

SESSION I

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

ARTS BUILDING – 215

Moderator: Carol Weisse

Student Environments & Experiences

Risa Dubow	The Salience of Peer Groups: A Comparison between Middle School and High School Students
Oriana Eyllon	Understanding the growth of evangelical Christian colleges through studying the social, cultural, and political environments on evangelical college campuses
Lauren Foye	The psychology of death: a mock undergraduate course
Elizabeth Weiner	Student Experiences at College and Home

BAILEY HALL – 201

Moderator: Cheryl Dickter

Self-Monitoring Styles

Lauren Brickman	A Correlational Study on Self Monitoring and Collegiate Athletes: Team, Individual, and Non-Athletes
Casey Chaffin	Self Monitoring and Product Name Preference
Karolina Cikowska	High and Low Self-Monitors: Who Makes a Better Friend?
Cara Murphy	Neuropsychological Effects of Alcohol on High-Self Monitor Undergraduate Students

BAILEY HALL – 312

Moderator: Robert Olberg

Neuroscience Biology

Olivier Richard Bouchard	Characterization of leg movements associated with electrical stimulation of the wind induced escape system in the cockroach <i>Periplaneta americana</i>
Alessandro Carini	Characterization of leg movements associated with electrical stimulation of the wind induced escape system in the cockroach <i>Periplaneta americana</i>
Katie Matho	Visual tracking of prey by dragonfly larvae
Brian Oveson	Behavioral and Anatomical Deviance as a Result of Inducing Glaucoma in Rat
Kaitlyn Tagarelli	Coding for Velocity and Looming by Target-Selective Descending Neurons in Dragonflies

HUMANITIES BUILDING – 014

Moderator: Hugh Jenkins

Sin, the Soul, and Torture

Regina Chiuminatto	Characters out of Context: Sketches from works by the masters
Gregory Ligon	Storytelling: The Process of Writing a Political Novel
Lauren Obst	The Crisis of the Soul: Discipline and Punishment from the Protestant Reformation to Present
Vincent Christina	“Sins of Virtue” – Stage Play

SESSION I

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

HUMANITIES BUILDING – 019

Moderator: Tarik Warch

Classics I

William Dewey	The Ancient World in Film: Case Studies
Vanessa Hernandez	Transformation between Life and Death in Ovid's Metamorphoses
Kelley Irmen	How has suicide changed? Political, literary, and philosophical suicides, ancient and modern
Doris Lo	The Greek Account of Persian Conquest

HUMANITIES BUILDING – 112

Moderator: Laura Loth

French and Francophone Studies I

Joseph Ciaburri	Shifting Dynamics of Power and Sexuality in French Film
Katherine Davies	Prestige and Knowledge: The System of Higher Education in France and "Les Grandes Ecoles"
Justin Silvestri	Resurrecting the French Revolution: From Historians to Popular Culture
Ashley Webster	Advertising in France

SCIENCE & ENGINEERING BUILDING – N304

Moderator: Michael Vineyard

Adventures in the Subatomic World

Richard Bonventre	Fiducial Cuts for the CLAS G3 Data Set
Bob Marvel	Development of a Relativistic Dynamics Experiment
Stephen Po-Chedley	Muon Lifetime Measurements and Determination of the Weak Force
Christian Shultz	Momentum corrections for the CLAS g1c and g3a data sets

SCIENCE & ENGINEERING BUILDING – N205

Moderator: Andrew Rapoff

Bioengineering & Fluidics

Alex Baumbach	A Novel Method to Evaluate Flow in a Prosthetic Bileaflet Heart Valve
Craig Ferguson	Modeling the Internal Flow of Droplets Undergoing Electro-capillary Propulsion
Brendon Keinath	Demonstrating Altered Kinematics from Ligament Injuries with a Three Dimensional Knee Model
Matthew Roginski	Bone Density Distribution in the Symphyseal Region of the Anthropoid Mandible Using Quantitative Micro Computed Tomography

OLIN BUILDING – 106

Moderator: Laurie Tyler

Applications of Synthetic Chemistry

Danielle Baldwin	Novel Synthesis of Dendrimers with exact substitution patterns
Lauren Carlson	Preparation of C2 Symmetric Transition Metal Complexes as Potential Chiral Catalysts
Long Nguyen	Epoxidation of trans-Stilbene with Dioxiranes
Jenna Welby	The Synthesis and Structural Characterization of Isotopically Labeled Asymmetric Metal Complexes through Metal Coupling of NMR Active Nuclei

SESSION I

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

OLIN BUILDING – 107

Moderator: Barbara Pytel

Cellular and Molecular Biology

Carolyn Castagna	Phagocyte Function during Death and Regeneration in a Colonial Sea Squirt
Eric D'Silva	Mutations in Melanocortin-1 Receptor (MC-1-R) Observed in <i>Plethodon cinereus</i>
Stacy Weinzoff	Mutations in Melanocortin-1 Receptor (MC-1-R) Observed in <i>Plethodon cinereus</i>
Kristen Laramie	Alternating DNA methylation and histone modifications to regulate gene transcription of luteinizing hormone receptor
Erika Selli	The role of Ppt1 during embryonic neural development in <i>Drosophila melanogaster</i>

