Have Sex with Men: The Post-HAART Era

**JEFFERY CHAO**  
The impact of sexual orientation on the comfort levels in interracial relationships

**FELISA WILLIAMS**  
The Perceived Deviance of African American Male Sexuality
9:00 – 10:20 a.m.  Concurrent Oral Presentations

Session I

Social Sciences Building—014

Anthropology I

Moderator: Karen Brison

CARLY AIMI
Universal Human Rights? A Cross Cultural Perspective on Women’s Rights in Fiji and the Borderlands of Mexico

SARA MELTON
A Healing Force: The Effect of Converting to Pentecostal Christianity

ALLISON PERSE
Forging Personal and Ethnic Identity through Community Arts

Social Sciences Building—016

A Selection of Presentations from Various Disciplines I

Moderator: David Cervone

BRITTANY ADAM
Stochastic modeling to determine turbine performance of the Portuguese Pico wave energy plant

SANTOS AVILA
Violence Consumption in Media: City of God and Bus 174

DANA CARTWRIGHT
jsMath Editor - A Study of Equation Editor Design

DANNA DEBLASIO
Factors Affecting Support of Mental Health Parity Bill

Social Sciences Building—017

Development Economics

Moderator: Ellen Foster

ILYA ASPIS
AIDS in Africa: An Economic Study of the Factors that Contribute to the Prevalence of the Disease

BILAL CHAUDARY
Analyzing the Impact of Health on Sub-Saharan African Growth through the Construction of a Cross Country Regression Model

JAY SHAH
Analysis of the Relationship Between Investments and Medical Patents in the Medical Sector: Does More Investments Result in More Medical Patents?
Session II

10:30 a.m. – 12:10 p.m. Concurrent Oral Presentations

Arts Building—215

Moderator: Shelton Schmidt

A Selection of Presentations from Various Disciplines II

MOLLY FREEMAN
My Inner Self Portrait

JENNIFER GABRIELSKI
The psychological Influences of Empathy and Social Dominance on Alloting Foreign Aid to Countries using Education as a Determinant

TIMOTHY PULASKI
Hydrocarbon Tracer Experimentation in a Hydrogen Fueled Internal Combustion Engine

ANDREW SALEMO
Design of an Adaptive Hockey Puck for the Visually Impaired

Bailey Hall—201

Moderator: William Zwicker

Mathematics II

SUSAN BECKHARDT
Configuration Spaces and Robot Motion Planning

RICHARD BONVENTRE
An Introduction to the Mathematical Formalization of Quantum Mechanics

RONGHUA DAI
Ehrhart Polynomials In 3-way ties Borda Count Voting Theory

MICHAEL DOCTOR

Bailey Hall—207

Moderator: Robert Olberg

Neuroscience II

DAVID SHULMAN
Three-Dimensional Reconstruction Of Prey-Capture-Neuron Receptive Fields In Dragonflies

STEPHANIE SEEMAN
Temporal Correlation of Target-Selective Neuron Activity in the Dragonfly Visual System

ELOY IMLER
Using delay timing to determine the information content

JACQUELINE TUTHILL
Structure of visual neurons in the dragonfly brain

ZACH PORTMAN
A Computer Model of Dragonfly Prey Interception
Session II

10:30 a.m. – 12:10 p.m. Concurrent Oral Presentations

Bailey Hall—312
Social/Personality Psychology

Moderator: George Bizer

JESSICA GOLDBERG
The Effect of Personality on Supreme Court Decision Making: An Analysis of Justices O' Connor and Frankfurter

MICHELLE KOO
Valence Framing Effect: Do Positively or Negatively Framed Attitudes Affect Persuasion?

LARA LEVINE
Social Dominance Orientation as a Predictor of Social Status

SAMUEL POSNOCK
Getting to know you: Influence of personality in impression formation

JACQUELYN RAFTERY
Relationship of Frustration and Quality of Performance: The Moderating Effect of Individual Differences in the use of Emotion-Regulation Strategies

Humanities Building—014
Women’s and Gender Studies

Moderator: Thomas Lobe

STEPHANIE CANNULI
A Modern-day Slavery: Sex Trafficking into the United States

KAITLIN CANTY
Women in the New York State Court System

CAROL SHOTZBARGER
A More Perfect Union? Educating Men and Women Together at Union College

Humanities Building—019
Seville, Spain, Term Abroad I

Moderator: Pilar Moyano

JEFFREY HYDE
My experience with Spanish open-source software entrepreneurs

CRISTINA LIQUORI
From The Pews To The Bleachers: The Social Education of Spanish Youth

KATHARINE MEYER
Flamenco: Art and Identity of Andalucía

Humanities Building—112
French & Francophone Studies II

Moderator: Michelle Chilcoat

JOSEPH CIABURRI
Paralleling Genre and Gender in French Film

HILARY HAN DIN
Women’s Resistance in France, 1940-1945

ALISON HINKATY
The Veil in France Today: Empowerment or Degradation?

