April 23, 2008

9:00 a.m. Welcome and Opening Remarks
Professor Arthur T. Johnson, Provost
Professor Lasse Lindahl, MARC U*STAR Program Director
University Center, Room 312

12:00 p.m. General Session
Dr. Freeman Hrabowski, President
University Center, Room 312

AMERICAN STUDIES

Oral Presentations

Student: Charlene Kuo
Mentor: Susan Martin
10:45 -- 11:00 a.m., UC 310
“Investigation of the Value of the Dependable Strengths™ Workshop for UMBC Alumni”

Student: Nancy Tewell
Mentor: Edward Orser
1:45 -- 2:00 p.m., UC 310
“Economic Diversity Decreasing in Planned City: Columbia, Maryland”

Poster Presentations – UC Ballroom

Student: Simran Noor
Mentor: Edward Orser
9:30 – 11:30 a.m.
“Neighborhood University Initiative: A Strategy for Redevelopment of West Baltimore”

Student: Vanessa Nakoski
Mentor: Dabrina Taylor
1:00 – 3:00 p.m.
“Will Ferrell Films and Male Undergraduate Masculinity”

Student: Elise Pohl
Mentor: Kathy Bryan
1:00 – 3:00 p.m.
“Decoding Conversations on Education within Community”
Student: Lauren Snyder  
Mentor: Warren Belasco  
1:00 – 3:00 p.m.  
“The Community-building Function of Modern Coffeehouses”

ANCIENT STUDIES

Poster Presentation – UC Ballroom

Student: Weston Bittner  
Mentor: Marilyn Goldberg  
1:00 – 3:00 p.m.  
“Site and Social Hierarchy in the Mycenaean Kingdom of Pylos”

Oral Presentation

Student: Cally Brandt  
Mentor: Carolyn Koehler  
11:30 – 11:45 a.m., UC 310  
“Two Media, Same Metamorphoses: The Works of Ovid and Bernini”

BIOCHEMISTRY AND MOLECULAR BIOLOGY

Oral Presentation

Student: Benyam Kinde  
Mentor: Michael Summers  
11:00 – 11:15 a.m., UC 312  
“Toward the 3D Structure of the Core Encapsidation Signal, a Critical Component for Replication of a Model Retrovirus”

Poster Presentation – UC Ballroom

Student: Pei-Chun Chen  
Mentor: Richard Karpel  
9:30 – 11:30 a.m.  
“The Investigation of Toxic Crotamine for Drug Delivery”

Student: Sasan Salimian  
Mentor: Hua Lu  
9:30 – 11:30 a.m.  
“Characterization of HTA8, a Histone H2A Gene, in Arabidopsis Defense Regulation”

Student: Olufolakemi Awe  
Mentor: Colin Garvie  
1:00 – 3:00 p.m.  
“Identification of the Secondary Structural Elements of the RFX Gene Regulatory Complex Proteins by CD Spectroscopy”

Student: Destiney Buelto  
Mentor: Laundette Jones  
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Student: Jung Kim  
Mentor: Jia Bei Wang  
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“Gene Knockdown Model for PKCI/HINT1 Protein in PC12 Cells”

Student: Jessica McGrath  
Mentor: Michael Summers  
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“The Relationship between the Structure of the FIV Matrix Protein and its Ability to Target the Plasma Membrane”

Student: Gabrielle McRae  
Mentor: Donna Farber  
1:00 – 3:00 p.m.  
“The Effect of Toll-Like Receptors on the Activity of Antigen Presenting Cells”

Student: Tanu Sharma  
Mentor: Phyllis Robinson  
1:00 – 3:00 p.m.  
“Probing the Counterion to the Protonated Schiff Base in Melanopsin”

Student: Nirav Shelat  
Mentor: C. Allen Bush  
1:00 – 3:00 p.m.  
“Structural Development of Unknown Streptococcus Pneumonia Polysaccharide through NMR Spectroscopy Analysis”

**BIOINFORMATICS AND COMPUTATIONAL BIOLOGY**

Student: Rahilla Tarfa  
Mentor: Stephen Freeland  
9:30 – 11:30 a.m.  
Poster Presentation  
UC Ballroom  
“Were the 20 Amino Acids Randomly Chosen by Life?”