OLIN BUILDING – 115

Moderator: Michele Angrist

Continuity and Change in Middle East Politics

Kathryn Boucher	A New Reconciliation for the New Millennium: U.S.-Libyan Relations in the 20th and 21st Centuries
Michael Eisnach	Technology and Democratization: A Study of Satellite Television and the Internet in the Arab World
Maureen Hsia	The History of Judeo-Persian Relations
Steve Walker	The Other Side of the World: 13 weeks in the Middle East

OLIN BUILDING – 306

Moderator: Chris Fernandes

Computer Science & Computer Engineering

Susan Beckhardt	A Pedagogical Tool for Usability Science
Philip Brown	Key Detection of Musical Signals
Benjamin Jones	S.A.I.L.S. Sailing Autonomously using an Intelligent Logistician System
Michael Siekman	Seismic Octave Programming for Analog to Digital Data Acquisition
Kelly Testa	Visualizing Geometric Shapes

SOCIAL SCIENCES BUILDING – 012

Moderator: Andrew Morris

Postwar New York History

Jonathan Thatcher	Losing a Local Identity: Decline and its Impact on Ticonderoga, NY
Sara Weiner	Deinstitutionalization and Development of Community Residential Services for the Mentally Disabled in New York.
Colleen Donlan	The City that Lit Up the World: How General Electric Changed Schenectady

SOCIAL SCIENCES BUILDING – 014

Moderator: Eshragh Motahar

Topics in Economics I

Stephanie Arango	The Impact of the Early 21st Century Financial Scandals on Socially Responsible Investing
Erin Campbell	How the End of the Cold War Changed the Politics of USAID Allocation
Michael Grady	To Grow or Not to Grow: The Impact of U.S. Bilateral Foreign Aid on GDP Growth
Mark Zagata	The Economic Impact of Casinos in Counties of Different Populations

SESSION I

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

TAYLOR MUSIC CENTER – 120

Moderator: Dianne McMullen

Musical Themes

Brian Card	Acoustical Characterization of Emerson Hall with Quantitative and Qualitative Comparisons to Memorial Chapel.
Margaret Licht	Freedom Songs in the Civil Rights Movement in their Greater Historical Context
Kara McCabe	Lecture Recital of Benjamin Britton's Song Cycle "Once on This Island"
Adam Young	An Analysis and Performance of Erik Satie's "First Gymnopédie"

SESSION II

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

ARTS BUILDING – 215

Moderator: Michelle Chilcoat

The Future Professors Present: Cultural Studies, Colonial Pasts and Questions of Race Today

Amarilis Francis	Black Britons: Recollecting West Indian Identity and History in Post-World War II Britain
Victoria Leonard	<i>Persil or Perejil</i> : A Study of the Concept of “Borders” between Haiti and the Dominican Republic in their Literatures and Histories
Jazmin Puicon	A cultural study of the rural people and working conditions throughout the generations in Del Cauca, Colombia

BAILEY HALL – 201

Moderator: Daniel Burns

Cognitive Psychology

Erica Dean	The Effect of Conceptual and Perceptual Word Processing On False Memories in the RM Paradigm
Kelly Fitzpatrick	The Perception of Formal, Informal, and Kreetatif Names
Judy Ng	The Effect of Glucose on Relational and Item-Specific Processing as a Function of Glucose gulation Ability
Douglas Wald	Asymmetry of Facial Expressions
Arisa Yamazaki	Relationship between Desirability to Learn and the Speed of Learning Faces and Names

BAILEY HALL – 312

Moderator: Stephen Romero

Neuroscience Psychology

Megan Abraham	The Effects of Repetitive Trans-Cranial Magnetic Stimulation on Patients with Chronic Bilateral Tinnitus
Daniel Andersen	Differential Activation of the Hippocampal Region Involved in Memory Encoding of Item-Specific vs. Relational Processes
Michele Goldman	Functional MRI and Eye Movement Desensitization and Reprocessing
Natasha Ludwig	Behavioral and Neuroimaging Study of Cognitive Skill Learning Related Neuronal Plasticity
Sophie Rosenbaum	Face Imaging: Do We Process Our Own Face Differently?

HUMANITIES BUILDING – 014

Moderator: Ann Anderson

A Selection of Presentations from Various Disciplines

Bridget Austin	The Alula: Not just a Hawaiian Greeting: The Alula and its Aerodynamic Effect on Avian Flight
Charles Holiday	Building Absurdist Theater on a Conservative Coast
Samantha Seide	Visions, Traditions, and the Art of Hyperreality: Concluding Thoughts and Photographs
Alexandra Toney	Laponite/EviDot Nanocomposite White LEDs

SESSION II

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

HUMANITIES BUILDING – 112

Moderator: Maritza Osuna

Latin-American Culture and Identity

Jessica Cardinale	A Study of Political Cartoons in Latin America
Jennifer Dalenta	Ancient wonders for modern society: the Incas
Chelsea Hargis	Soccer's Staggering Impact on Latin-American Cultures
Sidney Olefson	Our Vision: The Chicano Movement and Muralism
Jacob Shaffren	The Identity Crisis of Latin America