SARAH STILES
Les Femmes Politiques: A Comparative Look at Women in Politics in France and the French Caribbean
Session II

10:30 a.m. – 12:10 p.m.  Concurrent Oral Presentations

Olin Building—106

Environmental & Energy Issues

Moderator: Jaclyn Cockburn

SARAH CONNER  The carbon emissions from the City of Schenectady
KELLY OWINGS  The Gilboa Dam and its Possible Failure: What it means for NYC and Upstate New York
TIM SCHWARZ  Understanding Hydrogen’s Role in A Changing Energy Future
HANNAH WEITZMAN  The Fragility of Coral Reefs: Biology, Human Impact and Marine Policy

Olin Building—115

Nanotechnology

Moderator: Michael Hagerman

BENJAMIN BUNES  Image Processing Techniques Applied to the Analysis of Chiral Features in Nanoscale Images
ANNA GAUDETTE  Enthalpic Relaxation of Polymer Nanocomposites
WILLIAM HOEK  Inclusion of Ruthenium Polyppyridine Complexes within Conductive Laponite Films
DAVID KARLIN  Inclusion of PEDOT and PANI Polymers within Ruthenium Sensitized Laponite Thin Films
DANA LASHER  First Order Phase Transition of Physically Restricted Molecules

Science & Engineering Center—N205

Biomedical Engineering & Mechanical Engineering

Moderator: William Keat

WENDY BEATTY  Including Sustainability Issues in a Heating, Ventilating, and Air Conditioning Course
JEFFREY HUTCHISON  Including Sustainability Issues in a Heating, Ventilating, and Air Conditioning Course
IAN SOLON  Including Sustainability Issues in a Heating, Ventilating, and Air Conditioning Course
SCOTT CARROLL  Optimization of ROV for Ballston Lake Exploration
RICHARD PLUTO  Optimization of ROV for Ballston Lake Exploration
LAURA EYMAN  Development of a Portable Toughness Tester
ALEX WEINTRAUB  Determination of the Loading on Bird Feather Shafts

Social Sciences Building—012

Political Science I

Moderator: Michele Angrist

JENNIFER ATCHINSON  To Hell in a Handbasket: The Influence of Christian Fundamentalism on American Foreign Policy
RIAN CAHILL  Ethnicity
CARLA REEVES  Is There Room Under the Big Tent?: A Study of Black Republicans and the GOP’s Relationship with the Black Community
JAMAL RICKS  The Demise of the Black Panther Party: The Role of Internal and External Forces in the Obstruction of the Panther Agenda
<table>
<thead>
<tr>
<th>Time</th>
<th>Session II</th>
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<tr>
<td>10:30 a.m. – 12:10 p.m.</td>
<td><strong>Concurrent Oral Presentations</strong></td>
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</table>

**Social Sciences Building—014**

**Moderator: Mark Walker**

**History I**

- **PHILIP CASTONGUAY**
  -_decisive stalemate: the battle of jutland and its impact on the outcome of the first world war

- **EMILY LAING**
  - "to shake hands with men-stealers:" quaker antislavery in the colonial period, 1676-1738

- **SARA NASH**
  - october 1962: missiles & international diplomacy

- **CAROL O'HEA**
  - portuguese immigrants on long island and transnational identity, 1965-1980

- **ROSS WHEELER**
  - advanced weapons & technological dissemination 1945-1950

**Social Sciences Building—016**

**Moderator: Bradford Bruno**

**A Selection of Presentations from Various Disciplines III**

- **DAVID HARWOOD**
  - handheld color scanner for the colorblind

- **ANDREW KRAUSS**
  - design of a froude-scale testing tank

- **JASMINE MALDONADO**
  - mentally ill ought not be capitaly punished: supreme court sets precedent

- **JOSEPH MARTEL**
  - shear stress measurement in microfluidic systems: liquid crystal technique

- **BENJAMIN MILES**
  - how a free open-source physics simulation program can help in introductory physics education

**Social Sciences Building—017**

**Moderator: Lewis Davis**

**Topics in Microeconomics**

- **KYLE MARMELSTEIN**
  - exago, inc., the economics of a strategy

- **BAILEY RAND**
  - keeping up with the joneses. or the clarks? or the smiths? economics and psychology investigate reference group determinants in the relative income hypothesis

- **KRISTINE SONNENBERG**
  - wal-mart’s effects on county employment: the role of education

- **MATTHEW VIELKIND**
  - payers and medical technology adoption

**Taylor Music Center Emerson Hall**

**Moderator: Timothy Olsen**

**Music**

- **RICHARD MOCCIA**
  - skating, skanking, and the ska community: unity in north american third wave ska

- **KYAN NAFISSI**
  - the creation of a rock/blues cd

- **BERNADETTE PEACE**
  - the creation of a rock/blues cd

- **NICKOLAS POTVIN**
  - chet baker: a look at his trumpet style and solo techniques

- **MATTHEW ZAWODNIAK**
  - a rock performance by four people and six loudspeakers
Session III

12:20 – 1:50 p.m. • Theater & Dance Department

NOTT MEMORIAL
Dance Performances

Faculty Sponsor & Show Director – Miryam Moutillet

Faculty Choreographers
Miryam Moutillet and Marcus Rogers

Stage Managers
Richard Leahy and Lauren Wetherell

Live Music by Pink Floyd
Andy Iorio – Musical Director
Tristan Allen - Keyboard
Paul Amy - Guitar
Jake Klein – Drums
Will Wilkins – Bass

