## Dance, Music, and Theatre Presentations

**Fine Arts Building, Room 317**

**Moderator: Doug Hamby**

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<tr>
<th>Time</th>
<th>Presentation</th>
<th>Topic</th>
<th>Mentor</th>
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<tr>
<td>10:00 a.m. - 10:15 a.m.</td>
<td>Shaun Vain</td>
<td>&quot;Body Mechanics: Applying Suzuki, Viewpoints and Delsarte System of Expression to Stage Performance&quot;</td>
<td>Professor Alan Kreizenbeck, Mentor</td>
</tr>
<tr>
<td>10:15 a.m. - 10:30 a.m.</td>
<td>Hannah Rider</td>
<td>&quot;Ornamentation in the Historical Context&quot;</td>
<td>Professor Lisa Cella, Mentor</td>
</tr>
<tr>
<td>10:30 a.m. - 10:45 a.m.</td>
<td>Franki Trout</td>
<td>&quot;Investigating the Technique and Legacy of José Limón&quot;</td>
<td>Professor Douglas Hamby, Mentor</td>
</tr>
<tr>
<td>10:45 a.m. - 11:00 a.m.</td>
<td>Michelle Brandenburg</td>
<td>&quot;Body Awareness: New Discoveries in Movement&quot;</td>
<td>Professor Doug Hamby, Mentor</td>
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**The Commons Patio Terrace**

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<tr>
<td>11:15 a.m. - 11:30 a.m.</td>
<td>Emily Kimak</td>
<td>&quot;Moving to Water&quot;</td>
<td>Professor Carol Hess, Mentor</td>
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</table>

**Wednesday, April 27, 2011**

**UMBC**

**An Honors University in Maryland**
Video & Animation Screenings

Fine Arts Building, Room 221

Moderator: Frederic Worden

1:15 p.m. - 1:30 p.m. Theresa Columbus Visual and Performing Arts
“Nostalgia for Everything”
Professor Preminda Jacob, Mentor

1:30 p.m. - 1:45 p.m. Christine Osazuwa Interdisciplinary Studies
“Always Wanting More: Access, Entitlement and Expectations of Popular Music Bands in the Age of Social Media”
Professor Frederic Worden, Mentor

1:45 p.m. - 2:00 p.m. Mallorie Ortega Visual Arts
“Struggle to Collaborate with Strangers”
Professor Frederic Worden, Mentor

2:00 p.m. - 2:15 p.m. Diego Tapia Visual Arts
“Sinless”
Professor Frederic Worden, Mentor

2:15 p.m. - 2:30 p.m. Daniel Vakharia Visual Arts
“Life of an Assassin”
Professor Frederic Worden, Mentor
Wednesday, April 27, 2011

Oral Presentations

**University Center, Room 310**

**Session I**

Moderator: Katherine Seley-Radtke, Chemistry and Biochemistry

**9:45 a.m. - 10:00 a.m.**

Phillip Fitzgerald  
“Glutathione S-Transferases as Regulators of Tumor-Induced Myeloid-Derived Suppressor Cell Survival”  
Professor Suzanne Ostrand-Rosenberg, Mentor

**10:00 a.m. - 10:15 a.m.**

Phillip Geter  
“Synthesis of Gemcitabine Functionalized Dendron for Treatment of Advanced Pancreatic Cancer”  
Professor Marie-Christine Daniel, Mentor

**10:15 a.m. - 10:30 a.m.**

Asa Adadey and Emily Doughty  
“Predicting Protein-Protein Interactions for Integrins and an LDL Receptor”  
Professor Maricel Kann, Mentor

**10:30 a.m. - 10:45 a.m.**

Joshua François  
“Modeling Optical Stretching of a Chinese Hamster Ovary Cell”  
Professor Charles Eggleton, Mentor

**Session II**

Moderator: Phyllis Robinson, Biological Sciences

**10:45 a.m. - 11:00 a.m.**

Peter Cangelosi  
“Rat Model of Brain Injury Caused by Blast-Induced Hyper-Acceleration”  
Professor Gary Fiskum, Mentor  
Dr. Julie Hazelton, Mentor

**11:00 a.m. - 11:15 a.m.**

Devyani Ujla  
“Understanding the Interaction between Melanopsin and Arrestin Using FRET”  
Professor Phyllis Robinson, Mentor
Oral Presentations

University Center, Room 310 (continued)

11:15 a.m. - 11:30 a.m.  Kalyani Nambar  Biological Sciences
“Analysis of HIV Specific Shark Single Domain Antibodies by Phage Display”
Professor Martin Flajnik, Mentor

11:30 a.m. - 11:45 a.m.  William Hanchett  Economics
“The Effects of Risk Aversion on Portfolio Asset Allocation”
Professor Douglas Lamdin, Mentor

11:45 a.m. - 12:00 noon  Leonid Kritz  Economics
“A Market Timing Strategy to Achieve Excess Returns”
Professor Douglas Lamdin, Mentor