SCIENCE & ENGINEERING BUILDING – N205

Moderator: Richard Wilk

Mechanical Engineering Designing for the Future

Brent Blythe	Magneto-Rheological Fluid in Automotive Systems
Gregory Kanagaki	Magneto-Rheological Fluid in Automotive Systems
James Doane	Active Surface Airfoil: Airflow Control through Moving Boundaries
Michael Kiefer	Design of a Light-Powered Space Elevator Prototype
Matthew Leibel	Design of a Light-Powered Space Elevator Prototype
Matthew Waddell	Design of a Light-Powered Space Elevator Prototype
Gordon Single, Jr.	Inventing a medical device and bringing it to market

OLIN BUILDING – 106

Moderator: Joanne Kehlbeck

Chemical Biology

Aaron Almeida	The Synthesis and Evaluation of Novel Molecular Transporters
Megan Flahive	Cellular Uptake of Synthetic Molecular Transporters in MDCK Epithelial Cells
Katie Lee	The effects of the drug AFPep on the rat estrous cycle
Alexandra Paul	Determination of species identity of a previously uncharacterized <i>Bacillus subtilis</i> bacterium and the characterization of its antifungal properties
Felicia Spector	The Survival of the Allegheny woodrat: The Evaluation of a Possible Anti-Parasitic Compound in <i>Paulownia tomentosa</i>

OLIN BUILDING – 107

Moderator: Brenda Johnson

Mathematics I

Philip Biller	Using Polynomial and Normal Bases to Represent Finite Fields
Jessica DiMarco	John L. Drost's Proof of Ramanujan's Mod 7 Congruence Theorem
Thomas Mazur	Homology and Detector Networks
David Osei-Amoateng	Infinite Series and Approximations of Pi
Jacqueline Palermo	Public-key Encryption With Chebyshev Polynomials

SESSION II

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

OLIN BUILDING – 115

Moderator: Richard Fox

Topics in Political Science

Alla Abramov	Understanding through Experience: Research and Political Poetry in Europe's Last Dictatorship
Karyn Amira	Students for a Mine-Free World: A Grassroots Political Action Campaign
Jonathan Kurman	A Comparative Analysis of Medical Specialties' Views Toward Health Care Reform
Jason Lager	The Debate over Medical Marijuana and Why the Federal Government has Denied Treatment to the Nation's Sick
Max Zimbert	Idealism and Realism: The Rise, Peak, and Fall of Woodrow Wilson and the League of Nations

OLIN BUILDING – 307

Moderator: Donald Rodbell

New Advances in the Geosciences

Evan Bargnesi	Constraining depositional ages on detrital zircon in rocks of the San Andreas Fault Observatory at Depth – SAFOD
Scott Brady	Dating thermal maximums of the Mosherville Sandstone Member of the Galway Formation of the Cambro-Ordovician Beekmantown Group using detrital zircon fission-track thermochronology.
Matthew Smith	A Paleoclimatic Record, Interpreted by Stable Isotope Ratios, Laguna Yuraicocha, Peru
Bethany Spence	Analysis of Oxygen and Carbon Stable Isotopes of Lake Yuraicocha Sediment Core, Peruvian Andes
Peter Wilson	Thermal history of the Potsdam Sandstone in the eastern Adirondacks determined by fission track dating of detrital zircons

SOCIAL SCIENCES BUILDING – 012

Moderator: Joyce Madancy

Topics in History

Benjamin Foster	The South Manchurian Railway Company
Emily French	A New Look at Early New England: A Fishing Plantation at Richmond Island, Maine, 1632-1642
Hui Ching Lo	<i>Cha Chaan Teng</i> : An Investigation into Hong Kong cultural politics
Megan Sesil	The Changing Face of Schenectady during its Successful Days: 1880-1930
Christopher Zona	Fascism and Mafia: Italian Political Totalitarianism versus Sicilian Cultural Phenomenon

SOCIAL SCIENCES BUILDING – 014

Moderator: Shelton Schmidt

Topics in Economics II

Carli McNeill	The Effect of the World Wide Web on Voting Behavior Among Young Adults
Lindsay Quereau	Understanding the Yield Curve as a Financial Indicator: Past to Present
Jeffrey Scheer	Are Immigrants Displacing Native U.S. Workers? An Econometric Study of the Impact of Immigration on Native U.S. Unemployment Rates
Nathaniel Standish	A Data Envelopment Analysis of Major League Baseball, 1998-2006
Eric Strader	The oil price-U.S. Macroeconomy Relationship: Has the United States been able to insulate itself from the effects of an oil shock?

SESSION II

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

HUMANITIES BUILDING – 019

Moderator: Stacie Raucci

Classics II

Catherine Caldwell	Subjugated Heroines: Women in Livy's <i>Ab Urbe Condita</i>
Gianna Hegarty	Perceptions of Caesar: Past and Present
Jennifer Sacks	The Role of Food in Roman Literature
Margaret Southwell	Food as a Mechanism of Social Interaction in Ancient Rome
Albert Vanderlaan	American Empire and the Resulting Class Structure: A Roman Model to Explain a Modern Struggle. Departments of Classics and Political Science

SESSION III

12:20 – 1:50 p.m.

