Seventeenth Annual UNDERGRADUATE Research & Creative Achievement Day

April 24, 2013

9:30-10:00 a.m.

OPENING REMARKS (UC312)

10:00 a.m.

Abigail Bratcher

"Where Do I Fit In?: Affixing a Scholar in Soviet Historiography in the West"

Professor Kate Brown, Mentor

Moderator:

Margaret Holland, Geography and Environmental Systems

Chinwendu Amazu

"Defining the Origin of an Abnormal Brown Adipose Phenotype in the Mammary Gland of Brca1 Mutant Mice"

Professor Laundette Jones, Mentor

Moderator:

Hua Lu, Biological Sciences

10:00-3:00 p.m.

Marissa Regelin, Laura Lefavor "Bartleby 2013: Behind the Scenes"

Professor Sally Shivnan, Mentor Professor Guenet Abraham,

10:00-3:00 p.m.

Maxx Gaigler

"A Photographic Study of Motion" **Professor Steven Silberg, Mentor**

For complete list of poster presenters in the 10 a.m. to 12:30 p.m. period, go to the printed program page 11.

10:15 a.m.

William Rice

"The Humble Beginning of Public Education"

Professor David Mitch, Mentor

Moderator:

Margaret Holland, Geography and Environmental Systems

Pallavi Bhargava

"Inhibiting Matrix Targeting of the Gag Polyprotein towards the Plasma Membrane in HIV-1 Retrovirus Replication"

Professor Michael Summers, Mentor

Moderator:

Hua Lu, Biological Sciences

Alexis DeVance

"Ceremony of Memory"

Professor Doug Hamby, Mentor

Moderator:

Doug Hamby, Dance

10:30 a.m.

Lauren Bucca

"St. Cuthbert and Pilgrimage 664-2012 AD: The Heritage of the Patron Saint of Northumbria"

Professor Gail Orgelfinger, Mentor

Moderator:

Margaret Holland, Geography and Environmental Systems

Teklu Dawit

"Genetic Analysis of the Role of PHT4;6 in Regulating Innate Immunity of Arabidopsis"

Professor Hua Lu. Mentor

Moderator:

Hua Lu, Biological Sciences

10:35 a.m.

Christopher Dews, Samrawit Belai

"The Irene Ryan Acting Competition: Practical Process for Performance"

Professor Eve Muson, Mentor

Moderator:

Doug Hamby, Dance

10:45 a.m.

UC 312:

ORAL PRESENTATIONS

Kelley Mason

"Assessing the Impacts of Corridor Conservation on Local Communities in Costa Rica"

Professor Margaret Holland, Mentor

Moderator:

Margaret Holland, Geography and Environmental Systems

Brandon Young

"Functional Analysis of a Mutated Tentacle within the L4 Ribosomal Protein"

Professor Lasse Lindahl, Mentor

Moderator:

Hua Lu, Biological Sciences

10:55 a.m.

Daniel Roeder

"Terms of Art: Interpreting Mamet's Oleanna for the Stage"

Professor Susan McCully, Mentor

Moderator:

Doug Hamby, Dance

11:00 a.m.

Luis Queral, Pedrum Golriz

"SHOWHAUS: An Open-Source Directory for Underground, Fringe Music and Art Communities"

Professor Greg Metcalf, Mentor

Moderator:

Esther Read, Ancient Studies

David Eisen

UC 310:

ORAL PRESENTATIONS

"Mid-Infrared Optical Stimulations for Non-Contact Neural Excitation"

FA 317:

DANCE/

THEATRE

Professor Fow-Sen Choa, Mentor

Moderator:

Zoe Warwick, Psychology

11:15 a.m.

Molly Greenhouse

"Demystifying the 'Sea Peoples': Nomadic Tribes and Causes of Migration from Anatolia in the Late Bronze Age"

Professor Carolyn Koehler, Mentor

Professor Esther Read, Mentor

Moderator:

Esther Read, Ancient Studies

Adam Gerber

"The Integration of the Biological and Psychological Manifestations of Traumatic Brain Injury (TBI)"

Professor Rachel Brewster,
Mentor

Professor Zoe Warwick, Mentor

Moderator:

Zoe Warwick, Psychology

Thomas Hervey, Aneep Bindra, Zachary Hullihen

"Lights, Camera, Motion, Action: The Dance Application of Microsoft's Kinect and Intelligent Stage Lighting"

Professor Marc Olano, Mentor Professor Carol Hess, Mentor

Moderator:

Doug Hamby, Dance

11:30 a.m.