Session III

Moderator: Charles Bieberich, Biological Sciences

1:15 p.m. - 1:30 p.m.  Marie Steele  Economics
“Human Capital Explanation of the Gender Wage Gap, 1875-1950”
Professor William Lord, Mentor

1:30 p.m. - 1:45 p.m.  Rima Kikani  English
“Genetic Pathways Involved in Retinal Degeneration”
Dr. Rivka Rachel, Mentor
Professor Sally Shivnan, Mentor

1:45 p.m. - 2:00 p.m.  Aminah Wali  Biological Sciences
“Developing a System to Regulate Gene Expression in the Mouse Prostate”
Professor Charles Bieberich, Mentor

2:00 - 2:15 p.m.  Emily Kimak  Interdisciplinary Studies
“Moving to Water”
Professor Carol Hess, Mentor

Wednesday, April 27, 2011
Oral Presentations

University Center, Room 310 (continued)

Session IV

Moderator: Dawn Biehler, Geography and Environmental Systems

2:30 p.m. - 2:45 p.m.  Julianna Kuhn
Geography and Environmental Systems
“Measles in a Modern World: Comparing the 2008 Outbreaks in Austria and the United States”
Professor Dawn Biehler, Mentor

2:45 p.m. - 3:00 p.m.  Claudia Valenzuela
Biological Sciences
“Detection of Attaching/Effacing E. coli in Human Tissue”
Professor Michael Donnenberg, Mentor

3:00 p.m. - 3:15 p.m.  Christopher Ecker
Biological Sciences
“A Novel Mechanism of Resistance to Apoptosis in Immune Suppressive Cells in the Inflammatory Tumor Environment”
Professor Suzanne Ostrand-Rosenberg, Mentor

3:15 p.m. - 3:30 p.m.  Natée Johnson
Computer Science and Electrical Engineering
“X-Ray Study of Nano-Scale Superlattice Materials”
Professor Fow-Sen Choa, Mentor
Wednesday, April 27, 2011

Oral Presentations

University Center, Room 312
Session I

Moderator: Nicole King, American Studies

9:30 a.m. - 9:45 a.m.  Megha Jacob  Music
“The Incorporation of Music Therapy into Physical Therapy Sessions for Physically Disabled Individuals”  
Professor Airi Yoshioka, Mentor

9:45 a.m. - 10:00 a.m.  Samantha Medema  American Studies
“Pop-Tarts: A World unto Themselves”  
Professor Warren Belasco, Mentor

10:00 a.m. - 10:15 a.m.  Dora Korewa  American Studies
“The Guido and the Mobster: Responses to Italian American Stereotypes in Italy and the United States”  
Professor Duncan Campbell, Mentor

10:15 a.m. - 10:30 a.m.  Justin Eisenstadt  American Studies
“A Matter of Taste: The Subculture of Vinyl”  
Professor Jason Loviglio, Mentor

10:30 a.m. - 10:45 a.m.  Katherine Bentz  Ancient Studies
“The Effect of the Roman Empire’s Decline on the Ports of Pisa and Portus (Rome)”  
Professor Carolyn G. Koehler, Mentor

Session II

Moderator: Daniel Ritschel, History

10:45 a.m. - 11:00 a.m.  Ryan Ramos  American Studies
“The Effectiveness of Estates as Legacies”  
Professor W. Edward Orser, Mentor

11:00 a.m. - 11:15 a.m.  Ngeri Nnachi  American Studies
“The Effects of Patriarchy and Migration on Nigerian-Igbo Culture Sibling Sets within the United States”  
Professor Kathy Bryan, Mentor
Oral Presentations

University Center, Room 312 (continued)

11:15 a.m. - 11:30 a.m. Christina Briscoe Interdisciplinary Studies
“Adolescent Mothers in a Quilombo Community: Praia Grande, Brazil”
Professor Bambi Chapin, Mentor

11:30 a.m. - 11:45 a.m. Sarah Hovde History
“Common Decency: The Evolving Socialism of George Orwell”
Professor Daniel Ritschel, Mentor

Session III

Moderator: Anne Rubin, History

1:15 p.m. - 1:30 p.m. Salma Warshanna English
“The Past that is Always Present: The Role of Memoir in Identity”
Professor Robin Farabaugh, Mentor

1:30 p.m. - 1:45 p.m. Abigail Bratcher History
“Reclaiming Maryland: Confederate Nationalism in Popular Print Culture”
Professor Anne Rubin, Mentor

1:45 p.m. - 2:00 p.m. Louise Djapgne Biochemistry and Molecular Biology
“The Second Green Revolution in Africa: An Assessment of its Sustainability”
Professor Marie Deverneil, Mentor

2:00 p.m. - 2:15 p.m. Sarah Hovde Modern Language, Linguistics, and Intercultural Communication
“Distinctive Features: Activist Linguists and the Language of Activists”
Professor Thomas Field, Mentor