Performing Arts

NOTT MEMORIAL

DANCE PERFORMANCES

Faculty Sponsor & Show Director – Miryam Moutillet

Dance Experience Collaborative

Propose, Process

Directed by Miryam Moutillet

Created and performed by Randi Cerini, Sarah Coleman, Theresa Foito, Lorlette Haughton, Joseph Hunziker, Jamie Luguri, Lacey Morgan and Amelia Whitney

Dance Projects

Boot Camp

Choreographed by Eliza Schlesinger

Assistant Choreographer: Rachael Peters

Dancers: Randi Cerini, Lisa Crescenzo, Jen Fleisher, Oriana Ellyon, Katharine Gould, Adrienne Hart, Shauna Keeler, Kira Moldow, Kaitlyn O'Connor, Rachael Peters, Janielle Porter, Brittany Prescott, Jenny Riskin, Eliza Schlesinger and Sara Weiner

Lampellipodia

Choreographed by Janielle Porter

Dancers: Kelsey Allen-Dicker, Janielle Porter and Eliza Schlesinger

Cairdéan

Choreographed and performed by Laura Hitchinson

Ballet II and III Students

Rock'n Toes

Choreographed by Miryam Moutillet

Assistant Choreographer: Rachael Peters

Duet by Rachael Peters and Marcus Rogers

Dancers: Carly Aimi, Gina Chiuminatto, Lisa Crescenzo, Risa Dubow, Colleen Easton, Oriana Eyllon, Anna Finlay, Theresa Foito, Laura Hutchinson, Shauna Keeler, Alexandra Lindsay, Kira Moldow, Kaitlyn O'Connor, Rachael Peters, Brittany Prescott, Marcus Rogers, Monica Tse, and Sara Weiner

Modern Dance Students

Crimson Mode

Choreographed by Miryam Moutillet

Dancers: Annie Benfield, Anna Finlay, Jen Fleischer, Shauna Keeler, Katie Newingham and Janielle Porter

SESSION III

12:20 – 1:50 p.m.

Performing Arts (cont'd)

NOTT MEMORIAL

Jazz II Dance Students

Choreographed by Marcus Rogers

Dancers: Carly Aimi, Kelsey Allen-Dicker, Valerie Angell, Randi Cerini, Lisa Crescenzo, Risa Dubow, Jen Fleischer, Amy Gold, Jessica Goldberg, Meryl Goldstein, Katherine Gould, Oriana Eyllon, Shauna Keeler, Kira Moldow, Katie Newingham, Kaitlyn O'Connor, Rachael Peters, Brittany Prescott, Eliza Schlesinger, Sara Weiner, and Sami Zayas

Tap Dance Students

New York New York

Choreographed by Marcus Rogers

Dancers: Carly Aimi, Kelsey Allen-Dicker, Valerie Angell, Rachael Bennett, Lisa Crescenzo, Risa Dubow, Oriana Eyllon, Katie Newingham, Kaitlyn O'Connor, and Caileigh Warren

The Dance Team

Against the Music

Choreographed by Lisa Crescenzo, Lindsay Cohen, Kira Moldow, Rachael Peters and Eliza Schlesinger

Dancers: Randi Cerini, Lisa Crescenzo, Jen Fleischer, Amy Gold, Katharine Gould, Adrienne Hart, Allison Levy, Sara Mark, Kira Moldow, Rachael Peters, Brittany Prescott, Jenny Riskin, Eliza Schlesinger, and Katie Sofia

The Ballroom Dance Club

Low Riders

Choreographed by Amber Woemer

Dancers: Anna Bastian, Steven Boddorff, Emily Burgess, William Deegan, Laura Hutchinson, Megan Hyndman, Sarah Jensen, James Martin, Ben Miles, Thang Pham, Matthew Roginski, Casey Sheridan, Joshua Smith and Monica Tse

Independent Choreographers

Status
Bhangra

Choreographed and performed by Marcus Rogers

Choreographed by Santos Avila and Jeffrey Avilas

Dancers: Amit Jain, Jay Shah, and Santos Avila

Curtain

Full Cast

For this performance, we want to thank the Internal Education Foundation, David Hayes, Interim Dean of Arts and Sciences, and the Theater Program for their technical support.

SESSION III

12:20 – 1:50 p.m.

SPECIAL PRESENTATIONS

OLIN COURTYARD

Moderator: Frank Wicks

Demonstration

Mark Angeloni	The Unveiling of the Union College 100 MPG Challenge Vehicle
Michael Guigli	The Unveiling of the Union College 100 MPG Challenge Vehicle
Justin Molé	The Unveiling of the Union College 100 MPG Challenge Vehicle

BEUTH HOUSE GREAT ROOM

Moderator: Thomas Lobe

Movie Premiere Showing

Daniel Amira	How Green is My Union? Sustainability at Union College
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OLIN ROTUNDA

Poster Presentations

Tia Bumpus	Unraveling the Molecular Mechanism by which IgAc5 Protects Intestinal Epithelial Cells from Infection by Shigella flexneri
Fenghua Chen	Silent Alarm System
Su Huang	Silent Alarm System
Demorie Crawford	Andy Warhol as Sociologist and Activist Redefines Art
Molly Garrett	Garden Design
Michael Nolan Jr.	Nanoparticle Size and Self-assembly within Nanoclay Hybrid Films
Keith Rice	Design of a Human Powered Distillation System
Megan Smith	Female Figure Studies in Photography and Sculpture
Michael Topka	FTIR Studies of QD/PANI/Laponite Films for Nanophotovoltaics