Dance Experience Collaborative

Modern Gypsies
Directed by Miryam Moutillet
Created and performed by Santos Avila, Annie Benfield, Rachel Bennett, Erin Bligh, Jen Fleischer, Katie Newingham, Stacy Paull, Nozomi Sakata and Ayanna Vison-Dobson

Dance Projects

Another Brick in the Wall
Choreographed by Carly Aimi
Dancers: Carly Aimi, Santos Avila, Lisa Crescenzo, John Feliciano, Katharine Gould, Sara Mark and Brittany Prescott

Is There Anybody Out There?
Choreographed by Joey Hunziker
Dancers: Victor Cardinali, Lisa Crescenzo, Joey Hunziker, Laura Hutchinson and Richard Leahy

On the Turning Away
Choreographed by Brittany Prescott
Dancers: Randi Cerini, Colleen Easton, Shauna Keeler, Kira Moldow and Brittany Prescott

Stomp the Nott
Choreographed by Randi Cerini
Dancers: Randi Cerini, Lisa Crescenzo, Jen Fleischer, Sara Mark, Kira Moldow, Kiersten Pedersen, Rachael Singleton, Katie Sofia, Emily Stano and Amelia Patten Whitney

Love’s Forms
Choreographed by Laura Hutchinson
Dancers: Steve Boddorff, Rivka Fidel, Andy Mak, Alyssa Simeone, Josh Smith and Sami Zayas
Ballet III

Atom Heart Mother Suite  
*Choreographed by Miryam Moutillett*

*Dancers:* Randi Cerini, Theresa Foito, Meryl Goldstein, Shauna Keeler, Alexandra Lindsay, Kira Moldow, Brittany Prescott, Marcus Rogers, Alyssa Simeone, Monica Tse and Amelia Whitney

Modern Choreography

One of These Days  
*Choreographed by Miryam Moutillett*

*Dancers:* Carly Aimi, Val Angell, Randi Cerini, Lisa Crescenzo, Jen Fleischer, Theresa Foito, Meryl Goldstein, Shauna Keeler, Laura Hutchinson, Stacy Paull, Brittany Prescott, Katie Sofia and Amelia Patten Whitney

Jazz Choreography

Comfortably Numb  
*Choreographed by Marcus Rogers*

*Dancers:* Carly Aimi, Val Angell, Jen Fleischer, Katie Halkyard, Kira Moldow, Stacy Paull, Nozomi Sakata, Julie Vairo and Sami Zayas

Jazz Dance II

Leave Brittney Alone  
*Choreographed by Marcus Rogers*

*Dancers:* Carly Aimi, Val Angell, Rachel Bennett, Erin Bligh, Randi Cerini, Lisa Crescenzo, Eliza Duquette, Katie Hartnack, Shauna Keeler, Jessica Lord, Marcus Rogers, Stacy Paull, Katie Sofia, Katie Smidt, Emily Stano, Alyssa Simeone, Julie Vairo and Sami Zayas

Tap Dance

Car Wash  
*Choreographed by Marcus Rogers*

*Dancers:* Val Angell, Rachael Bennett, Katie Halkyard, Emily Stano and Amanda Snyder

Dance Team

Levantanse  
*Choreographed by Jen Fleischer, Adrienne Hart, Allison Levy, Kira Moldow, Kiersten Pedersen and Brittany Prescott*

*Dancers:* Randi Cerini, Lisa Crescenzo, Jen Fleischer, Molly Freeman, Adrienne Hart, Allison Levy, Sara Mark, Kira Moldow, Kiersten Pedersen, Brittany Prescott, Rachael Singleton, Emily Stano and Katie Sofia

Ballroom Dance Club

Come Closer  
*Choreographed by Amber Woerner*

*Dancers:* Val Angell, Anna Bastian, Erin Bligh, Steven Boddorff, Pete Bonventre, Emily Burgess, Dana Cartwright, Laura Hutchinson, Megan Hydman, Ben Miles, Casey Sheridan, Dave Sayles, Monica Tse and Steve Walker

For this performance, we want to thank

The International Education Foundation (IEF)

Dean David Hayes / Arts and Sciences

The Theater Program for their technical support
Session III

12:20 – 1:50 p.m. • Special Presentations

Butterfield Hall—100
Demonstration
BRENT BLYTHE
Rhe-Aux: Magnetorheological Auxilliary Brake System for Heavy Capacity Vehicles

Entrance to Jackson's Garden
(rain location: Taylor Music Center 224)
Performance Installation
NOLA RUDOLPH
Exploring Japanese Art Aesthetics through Contemporary Medium

Olin Rotunda & Olin 110
Poster Session
Moderator: Linda Almstead
BENJAMIN ATKINS
Color Pickr
VEDANT BORAD
Preparation of an induction control strain
DUSTIN CONNELLY
HPV Awareness
JUSTIN SCHMIEDEL
HPV Awareness
RACHEL CURTIS
Sociology of Community Meets its Match: Do theories stand their ground when their territory is changed?
DMITRIY GELER
Design of a Portable Photovoltaic Powered Thermoelectric Cooler
ASHLEY GILMAN
Comparisons of three end-of-life care facilities in the New York Capital District
SANGIN LEE
Detecting Deception
JESSE MANGO
Modeling Photosynthesis in the Feathermoss Pleurozium Schreberi
ARIEL PALTER
Genocide in Darfur: What We Know. What We Can Do
LINAH RUSERE
Syntheses and Crystal Structures of Mono-, Di- and Trinuclear Cobalt Complexes with a Salen Type Ligand
KENNETH WOOLSON
Metacollage
Session IV