2:15 p.m. - 2:30 p.m. Elizabeth Lynch Modern Language, Linguistics, and Intercultural Communication
“English Standards in the UMBC Classroom”
Professor Thomas Field, Mentor
Oral Presentations

University Center, Room 312 (continued)
Session IV

Moderator: Sarah Chard, Sociology and Anthropology

2:30 p.m. - 2:45 p.m. Natasha Chae
“Capraesque America: The Great Depression Films of Frank Capra from 1934-1939”
Professor Warren Belasco, Mentor

American Studies

2:45 p.m. - 3:00 p.m. Daniel Moges
“The Role of Economic Disparity in Human Rights Abuses: Case Study on Rwanda and Sierra Leone”
Professor Cynthia Hody, Mentor

Political Science

3:00 p.m. - 3:15 p.m. Joshua Hunter
“NATO: Identity, Role and Function in the Post-Cold War Period”
Professor Brigid Starkey, Mentor

Political Science

3:15 p.m. - 3:30 p.m. Tomiko Shine
“The Politics of The Criminal Justice System: Anthropological Perspective”
Professor Sarah Chard, Mentor

Sociology and Anthropology
Wednesday, April 27, 2011

Poster Presentations

University Center Ballroom
10:00 a.m. – 12:30 p.m.

Annam Abbasi
Biological Sciences
“Studying the Role of Ribosomal Protein rps2 in Maintaining Translational Fidelity”
Professor Philip Farabaugh, Mentor

Laura Anzaldi
Biological Sciences
“BioBar: A Sequence Manipulation and Editing Toolkit for Microsoft Word”
Professor Ivan Erill, Mentor

David Bartee
Biochemistry and Molecular Biology
“Second Generation Analogs of UK-1”
Professor Paul Smith, Mentor

Shawn Barton
Biochemistry and Molecular Biology
“A Novel Method to Structural Determination of HIV-1 5’-UTR”
Professor Michael Summers, Mentor

Samantha Bryant
Political Science
“Analysis of Alternative Fuel Policy Options”
Professor Laura Hussey, Mentor

Patricia Castillo
Biological Sciences
“Fine-tuning of Mucosal Barrier Function for Tetanus Vaccine Delivery in Mice Using the Novel Peptide Adjuvant AT1002”
Professor Alessio Fasano, Mentor
Professor Vincenzo Casolaro, Mentor

Mayukh Chakrabarti
Bioinformatics and Computational Biology
“Angiotensin II Receptor Blockers (ARB) Reduce Brain Inflammation”
Professor Juan Saavedra, Mentor