**BIOLOGICAL SCIENCES**

**Oral Presentations**

Student: Dorothy Kenny  
Mentor: Kevin Omland  
9:15 – 9:30 a.m., UC 310  
“What’s in a Name?: Using DNA Barcoding to Identify Species of Oriole”

Student: Shilpa Gadwal  
Mentor: Janice Zengel  
9:30 – 9:45 a.m., UC 312  
“Effects of High-Level Troleandomycin Resistance in the 23s Ribosomal RNA of D. radiodurans on Ribosome Function”

Student: Julie Fields  
Mentor: Vence Bonham  
9:45 – 10:00 a.m., UC 312  
“Exploring Patient Characteristics in Treatment Decision-making among Black and White Physicians in the United States”
Student: Tamika John
Mentor: David Scott
10:15 – 10:30 a.m., UC 312
“Evaluating the Effects of Regulatory T-cell Epitopes on B-cell MHC Class II Presentation”

Student: Uzoma Iheagwara
Mentor: Suzanne Ostrand-Rosenberg
10:45 – 11:00 a.m., UC 312
“The Intracellular Trafficking Pathway of MHC II Molecules is Altered in the Absence of Invariant Chain”

Student: Alexandria Scott
Mentor: Tamra Mendelson
11:15 – 11:30 a.m., UC 312
“Converting Phylogentic Differences between Species into Time”

Student: Shayla Shorter
Mentor: Violeta Rus
11:30 – 11:45 a.m., UC 312
“How Does TRAIL Affect T Cell Function?”

Poster Presentations, University Center Ballroom, 9:30 – 11:30 a.m.

Student: Ashleigh Bouchelion
Mentor: David Eisenmann
“Characterization of Mutation in C. elegans POP-1; A Core Component of the Wnt Signaling Pathway”

Student: Ramon Cabrera
Mentor: Weihong Lin
“The Effect of Mouse Nasal Epithelium Damage on the Proliferation of Solitary Chemosensory Cells”

Student: Nancy Chiles
Mentor: Ann Gruber-Baldini
“Education and its Role in Recovery from a Hip Fracture”

Student: Whitney Fields
Mentor: Janice Zengel
“Isolation of Mutations in L4 and L22 That Confer Resistance to the Antibiotic Tylosin”

Student: Ruby Jackson-Atogi
Mentor: Jeff Leips
“Parasitoid Host Choice: An Evolved or Learned Behavior?”

Student: Lynna Kiere
Mentor: Kevin Omland
“Reconstructing Evolution of Cacique Carotenoid Color”

Student: Chinwedu Opara
Mentor: Arthur Wingfield
“The Task-evoked Pupillary Response: A Measure of Cognitive Effort”

Student: Erica Smearman
Mentor: Joseph A. Harrison
“A Novel Buprenorphine Application Method for the Treatment of Opioid Dependence”

Student: Steven Tuyishime
Mentor: Janice Zengel
“Spiramycin-resistant Mutations in Escherichia coli L4 and L22”
<table>
<thead>
<tr>
<th>Student: Belinda Akpeng</th>
<th>“Role of Chemosensory Organs in Food Discrimination by <em>Manduca sexta</em>”</th>
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</thead>
<tbody>
<tr>
<td>Mentor: Frank Hanson</td>
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<tr>
<td>Student: Brook Asameneew</td>
<td>“Identifying NNX3.1 Regulatory Targets”</td>
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<td>Mentor: Charles Bieberich</td>
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<td>Student: Erwin Cabrera</td>
<td>“Probing the Structure of Human Green Opsin Using Site-directed Spin Labeling”</td>
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<tr>
<td>Student: Michael Comberiate, Jr.</td>
<td>“Changes in MMP-9 Protein Levels as an Indicator of Brain Perturbation by Nicotine Exposure”</td>
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<td>Mentor: Lark Claassen</td>
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<td>Student: Tiffany Fleet</td>
<td>“Functional Characterization of RNase MRP in the Absence of XRN1 in order to further Elucidate Ribosomal RNA Processing”</td>
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<td>Mentor: Nicholas Carbonetti</td>
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<td>Student: Amber Gaither</td>
<td>“Establishing Pyrosequencing Methods to Detect Resistance-conferring Mutations in <em>Plasmodium falciparum</em>”</td>
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<td>Mentor: Christopher Plowe</td>
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<td>Student: Anna Gitterman</td>
<td>“Analyzing the Function of RlsA, a Paralog of the Master Cell-type Regulatory Protein RegA in <em>Volvox carteri</em>”</td>
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<td>Mentor: Stephen Miller</td>
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<td>Student: Ammar Jaber</td>
<td>“Taste Preference Test in Mouse Deficient Acetylcholine Receptor”</td>
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<td>Mentor: Tatsuya Ogura</td>
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<td>Student: Vovanti Jones</td>
<td>“Investigating Potential Second Site Suppressors in the Amp A Pathway in <em>Dictyostelium discoideum</em>”</td>
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<td>“Sex Differences in Glia Morphology in Rat Cerebellum”</td>
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<td>Student: Frances Onyimba</td>
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CHEMICAL ENGINEERING