2:00 – 3:20 p.m. Concurrent Oral Presentations

Arts Building—215
Art History & Studio Fine Arts

Moderator: David Ogawa

ROBERT FLICK
Exposed Pixels

SONIA HENDLER
Questioning Identity: Depictions of Women in American Popular Culture and Interpretations by Three Feminist Artists

PAULINE SCHWENK
John Singer Sargent

Social Sciences Building—016
Contemporary Social Problems: Crime, Health

Moderator: Janet Grigsby

AMY NESTLERODE
The CSI Effect

DANIELLE POMAROLE
Obstacles of Autism: A Parent Perspective

ALYSE SHERWIN
How to Successfully Integrate Alternative Medicine with Traditional Western Medicine

GENEVIEVE ST. HILAIRE
Medical Intervention in Childbirth: An Iatrogenic Disease

Bailey Hall—201
Mathematics III

Moderator: Julius Barbanel

JENNIFER HOUGH
Did the Ancient Greeks Invent Calculus?

BILAL MAHMOOD
Medieval Islamic Mathematics and Tile Art Geometry

VALENCIA STARR
Mayan Mathematics

Bailey Hall—207
Neuroscience III

Moderator: Stephen Romero

LINDSAY LARABEE
Self-effacing and Face processing: Why is it harder to process our own face?

NATALIA LUDWIG
The Effect of Low-Impact Strengthening Exercise on Neuropsychiatric Performance and Brian Volume in Demented Patients

JENNA MONASTER
The effects of glucose on memory

NATALIE ULLMAN
Brain Activation During Item-Specific and Relational Processing
Session IV

2:00 – 3:20 p.m.  Concurrent Oral Presentations

Bailey Hall—312  Psychology II

HILARY KASPRZAK  Underlying Motivations Behind Working Out: Individuals' Motivations to Workout and What This Tells Us About Who They Are

ANNA KUSCHPEL  Gender differences in religiousness as a function of self-monitoring

VICTORIA PAGANO  Mood and Moral Judgment: The Role of Self-Monitoring

AMANDA SLOWIK  The Susceptibility to Employ Labels of Abnormality: The Role of Need for Cognition

Moderator: Kenneth DeBono

Humanities Building—014  English Honors Thesis I

ASHLEY BANTA  American Indian Representations in Late 20th Century Films and Novels: Beyond Binaries

RACHAEL FEDERICO  “Not Reality. Actuality.”: Tracing the Truth Claim and the Gothic in Contemporary Memoirs

YOLALINE JEAN  The Anatomy of Jane

Moderator: Anupama Jain

Humanities Building—019

Down in Rio: Constructing Social and Gender Identities in Recent Brazilian Cinema

SANTOS AVILA  Latinos In Major League Baseball

ANNE BENFIELD  The Entertaining and Artificial Interpretation of Life in the Favela: Fernando Meirelles’ Cidade de Deus

AMELIA WHITNEY  Madame Satan: Male Identities in Contemporary Brazilian Film

Moderator: William Garcia

Humanities Building—112  Classics I

JEFF ADAMS  A Roman Tyranny?

GIANCARLO ANNESE  Ovid’s Heroides as an Exercise in the Scorned Female Lover

ALLISON BAUM  The Evolution and Migration of the Trojan Myth in Ancient Greece and Rome

SAMANTHA ZAYAS  Transforming Texts: Minerva and Arachne in the Present Day

Moderator: Stacie Raucci
Session IV

2:00 – 3:20 p.m. Concurrent Oral Presentations

Olin Building—106 Biological Sciences I

Moderator: Scott Kirkton

KAITLIN ARNTZEN
Effects of oviposition on jump performance in the American locust (Schistocerca americana)

BRIDGET DUFFY
Growth within an instar reduces jumping performance in American locusts (Schistocerca americana)

JEN LIBOUS
Lipid Rafts play a role in normal human follicle stimulating hormone receptor (hFSHR) Signaling

JESSICA ROSENBLOOM
Probing human follicle stimulating hormone receptor interactions with caveolin

Olin Building—115

A Selection of Presentations from Various Disciplines IV

Moderator: Fernando Orellana

KATHRYN KRAKOWKA
The Production of Sound in Woodwind Instruments

DEAN PASQUERELLA
Design of a Light Transmission Based Thermochromic Liquid Crystal Temperature Sensor to Assess Neuropathy of the Diabetic Foot

JAMES SCHWABACH
“Where Have You Gone Joe DiMaggio?”: Are Sports Heroes Superfluous Today?