SESSION IV

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

ARTS BUILDING – 215

Moderator: Louisa Matthew

Art History

Kaitlin Capobianco	The Stories Behind the Faces: The Link between UC Alumni Portraits and History
Cassandra Denefrio	Artistic Interpretations of Classical Texts: Renaissance illustrations of "pudor" (shame) in Ovid's metamorphoses
Hadley Planting	Contemporary American Landscape Painting

BAILEY HALL – 201

Moderator: Teresa Meade

Latina(o) Immigrants and Ethnic Identity: Contemporary Issues

Leidy Colon	Latina Domestic Workers in New York City: Cleaning and Caring in the City that Never Sleeps
Colin Foard	Mexican New Jersey: Pueblan Immigrants in Non-traditional Locales
Allyson Pereyra	The Possible Relationship between Ethnic Identity and Academic Motivation

BAILEY HALL – 312

Moderator: Psychology

Topics in Psychology and Neuroscience

Amanda Carpenter	Examining Impropgan's Mechanism of Action Using the Cannabinoid Tetrad Test and CC12 Antagonism
Julie Condit	The Effects of Adult Attachment Style On Jealousy Within Close Relationships
Caroline Majsak	The Effects of Smiling and Attractiveness on Persuasion
Heidi Millar	Entering the Workforce: an analysis of early employment initiatives for foster youth in care

HUMANITIES BUILDING – 014

Moderator: Brendan Burns

A Selection of Presentations from Various Disciplines

Michael Bono	Union Encounters: Sophomore Project in Intaglio Printmaking
Matthew Carlson	Improving Dynamic Difficulty in Video Games
William Deegan	Graphic Novel Art Technique
Ursula Williams	The Popular Perception of Science and its Grounding in Junior High School Science Education

HUMANITIES BUILDING – 019

Moderator: Channette Romero

English Honors Thesis: Critical Approaches

Hillary Benoit	Jane Austen's Balance between Surrender and Provocative Rebellion
Robin Soule	A Mother's Voice: The Search for Maternal Representation in Women's Novels
Lauren Foye	Surviving the land and man: the realist metaphor in Western American literature
Kathryn Kaufman	Fighting the Male Gaze in the Novels of Jane Austen and Charlotte Brontë

SESSION IV

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

HUMANITIES BUILDING – 112

Moderator: Cheikh Ndiaye

Transatlantic Identity: France and Beyond

Katherine Crosby	L'Américanisation de la France/ The Americanisation of France
Matthew Smith	The Globalization of Horse Racing: A Comparative Look at the “Sport of Kings” in the United States and France
Kaitlyn Tagarelli	French Creole Language in Martinique and its Role in Cultural Identity in a French Department
Alexandra Valenti	The Cuisine of Martinique: Influences of Yesterday and Today

OLIN BUILDING – 115

Moderator: Laura MacManus-Spencer

Environmental Awareness, Sustainability & Analysis

Daniel Amira	Environmental Sustainability at Union College
Kate Swartz	Promoting Environmental Awareness Amongst College Students
Amanda Mishler	Sorption of Ultra-Violet Filter Chemicals to Natural Sediments
Alexander Krickx	Mercury Detection and Concentration in Seafood by PIXE (Proton Induced X-Ray Emission) Using Union College's Pelletron Particle Accelerator

OLIN BUILDING – 106

Moderator: Kristin Fox

Biochemistry & Molecular Biology

Melissa Fox	Cloning and Expression of a Putative Metacaspase from <i>Schizophyllum commune</i>
Brian Gulack	Cloning and Expression of a Truncated Metacaspase from <i>Schizophyllum commune</i>
Jason Ortolano	Ubiquitination of the Follicle Stimulating Hormone Receptor
Brianne Phillips	The Cloning of the Bottlenose Dolphin (<i>Tursiops truncatus</i>) Natural Killer Cell Marker CD56 Gene

OLIN BUILDING – 107

Moderator: Leo Fleishman

Organisms and Their Environment

Mamadou Fall	The effect of pH on Tick development
Ashleigh Schaublin	The Role of Visual Motion in Eliciting Attention in the Lizard <i>Anolis sagrei</i>
Michael Smirnov	The Role of Visual Motion in Eliciting Attention in the Lizard <i>Anolis sagrei</i>
Sarah Webb	Moss Canopy Structure as a Influencing Factor on Photosynthetic Capacity and Evapotranspiration
Jessica Zima	The Effect of Surface Roughness on Light Attenuation in Moss Canopies

SCIENCE & ENGINEERING BUILDING – N205

Moderator: Bradford Bruno

Mechanical Engineering: Engines

James Arner	Thermoelectric Heat Recovery from an Automobile Engine
Michael Bogino	Setting up a Diesel Test Bed to Compare Bio-Diesel with Petro-Diesel
Brian Feldman	Tracer Experimentation in a Hydrogen Fueled Internal Combustion Engine
Stephen Frymire	Development of an Electrically Powered On-Demand Supercharger for a Small Displacement Engine

SESSION IV

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

SCIENCE & ENGINEERING BUILDING – N304

Moderator:: Rebecca Surman

Exploring Galaxies, Nebulae and Black Holes

Nathaniel Hawes	Theoretical Modeling of Exploding Black Holes
James Read	Mapping the Magnetic Field of a Compact Radio Galaxy
Crystal Smith	The Analysis of Proton- and Neutron-rich Elemental Abundances created in Outflows from Gamma-Ray Burst Accretion Disks
Joshua Smith	Spectroscopy of the Orion, Eskimo, and Ghost of Jupiter Nebulae at the Union College Observatory