Geoffrey Clapp
Mathematics and Statistics
“Modeling Sensory Input to the Lamprey Spinal Cord”
Professor Kathleen Hoffman, Mentor
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<td>Biological Sciences</td>
<td>“Genetic Analysis of the Role of PHT4;6 in Regulating Innate Immunity of Arabidopsis”</td>
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<tr>
<td>Payal Daya</td>
<td>Biological Sciences</td>
<td>“Optimizing Feeding Rate Methodology in Drosophila to Determine the Effect of Energy Acquisition on Life Span”</td>
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<td>Sai Sachin Divakaruni</td>
<td>Chemistry and Biochemistry</td>
<td>“HIV-1 Diploid Genome Selection is Mediated By a Novel Dimerization-Dependent RNA Structural Switch Mechanism”</td>
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<td>Courtney LaCotti</td>
<td>Music</td>
<td>“Music for All: Private Music Education in Carroll County, Maryland”</td>
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<td>Meredith Donaho</td>
<td>History</td>
<td>“A Comparative Study: Courtesans and Prostitutes in England and Japan during the Early Modern Period (1400 - 1800)”</td>
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<td>Ashley Dyjack</td>
<td>Political Science</td>
<td>“Committee Power and Black State Legislators: When Perception and Reality Clash”</td>
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<td>Rhoanne Esteban</td>
<td>Psychology</td>
<td>“Sensation Seeking, Perceived Norms and Actual Nonmedical Use of Prescription Drugs among College Students”</td>
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<tr>
<td>Bernadette Fausto</td>
<td>Bioinformatics and Computational Biology</td>
<td>“Increasing EMU’s Annotated Disease-Related Mutations by Curating Acute Myeloid Leukemia”</td>
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<td>Veer Gariwala</td>
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<td>Ajmer Randhawa</td>
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<td>Olayinka Savage</td>
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<tr>
<td>Hashim Gibril</td>
<td>Psychology “Alcohol Consumption and Stress-Related Outcomes in Sickle Cell Disease”</td>
<td>Professor Shawn Bediako, Mentor</td>
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<td>Khori-Jon Allen</td>
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<tr>
<td>Eliza Gosc</td>
<td>Biological Sciences “Regulation of the Prostate-Specific Tumor Suppressor NKX3.1 by Pim-1 Kinase”</td>
<td>Professor Charles Bieberich, Mentor</td>
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<tr>
<td>Casey Gray</td>
<td>English “Americanized Pedagogy: Journey to El Salvador”</td>
<td>Professor Jean Fernandez, Mentor</td>
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<tr>
<td>Lydia Grmai</td>
<td>Biological Sciences “Effects of Inflammation on Accumulation of Myeloid-Derived Suppressor Cells (MDSC) in Breast Cancer”</td>
<td>Professor Suzanne Ostrand-Rosenberg, Mentor</td>
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<tr>
<td>Krystyna Horn</td>
<td>Biological Sciences “How Rare is Red? Comparing Blackbirds and Related Songbirds”</td>
<td>Professor Kevin Omland, Mentor Professor Michelle Starz-Gaiano, Mentor</td>
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<tr>
<td>Chioma Ihekweazu</td>
<td>Biological Sciences “The Role of Coloration in Intersexual Selection in Etheostoma barrenense”</td>
<td>Professor Tamra Mendelson, Mentor</td>
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<tr>
<td>Lisa Jackson</td>
<td>Psychology “Perceived Mortality and Alcohol Use among Individuals with Sickle Cell Disease”</td>
<td>Professor Shawn Bediako, Mentor</td>
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<tr>
<td>Cameron Johnson</td>
<td>Chemistry and Biochemistry “Design and Synthesis of Unnatural DNA Base Pairs Containing Expanded Purine Analogues”</td>
<td>Professor Katherine Seley-Radtke, Mentor</td>
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<tr>
<td>Name</td>
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<tr>
<td>Sheriff Jolaoso</td>
<td>Computer Science and Electrical Engineering</td>
<td>“Spectrogram Analysis and Evaluation and Brainwave Appreciation of Music”</td>
<td>Professor Fow-Sen Choa, Mentor</td>
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<td>Achsah Joseph</td>
<td>Interdisciplinary Studies</td>
<td>“An Analysis of the Peace-building Strategies in Ker Kwaro Acholi’s Strategic Plan 2009-2014”</td>
<td>Professor Devin Hagerty, Mentor</td>
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<tr>
<td>Alpana Kaushiva</td>
<td>Sociology and Anthropology</td>
<td>“Stroke Rehabilitation in Senior Center Environments: A Qualitative Study”</td>
<td>Professor Sarah Chard, Mentor</td>
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<td>Alvin Kennedy</td>
<td>Biological Sciences</td>
<td>“Characterization of the Homophilic Adhesion Molecule Cadherin 74A in Cell Migration during Drosophila Oogenesis”</td>
<td>Professor Michelle Starz-Gaiano, Mentor</td>
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<tr>
<td>Anthony Kronfli</td>
<td>Biochemistry and Molecular Biology</td>
<td>“Incorporation of Tagged and Untagged L4 Ribosomal Protein into Ribosomes”</td>
<td>Professor Lasse Lindahl, Mentor</td>
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<tr>
<td>Kevin Lin</td>
<td>Psychology</td>
<td>“Association between Parenting Goals and Parenting Practices among Chinese Immigrants”</td>
<td>Professor Charissa Cheah, Mentor</td>
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<tr>
<td>Morgan Madeira</td>
<td>Computer Science and Electrical Engineering</td>
<td>“Finding Communities through Social Media”</td>
<td>Professor Anupam Joshi, Mentor</td>
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<td>Rachel Sweeton</td>
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<tr>
<td>Anastasia Mallilin</td>
<td>Psychology</td>
<td>“Spatial Learning Deficits on a Virtual Radial Arm Task in Schizophrenia”</td>
<td>Professor Laura Rowland, Mentor</td>
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Poster Presentations

Shana Martin  
Visual Arts  
“Graffito: A Graffiti Museum”  
Professor Preminda Jacob, Mentor  
Ms. May Chang, Mentor  

Carmen Matos  
Biochemistry and Molecular Biology  
“Acute Tolerance to Etophine for Wild Type C57B1/6 Mice”  
Professor Jia Bei Wang, Mentor  

Sonia Metangmo  
Biological Sciences  
“The Presentation of Plasmodium Antigen by Splenic Dendritic Cells”  
Professor Fidel Zavala, Mentor  

Archana Murali  
Biological Sciences  
“Apontic, a Novel Regulator of Janus Kinase/Signal Transducer and Activator of Transcription (JAK/STAT) Pathway in Drosophila Testis”  
Professor Michelle Starz-Gaiano, Mentor  

Brandon Nemieboka  
Biochemistry and Molecular Biology  
“Characterization of AC1-EXR and AC1-LetR Breast Cancer Cell Lines”  
Professor Angela Brodie, Mentor  

Pejmon Pashai  
Biological Sciences  
“Measuring the Release of ATP from the Mouse Carotid Body”  
Professor Machiko Shirahata, Mentor  

Caroline Poff  
Biological Sciences  
“Prostate-Specific Expression of MYC in a New Model of Prostate Cancer”  
Professor Charles Bieberich, Mentor  

Leida Rassouli-Taylor  
Biochemistry and Molecular Biology  
“The Expression, Purification, and Crystallization of the H-NOX Regulatory Domain of Bovine Soluble Guanylate Cyclase”  
Professor Elsa Garcin, Mentor  