GABRIEL WEBSTER
Exploration with Processing

Olin Building—306 Electrical Engineering I

Moderator: James Hedrick

ERMIN ARIAS
The Baby Protector

LUIS GARCIA
Road Wake-Up Call

JOHNNY JEAN-CALIXTE
Road Wake-Up Call

SAMI HABAYEB
Design Considerations for Sound and Vibration Monitoring

DANIEL HARKENRIDER
Amateur Radio Repeater

Olin Building—307 Environmental Science & Geoscience II

Moderator: Holli Frey

LEIGH MASTIN
Physical and Geochemical Analysis of Tephra Deposits Surrounding Volcán Tepetitlán

ROSALBA QUEIROLO
Exhumation History of the Lepontine Dome in the Southern Swiss Alps

DANIELLE WINEBERG
Risk assessment and the distribution of tephra deposits of the eruption of Volcán Tepetitlán
Session IV

2:00 – 3:20 p.m. Concurrent Oral Presentations

Science & Engineering Center—N005
Renewable Energy

Moderator: Richard Wilk
REBECCA DAMBERG-MAUSER — Design of a Solar Rice Drying System for Farmers in Southeast Asia
GUO HONG HO — Solar Powered Thermoelectric Ice Maker
DAVID NOYES — Rainwater Powered Micro Hydro System for a Building
FUYU XU — Design of a Hybrid PV/T Solar Air Heater System

Science & Engineering Center—N304
Astronomy & Physics

Moderator: Rebecca Koopmann
PAUL AMY — Spectroscopy of Nearby Galaxies Using the Union College Observatory
RICHARD BONVENTRE — Extraction of Yields for Neutral Meson Photoproduction from the Proton and 3He with the CLAS Detector at Jefferson Lab
NATHAN CALABRO — Promoting Public Participation in the Sciences: The Design of an Astronomy Museum Display
CHRISTIAN SHULTZ — Photoproduction of Light Mesons Using the CLAS Detector at JLab

Social Sciences Building—012
Political Science II

Moderator: Guillermia Seri
JENNIFER DALEN TA — With hope and justice for all…
KATRINA NEILEY — Surviving Conflict the Belgian Way
VARUN SHETTY — India, China, and the Politics of AIDS
### Session IV

**2:00 – 3:20 p.m. Concurrent Oral Presentations**

#### Social Sciences Building—014

**Anthropology II**

<table>
<thead>
<tr>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>REBECCA ALTNEU</td>
<td>The Dichotomy Between Government Rhetoric and Reality: Literacy in Costa Rica</td>
</tr>
<tr>
<td>ALEX HANDIN</td>
<td>Southern Louisiana Hurricane Recovery: A Photo Documentary</td>
</tr>
<tr>
<td>KAITLIN PICKETT</td>
<td>Race &amp; Gender Discrepancy in Urban Public Elementary Education: A Case Study</td>
</tr>
<tr>
<td>ELIZABETH STANFORD</td>
<td>Growing Cricket in Tasmania</td>
</tr>
</tbody>
</table>

**Moderator: Sharon Gmelch**

### Social Sciences Building—017

**Applied Economics**

<table>
<thead>
<tr>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COURTNEY CHAIS</td>
<td>Tourism Trends and Patterns: What are the Determining Factors?</td>
</tr>
<tr>
<td>JOHN TRAVER</td>
<td>The Truth About Fair Trade Coffee</td>
</tr>
<tr>
<td>STEPHEN WALKER</td>
<td>Cashing in on School: What Factors of a High School Education Impact Future Incomes</td>
</tr>
</tbody>
</table>

**Moderator: Mehmet Sener**
### Session V

**3:30 – 5:10 p.m. Concurrent Oral Presentations**

**Arts Building—215**

**The Body in Science, Media & the Arts**

<table>
<thead>
<tr>
<th>Presenter</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SHANNON DAVI</td>
<td>Tattooing Human Nature: A Cross-Cultural Study of Ancient World and East Asian Tattooing</td>
</tr>
<tr>
<td>NATALIE GROME</td>
<td>Media’s Dream Body: A Comparative Study of Body Image in Latin America &amp; the US</td>
</tr>
<tr>
<td>MEREDITH NEARPASS</td>
<td>Nutrition and the Female Athlete Triad</td>
</tr>
<tr>
<td>RACHEL START</td>
<td>Layers: Exploring the Human Structure</td>
</tr>
<tr>
<td>KIMBERLY TURECK</td>
<td>Autism in Scientific and Popular Media, Cinematic Portrayals, and Personal Accounts</td>
</tr>
</tbody>
</table>

**Moderator:** Jennifer Matsue

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**Bailey Hall—201**

**A Selection of Presentations from Various Disciplines V**

<table>
<thead>
<tr>
<th>Presenter</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>WENDY BEATTY</td>
<td>Creativity in the Engineering Design Process</td>
</tr>
<tr>
<td>ALFREDO GUEVARA</td>
<td>Internet Piloted Blimp</td>
</tr>
<tr>
<td>JEFF JONES</td>
<td>The New &amp; Improved Thermoacoustic Organ</td>
</tr>
<tr>
<td>JESSICA RUDIN</td>
<td>A Statistical Analysis of Financial Aid and Matriculation Rates at Union College</td>
</tr>
<tr>
<td>SARAH VERGEAUX</td>
<td>Suicide prevention and outreach project on the Union College campus</td>
</tr>
</tbody>
</table>

