



**APRIL 22, 2015**

<b>9:30 - 10 a.m.</b>
<b>OPENING REMARKS UC 312</b>
<b>10 a.m.</b>
<p><b>Matthew Myslinski</b> "Samhain and Disenchanted" <b>Cathy Cook, Mentor</b> Moderator: Cathy Cook, Visual Arts</p> <p><b>Stephanie Castner</b> "Touched" <b>Doug Hamby, Mentor</b> Moderator: Doug Hamby, Dance</p> <p><b>Saiah Yates</b> "The Great Escape: The Effects of Blood Pressure Medication and Age on Drosophila Strength" <b>Jeff Leips, Mentor</b> Moderator: Kevin Omland, Biological Sciences</p> <p>Poster Session I 10 a.m. - 12 p.m.</p> <p><b>Daniela Mujica-Martorell, Stephen Kelley</b> "Bartleby 2015: A Collaborative Creation" <b>Ms. Sally Shivnan, Ms. Guenet Abraham, Mentors</b> Artistic Exhibit Lobby, 10 a.m. - 4 p.m.</p> <p><b>Kraken Kinetic Sculpture Team</b> "Kinetic Sculpture Race" <b>Mr. Steven McAlpine, Mentor</b> Artistic Exhibit Outside UC, 10 a.m. - 4 p.m.</p>

<b>10:15 a.m.</b>
<p><b>Matthew Myslinski</b> "All's Fair: A Campus MovieFest Experience" <b>Vin Grabill, Mentor</b> Moderator: Cathy Cook, Visual Arts</p> <p><b>Rebecca Behnke</b> "Dance and Movement Therapy Techniques as a Mode of Choreographic Exploration" <b>Doug Hamby, Mentor</b> Moderator: Doug Hamby, Dance</p> <p><b>Akua Nimarko</b> "Expression Profile of Putative Receptors Involved in Xenobiotic Detection in Mouse Olfactory Epithelium" <b>Weihong Lin, Mentor</b> Moderator: Kevin Omland, Biological Sciences</p> <p><b>Jennifer Wachtel</b> "An Unlikely Refuge: The Shanghai Jewish Ghetto during the Rise of Nazism" <b>Meredith Oyen, Mentor</b> Moderator: Katherine Seley-Radtke, Chemistry and Biochemistry</p>
<b>10:30 a.m.</b>
<p><b>Erin Patterson</b> "Five Weeks, Ten Minutes, a Study in Physical Theater" <b>Eve Muson, Mentor</b> Moderator: Cathy Cook, Visual Arts</p> <p><b>Ryan Bailey</b> "Four Blue Skies" <b>Doug Hamby, Mentor</b> Moderator: Doug Hamby, Dance</p> <p><b>Jin Kim</b> "Speciation Reversal: The Case of the Common Raven" <b>Kevin Omland, Mentor</b> Moderator: Kevin Omland, Biological Sciences</p>

<p><b>Hannah Jones</b> "Philanthropy and Reputation in the Lives of Joseph Townsend and Baltimore's 'public-spirited citizens'" <b>Marjoleine Kars, Mentor</b> Moderator: Katherine Seley-Radtke, Chemistry and Biochemistry</p>
<b>10:45 a.m.</b>
<p><b>Jazmin Smith</b> "Afrofuturism in Visual Art" <b>Preminda Jacob, Mentor</b> Moderator: Jessica Pfeifer, Philosophy</p> <p><b>Paul Tschirgi, Courtney Tyler</b> "Interactive Performance Mapping" <b>Doug Hamby, Mentor</b> Moderator: Doug Hamby, Dance</p> <p><b>Susanna Campbell</b> "Documentation of Female Song in a Newly Recognized Species, the Puerto Rican Oriole (<i>Icterus portoricensis</i>)" <b>Kevin Omland, Mentor</b> Moderator: Kevin Omland, Biological Sciences</p> <p><b>Shannon Mitchell</b> "Geographically Skewed News: A Trayvon Martin Case Study" <b>Kathy Bryan, Mentor</b> Moderator: Katherine Seley-Radtke, Chemistry and Biochemistry</p>
<b>11 a.m.</b>
<p><b>Hannah Korangkool</b> "Arroy: The Thai Food Cart" <b>Stephen Bradley, Mentor</b> Moderator: Jessica Pfeifer, Philosophy</p> <p><b>Rachel Lum</b> "Articulating Space" <b>Doug Hamby, Mentor</b> Moderator: Doug Hamby, Dance</p>