SOCIAL SCIENCES BUILDING – 012

Moderator:: Denis Brennan

US Sports History

Michael Kissane	Major League Baseball During World War II: The Positive Effects of Major League Players on the Battle Field and of Baseball's Charitable Efforts on the Home Front, Compared to the Impact of the War Felt by Baseball
Jason Lager	Ty Cobb and His Infamous Behavior
John Letizia	Why Can't We Play Anymore? Are Men Being Discriminated Against in College Sports and by Whom?
Kyle Murphy	The Decline of African American participation in baseball: 1970-2007

SOCIAL SCIENCES BUILDING – 014

Moderator:: Younghwan Song

Health Economics

Mathew Cyriac	Do physicians spend less time with Medicaid patients than they spend with private insurance patients?
Amit Rajput	The Potential Future of Health Care Policy: A Demographic Analysis of the Effects of Health Care Factors on Life Expectancy
Michael Wolf	The Economic Impact of an Influenza Pandemic in New York State
Jonathan Young	Vaccinating the Next Generation: Are Children with Foreign-Born Mothers Less Likely to Receive Recommended Immunizations?

SOCIAL SCIENCES LOUNGE (ACROSS FROM ROOM 215)

Moderator:: Sharon Gmelch

Photography Exhibit

Nancy Borowick	Maintaining Tradition in America: The Guyanese of Schenectady
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SESSION V

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

BAILEY HALL – 201

Moderator: George Bizer

Social Psychology

Michael Epstein	Moderating Attitude Resilience under Valence Framing Effects using Relevance Manipulations
Leigh Ann Holterman	The Effect of the Ease of Retrieval Phenomenon on Resistance to Persuasion and Attitude Certainty
Kara Huston	Effect of plastic surgery on males' perceptions of women with hourglass figures
Shirel Kozak	Effects of Straw Man Arguments on Persuasion: The Moderating Role of Personality
James Shand	Osama Obama and the Gravity of Motivation: The Innuendo Effect Revisited

BAILEY HALL – 312

Moderator: Linda Stanhope

Developmental Psychology

Heather Bernstein	The Effect of Self-Monitoring on Adolescents' Susceptibility to Peer Pressure and Interest in Romantic Relationships
Kate Domnarski	Children's Stereotypes of Others with Exceptionalities Based on Appearance
Sandra Mandell	Personality factors and parenting styles that predict alcohol related problems
Joseph Nimon	The effects of an osteoporosis exercise program on executive function and quality of life in older adults
Jessica Steger	Parental Influences on Adolescents' Occupational Aspirations

HUMANITIES BUILDING – 019

Moderator: Channette Romero

English Honors Thesis: Creative Writing

Stephanie Spano	Highway Through Cholame: A Portrait of James Dean
Ross Marvin	Approaching the American Cliché
Michele Curiale	<i>Not That Kind of Girl</i>

HUMANITIES BUILDING – 112

Moderator: Mark Walker

French and Francophone Studies II

Danielle DeNufrio	Gender Performance in France and Japan
Gregory d'Otreppe	The Origins of Flemish Hostility towards Francophone Culture
Abbey Massoud-Tastor	France and the Jews: A Tumultuous Relationship

NOTT MEMORIAL

Moderator: David Ogawa

Gallery Talk

Stephanie Berlind	Infinite Images: Technologies of Printmaking and Beyond
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SESSION V

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

OLIN BUILDING – 106

Moderator: George Gmelch

Anthropological Research Around the Globe

William Dewey	The Impact of International Tourism on the Economy and Culture of Kyrgyzstan
Vanessa Dumonet	Coping With Loss: Grieving after Miscarriage, Stillbirth and Abortion
Daniel Felder	Food Choice in America: The Social Factors Which Determine What We Eat
Andrew Maryniuk	Tasmanian Aboriginal Identity
David Shulman	Access to antiretroviral medicine and the social and economic well-being of Sub-Saharan Africa

OLIN BUILDING – 107

Moderator: Julius Barbanel

Mathematics II

Susan Beckhardt	Graphs with Knotted Hamiltonian Cycles
Giselle Parrelli	Germain's Theorem
Jaclyn Siedlecki	Incommensurable Magnitudes, Irrational Numbers, and the Pythagoreans
Peter Wright	Relating Functions to Relations
Leah Ziamandanis	Ancient Greek Mathematics: A look at the first notions of calculus

SCIENCE & ENGINEERING BUILDING – N205

Moderator: William Keat

Mechanical Engineering: Things That Go

Zack Cramer	Design and Fabrication of a Custom Gearbox for Union SAE Baja
Adam Danaher	Pneumatic Anti-Flip Mechanism for an All Terrain Vehicle
Manfred Rojas	Design of a Remote-Controlled Airplane for the SAE AERO East Design Competition
Todd Sifleet	Design of a Remote-Controlled Airplane for the SAE AERO East Design Competition
Jacob Zwaik	Design of a Remote-Controlled Airplane for the SAE AERO East Design Competition
Price Williams	Development of drag reducing boat-tail plates for use on tractor trailers