BALLROOM

POSTERS

Caitlin Smith

LOBBY

"Interpretation in the Museum: An Ancient Gem in a Modern Context" **Professor Timothy Phin, Mentor**

Moderator

Esther Read, Ancient Studies

Asif Majid

"This Moroccan Life"

Professor Steven McAlpine, Mentor

Moderator:

Zoe Warwick, Psychology

Mabelle Fomundam

"Storytelling

Professor Alan Kreizenbeck, Mentor

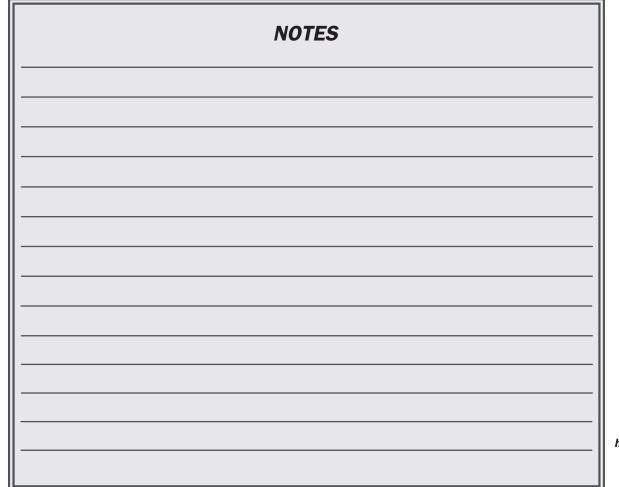
Moderator:

Doug Hamby, Dance

For complete list of poster presenters in the 10 a.m. to 12:30 p.m. period, go to the printed program page 11.

12:00-1:00 p.m.

GENERAL SESSION (UC312)





View Full URCAD Schedule umbc.edu/oue/html5



Attendees, Send Your Feedback:

Please tell us about your experience

https://www.surveymonkey.com/s/ Attendees2013URCAD UC 312:
ORAL
PRESENTATIONS

UC 310:
VIDEO
SCREENING

POSTERS

BALLROOM
POSTERS

12:00-1:00 p.m.

GENERAL SESSION (UC312)

1:00 p.m.

Elizabeth Milligan

"The Changing Standards of Flute Performance in the Nineteenth and Twentieth Centuries"

Professor Lisa Cella, Mentor

Moderator:

Scenes'

Lisa Cella, Visual Arts

10:00-3:00 p.m.

Marissa Regelin, Laura Lefavor "Bartleby 2013: Behind the

Professor Sally Shivnan, Mentor Professor Guenet Abraham, Mentor

10:00-3:00 p.m. Maxx Gaigler

"A Photographic Study of Motion" **Professor Steven Silberg, Mentor**

For complete list of poster presenters in the 12:30 to 3:00 p.m. period, go to the printed program page 20.

1:15 p.m.

Vicki Greisman

"Quilts for Soldiers"

Professor Kathy Bryan, Mentor Professor Nicole King, Mentor

Moderator:

Nicole King, American Studies

Andrew Wright

"Players for a String Quartet" **Professor Linda Dusman, Mentor**

Moderator:

Lisa Cella, Visual Arts

Ronald Blevins

"Portraying the Sea in Two Dimensions"

Professor Frederic Worden, Mentor

Moderator:

Frederic Worden, Visual Arts

1:30 p.m.

Mallory Brooks

"Platform 9 3/4: The Entrance to a Potterhead Created Community" **Professor Kathy Bryan, Mentor**

Moderator:

Nicole King, American Studies

Hannah Kurlansky

"The Culture in Linguistics: How Language Colors Childhood Imagination"

Professor John Stolle-Mcallister, Mentor

Moderator:

Lisa Cella, Visual Arts

Pierre André

"Media Crisis"

Professor Frederic Worden, Mentor

Professor John Sturgeon, Mentor

Moderator:

Frederic Worden, Visual Arts

<u>1:</u>45 p.m.

Jennie Williams, Katie Hern, Thomas Myers, Hayley Nelson, Lacey Wilson, Collin Wojciechowski

"Mapping Baybrook: From Main Street to the Harbor"

Professor Nicole King, Mentor

Moderator:

P. Nicole King, American Studies

Joshua Hooks

"Parametric Study of a Precise Heating and Cooling Technology Applicable to Microchannel Flow" **Professor Tony Farquhar, Mentor**

Moderator:

Michelle Starz-Gaiano, Biological

David Harton

"Perspective"

Professor Frederic Worden, Mentor

Moderator:

Frederic Worden, Visual Arts

2:00 p.m.