**Moderator:** John Spinelli

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**Bailey Hall—207**

**Neuroscience IV**

<table>
<thead>
<tr>
<th>Presenter</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>THERESA FOITO</td>
<td>Determinants of Maintaining a High Physical Activity Level in College Students and the Elderly</td>
</tr>
<tr>
<td>SAMANTHA LIGHTCAP</td>
<td>The cognitive impacts of neurodegeneration on learning and related neuronal plasticity in patients with probable Alzheimer’s Disease</td>
</tr>
<tr>
<td>ALISON STONE</td>
<td>Neuropsychological Effects of Mental Exercise for Older Adults</td>
</tr>
<tr>
<td>SARAH WESTEN</td>
<td>Neuropsychological Effects of Exercise for Aging Women: Role of Steroid Hormone Biomarkers</td>
</tr>
</tbody>
</table>

**Moderator:** Cay Anderson-Hanley

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**Bailey Hall—312**

**Psychology II**

<table>
<thead>
<tr>
<th>Presenter</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIANA GOODMAN</td>
<td>Autism and the Brain</td>
</tr>
<tr>
<td>KATHLEEN O’CONNOR</td>
<td>An Overview of Savant Syndrome</td>
</tr>
<tr>
<td>KRISTEN PECHTOL</td>
<td>The Mozart Effect and Other Misbeliefs About Psychology</td>
</tr>
<tr>
<td>GEOFFREY RAYNOR</td>
<td>Self-Disclosure in Japanese and American College Students</td>
</tr>
</tbody>
</table>

**Moderator:** Christopher Chabris
3:30 – 5:10 p.m.  Concurrent Oral Presentations

Humanities Building—014

English Honors Thesis II

CARLY CHASIN  Live Free or Die: Women who Choose Death in Twentieth-Century American Literature and Film

REBECCA CHAWNER  “Changing the Story”: A Study of the Portrayal of Women in Twentieth-Century Irish Literature

SARAH SAMSON  Stained Glass Windows: A Collection of Poetry

Moderator: Anupama Jain

Humanities Building—019

Border Mini-term

NATALIE AZZOLI  Important Cities on the Mexican-American Border

MALYSA CHENG  Border Mini-term

DANA GOLDSMITH  Border Mini-term

DANNA DEBLASIO  Border Mini-term

ALYSSA HOLMES  Border Mini-term

CARLY AIMI  Border Mini-term

WENDY LUKS  Maquildoras and poverty along the US/Mexican border

ROSANNY CUELLO  Maquildoras and poverty along the US/Mexican border

CAITLIN MAGUIRE  Border Mini-term

SARA MELTON  Border Mini-term

ALISON HINKATY  Border Mini-term

Moderator: Victoria Martinez

Humanities Building—112

Classics II

KENNETH FALCON  Power and Gender in Homer’s Iliad

JOHN PAUL FELICIANO  A Literary Commentary on Livy’s Early History of Rome and His Handling of Women

CLAIRE HENDRY  Barbarians Through the Eyes of a Roman

Moderator: Stacie Raucci

Olin Building—106

Molecular & Cellular Biology

MICHAEL GALLAGHER  Epitope FLAG-tagging the Schizophyllum commune sugar transporter Sts1 by means of splicing by overlap extension

DIONNA KASPER  Defining the role of the sugar transporter sts1 in sexual development of the mushroom Schizophyllum commune

LEA VEDDER  Phagocyte localization and function during organismal apoptosis and regeneration in Botryllus Schlosseri

ANDREW WILKS  140kD Palladin Localization in Endothelial Cells Under Fluid Shear Stress

Moderator: J. Stephen Horton
## Session V

### Concurrent Oral Presentations

**Olin Building—115**

**Aerogels**

<table>
<thead>
<tr>
<th>Speaker</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>EMILY GREEN</td>
<td>Sol-Gel Processing of Energetic Materials Via Rapid Supercritical Extraction</td>
</tr>
<tr>
<td>SEAN MAGINESS</td>
<td>Hydrophobic Aerogels: Reducing Surface Drag Through Water</td>
</tr>
<tr>
<td>CALEB WATTLEY</td>
<td>Oil Spills and Aerogels</td>
</tr>
<tr>
<td>MICHAEL BONO</td>
<td>Alumina Aerogels made using Rapid Supercritical Extraction</td>
</tr>
<tr>
<td>XIAOLE XIE</td>
<td>The Micro-mechanical Modeling of Aerogel under Compression</td>
</tr>
</tbody>
</table>

**Moderator:** Ann Anderson

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**Olin Building—306**

**Electrical Engineering II**

<table>
<thead>
<tr>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>STEVE BODDORFF</td>
<td>Bass Synthesizer Interface</td>
</tr>
<tr>
<td>JOSEPH CIABURRI</td>
<td>Tool for Improving Non-Native French Speech Pronunciation</td>
</tr>
<tr>
<td>PETER KATLIC</td>
<td>Integrated Workout Shoe</td>
</tr>
<tr>
<td>GREGORY MCGRATH</td>
<td>Cell Phones, Barcodes, and the Cheapest Internet Prices</td>
</tr>
<tr>
<td>GREGORY MAIER</td>
<td>Cell Phones, Barcodes, and the Cheapest Internet Prices</td>
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</tbody>
</table>