<p><b>John Malloy</b> "Is the Endangered Norfolk Island Robin a Distinct Species?" <b>Kevin Omland, Mentor</b> Moderator: Kevin Omland, Biological Sciences</p> <p><b>Marie Espiritu</b> "Understanding Allosteric Inhibition of the Hepatitis C Virus Polymerase Using Non-Nucleoside Inhibitors" <b>Ian Thorpe, Mentor</b> Moderator: Katherine Seley-Radtke, Chemistry and Biochemistry</p>
<b>11:15 a.m.</b>
<p><b>Mercedes Morina</b> "How Does a Religious Upbringing Limit, Prevent, and/or Influence the Manifestation of Celebrity and Pop Cultural Fandom?" <b>Donald Snyder, Mentor</b> Moderator: Jessica Pfeifer, Philosophy</p> <p><b>Molissa Udevitz</b> "Ebb &amp; Flow" <b>Doug Hamby, Mentor</b> Moderator: Doug Hamby, Dance</p> <p><b>Ankur Vaidya</b> "Is Breast Center Risk Assessment Clinic Attendance Improved with a High Risk Recommendation in the Mammography Report?" <b>Alison Chetlen, Mentor</b> Moderator: Kevin Omland, Biological Sciences</p> <p><b>Matthew Shin</b> "Synthesis of Halogenated thieno[3,2-d] pyrimidines as Anticancer Agents" <b>Katherine Seley-Radtke, Mentor</b> Moderator: Katherine Seley-Radtke, Chemistry and Biochemistry</p>

<b>11:30 a.m.</b>
<p><b>Greg Strack</b> "A Many-Valued Interpretation of Modal Logic and Applications for Actualists" <b>Jessica Pfeifer, Mentor</b> Moderator: Jessica Pfeifer, Philosophy</p> <p><b>Courtney Tyler</b> "Swans in an Ugly Duckling World" <b>Sandra Lacy, Mentor</b> Moderator: Doug Hamby, Dance</p> <p><b>Nina Burgess</b> "Acknowledgement as a Literary Trope in the African American Literary Canon" <b>Lindsay DiCuirci</b> Moderator: Kevin Omland, Biological Sciences</p> <p><b>Pranjal Singh</b> "An Analytically Reduced Mathematical Model of the Effects of RNA Interference in the JAK/STAT Signaling Pathway" <b>Bradford Peery, Mentor</b> Moderator: Katherine Seley-Radtke, Chemistry and Biochemistry</p>
<b>11:45 a.m.</b>
<p><b>Heinz Adjakwah</b> "Tarantism" <b>Doug Hamby, Mentor</b> Moderator: Doug Hamby, Dance</p> <p><b>Tolu Omokehinde</b> "The Application of CRISPR Genome Engineering to the Study of Host Antiviral Factors" <b>Paul Bieniasz, Mentor</b> Moderator: Kevin Omland, Biological Sciences</p>

<b>12 p.m.</b>
<b>GENERAL SESSION UC 312</b>
<p>Poster Session II 12 - 2 p.m.</p> <p><b>Daniela Mujica-Martorell, Stephen Kelley</b> "Bartleby 2015: A Collaborative Creation" <b>Ms. Sally Shivnan, Ms. Guenet Abraham, Mentors</b> Artistic Exhibit Lobby, 10 a.m. - 4 p.m.</p> <p><b>Kraken Kinetic Sculpture Team</b> "Kinetic Sculpture Race" <b>Mr. Steven McAlpine, Mentor</b> Artistic Exhibit Outside UC, 10 a.m. - 4 p.m. Demonstration, Outside UC, 12 p.m. - 1 p.m. Workshops, Fine Arts 004, 1 p.m. and 2:30 p.m.</p> <p><b>Mark White</b> "Infrascapes: A Study of the Invisible" <b>Calla Thompson, Mentor</b> Artistic Exhibit University Center Lobby, 12 - 2 p.m.</p>
<b>1 p.m.</b>
<p><b>Hollie Adejumo</b> "Occurrence and Distribution of Quinolone Resistance Genes in Baltimore Wastewater" <b>Lee Blaney, Mentor</b> Moderator: Lee Blaney, Chemical, Biochemical, and Environmental Engineering</p>
<b>1:15 p.m.</b>
<p><b>Yoo-Jin Kang</b> "East-Asian-American Student Perspectives on Romantic Relationships and Violence" <b>Bambi Chapin, Mentor</b> Moderator: John Sturgeon, Visual Arts</p> <p><b>Jessica Lee</b> "Absorbance of Pharmaceuticals Exposed to Ultraviolet (UV) Light as a Function of pH, Treatment Level, and Wavelength" <b>Lee Blaney, Mentor</b> Moderator: Kevin Omland, Biological Sciences</p>