Student: Oluwaseun Olayiwola  
Mentor: Mariajose Castellanos  
3:15 -- 3:30 p.m., UC 312  
Oral Presentation  

“A Quantitative Model of Rho GTPases Network”

Poster Presentations, University Center Ballroom

Student: Nirvana Maharaj  
Mentor: Jennie Leach  
9:30 – 11:30 a.m.  

“Protein Diffusion from Poly(ethylene Glycol) Vinyl Sulfone Scaffolds”

Student: Amber Mahmood  
Mentor: Mariajose Castellanos  
9:30 – 11:30 a.m.  

“A Transcription Model”

Student: Izath Aguilar  
Mentor: Theresa Good  
1:00 – 3:00 p.m.  

“Role of K+ Channels in AβToxicity”

Student: Abraham Beyene  
Mentor: Mariajose Castellanos  
1:00 – 3:00 p.m.  

“Calcium Dynamics in the Extracellular Space of Neural Tissue”

CHEMISTRY

Oral Presentations

Student: Olubukola Ojewoye  
Mentor: Katherine Seley-Radtke  
10:30 -- 10:45 a.m., UC 312  

“Flexibility - Not Just for Gumby Anymore”

Student: Benyam Kinde  
Mentor: Michael Summers  
11:00 -- 11:15 a.m.  

“Toward the 3D Structure of the Core Encapsulation Signal, a Critical Component for Replication of a Model Retrovirus”

Student: Tesia Stephenson  
Mentor: Andrew Coop  
3:00 -- 3:15 p.m., UC 312  

“UMB24 Analogs as Potential Metamphetamine Treatments”
**Poster Presentations, University Center Ballroom, 9:30 – 11:30 a.m.**

Student: Caryn Bell  
Mentor: William LaCourse  
“Development of an Artificial Nose for Detecting Ambient-Air Particulates”

Student: Pei-Chun Chen  
Mentor: Richard Karpel  
“The Investigation of Toxic Crotamine for Drug Delivery”

Student: George Cutsail, III  
Mentor: Veronika Szalai  
“Copper Amyloid-beta Complex in Alzheimer's Disease”

Student: Nick Pinkin  
Mentor: Ramachandra Hosmane  
“Synthesis of Potential Inhibitors of Thymidylate Synthase Based on Quinazoline Structural Skeleton”

Student: Sasan Salimian  
Mentor: Hua Lu  
“Characterization of HTA8, a Histone H2A Gene, in *Arabidopsis* Defense Regulation”

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**Poster Presentations, University Center Ballroom, 1:00 – 3:00 p.m.**

Student: Olufolakemi Awe  
Mentor: Colin Garvie  
“Identification of the Secondary Structural Elements of the RFX Gene Regulatory Complex Proteins by CD Spectroscopy”

Student: Destiney Buelto  
Mentor: Laundette Jones  
“Analysis of Aromatase Expression in the Breast/Stromal Microenvironment between African American and Caucasian Women”

Student: Elizabeth Campbell  
Mentor: Bradley Arnold  
“Solvent Effects on Charge-Transfer Complexes”

Student: Joy Ihekweazu  
Mentor: Lisa Kelly  
“Non-Covalent Interactions Between Naphthalene Imide Compounds and Proteins”

Student: Jung Kim  
Mentor: Jia Bei Wang  
“Gene Knockdown Model for PKCI/HINT1 Protein in PC12 Cells”

Student: Matthew Malinowski  
Mentor: Richard Karpel  
“One-Dimensional Diffusion of Gene 32 Protein along dsDNA”