SCIENCE & ENGINEERING BUILDING – N304

Moderator: Chad Orzel

Shedding Light on Light, Atoms and Art

Steve Herron	Laser Ablation in Art Restoration
Matthew Lockwood	Anti-Reflective Coating of a Diode Laser System
Mike Mastroianni	Radioactive Background Measurements using Atom Trap Trace Analysis
Thomas Mazur	Exploring the Quantum Behavior of Light Experimentally Via Spontaneous Parametric Downconversion
Luther Vucic	An Introductory Look at Sonoluminescence: Converting Sound into Light

SESSION V

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

SOCIAL SCIENCES BUILDING – 012

Moderator: Judith Lewin

Feminism, Femininity and Women's Writing

Mary Berkery	The Role of Gender in the Vietnam Antiwar Movement and the Shift to Feminism, with an Emphasis on Union College, Skidmore College, Williams College, and St. Lawrence University
Elizabeth Gustafson	Universal Feminism
Stephanie Hadcock	Shiva as depicted throughout various Jewish women writers' texts in comparison to Catholic funerals
Kate Isler	The Norms of Femininity and their Manifestation on the Female Body: A Cross-Cultural and Historic Critique of Female Subordination
Allegra Lanzara	They All Write About the Same Thing, Right? The Myth of Jewish Women's Writing

SOCIAL SCIENCES BUILDING – 014

Moderator: Lewis Davis

Income Growth Across Countries

Kelly Bayne	Productive Health: Behavioral health as a significant determinant of human capital and its effect on GDP per capita
Simi Koshy	Democracy, Divisions, and Divergence: A Study of Economic Growth in Indian States
James Martin	Foreign Direct Investment and the Growth in Income of the Poor
Vishal Patel	Impact of Trade Liberalization on Income Inequality: Cross Country Analysis

OLIN BUILDING – 115

Moderator: Mary Carroll

Aerogels

Matthew Ernst	Optimization of aerogels for transparent insulation in a window design
John Ferrarone	Spectroscopic Analysis of Oxygen Sensing Aerogels
Jason Melville	Preparing Hydrophobic Silica Aerogels via the Rapid Supercritical Extraction Technique
Adam Reeve	Characterization of Silica-based Aerogels: Surface Area, Pore Size Distribution, Density, and Infrared Spectroscopy

OLIN BUILDING – 306

Moderator: James Hedrick

Electrical Engineering

Daniel Fishman	Automatically Tuned MP3 Transmitter for Vehicles
Saim Jafri	Automatically Tuned MP3 Transmitter for Vehicles
Michael Thylur	Automatically Tuned MP3 Transmitter for Vehicles
Timothy Jayko	Design, Implementation, and Application of a Microstrip Patch Antenna Array
Andrew Lockwood	Autonomics Infrared Guidance System

SESSION VI

9:30 – 10:50 a.m. Concurrent Oral Presentations

HUMANITIES BUILDING – 014

Moderator: Robert Baker

A Selection of Presentations from Various Disciplines

Cooper Hammarlund	Skiing Faster: Application of Drag reduction Techniques to the Design of a More Aerodynamic Ski Helmet
Julia Mathew	Attitudes toward Arranged Marriage among Second-Generation Indian-Americans
Katie Matho	Should military physicians force-feed detainees at Guantánamo Bay?
Margaret Southwell	The Book: Publishing an Exploration of the History of Publishing

HUMANITIES BUILDING – 019

Moderator: Suzanne Benack

Assessment of the Minerva System and Union's Campus Culture

Christopher Backlund	Assessment of the Minerva System and Union's Campus Culture
Rachel Fitz	Assessment of the Minerva System and Union's Campus Culture
Andrew Kantor	Assessment of the Minerva System and Union's Campus Culture
Sarah Krammen	Assessment of the Minerva System and Union's Campus Culture
Cara Murphy	Assessment of the Minerva System and Union's Campus Culture
Erin Plasse	Assessment of the Minerva System and Union's Campus Culture
Carl Winkler	Assessment of the Minerva System and Union's Campus Culture

OLIN BUILDING – 106

Moderator: Scott Kirkton

The Yin and Yang of Reproductive Endocrinology

Olga Davydenko	Mutagenesis Analysis of the 14-3-3 Tau with Endolooop Two of the FSH Receptor
Tabitha Manero	Investigation of Signal Transduction for an FSH Receptor Mutant
Sarah Shea	Investigation of the G-protein coupled receptor (GPCR) spare receptor hypothesis
Jonathan Young	Transducing Signals Through the Follicle-Stimulating Hormone Receptor

OLIN BUILDING – 115

Moderator: Janet Grigsby

New Orleans Service Trip: December 2006

Aaron Goldman	Student Service Trip to New Orleans, Round II: Giving Voice to What We Saw, Heard...and Learned
Mary Berkery	Student Service Trip to New Orleans, Round II: Giving Voice to What We Saw, Heard...and Learned
Risa Dubow	Student Service Trip to New Orleans, Round II: Giving Voice to What We Saw, Heard...and Learned
Bilal Mahmoodl	Student Service Trip to New Orleans, Round II: Giving Voice to What We Saw, Heard...and Learned

