

# Oral Presentations

## UNDERGRADUATE Research & Creative Achievement Day



### Room 310

#### Session I

Faculty Moderator: Warren Belasco, American Studies

9:15 - 9:30 a.m.

**Charlene Kuo**

*American Studies*

“Dare for More: Analysis of Pepsi’s Global Television Marketing Campaign”

**Professor Warren Belasco, Mentor**

9:30 - 9:45 a.m.

**Christina Stanley**

*Political Science*

“Perceptions (or Misperceptions) and the Troubled State of US-Iranian Relations”

**Professor Cynthia Hody, Mentor**

9:45 - 10:00 a.m.

**John Weller**

*Philosophy*

“Stages of Ethical Thought”

**Professor Susan Dwyer, Mentor**

10:00 - 10:15 a.m.

**DeLeon Gray**

*Interdisciplinary Studies*

“Enhancing the Educational Outlooks of Adolescent Mothers through Social Relationships”

**Professor Charissa Cheah, Mentor**

#### Session II

Faculty Moderator: Ilse Lottes, Sociology and Anthropology

10:30 - 10:45 a.m.

**Kyle Clelan**

*Financial Economics*

“Are Super Bowl Betting Markets Informationally Efficient? The Time-Series Evidence”

**Professor Douglas Lamdin, Mentor**

10:45 - 11:00 a.m.

**Eric Grollman**

*Sociology and Anthropology*

“Traditional and Modern Homophobia at UMBC”

**Professor Ilsa Lottes, Mentor**

11:00 - 11:15 a.m.

**Maddy Fickes**

*American Studies*

“How Momma Raised Me: Understanding the Upbringing of Rural and Urban Students and its Relation to College Attendance”

**Professor Kathy Bryan, Mentor**

11:15 - 11:30 a.m.

**Meghan DeVore**

*American Studies*

“Fan Tourism: Exploring the Creation of Religious Experience and the Deprivation of Culture”

**Professor Nicole King, Mentor**

11:30 - 11:45 a.m.

**Truc Nguyen**

*Interdisciplinary Studies*

“Call Me Brother: A Collection of American Immigration Stories”

**Professor Christopher Peregoy, Mentor**

Session III

Faculty Moderator: Todd Pittman, Physics

1:30 - 1:45 p.m.

**Brandon Johnson**

*Mechanical Engineering*

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

**Professor Tim Topoleski, Mentor**

1:45 - 2:00 p.m.

**Shayla Shorter**

*Biological Sciences*

“Role of TRAIL in Induced and Spontaneous Murine Lupus Models”

**Professor Violeta Rus, Mentor**

2:00 - 2:15 p.m.

**Aaron Stoler**

*Environmental Science*

“Microbial Respiration on Mixed Leaf Substrates Mediated by Insect Feeding”

**Professor Christopher Swan, Mentor**

2:15 - 2:30 p.m.

**Lidiya Mishchenko**

*Physics*

“Production of Tapered Optical Fibers”

**Professor Todd Pittman, Mentor**

2:30 - 2:45 p.m.

**Louis Leibowitz**

*Interdisciplinary Studies*

“Evaluating the Fiscal Effects of Same-Sex Marriage in Maryland”

**Professor Ilsa Lottes, Mentor**

2:45 - 3:00 p.m.

**Whitney Fields**

*Biological Sciences*

“Isolation of Mutations in L4 and L22 That Confer Resistance to the Antibiotic Tylosin”

**Professor Janice Zengal, Mentor**

**University Center, Room 312**

Session I

Faculty Moderator:

9:30 - 9:45 a.m.

**Stephanie Núñez**

*Biochemistry and Molecular*

*Biology*

“Interaction of PYK2 and PTP-PEST with Leupaxin in Prostate Cancer Cells”

**Professor Anandarup Gupta, Mentor**

9:45 - 10:00 a.m.

**Uzoma Iheagwara**

*Biological Sciences*

“Uveal Melanoma Vaccines express Major Histocompatibility Class II Molecules in the Absence of Invariant Chain”

**Professor Suzanne Ostrand-Rosenberg, Mentor**

10:00 - 10:15 a.m.

**Philip Graff**

*Physics*

“A State-of-the-Art Numerical Code for Probing the Workings of Quasar Jets”

**Professor Markos Georganopoulos, Mentor**

10:15 - 10:30 a.m.

**Matthew Loftus**

*Chemistry*

“Laser-Stimulated Raman Spectroscopy as a Method for Remote Atmospheric Sensing Technology”

**Professor Lisa Kelly, Mentor**

10:30 - 10:45 a.m.

**Nerg AchiriMofor**

*Biochemistry and Molecular*

*Biology*

“Studying the Protein-Protein Interactions Involved in HIV-1 Assembly”

**Professor Michael Summers, Mentor**

Session II

Faculty Moderator: Marijose Castellanos, Chemical Engineering

10:45 - 11:00 a.m.

**Elisa Frantz**

*English*

“Richard Bentley's Edition of *Paradise Lost*”

**Professor Orianne Smith, Mentor**

11:00 - 11:15 a.m.

**Rachele Sills, violin; Anna An, violin;**

*Music*

**Michael Herder, violin; Megumi Mizumoto, violin;**

**Talya Schenk, viola; Matthew Poloncha, viola;**

**Dami Soh, cello; Joe Martone, double bass;**

**Grace Kim, piano**

“Baroque String Ensemble”

**Professor Airi Yoshioka, Mentor**

11:15 - 11:30 a.m.

**Christie Finn**

*Music*

“Movement and the Singer”

**Professor David Smith, Mentor**

11:30 - 11:45 a.m.

**Amber Gaither**

*Biological Sciences*

“Nested PCR to Amplify the *Plasmodium falciparum* Chloroquine Resistance  
Transporter (PfCRT) in Samples from Clinical Trials in Malawi”

**Professor Christopher Plowe, Mentor**

Session III

Faculty Moderator: Laura Ting, Social Work

1:30 - 1:45 p.m.

**Jenny Parish**

*History*

“Outcomes of Female Patriotism: The Women of the WAVES during and after World  
War II”

**Professor Amy Froide, Mentor**

1:45 - 2:00 p.m.

**Dorothy Kenny**

*History*

“Seeing Through Smoke: The Role of Science in Public Health Policy Following the  
1952 London ‘Killer Fog’”

**Professor Daniel Ritschel, Mentor**

2:00 - 2:15 p.m.

**Anna Kuklova**

*Psychology*

“Parental Autonomy Development in Immigrants from the Former Soviet Union”

**Professor Charissa Cheah, Mentor**

2:15 - 2:30 p.m.

**Megan Anders**

*Psychology*

“Survivors of Domestic Violence: Violence Acceptance, Cultural Factors, and Self Esteem”

**Professor Laura Ting, Mentor**

2:30 - 2:45 p.m.

**Durell Callier**

*Social Work*

“Analyzing Predictors of Academic Success among African American Adolescents within an Urban Charter School”

**Professor Laura Ting, Mentor**

2:45 - 3:00 p.m.

**Askia Hill**

*Computer Engineering*

“Autonomous Flying Control Systems for Mini-flying Robots”

**Professor Fow-Sen Choa, Mentor**