**Moderator:** Shane Cotter

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**Olin Building—307**

**Environmental Science & Geoscience III**

<table>
<thead>
<tr>
<th>Speaker</th>
<th>Title</th>
</tr>
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<tbody>
<tr>
<td>SAMUEL BASTA</td>
<td>Calibrating recent sedimentary sequences from the proximal basin of a large glacially fed lake with hydroclimate data, Kenai Peninsula, Alaska</td>
</tr>
<tr>
<td>ERICA ERLANGER</td>
<td>Reconstructing the Sitka, Alaska temperature record using tree-ring widths from 8 chronologies in the Gulf of Alaska</td>
</tr>
<tr>
<td>KARA GILLIVAN</td>
<td>Changes on the Harding Icefield and three mountain glaciers through the 20th century</td>
</tr>
<tr>
<td>SADIE GORMAN</td>
<td>Bioaccumulation of ultraviolet filter chemicals in Lumbriculus variegatus</td>
</tr>
<tr>
<td>MONICA TSE</td>
<td>Photochemical degradation of UV filter chemicals in surface waters</td>
</tr>
</tbody>
</table>

**Moderator:** Laura MacManus-Spencer

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**Science & Engineering Center—N205**

**Mechanical Engineering**

<table>
<thead>
<tr>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>JORDAN CINELLI</td>
<td>Design and Construction of a Froude Scale Testing Apparatus</td>
</tr>
<tr>
<td>JEFFREY HUTCHISON</td>
<td>Position Control of a Fan Powered Pendulum Using a PID Controller</td>
</tr>
<tr>
<td>KARL OKESON</td>
<td>Fossil Fuel Addiction - How can we take steps towards the future?</td>
</tr>
<tr>
<td>CHARLES WOOD</td>
<td>Nanomorphology of Advanced Materials is Novel Solar Cell Design</td>
</tr>
</tbody>
</table>

**Moderator:** David Hodgson
3:30 – 5:10 p.m. Concurrent Oral Presentations

Social Sciences Building—012

Political Science III

ANDREW CUMMINGS
Cuba and the Soviet Union: An Island Nation’s Struggle for Sovereignty

ERIC GAROFANO
Bush I, Clinton and Israel

MICHAEL STABINSKI
Privatization Potential of the United States Postal Service

JOHN TOMLIN
MeetThePrez.net

JONATHAN WILCON
American Liberty: The Theory, The Founders, and the Threats

Social Sciences Building—014

History II

ANDREW BIGNESS
Thomas More and English Anticlericalism in the Context of his Public Career

HEATHER CUNNINGHAM
The other white monks: A new approach to the Cistercian order in Yorkshire, England

KRISTIN HISSONG
Moroccan Jewry: A Historical Look at Maghrebian Immigration, Isolation, and Identity

SOPHIA SOFFERMAN
The Nile River: Egypt’s Snake Shaped Gem

LAUREN YOUNGMAN
Richard III in History and Postmodern Theory

Social Sciences Building—016

From Wine to Sauce to Brakes and More: Entrepreneurship at Union College

BRITTANY ADAM
Crest Wave Energy

ALLEN PIEKARA
Crest Wave Energy

JENNA MONASTER
Entrepreneurs in a liberal arts facility? How liberal arts fuels business success

JAY SHAH
Second Breath, Inc. Presentation at National Business Plan Competition

SHANE HUBBELL
Second Breath, Inc. Presentation at National Business Plan Competition

STEPHEN VOTTO
Votto Vines Importing

STEPHEN WALKER
Rhe-Aux Technologies: Business Plan Presentation

NIRAV SHAH
Rhe-Aux Technologies: Business Plan Presentation

CARA GALLIVAN
Rhe-Aux Technologies: Business Plan Presentation

MARGARET CALLAHAN
Rhe-Aux Technologies: Business Plan Presentation

Social Sciences Building—017

Topics in Economics

JOSH DEBARTOLO
The Creation of a Welcoming Engaging Destination

THOMAS HAYNES
The Wealth Effect of the Housing Market

SCOTT MORLANDO
The Economics of Disease Ecology: Lyme Disease, Habitat Management, and Cost/Benefit Analysis in the Albany Pine Bush Preserve

WALTER YUND
The Effects of Non-Renewable Energy Reserves: Price and Policy

Yulman Actors Studio

Performance

ZACHARY BARASH
Improvisational Theater Performance
Session VI

12:30 – 2:00 p.m. Concurrent Oral Presentations

Reamer Campus Center

Moderator: Barbara Pytel

Poster Session

SHAZIA BAIG
Preparation and Analysis of Metal-Complex-Doped Silica Aerogels

BENJAMIN BAUER
Mexican Immigration to the U.S.: Realities, Dynamics and Debates

NATALIE BERNARDI
“You Can’t Say That!”: Situational and Individual Factors Involved in Confronting Prejudice

JUSTIN BLAU
Paint media analysis by gas chromatography mass spectroscopy and infrared spectroscopy

KATHARINE DAVIS
Involvement and Achievement in College Students

MARIA Dzialo
Mutations in Melanocortin 1 – Receptor (MC1-R) Observed in Lead Back Color Morphs of Plethodon cinereus

EVAN PLACE
Mutations in Melanocortin 1 – Receptor (MC1-R) Observed in Lead Back Color Morphs of Plethodon cinereus

ROBERT FLICK
The indefinite progress of existence and events in the past, present, and future regarded as a whole