SESSION VI

9:30 – 10:50 a.m. Concurrent Oral Presentations

SOCIAL SCIENCES BUILDING – 014

Moderator: Zoe Oxley

Voting, Political Participation and Leadership

Fields Donegan	Politics and the Punk Movement: a study of the punk subculture, how the subculture has influenced politics and how politics has in turn, influenced the subculture
James Ortmann	Values, Frames and Party Identification: A Look at Voting Behavior and How it Can Be Predicted
Walter Roesch	Leadership, Fear and the Constitution
Heidy Sanchez	How and Why Youth Political Participation Matters

SESSION VII

12:30 – 2:00 p.m. Poster Presentations

REAMER CAMPUS CENTER ATRIUM

Sarah Britton	A Mathematica Model of the CNO Cycle
Philip Brown	Key Detection of Musical Signals
Lauren Carlson	Heterocyclic Schiff Bases: Study of the Effects of the Heteroatom on Cyclization and Oxidation
Jenna Welby	Heterocyclic Schiff Bases: A Study of the Effects of the Heteroatom on Cyclization and Oxidation
Vanessa Dumonet	“Sights, Tastes, and Change: The Transformation of Napa Valley and its Wine Industry”
Sara Melton	“Sights, Tastes, and Change: The Transformation of Napa Valley and its Wine Industry”
Sam Madden	SHG Characterization of NLO Dyes included within Laponite Nanoclay Films
Rachael Peters	Direct amide aldol reactions with aldehydes: Surprising Weinreb amide reactivity
Andrew Rariden	Throttling an Internal Combustion Engine with Variable Valve Timing
Jessica Reichbind	Suitability of silica aerogels as platforms for sensors based on phosphorescent probes

VISUAL ARTS

Exhibition – May 4th and 5th

Burns Arts Atrium Gallery

Arts Building

DRAWING AND PAINTING EXHIBITION

Faculty Sponsors – Sandy Wimer and Andrea Hersh

DRAWINGS

Ian Brennan
Lisa Crescenzo
Molly Freeman
Alex Handin
Brandon McArdle
Monica Rowett
Jackie Siedlecki
Meagan Smith
Sarah Tolzman

PAINTINGS

Ben Atkins
Emily Burgess
Laura Hutchinson
Nora Maginn
Margaret Southwell
Felicia Spector
Nancy Wilk

SCULPTURE EXHIBITION

Faculty Sponsor – Chris Duncan

Forrest Clifton
Hannah Comeau
Robert Edelman
Ann Keller
Sangin Lee
Sarah Mueller
Frank Rapant
Sarah Scott
Megan Sesil
Rachel Start
Jim Walker
Wes Whitaker

PHOTOGRAPHY EXHIBITION

Faculty Sponsor – Martin Benjamin

Nancy Borowick
Katherine Crosby
Robert Edelman
John Francis
Lara Levine
Catherine McGuinness
Avanelle Riley
Meagan Smith
Robert Shirley
Sarah Tardiff
Bryan Taylor
Ondrej Vrzal
Nina Witschonke (Les Urbach Photography Prize)
Asha Zimmermann

PRINTMAKING EXHIBITION

Faculty Sponsor – Sandy Wimer

Ian Brennan
Katherine Cissel
Elliot Cohen
Kate Colantuono
Michelle Curiale
Janielle Porter
Rachel Start
Clare Stone
Sarah Webb

DIGITAL EXHIBITION

Faculty Sponsor – Fernando Orellana

Beth Culp
Robby Flick
Molly Garrett
Ondrej Klucka
Benjamin Lehrer
Harrison Paras
Daniel Taft
Sarah Tolzmann
Nina Witschonke

UNION COLLEGE JAZZ ENSEMBLE

Saturday, May 5, 2007
1:00 – 2:00 p.m.

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

FLUTE

Marissa Gaines '10

CLARINET

Andrew Maryniuk '07

SAXOPHONE

Owen Cope '07
Devin Harrison '09
Kyle Marmelstein '08
Matt Roginski '07
Matt Zawodniak '10

TRUMPET

Mike Gillin '08
Joe Nimon '07
Nick Potvin '09

TROMBONE

Andrew Mack '09

VOCALS

Kiki Lightbourn '10

VIOLIN

Max Jack '10

PIANO

Luke Bryden '09
Tom Perry '09

GUITAR

Kyle Grimm '08
David Kanaan '10
Peter MacDonald '09
Sam Peyton-Levine '09

BASS

Steve Frymire '07

DRUMSET / PERCUSSION

Dylan Breslin-Barnhart '08
Andrew Donnelly '10
Will Hernandez '09
Josh Reynolds MAT '08

**THE UNION COLLEGE AND COMMUNITY ORCHESTRA
AND
THE UNION COLLEGE CHOIR**

STEINMETZ CONCERT

**Friday, May 4, 2007
8:00 p.m. – Memorial Chapel**

Victor Klimash, *Conductor*

PROGRAM

I

Zadok the Priest

*Zadok the priest
And all the people rejoiced
God save the king*

George Fideric Handel

The Union College Choir
The Union College and Community Orchestra

II

Romance in F major for Violin and Orchestra, Opus 50

Ludwig van Beethoven

Colin Foard '07, *violin*

The Union College and Community Orchestra

INTERMISSION

III

Carmen Suite No. 1

Prelude
Aragonaise
Intermezzo
Segedille
Les dragons d'Alcala
Les Toreadors

Georges Bizet

The Union College and Community Orchestra