Student: Jessica McGrath  
Mentor: Michael Summers  
“The Relationship between the Structure of the FIV Matrix Protein and its Ability to Target the Plasma Membrane”

Student: Gabrielle McRae  
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Student: Tanu Sharma  
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“Probing the Counterion to the Protonated Schiff Base in Melanopsin”

Student: Nirav Shelat  
Mentor: C. Allen Bush  
“Structural Development of Unknown *Streptococcus Pneumonia* Polysaccharide through NMR Spectroscopy Analysis”

**COMPUTER ENGINEERING**

**Poster Presentations, University Center Ballroom**

Students: John Glaros, Charles Lohr, and Chad Flanders  
Mentor: Tim Oates  
9:30 – 11:30 a.m.

Student: Hasina Jamal  
Mentor: Fow-Sen Choa  
9:30 – 11:30 a.m.

**COMPUTER SCIENCE**

**Poster Presentation, University Center Ballroom**

UMBC Game Development Club: Charles Lohr, Lesa Wilcox, Arthur Gould, David Chapman, Joel Bowers, Jonathan Pack, Kiran Sudhakara, Benjamin Dailey, Matthew Song, and Paul Oliver  
Mentor: Marc Olano  
9:30 – 11:30 a.m. AND  
1:00 – 3:00 p.m.

**DANCE**

**Performances, Fine Arts 317, Dance Studio**

Student: Carly Engelke  
Mentor: Doug Hamby  
10:00 -- 10:30 a.m.

“Outside the Inside”
**ENGLISH**

**Oral Presentations, University Center Room 310**

Student: Matthew Poland  
Mentor: Raphael Falco  
10:00 -- 10:15 a.m.  

“'Great Sofas in Vast Cathedrals': Space and Moral Perception in Three English Country-House Novels”

Student: Sarah Lichtner  
Mentor: Orianne Smith  
10:15 -- 10:30 a.m.  

“Oscar Wilde: Degenerate or Revolutionary?”

Student: Kayleigh Somers  
Mentor: Orianne Smith  
1:30 -- 1:45 p.m.  

“‘Dirt and Confusion': Nature in Jane Austen's Novels”

**ENVIRONMENTAL SCIENCE**

**Poster Presentations, University Center Ballroom, 9:30 – 11:30 a.m.**

Student: Aubrey Hillman, Kaitlin Coolahan, and Kayleigh Somers  
Mentor: Christopher Swan  

“Consumer Feeding Interacts with Selective Tree Species Loss in Streams: Consequences for In-Stream Ecosystem Processes”

Student: Rebecca Reeves  
Mentor: Christopher Swan  

“The Effect of Road Salt on Competition between Gray Tree Frog (Hyla versicolor) Tadpoles”

**HEALTH ADMINISTRATION AND POLICY**

**Poster Presentations, University Center Ballroom, 1:00 – 3:00 p.m.**

Student: Joyce Awuro  
Mentor: Andrea Kalfoglou  

“Drug Combination Therapy for Malaria: Analysis of Experimental Studies and Proposal for a Comprehensive Approach”

Student: Jacquiline Wanjonii  
Mentor: Andrea Kalfoglou  

HISTORY

Student: Anastasia Feaster  
Mentor: Denise Meringolo  
Oral Presentation  
2:30 -- 2:45 p.m., UC 312  

“Hispanic Heritage Month and Hispanic Identity”

Student: Sarah Blusiewicz  
Mentor: Kriste Lindenmeyer  
Poster Presentation  
9:30 – 11:30 a.m., Ballroom  

“Sparrows Point: A Study of the Influence of Deindustrialization on a Baltimore Neighborhood”

INFORMATION SYSTEMS

Student: Matthew Morrison  
Mentor: Henry Emurian  
Oral Presentation  
9:30 -- 9:45 a.m., UC 310  

“Application of Scheduling Algorithms in Assigning Advisors during UMBC New Student Orientation Advisement”

Student: Tawny Barin  
Mentor: Anita Komlodi  
Poster Presentation  
1:00 – 3:00 p.m., Ballroom  

“Gender and the Use of Social Networking Sites”

INTERDISCIPLINARY STUDIES

Student: Cheryl Jaworski  
Mentor: Piotr Gwiazda  
Oral Presentation  
10:30 -- 10:45 a.m., UC 310  