Wednesday, April 27, 2011
Poster Presentations

Annah Seo  
Psychology  
“The Socialization Goals and Parenting Behaviors of Korean Immigrant Mothers and their Children’s Outcomes”  
Professor Charissa Cheah, Mentor

Reema Sharma  
Biological Sciences  
“B7H1 Expression in Lung Cancer: A Potential Therapeutic Biomarker”  
Professor Jonathan Powell, Mentor

Shiva Sharma  
Information Systems  
“Toward Tactile Authentication for Blind Users”  
Professor Ravi Kuber, Mentor

Kayla Smith, Lisa Nicholson  
English  
“Writers and Artists Together: Design Students Interpret the Words of Bartleby 2011”  
Professor Sally Shivnan, Mentor  
Professor Guenet Abraham, Mentor

Monét Stanford  
Biochemistry and Molecular Biology  
“Retinal Expression and Pressure-sensitive Modulation of CCR5, CCR3, and CCR1 in Glaucoma”  
Professor Rebecca Sappington, Mentor

David Stonko, Xuan Ge  
Mathematics and Statistics  
“Building a Mathematical Model to Understand the Molecular Interpretations of Spatial Gradients of Biological Activators”  
Professor Michelle Starz-Gaiano, Mentor

Margarita Tararina  
Biological Sciences  
“Characteristics of Kynurenine Pathway Metabolites and Enzymes in Human Blood Cells”  
Professor Robert Schwarcz, Mentor

Andrea Thomson  
Political Science  
“Worthwhile or Wasteful? An Evaluation of Techniques for Measuring the Impact of Business Subsidies”  
Professor Roy Meyers, Mentor
## Poster Presentations

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<td>Physics</td>
<td>“Opto-Mechanical System Design and Development”</td>
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<td>Professor Vanderlei Martins, Mentor</td>
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<td>Professor Anne Marie Spence, Mentor</td>
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<tr>
<td>UMBC Game Developers Club</td>
<td>Computer Science and Electrical Engineering</td>
<td>“Innovations in Computer Game Development”</td>
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<td>Professor Neal McDonald, Mentor</td>
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<td>Melissa Velasquez</td>
<td>Chemical and Biochemical Engineering</td>
<td>“Analysis of Oxygen Levels within S. aureus Biofilms using Fluorescent Microparticles”</td>
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<td>Professor Julia Ross, Mentor</td>
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<td>Professor Jennie Leach, Mentor</td>
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<td>Maria Vitery</td>
<td>Biochemistry and Molecular Biology</td>
<td>“Crotamine, the Protein from the Venom of the South American Rattlesnake, and Its Binding to DNA”</td>
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<td>Professor Richard Karpel, Mentor</td>
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<td>Robert D. Wardlow II</td>
<td>Biochemistry and Molecular Biology</td>
<td>“Mesenchymal Stem Cells Provide Protection of Cardiac Ventricular Myocytes by Paracrine Mechanism”</td>
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<td>Professor Terry B. Rogers, Mentor</td>
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<td>John Winder</td>
<td>Visual Arts</td>
<td>“A Digital Skeleton Key to Art: Symbolism of Light and Dark in European Oil Painting from 1500-1900”</td>
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<td>Professor Preminda Jacob, Mentor</td>
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<td>Isleen Wride</td>
<td>Biological Sciences</td>
<td>“The Costly Tradeoff between Immune Response and Enhanced Lifespan in Drosophila melanogaster”</td>
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<td>Pooja S. Patil</td>
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<td>Professor Jeff Leips, Mentor</td>
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<tr>
<td>Breanne Wright</td>
<td>Biochemistry and Molecular Biology</td>
<td>“The Effect of Transgenic Manipulation of the BK Channel (Kcnma1) on Circadian Rhythmicity in Mice”</td>
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<td>Professor Andrea Meredith, Mentor</td>
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Poster Presentations

Jojo Yeboa  Biochemistry and Molecular Biology  Poster # 111
“Increasing *Aspergillus nidulans* Chronological Lifespan via Induced Autophagy”
Professor Mark Marten, Mentor
Mr. Bill Moss, Mentor

Brandon Young  Biological Sciences  Poster # 56
“The Functional Analyses of a Mutated Tentacle within the L4 Protein”
Professor Janice Zengel, Mentor

Albert Zhou  Biological Sciences  Poster # 114
“Combining Oncogene Activation and Tumor Suppressor Loss: Developing a New Combinatorial Mouse Model of Prostate Cancer”
Professor Charles Bieberich, Mentor
Wednesday, April 27, 2011

Poster Presentations

University Center Ballroom
12:30 p.m. – 3:00 p.m.