<b>9:30 a.m.</b>
<b>OPENING REMARKS, UC 312</b>
<p>Dr. Philip Rous, Provost Dr. Lasse Lindahl, Program Director, MARC U* STAR and Professor, Biological Sciences</p>
<b>12 p.m.</b>
<b>GENERAL SESSION, UC 312</b>
<p><b>Guest Speaker:</b> Dr. Trevor J. Blank '05 American Studies Assistant Professor of Communication, State University of New York at Potsdam</p> <p>Dr. Blank came to UMBC in fall 2003 as a transfer student from Montgomery College. Before graduating in spring 2005, he conducted extensive undergraduate research on the folklore, history, and architecture of the Hillcrest Building, an original UMBC building torn down in 2007. The building—the first of its kind—had served as Spring Grove Hospital Center's facility for the containment and rehabilitation of criminally insane patients from 1922-1965. This research on the Hillcrest Building and Spring Grove formed the foundation of Dr. Blank's Master's project and portions of the co-authored publication <i>Spring Grove State Hospital</i> (Arcadia, 2008).</p> <p>Dr. Blank currently teaches courses in folklore, mass media, and digital culture and researches subversive humor in the vernacular response to traumatic and shocking news events.</p>
<b>Introduction of the 2015-2016 Undergraduate Research Award Scholars</b>
<p>Meet 63 undergraduates funded by UMBC to carry out research, scholarship, or creative work during the upcoming academic year. Look for these students to present their results at URCAD 2016.</p>
<b>Remarks by:</b>
<p>Dr. Philip Rous, Provost</p>



**APRIL 22, 2015**

**Benjamin Woodworth**  
 "Media Discourse Surrounding MH17 in the Russian-Ukrainian Conflict of 2013-14"  
**Elaine Rusinko, Mentor**  
 Moderator: Anna Shields, Modern Languages, Linguistics, and Intercultural Communication

**1:30 p.m.**

**Hunter Shippey**  
 "Model in Session"  
**John Sturgeon, Mentor**  
 Moderator: John Sturgeon, Visual Arts

**Nicholas Rogers**  
 "Using Excitation-Emission Matrix Analysis to Characterize the Impact of Leaking Wastewater on Urban Water Resources"  
**Lee Blaney, Mentor**  
 Moderator: Lee Blaney, Chemical, Biochemical, and Environmental Engineering

**Sierra Francis**  
 "Mohawk and Cherokee Language Revitalization: Overview, Assessment, and Challenges"  
**Omar Ka, Mentor**  
 Moderator: Anna Shields, Modern Languages, Linguistics, and Intercultural Communication

**1:45 p.m.**

**Angelo Skarlatos**  
 "Nerds Rule, Jocks Drool"  
**Cathy Cook, Mentor**  
 Moderator: John Sturgeon, Visual Arts

**Victoria Taylor, John Ruth**  
 "Characterization of High-Secretion A. nidulans Mutants through Chemical Phenotypic Profiling"  
**Mark Marten, Mentor**  
 Moderator: Lee Blaney, Chemical, Biochemical, and Environmental Engineering

**Kelilah Armstrong**  
 "Dialect Attitudes and Prestige Values among Korean Dialects"  
**Kyung-eun Yoon, Mentor**  
 Moderator: Anna Shields, Modern Languages, Linguistics, and Intercultural Communication

**2 p.m.**

**Ganna Vikhlyayeva**  
 "Close to the Sun"  
**Cathy Cook, Mentor**  
 Moderator: John Sturgeon, Visual Arts

**Omar Khalid**  
 "Inhibition of AQP4 Causing Renal Failure Mediated Through Endoplasmic Reticulum Stress in HIV Transgenic Mice"  
**Tapas Makar, Mentor**  
 Moderator: Jeffrey Gardner, Biological Sciences

**Aureanna Hakenson**  
 "Student Attitudes Toward English Language Variation in Education"  
**Thomas Field, Mentor**  
 Moderator: Anna Shields, Modern Languages, Linguistics, and Intercultural Communication

**Poster Session III**  
 2 - 4 p.m.  
 "Bartleby 2015: A Collaborative Creation"  
**Daniela Mujica-Martorell, Stephen Kelley, Ms. Sally Shivnan, Mentor**  
**Ms. Guenet Abraham, Mentor**  
 Artistic Exhibit  
 Lobby, 10:00 AM - 4:00 PM

**Kraken Kinetic Sculpture Team**  
 "Kinetic Sculpture Race"  
**Mr. Steven McAlpine, Mentor**  
 Artistic Exhibit, Outside UC, 10 a.m. - 4 p.m.  
 Workshops, Fine Arts 004, 1 p.m. and 2:30 p.m.

