Schedule of Events

Recognition Weekend • May 2-3, 2008

Friday, May 2nd

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

Golub House

6:30 p.m. Steinmetz Symposium Banquet

Upperclass Dining Hall

For Symposium presenters, their parents, guests, and faculty sponsors

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

Reamer Campus Center Patio

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 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.

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.

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.

Dedication

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.

Session

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

Bailey Hall—201 Moderator: Brenda Johnson

Mathematics I

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 Moderator: Quynh Chu-LaGraff

Neuroscience I

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 Moderator: Joshua Hart

Psychology I

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 PULLEYDo We Perceive Eating Disorders as Addictions? **DANA SEIDLER**Lucid Dreaming: Effects on Mood and Health

Humanities Building—014

Writing & Literature

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

Moderator: April Selley

Moderator: Pilar Moyano

Moderator: Michelle Chilcoat

Moderator: David Cotter

Moderator: Kristin Fox

Session

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

Humanities Building—019

Seville, Spain, Term Abroad I

JESSICA CARDINALE Environmental Progress: A Comparative Study of the United States and Spain

CHELSEA HARGISThe Language Barrier at Work in Spain **STEVE HERRON**An Introduction to the Flamenco Guitar

Humanities Building—112

French & Francophone Studies I

ERICA ERLANGER Seeing Natural Disaster in the French Antilles through Science, Education, and Literature

MAEVE KEHOE Attitudes Towards Bilingualism in Canada

MOLLY MERZ

An Informative Look at the Haitian Community in Boston

ELIZAVETA SAGUIRIAN

Paradis ou Réalité?: An Analysis of Tourism in Martinique

Olin Building—106

Media, Muslims and Medicine: Sociological Analyses

MARY ABRAHAM Ayurveda: India's best kept secret

GERALDINE EMMANUEL Victim, Sidekick, or Clown: The Depiction of South Asians in Western Television and Film

NAAZIA HUSAIN The Psychosocial Impact of 9/11 on Young American Muslims

Olin Building—115

Biochemistry & Chemical Biology

ALEXANDER CARRESECloning and Expression of a Putative Metacaspase Gene from Schizophyllum commune

OLGA DAVYDENKOQuantum Dots as FRET Donors in Molecular Beacons

SYED HUSSNAIN Cloning and expression of Scp1, a yeast metacaspase homologue, from Schizophyllum

commune

LATOYA ROPER The Synthesis of Polypeptide Analogues used as Molecular Transporters

Session

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

Olin Building—307

Moderator: John Garver

Moderator: Kelly Black

Moderator: Samuel Amanuel

Moderator: Janet Grigsby

Environmental Science & Geoscience I

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

BENJAMIN BUNESOne-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

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

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

JEFFERY CHAOThe impact of sexual orientation on the comfort levels in interracial relationships

FELISA WILLIAMS The Perceived Deviance of African American Male Sexuality

Session

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

Social Sciences Building—014

Anthropology I

CARLY AIMI Universal Human Rights? A Cross Cultural Perspective on Women's Rights in Fiji and the

Moderator: Karen Brison

Moderator: David Cervone

Moderator: Ellen Foster

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

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

ILYA ASPISAIDS 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 Inlfuences 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 Imparied

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

Representing Power in a Future United Nations Security Council

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

ELLIOT IMLERUsing delay timing to determine the information content

JACQUELINE TUTHILLStructure of visual neurons in the dragonfly brainZACH PORTMANA Computer Model of Dragonfly Prey Interception

Session |

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

Bailey Hall—312

Moderator: George Bizer

Moderator: Thomas Lobe

Moderator: Pilar Moyano

Moderator: Michelle Chilcoat

Social/Personality Psychology

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

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

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

JOSEPH CIABURRI Paralleling Genre and Gender in French Film HILARY HANDIN 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

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

Moderator: Jaclyn Cockburn

Moderator: Michael Hagerman

Moderator: William Keat

Moderator: Michele Angrist

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

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 Polypyridine 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

Bioengineering & Mechanical Engineering

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

Including Sustainability Issues in a Heating, Ventilating, and Air Conditioning Course

SCOTT CARROLLOptimization of ROV for Ballston Lake ExplorationRICHARD PLUTOOptimization of ROV for Ballston Lake ExplorationLAURA EYMANDevelopment of a Portable Toughness Tester

ALEX WEINTRAUB Determination of the Loading on Bird Feather Shafts

Social Sciences Building—012

Political Science I

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

Moderator: Mark Walker

Moderator: Bradford Bruno

Moderator: Lewis Davis

Moderator: Timothy Olsen

Session |

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

Social Sciences Building—014

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

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 III Ought Not Be Capitally Punished: Supreme Court sets Precedent

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

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

Music

RICHARD MOCCIA Skating, Skanking, and the Ska Community: Unity in North American Third Wave Ska

KYAN NAFISSIThe 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

Session ||

12:20 – 1:50 p.m. • Theater & Dance Department (cont'd)

Ballet III

Atom Heart Mother Suite Choreographed by Miryam Moutillet

> 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 Moutillet

> 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 ||

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

Butterfield Hall—100

Demonstration

BRENT BLYTHE Rhe-Aux : Magnetorheological Auxilliary Brake System for Heavy Capacity Vehicles