Aleeza Abbasi
Biological Sciences
“Genetic Analysis of Translational Accuracy in the Bacterium Escherichia coli”
Professor Philip Farabaugh, Mentor

Anissa Alexander
Biochemistry and Molecular Biology
“Worldwide Literature Search and Gap Analysis of Antimalarial Drug Resistance Mutations”
Professor Christopher Plowe, Mentor

Britt Andersen
Chemistry and Biochemistry
“Identification of Compounds that Bind to the HIV-1 Capsid Protein and Inhibit Capsid Core Formation”
Professor Michael Summers, Mentor

Pallavi Bhargava
Biochemistry and Molecular Biology
“Inhibiting Matrix Targeting of the Gag Polyprotein towards the Plasma Membrane in HIV-1 Retrovirus Replication”
Professor Michael Summers, Mentor

Angela Brant
Psychology
“Preschool Children’s Moral Evaluations of Aggression: Reliability, Stability, and Discriminant Validity”
Professor David Schultz, Mentor

Keisha Carr
Chemical and Biochemical Engineering
“New Chromatography Methods for Biological Macromolecules and Carbon Nanotubes”
Professor Douglas Frey, Mentor

Tania Chatterjee
Biological Sciences
“TIMP-2 Overexpression Alters the Transcriptional Profile of Human Adenocarcinoma A549 Cells”
Professor William Stetler-Stevenson, Mentor
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<tr>
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<tr>
<td>Catherine Dodson</td>
<td>Psychology</td>
<td>“School Attendance Rates of Food Allergic and Non-allergic Children”</td>
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<tr>
<td>Allyson Crehan</td>
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<td><strong>Professor Lynnda Dahlquist, Mentor</strong></td>
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<tr>
<td>Emily Doughty</td>
<td>Bioinformatics and Computational Biology</td>
<td>“Improving Approach in Automatic Method for Mutation Extraction and Disease-Relationship Mutation Annotation”</td>
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<td><strong>Professor Maricel Kann, Mentor</strong></td>
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<tr>
<td>Dinah Douglas</td>
<td>Political Science</td>
<td>“Blue over Black: Racial Parochialism, Incumbent Protection, and the 2010 Democratic Primary in Memphis”</td>
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<td>Rhoanne Esteban</td>
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<td>Andrew Kent</td>
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<td>Merertu Kitila</td>
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<td>Ebonic Riley</td>
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<td>Donald Suica</td>
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<tr>
<td>Kedy Edme</td>
<td>Chemistry and Biochemistry</td>
<td>“Towards Using NMR to Identify NC-RNA Interaction in HIV-1”</td>
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<td><strong>Professor Michael Summers, Mentor</strong></td>
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<tr>
<td>Katelyn Erickson</td>
<td>Chemistry and Biochemistry</td>
<td>“Parameterization of Ligands Associated with the RNA Dependent RNA Polymerase Found in Hepatitis C Virus”</td>
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<tr>
<td>Kathleen Heasley</td>
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<td><strong>Professor Ian Thorpe, Mentor</strong></td>
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<tr>
<td>Wendy Gaultney</td>
<td>Psychology</td>
<td>“Peer Interaction Frequency and Peer Network Size in Children with Food Allergy”</td>
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<tr>
<td>Nikodimos Gebreselassie</td>
<td>Chemical and Biochemical Engineering</td>
<td>“Effect of Shear Stress on the Adhesion of S. aureus to Collagen”</td>
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<td><strong>Professor Julia Ross, Mentor</strong></td>
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Jessica Hopkins  
**Biochemistry and Molecular Biology**  
“Programmed Errors in the Ribosome of *S. cerevisiae*”  
Professor Phillip Farabaugh, Mentor  

Lucas Horn  
**Biological Sciences**  
“Blood Cell Phagocytic Ability Changes with Age in Adult Drosophila”  
Professor Michelle Starz-Gaiano, Mentor  

Azra Hosic  
**Chemical and Biochemical Engineering**  
“NMR Evidence of the U5:AUG Long Range Interaction in HIV-1”  
Professor Michael Summers, Mentor  

Dalton Hughes  
**Chemical and Biochemical Engineering**  
“Signaling Response of Neuronal Cells to 3D Tissue Scaffolds”  
Professor Jennie Leach, Mentor  

Donna Huynh  
**Psychology**  
“Smoking and Perceived Health Status among Adults with Sickle Cell Disease”  
Professor Shawn Bediako, Mentor  

Isaac Jensen  
**Bioinformatics and Computational Biology**  
“Detection of Lateral Gene Transfer with Codon Usage Bias in Mutationally Biased Genomes”  
Professor Ivan Erill, Mentor  

Amar Kaneria  
**Chemistry and Biochemistry**  
“Characterization of the Monomer/Dimer Equilibrium within the 5’-Untranslated Region of HIV-1 RNA”  
Professor Michael Summers, Mentor  

Nathaniel Kim  
**Chemistry and Biochemistry**  
“Carbocyclic Nucleoside Aromatic Fleximers as Antiviral Targets for Inhibiting S-Adenosyl-L-homocysteine Hydrolase”  
Professor Katherine Seley-Radtke, Mentor  