“Christina Stead's Religion of Love and the New Science of the Mind”

Student: Christina Hawkins  
Mentors: Tim Gindling  
Devin Hagerty  
Oral Presentation  
11:00 – 11:15 a.m., UC 310  

“Latin American Trade Alternatives for the 21st Century”

Student: Kasebaoth Mekonnen  
Mentor: Sarah Chard  
Poster Presentation  
1:00 – 3:00 p.m., UC Ballroom  

“Malaria and Insecticide-treated Bednets in Ishaka, Uganda”
MATHEMATICS

Student: Yuriy Sverchkov
Mentor: Muruhan Rathinam
Oral Presentation
10:00 -- 10:15 a.m., UC 312

“Modeling Flagellar Growth as a Stochastic Process”

MECHANICAL ENGINEERING

Oral Presentations, University Center 312

Student: Devin Burns
Mentor: Marc Zupan
1:45 -- 2:00 p.m.

“Mechanical Properties of Electroformed Fused Deposition Modeled-Copper-Nickel Hybrid Materials”

Student: Brandon Johnson
Mentor: Tim Topoleski
2:00 -- 2:15 p.m.

“Improving Mechanical Properties of PMMA Bone Cement with Nano and Micro Particles”

Poster Presentations, University Center Ballroom

Student: Brandon Borde
Mentor: Tim Topoleski
9:30 – 11:30 a.m.

“Analysis of the Mechanical Behavior of Bovine Descending Aorta”

Student: Dianne Weeks
Mentor: Liang Zhu
1:00 – 3:00 p.m.

“Investigations of the Temperature Elevation during Magnetic Fluid Hyperthermis: an in vitro Experimental Study”

MEDIA AND COMMUNICATIONS STUDIES

Student: Kacie Smith
Mentor: Jason Loviglio
Poster Presentation
9:30 – 11:30 a.m., Ballroom

“The Evolution of Gender Representations in Switzerland: A Content Analysis”

MODERN LANGUAGE AND LINGUISTICS

Oral Presentations, University Center 310

Student: Amanda Rosenbush
Mentor: Denis Provencher
1:15 -- 1:30 p.m.

“Reading beyond the Lines: The Discourse of Gender Violence in Spain”
Student: Matthew Dolamore  
Mentor: Elaine Rusinko  
2:00 -- 2:15 p.m.  
“National Identity in Monuments – Analysis of Interactions between Russia’s Youth and Moscow’s Public Monument Sites”

Student: Christianna Stavroudis  
Mentor: Thomas Field  
2:15 -- 2:30 p.m.  
“Teaching Pragmatics to High-Functioning Individuals with Autism: An Outline for a Computer Learning Program”

Student: Melissa Stockbridge  
Mentor: Thomas Field  
Poster Presentation  
1:00 – 3:00 p.m., Ballroom  
“Indirect Speech Act Comprehension in Patients with Asperger Syndrome: A Formal Logic Approach”

**MUSIC**

**Oral/Performance Presentations**

Student: Michael Herder  
Mentor: Airi Yoshioka  
9:15 -- 9:30 a.m., UC 312  
“Violin Performance Studies”

Student: Christopher Johnson  
Mentor: Alan Wonneberger  
11:00 -- 11:30 a.m., FA 317  
1:00 – 3:00 Ballroom  
“Emulating an Acoustic Instrument Using Advanced Sampling Software”

Student: Anna An  
Mentor: Airi Yoshioka  
2:15 -- 2:30 p.m., UC 312  
“Adventure in Learning the Language of Music”

**Poster Presentations, University Center Ballroom**

Student: Paul Carmack  
Mentor: David Kim-Boyle  
1:00 – 3:00 p.m.  
“Beats from the Streets: Music in its Most Sincere Form”

Student: Christopher Johnson  
Mentor: Alan Wonneberger  
1:00 – 3:00 p.m.  
“Emulating an Acoustic Instrument Using Advanced Sampling Software”

Student: Ben Potok  
Mentor: Joseph Morin  
1:00 – 3:00 p.m.  
“A Coordinated Approach to Playing the Drum Set”
Student: Trevor Simpson  
Mentor: Alan Wonneburger  
1:00 – 3:00 p.m.  
“Component-based Electronics and their Relevance in Historical Recording Methods”