MATTHEW FULGhum
Steam Power: Its Past, Present, and Future Uses

NATASHA LUDWIG
Is Inference Better Than Instruction? Direct and Indirect Word Learning Strategies in Children: A look at Serial Position

IAN SOLON
The Improvement of Dehumidification Capabilities of an Air Conditioner
Visual Arts Exhibition — May 2nd and 3rd

Burns Arts Atrium Gallery  •  Arts Building

Drawing and Painting Exhibition

Faculty Sponsor — Walter Hatke
Natalie Azzoli
Shannon Brady
Sarah Coleman
Kelly Craparotta
Robert Eastman
Elizabeth Hart
Neena Jube
Jessie Korner
Kate MacEwan
Sarah Mueller
Annabelle Murphy
Monica Rowett
Brace Thompson
Zach Warner
Patrick Wilson

Photography Exhibition

Faculty Sponsor — Professor Martin Benjamin
Megan Chiriani
Meghan Haley-Quigley
Jarid Hotaling
Stella Kyung
Tobias Leeger
Steven Leung
Lauren Muske
Elizabeth Paul
Daniel Phakos
Jonathan Scheff
Megan Seisel
Robert Shirley
Paul Stuckey

Printmaking, Design Fundamentals and Advanced Drawing Exhibition

Faculty Sponsor — Sandy Wimer

PRINTMAKING: RELIEF
Mia Simone
Kara Gillivan
Alexandra Lindsey
Liam Cronin
Emily Burgess
Fen Huang
Dana Katz
Pam April
David Mostrom

DRAWING II:
Lisa Crescenzo
Brandon McArdle
Alex Handin

DESIGN FUNDAMENTALS I:
Amanda Purner
Dolev Melemed

PRINTMAKING: ETCHING:
Michael Bono
Kelly Craparotta
Leah Jacobs

Vietnam 2007 term participants:
Natalie Bernardi
Anthony Fine
Catherine Griffin
Graham Kaplan
Michael McAndrew
Brittany Miller
Meggie Moriarty
Monica Rowett
Sarah Scott
Will Wilkins

2nd Floor Photography Gallery
Cam Berjoan
Ian Brennan
Elizabeth Culp
Robert Flick
Michelle Koo
Tobias Leeger
Charlotte Messervy
James Morton
Katherine Newingham
Frank Spendley
Rachel Start
Brendan Spendley
Rachel Tarica
Megan Weill

Digital Exhibition

Faculty Sponsor — Fernando Orellana
Jessica Trotter
Vit Ruzicka
Jan Novak
Jan Vratislav
Ondrej Nikel
Alexandra Lindsay
Elizabeth Culp
Katherine Cissel
Liam Cronin
Russell Goldberg
Alexandra Lindsay
Alex Handin
Jaclyn Brick
Elisabeth Duquette
Eleanor Hazlett
Erica Finkelstein
Brandon McArdle

Sculpture Exhibition

Faculty Sponsor — Chris Duncan
Emily Burgess
Liam Cronin
Chris Foley
Allison Perse
Brace Thompson
Rachel Titcomb
Hilary Zelson
Amanda Wald
Lauren Wetherell
Wes Whitaker

Exhibition — Burns Arts Atrium Gallery
2nd Floor Photography Gallery

Burns Arts Atrium Gallery
Union College Jazz Ensemble

Saturday, May 3, 2008 • 1:00-2:00 p.m.

Professor Timothy Olsen, Director
Taylor Music Center
Fred L. Emerson Foundation Auditorium

FLUTE
Marissa Gaines ’10

CLARINET
Stacy Paull ’10
Alex Post ’11

SOPRANO SAX
Philip Sommo ’11

ALTO SAX
Ed Milde ’11
Matt Zawodniak ’10

TENOR SAX
Greg Bloom ’11
Peter Bonventre ’11
Avery Gray ’11
Kyle Marmelstein ’08

BARI SAX
Chelsea Zantay ’11

TRUMPET
Mike Gillin ’08
Nick Potvin ’09
Elias Samia ’11

TROMBONE
Natalie Ullman ’10

VIOLIN
Alex Handin ’10

PIANO
Luke Bryden ’09
Rie Ono ’08
Tom Perry ’09

GUITAR
Kyle Grimm ’08
Peter MacDonald ’09

BASS
William Glynn ’08

DRUMSET/PERCUSSION
Andrew Donnelly ’10
Will Hernandez ’09
Andrew Salvo ’08

VOCALS
Alex Handin ’10
Will Hernandez ’09
Steinmetz Concert 2008

The Union College Choir
The Union College and Community Orchestra

Friday, May 2, 2008
8:00 p.m. — Memorial Chapel

Victor Klimash, Conductor

Program

I

Russian Easter Overture
Nikolai Rimsky Korsakov
The Union College and Community Orchestra

II

Four Passion Choruses from Messiah
George Frideric Handel

Behold the Lamb of God
Surely He hath born our griefs
And with his stripes
All we like sheep

The Union College Choir
The Union College and Community Orchestra

Intermission

III

La Veritat? (World Premier)
Andrew Laccetti ('08)

Apacacio de la Bellesa
Espiral Urbana

IV

Concerto No. 2 in G minor
Camille Saint Saens

Allegro Moderato
Allegro Scherzando
Presto

Heidi Ching ('10), piano
The Union College and Community Orchestra