Richard Maduka  
**Chemical and Biochemical Engineering**  
“Understanding How cdc42 Impacts Growth and Branching in the Model Fungus *Aspergillus nidulans*”  
Professor Mark Marten, Mentor
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<td>Trevor Mathias</td>
<td>“Retroviral RNA Packaging Elements Promote GAG Assembly”</td>
<td>Michael Summers</td>
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<tr>
<td>Fialelei Matthews</td>
<td>“De Novo Mapping of Regulatory Networks by Comparative Genomics”</td>
<td>Ivan Erill, Mentor</td>
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<tr>
<td>Saloni Mehta</td>
<td>“RNA in Situ Hybridization Analysis of G-Protein β and γ Subunits in the Main Olfactory Epithilium of Mice”</td>
<td>Weihong Lin, Mentor</td>
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<tr>
<td>Angela Mensah</td>
<td>“The Effects of Sexual Harrassment on Ambulatory Blood Pressure in African American and Hispanic Women”</td>
<td>Danielle Beatty, Mentor</td>
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<tr>
<td>Chatura Nagaradona</td>
<td>“Translational Misreading in rbfA Compensatory Mutants”</td>
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<tr>
<td>Chiemeka Onyima</td>
<td>“Evaluating the Mid-Atlantic Wind Energy Resource: A Multi-Platform Data Analysis Study”</td>
<td>Lynn Sparling, Mentor</td>
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<tr>
<td>Eliana NessAiver</td>
<td>“Analysis of Brca1 DNA and RNA Expression in a Transgenic Mouse Model”</td>
<td>Philip Laundette Jones, Mentor</td>
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<td>Soutry De</td>
<td>“Searching for Proteins that Recognize Signals that Determine the Sorting of Endosomal Cargo Proteins”</td>
<td>Lymane Maldonado-Baez, Mentor, Julie Donaldson, Mentor</td>
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<td>Chikezie Okoro</td>
<td>Chemistry and Biochemistry</td>
<td>“Reverse Carbocyclic Fleximers as a Means of Overcoming Drug Resistance”</td>
<td>Professor Katherine Seley-Radtke, Mentor</td>
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<tr>
<td>Olumide Omobo</td>
<td>Bioinformatics and Computational Biology</td>
<td>“Toward an Automatic Method for Drug-Related Mutational Extraction from Text”</td>
<td>Professor Maricel Kann, Mentor</td>
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<td>Hanna Fenta</td>
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<td>Mindy Or</td>
<td>Bioinformatics and Computational Biology</td>
<td>“Automatic Detection of the Major Codon Bias in Mutationally Biased Genomes”</td>
<td>Professor Ivan Erill, Mentor</td>
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<tr>
<td>Stephanie Owusu</td>
<td>Biological Sciences</td>
<td>“Utilizing Artificial MicroRNAs to Analyze Gene Function in the Green Alga <em>Volvox carteri</em>”</td>
<td>Professor Stephen Miller, Mentor</td>
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<tr>
<td>Nana Owusu-Boaitey</td>
<td>Biological Sciences</td>
<td>“Immune Tolerance and CD20-Specific Lentiviruses”</td>
<td>Professor David Scott, Mentor</td>
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<tr>
<td>Nicole Parker</td>
<td>Biochemistry and Molecular Biology</td>
<td>“Study of Morphine Tolerance and Dependence”</td>
<td>Professor Jia Bei Wang, Mentor</td>
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<tr>
<td>Divya Patel</td>
<td>Biochemistry and Molecular Biology</td>
<td>“Investigation of the Binding Affinity of GP32, an SSB Protein, for dsDNA”</td>
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<tr>
<td>Janell Payano Sosa</td>
<td>Biological Sciences</td>
<td>“A Plausible Mechanism for Vomeronasal Organ Protection”</td>
<td>Professor Tatsuya Ogura, Mentor</td>
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<tr>
<td>Thomas Peterson</td>
<td>Bioinformatics and Computational Biology</td>
<td>“DMDM: Domain Mapping of Disease Mutations”</td>
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Computer Science and Electrical Engineering  
“TweetCollector: A Framework for Retrieving, Processing, and Storing Live Data from Twitter”  
Professor Timothy Finin, Mentor  
Professor Anupam Joshi, Mentor  

Evan Raines  
Psychology  
“Gender Differences in Coping and Self-Esteem among Adults with Sickle Cell Disease”  
Professor Shawn Bediako, Mentor  

Mahnoor Siddiqui  
Psychology  
“Gender Differences in Coping and Self-Esteem among Adults with Sickle Cell Disease”  
Professor Shawn Bediako, Mentor  

Kaitlyn Sadtler  
Biological Sciences  
“In-Situ Bioremediation of Explosive Residue for Reduction of Trace Signatures”  
Professor Charles Young, Mentor  

Christelle Samen  
Biochemistry and Molecular Biology  
“Annotation of Highly Up-/Down-regulated Aedes aegypti Genes and Investigation of their Anti-Dengue Activity”  
Professor George Dimopoulos, Mentor  