PHILOSOPHY

Students: Elizabeth Kudirka and Mike German  
Mentor: Richard Wilson  
Oral Presentation  
9:45 -- 10:00 a.m., UC 310  
“Ten Reasons Biotechnology Will Be Important to the Developing World”

PHYSICS

Student: Eric Wieczorkowski  
Mentor: Ian George  
Oral Presentation  
2:45 -- 3:00 p.m., UC 312  
“Modeling the X-ray Continuum in Seyfert Galaxies”

POLITICAL SCIENCE

Student: Douglas Nivens, II  
Mentor: Cynthia Hody  
Oral Presentation  
11:15 -- 11:30 a.m., UC 310  
“Appeasing Whom? The Use of Unilateral Initiatives and Inter-Korean Relations”

Student: Ari Ne'eman  
Mentor: Carolyn Forestiere  
Poster Presentation  
9:30 – 11:30 a.m., Ballroom  
“The Role of Economic Development Indicators in the Electoral Patterns of Two Eastern European Transitional Democracies”

PSYCHOLOGY

Oral Presentations

Student: Joshua Betz  
Mentor: Shari Waldstein  
1:30 -- 1:45 p.m., UC 312  
“Backpropagation Analysis of Silent Cerebrovascular Disease and Cognitive Function in a Community-Dwelling Adult Sample”

Student: Ebony Davis  
Mentor: Laura Ting  
2:30 -- 2:45 p.m., UC 310  
“Black Women's Attitudes on Interracial Dating: A Qualitative Study”
Student: Kau Queeglay
Mentor: Charissa Cheah
2:45 -- 3:00 p.m., UC 310

“Predicting Adolescent Mothers' Confidence from Social Support and Parenting Knowledge”

Poster Presentations, University Center Ballroom, 9:30 – 11:30 a.m.

Student: Bridget Armstrong and Elizabeth Silberholz
Mentor: Lynnda Dahlquist

“The Effects of Child Food Allergy on Family Activities”

Student: Samantha Bier
Mentor: Lynanne McGuire

“Active Coping and Perceived Control Influence Cortisol Responses to Acute Pain among Women”

Student: Yasmeen Khaskia
Mentor: Lynanne McGuire

“The Effects of Perceived Control over Acute Pain on in vivo Catastrophizing”

Student: Tatiana Lary
Mentor: Laura Stapleton

“The Correlation Between Air Pollution and Mental Health”

Student: Megan Sipes
Mentor: Lynnda Dahlquist

“Relationship between Distress and Duration of Procedure in Pediatric Cancer Patients”

Student: Seth Vacek
Mentor: Karen Freiberg

“Beneath the Ink: The Revelation of Tattoos”

Poster Presentations, University Center Ballroom, 1:00 – 3:00 p.m.

Student: Ishmeal Conteh
Mentor: Shawn Bediako

“Do Race and Gender Influence Perceptions about Individuals with Sickle Cell Disease?”

Student: Andrew Fritz
Mentor: Diane Alonso

“The Forms of Goal Orientation and its Relation to Fear of Failure: A Correlational Study”

Student: Rebecca Stern
Mentor: Lynnda Dahlquist

“The Food Allergy Diagnosis and Maternal Perceptions”

SOCIAL WORK

Student: April Asare and Nancy Borger
Mentor: Susan McFeaters
Poster Presentation
9:30 – 11:30 a.m., UC Ballroom

“Creating Academic Success through Guided Study Sessions”
THEATRE

Video/Performance Presentation

Student: Daphne Gardner
Mentor: Fred Worden
Video Presentation
2:10 -- 2:30 p.m., FA 221

"Lonely Girl"

VISUAL ARTS

Video Presentations, Fine Arts 221

Student: Glen Fortner
Mentor: Fred Worden
1:30 -- 1:50 p.m.

"Nine"

Student: Andrej Bevec
Mentor: Eric Dyer
1:50 -- 2:10 p.m.

"Morning"

Student: Evan Devine
Mentor: Fred Worden
2:30 -- 2:50 p.m.

“Study of Kurt Kren and Experiments in Structural Film”

Student: Timothy Brosius
Mentor: Fred Worden
2:50 -- 3:10 p.m.

“Procopius of Caesarea: The Buildings”