Moderator: Linda Almstead

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

BENJAMIN ATKINS Color Pickr

VEDANT BORAD Preparation of an induction control strain

DUSTIN CONNELLYHPV AwarenessJUSTIN SCHMIEDELHPV 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

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

Arts Building—215 Moderator: David Ogawa

Art History & Studio Fine Arts

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 Moderator: Janet Grigsby

Contemporary Social Problems: Crime, Health

AMY NESTLERODE The CSI Effect

DANIELLE POMAROLE Obstacles of Autism: A Parent Persepctive

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

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

Bailey Hall—201 Moderator: Julius Barbanel

Mathematics III

JENNIFER HOUGH Did the Ancient Greeks Invent Calculus?

BILAL MAHMOOD Medieval Islamic Mathematics and Tile Art Geometry

VALENCIA STARR Mayan Mathematics

Bailey Hall—207 Moderator: Stephen Romero

Neuroscience III

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

NATASHA 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

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

Bailey Hall—312 Moderator: Kenneth DeBono

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

Humanities Building—014

English Honors Thesis I

ASHLEY BANTAAmerican 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

Moderator: Anupama Jain

Moderator: William Garcia

Moderator: Stacie Raucci

YOLAINE JEAN The Anatomy of Jane

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 Artifical Interpretation of Life in the Favela: Fernando Meirelles'

Cidade de Deus

AMELIA WHITNEY Madame Satan: Male Identities in Contemporary Brazilian Film

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

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

Olin Building—106 Moderator: Scott Kirkton

Biological Sciences I

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 (Schistocera

americana)

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

Signaling

JESSICA ROSENBLUM Probing human follicle stimulating hormone receptor interactions with caveolin

Olin Building—115

Moderator: Fernando Orellana

A Selection of Presentations from Various Disciplines IV

KATHRYN KRAKOWKA The Production of Sound in Woodwind Instruments

DEAN PASQUERELLADesign 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 Moderator: James Hedrick

Electrical Engineering I

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 Moderator: Holli Frey

Environmental Science & Geoscience II

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

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 Tepetiltic

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

Science & Engineering Center—N005

Moderator: Richard Wilk

Moderator: Rebecca Koopmann

Moderator: Guillermina Seri

Renewable Energy

REBECCA DAMBERG-MAUSER Design of a Solar Rice Drying System for Farmers in Southeast Asia

GUO HONG HOSolar Powered Thermoelectric Ice Maker

DAVID NOYESRainwater 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

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

LILLY BRIGER Engaging China in the 21st Century: An Analysis of U.S.-Chinese Relations and

Recommendations for the Future

JENNIFER DALENTA With hope and justice for all...

KATRINA NEILEY Surving Conflict the Belgian Way

VARUN SHETTY India, China, and the Politics of AIDS

Moderator: Sharon Gmelch

Moderator: Mehmet Sener

Session IV

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

Social Sciences Building—014

Anthropology II

REBECCA ALTNEU The Dichotomy Between Government Rhetoric and Reality: Literacy in Costa Rica

ALEX HANDIN Southern Louisiana Hurricane Recovery: A Photo Documentary

KAITLIN PICKETT Race & Gender Discrepancy in Urban Public Elementary Education: A Case Study

ELIZABETH STANFORD Growing Cricket in Tasmania

Social Sciences Building—017

Applied Economics

COURTNEY CHAIS Tourism Trends and Patterns: What are the Determining Factors?

JOHN TRAVER The Truth About Fair Trade Coffee

STEPHEN WALKER Cashing in on School: What Factors of a High School Education Impact Future Incomes

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

Arts Building—215

Moderator: Jennifer Matsue

The Body in Science, Media & the Arts

SHANNON DAVINATALIE GROME
Tattooing Human Nature: A Cross-Cultural Study of Ancient World and East Asian Tattooing Media's Dream Body: A Comparative Study of Body Image in Latin America & the US

MEREDITH NEARPASS

RACHEL START

Nutrition and the Female Athlete Triad

Layers: Exploring the Human Structure

KIMBERLY TURECK Autism in Scientific and Popular Media, Cinematic Portrayals, and Personal Accounts

Bailey Hall—201 Moderator: John Spinelli

A Selection of Presentations from Various Disciplines V

WENDY BEATTY Creativity in the Engineering Design Process

ALFREDO GUEVARA Internet Piloted Blimp

JEFF JONES The New & Improved Themoacoustic Organ

JESSICA RUDIN A Statistical Analysis of Financial Aid and Matriculation Rates at Union College

SARAH YERGEAU Suicide prevention and outreach project on the Union College campus

Bailey Hall—207 Moderator: Cay Anderson-Hanley

Neuroscience IV

THERESA FOITO Determinants of Maintaining a High Physical Activity Level in College Students and the

Elderly

SAMANTHA LIGHTCAP The cognitive impacts of neurodegeneration on learning and related neuronal plasticity in

patients with probable Alzheimer's Disease

ALISON STONENeuropsychological Effects of Mental Exercise for Older Adults

SARAH WESTEN Neuropsychological Effects of Exercise for Aging Women: Role of Steroid