Sadella Santos  
Chemical and Biochemical Engineering  
“Intuitive Fluorescent Biosensor for Millimolar Glucose”  
Professor Leah Tolosa, Mentor  

Sarah Sexton  
History  
“Plantation Management in Post-Reconstruction South Carolina: White House Plantation and the Aimars”  
Professor Anne Rubin, Mentor  

Igor Shusterman  
Biochemistry and Molecular Biology  
“Hippocampal Activity in the Neonatal Ventral Hippocampal Lesion Model of Schizophrenia”  
Professor Patricio O’Donnell, Mentor  

David Shyu  
Computer Science and Electrical Engineering  
“Patient Identification and Diagnosis Using Fourier Analysis and Beam Forming of Multi-electrode Brain Wave Signals”  
Professor Fow-Sen Choa, Mentor
Poster Presentations

Skylar Spangler  Psychology  Poster # 101
“Hiccupping: Who Does it and When?”
Professor Robert Provine, Mentor

Patrice Starck  Biochemistry and Molecular Biology  Poster # 68
“NMR Analysis of the Conserved Bulge in the Core Encapsidation Signal of Type-C Gammaretroviruses”
Professor Michael Summers, Mentor

David Sweigart  Physics  Poster # 5
“Effectiveness of Spin-on-Glass Films on Reducing Dielectric Breakdown in Poled Polymer Devices”
Professor L. Michael Hayden, Mentor

Robby Tietz  Chemical and Biochemical Engineering  Poster # 7
“Investigation of Poly(N-Isopropylmethacrylamide) Hydrogels”
Professor Lisa Kelly, Mentor

UMBC Game Developers Club  Computer Science and Electrical Engineering  Poster # 1
“Innovations in Computer Game Development”
Professor Neal McDonald, Mentor

Amond Uwadineke  Political Science  Poster # 24
“Nigeria’s Resource Curse: Conflict in the Niger Delta”
Professor Carolyn Forestiere, Mentor

Shelby Vargo  Chemical and Biochemical Engineering  Poster # 49
“Effects of Environment Dimensionality on Sensory Neurons Process Outgrowth and $\beta_1$-Integrin Cytoskeleton Signaling”
Professor Jennie Leach, Mentor

Donna Viola  Interdisciplinary Studies  Poster # 103
“Life on ‘Mars’: Diversity of Endolithic Microorganisms in a Terrestrial Martian Analog”
Professor Ian George, Mentor
Professor Stephen Freeland, Mentor

Rebecca Walter  Biological Sciences  Poster # 63
“A Mouse Model for Inducible Inflammation in the Prostate”
Professor Charles Bieberich, Mentor
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<td>Joseph Wesolowski</td>
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<tr>
<td>Melanie Wiley</td>
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<td>Julia Wittkamper</td>
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<td>Kojo Yeboa</td>
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<td>“Cross-Talk Detection in Surface-Enhanced Raman Scattering Nano-imaging probes”</td>
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<td>Lucia Zegarra</td>
<td>Biological Sciences</td>
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Wednesday, April 27, 2011

Poster Presentations

University Center Ballroom Lounge
4:30 p.m. – 5:30 p.m.

Education/Secondary Teacher Certification Students Presenting Action Research
Moderator and Mentor: Linda Oliva, Education

William Archer  “Encouraging Increased Attendance among Inner City High School Students”
Michelle Birky  “Using Feedback to Increase Student Motivation, Effort, and Success”
Casey Dahle  “Forms of Positive Reinforcement in a Seventh-Grade Classroom”
Lian French  “Fostering Social and Emotional Intelligence in the Classroom”
Susan Hade  “The Effects of the Focused Question Card Strategy on Student Writing”
Maureen Harvie  “Prewriting Strategies: Tools for Success”
Jessica Henn  “Primary Sources and their Effect on Learning in the Seventh Grade Social Studies Classroom”
Rebecca Horowitz  “Heterogeneous Versus Homogenous Gender Groupings of High School Students”
Victoria Kohl  “The Effects of Extrinsic Rewards for Secondary Students in a Mathematics Classroom”
Leanne Lenhart  “Facebook as a Tool for Communicating Homework”
Catherine Perry  “The Effects of Students’ Surnames on their Academic Success”
Yira Rawlins-Prins  “Do Students Achieve the Mastering of a Foreign Language at a Faster Rate in a Same Sex Class?”
Joey Schenning  “Is America Really Singing? A Review of (Supposedly) Common Song Repertoire”
Alexander Scott  “Using Musical Instruments to Support Student Learning”
Jonathan Shumway  “Increasing Depth of Homework Assignments: Integration of Writing in Chemistry”
Christian Solliday  “Limiting the Distractions of Cell Phone Use in the Classroom”
Hope Stone  “The Cool Kids Call Them C-Notes: The Effectiveness of Cornell Notes in a Social Studies Class”
Ashish Vadalia  “Determining Student Engagement Through Various Warm-Up Activities”