**2:15 p.m.**

**Christopher Hogue**  
 "Sicario"  
**Cathy Cook, Mentor**  
 Moderator: John Sturgeon, Visual Arts

**Dominick DiMercurio**  
 "Simulated and Experimental Effects of RNA Interference on Cell Motility"  
**Michelle Starz-Gaiano, Mentor**  
 Moderator: Jeffrey Gardner, Biological Sciences

**Amelia Meman**  
 "Toward a Transformative Epistemology: Personal Experience as Public Knowledge"  
**Megan Tagle Adams, Mentor**  
 Moderator: Ted Foster, College of Engineering and Information Technology

**2:30 p.m.**

**Emily Eaglin**  
 "Future Children"  
**Vin Grabill, Mentor**  
 Moderator: John Sturgeon, Visual Arts

**Nina Beri**  
 "Determination of Essential Xylanases in Cellvibrio japonicus"  
**Jeffrey Gardner, Mentor**  
 Moderator: Jeffrey Gardner, Biological Sciences

**Matthew Poissant**  
 "Deceptive Innovation"  
**Kathy Bryan, Mentor**  
 Moderator: Ted Foster, College of Engineering and Information Technology

**2:45 p.m.**

**Lucas Link**  
 "Comparative Composing: a String Trio and a cappella Choral Music"  
**Linda Dusman, Mentor**  
 Moderator: David Rosenbloom, Ancient Studies

**Brandon Alexander**  
 "Optimization of Finite-Bandwidth Pulse Sequences for Spin Qubits"  
**Jason Kestner, Mentor**  
 Moderator: Jeffrey Gardner, Biological Sciences

**Arielle Erenrich**  
 "Examining the Intersections of Bildungsroman and Immigration Narratives in Contemporary United States Fiction"  
**Jessica Berman, Mentor**  
 Moderator: Ted Foster, College of Engineering and Information Technology

**3 p.m.**

**Daniel Mackey**  
 "Reconstructing Music for the Ancient Greek Lyre"  
**David Rosenbloom, Mentor**  
 Moderator: David Rosenbloom, Ancient Studies

**Atizaz Hussain**  
 "Mitochondrial Biogenesis and Function are Decreased with HIV-1-Associated Kidney Damage"  
**Tapas Makar, Mentor**  
 Moderator: Jeffrey Gardner, Biological Sciences

**Juliana Venegas**  
 "Nontraditional Students in the Writing Center"  
**Anissa Sorokin, Mentor**  
 Moderator: Ted Foster, College of Engineering and Information Technology

**3:15 p.m.**

**Erin Edwards**  
 "Dental Health of the Delmarva Adena-Hopewell Native Americans"  
**Michael Lane, Esther Doyle Reed, Mentors**  
 Moderator: David Rosenbloom, Ancient Studies

**Vivek Shukla**  
 "Renal Function and Apoptotic Cell Death is Interrelated in HIV-Associated Nephropathy"  
**Tapas Makar, Mentor**  
 Moderator: Jeffrey Gardner, Biological Sciences

**Rahel Worku**  
 "The Alien, Alien: Depictions of Race in Star Trek's Final Frontier"  
**Jessica Berman, Mentor**  
 Moderator: Ted Foster, College of Engineering and Information Technology

**3:30 p.m.**

**Amber Barnett**  
 "The Representation of Clytemnestra and Hecuba in Fifth-Century Ancient Athenian Tragedy and Pottery"  
**David Rosenbloom, Mentor**  
 Moderator: David Rosenbloom, Ancient Studies

**Nishay Raja**  
 "Improving Spatial Visualization Skills of Engineering Majors at UMBC"  
**Anne Spence, Jamie Gurganus Mentors**  
 Moderator: Jeffrey Gardner, Biological Sciences

**Zane Gray, Jaskeerat Singh**  
 "On the Precipice of Life: A Contractarian Analysis of Suspended Animation with Biomedical and Engineering Implications"  
**Richard Wilson, Mentor**  
 Moderator: Ted Foster, College of Engineering and Information Technology

**3:45 p.m.**  
**Olufunmilayo Makinde**  
 "Exploring Poorly Understood Psychosocial Factors for HIV Prevention and Treatment Among Urban African American Women"  
**Andrea Kalfoglou, Mentor**  
 Moderator: David Rosenbloom, Ancient Studies

**Larry Morton**  
 "High Density Neural Probe Design for Chemical Sensing"  
**Gymama Slaughter, Mentor**  
 Moderator: Jeffrey Gardner, Biological Sciences

**Tyler Sousa**  
 "An Ethical Analysis of the Mars One Project: the Concept of Planetary Colonization"  
**Richard Wilson, Mentor**  
 Moderator: Ted Foster, College of Engineering and Information Technology

**4 p.m.**

**Claire Hempel**  
 "Social-Emotional Skills of Young Latino English Learners: The Influence of the Classroom Context"  
**Claudia Galindo, Mentor**  
 Moderator: David Rosenbloom, Ancient Studies

**Michael Wolfe**  
 "Entanglement Dynamics of Singlet-Triplet Qubits in the Presence of Inductive Coupling"  
**Jason Kestner, Mentor**  
 Moderator: Jeffrey Gardner, Biological Sciences

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