Hormone Biomarkers

Bailey Hall—312 Moderator: Christopher Chabris

Psychology II

DIANA GOODMAN Autism and the Brain

KATHLEEN O'CONNOR An Overview of Savant Syndrome

KRISTEN PECHTOL The Mozart Effect and Other Misbeliefs About Psychology **GEOFFREY RAYNOR** Self-Disclosure in Japanese and American College Students

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

Moderator: Anupama Jain

Moderator: Victoria Martinez

Moderator: Stacie Raucci

Moderator: J. Stephen Horton

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

Humanities Building—019

Border Mini-term

NATALIE AZZOLI Important Cities on the Mexican-American Border

MALYSA CHENGBorder Mini-termDANA GOLDSMITHBorder Mini-termDANNA DEBLASIOBorder Mini-termALYSSA HOLMESBorder Mini-termCARLY AIMIBorder Mini-term

WENDY LUKSMaquildoras 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

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

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 KASPERDefining 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

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

Olin Building—115

Moderator: Ann Anderson

Aerogels

EMILY GREEN Sol-Gel Processing of Energetic Materials Via Rapid Supercritical Extraction

SEAN MAGINESS Hydrophobic Aerogels: Reducing Surface Drag Through Water

CALEB WATTLEY Oil Spills and Aerogels

MICHAEL BONO

Alumina Aerogels made using Rapid Supercritical Extraction

XIAOLE XIE

The Micro-mechanical Modeling of Aerogel under Compression

Olin Building—306

Moderator: Shane Cotter

Electrical Engineering II

STEVE BODDORFF Bass Synthesizer Interface

JOSEPH CIABURRI Tool for Improving Non-Native French Speech Pronunciation

PETER KATLIC Integrated Workout Shoe

GREGORY MCGRATHCell Phones, Barcodes, and the Cheapest Internet Prices
Cell Phones, Barcodes, and the Cheapest Internet Prices

Olin Building—307

Moderator: Laura MacManus-Spencer

Moderator: David Hodgson

Environmental Science & Geoscience III

SAMUEL BASTA Calibrating recent sedimentary sequences from the proximal basin of a large glacially fed

lake with hydroclimate data, Kenai Peninsula, Alaska

ERICA ERLANGER Reconstructing the Sitka, Alaska temperature record using tree-ring widths from 8

chronologies in the Gulf of Alaska

KARA GILLIVAN Changes on the Harding Icefield and three mountain glaciers through the 20th century

SADIE GORMANBioaccumulation of ultraviolet filter chemicals in Lumbriculus variegatus **MONICA TSE**Photochemical degradation of UV filter chemicals in surface waters

Science & Engineering Center—N205

Mechanical Engineering

JORDAN CINELLI

JEFFREY HUTCHISON

KARL OKESON

CHARLES WOOD

Design and Construction of a Froude Scale Testing Apparatus

Position Control of a Fan Powered Pendulum Using a PID Controller

Fossil Fuel Addiction - How can we take steps towards the future?

Nanomorphology of Advanced Materials is Novel Solar Cell Design

Moderator: John Zumbrunnen

Moderator: Ashraf Ghaly

Moderator: Harold Fried

Moderator: Stephen Schmidt

Moderator: Patricia Culbert

Session **V**

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

Social Sciences Building—012

Political Science III

ANDREW CUMMINGSCuba and the Soviet Union: An Island Nation's Struggle for Sovereignty

ERIC GAROFANOBush 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 KRISTIN HISSONGThe other white monks: A new approach to the Cistercian order in Yorkshire, England Moroccan Jewry: A Historical Look at Maghrebian Immigration, Isolation, and Identity

SOPHIA SOFFERMAN LAUREN YOUNGMANThe Nile River: Egypt's Snake Shaped Gem
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
NIRAV SHAH
Rhe-Aux Technologies: Business Plan Presentation
Rhe-Aux Technologies: Business Plan Presentation
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

Moderator: Barbara Pytel

Session VI

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

Reamer Campus Center

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
"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

\overline{Visual} \overline{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

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 Goldenberg
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

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 Sesil Robert Shirley

Vietnam 2007 term participants:

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

Paul Stuckey

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 Steiner
Rachel Tarica
Megan Weill

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:

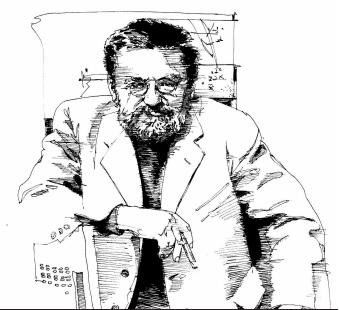
Lisa Crescenzo Brandon McArdle Alex Handin

DESIGN FUNDAMENTALS I:

Amanda Purner Dolev Melamed

PRINTMAKING: ETCHING:

Michael Bono Kelly Craparotta Leah Jacobs



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



I

Russian Eater 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) Apacacio de la Bellesa

Andrew Laccetti ('08)

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