Glen Carpenter

"Psychedelic Dungeons: Aesthetics, Satire, and the Counter-Counterculture"

Professor Kathy Bryan, Mentor

Moderator:

Nicole King, American Studies

David Stonko

"A Force-Based Approach to Unraveling the Mechanism of Cell Migration"

Professor Bradford Peercy, Mentor

Professor Michelle Starz-Gaiano, Mentor

Moderator:

Michelle Starz-Gaiano, Biological Sciences

Deon Griffin

"Economical Method of Developing a Short Film"

Professor Fred Worden, Mentor

Moderator:

Frederic Worden, Visual Arts

2:15 p.m.

Arielle Dolegui

"The Effect of Listening to Different Genres of Music on Cognitive Processing Outcomes"

Professor Karen Watkins-Lewis, Mentor

Moderator:

Nicole King, American Studies

James Taylor

"Characterizing Surface Conditions of Micro- and Nano-Electrodes for Electrochemical DNA-Based Sensors"

Professor Ryan White, Mentor

Moderator:

Michelle Starz-Gaiano, Biological Sciences

Adam Mayer

"Al Tishkach: A Story of Holocaust Survival in the Context of Modern Anti-Semitism"

Professor Susanne Sutton, Mentor

Moderator:

Frederic Worden, Visual Arts

2:30 p.m.

Paul Weisko

"People's Liberation Army Navy -Can it Defeat the U.S. Navy?" **Professor Devin Hagerty, Mentor**

Moderator:

Christopher Rakes, Education

Steven Hart, Alisa Burdeyny, Shing-Ling Huang, Kyle Conway, Thomas Brickwedde, Isaac Sohn "Umbrella - Charisma as Gameplay in Modern Videogames"

Professor Marc Olano, Mentor

Moderator:

Michelle Starz-Gaiano, Biological Sciences

2:45 p.m.

Nathaniel Buechler

"Neo-Corporatism and the 2008 Financial Crisis: The Relations between Western States and Supranational Corporations"

Professor Carolyn Forestiere, Mentor

Moderator:

Christopher Rakes, Education

Oliver Muellerklein

"Spatial Dynamics and Territory Estimation for Grasshopper Sparrows (Ammodramus savannarum): a Mathematical Model"

Professor Bernard Lohr, Mentor

Moderator:

Michelle Starz-Gaiano, Biological Sciences

3:00 p.m.

Christina Animashaun

"My Gray Life: Performing for the Spectator"

Professor Mark Durant, Mentor

Moderator:

Christopher Rakes, Education

Alexander Morrow

"Comparison of Dimension Reduction Techniques" **Professor Marie desJardins,**

Moderator:

Mentor

Marie desJardins, Computer Science and Electrical Engineering **Ronald Blevins**

"Portraying the Sea in Two Dimensions"

Professor Frederic Worden, Mentor

Moderator:

Frederic Worden, Visual Arts

3:15 p.m.

Ellen Green

"Teaching Music Notation Using Music Learning Theory Pattern Instruction Versus Traditional Instrumental Methods"

Professor Jonathan Singer, Mentor

Moderator:

Christopher Rakes, Education

Pierre André

"Media Crisis" **Professor Frederic Worden,**

Mentor Professor John Sturgeon, Mentor

Moderator: Frederic Worden, Visual Arts

Brent McBride

"Monte-Carlo Simulations of Photon Transport in Three-Dimensional Clouds"

Professor Zhibo Zhang, Mentor

Moderator:

Marie desJardins, Computer Science and Electrical Engineering

3:30 p.m.

Dana Robinson

"Mulitmodal Learning with Tablet Computers"

Professor Diane Alonso, Mentor

Moderator:Christopher Rakes, Education

Nadine Bucca "Determining the Structure of the HIV-1 Matrix and Native PI(4,5)P2 Complex"

Professor Michael Summers, Mentor

Moderator:

Marie desJardins, Computer Science and Electrical Engineering **David Harton**

"Perspective"

Professor Frederic Worden, Mentor

Moderator:

Frederic Worden, Visual Arts

3:45 p.m.

Kevin Triplett

"Overcoming Reproductive Barriers: Memoirs of Gay Fatherhood"

Mentor

Moderator:Christopher Rakes, Education

Professor Carole McCann,

Comfort Azubuko-Udah

"Literary Discourses on Women's Evolving Social Status in Nigeria" **Professor Jessica Berman,**

Moderator:

Mentor

Marie desJardins, Computer
Science and Electrical Engineering

"Economical Method of Developing a Short Film"

Professor Fred Worden, Mentor

Deon Griffin

Moderator: Frederic Worden, Visual Arts

4:00 p.m.

Yoshiaki Horiguchi "The Correlation Between the Level of Performance and Classroom

Outlook and Self-Efficacy" **Professor Jonathon Singer,**

Mentor

Moderator:Christopher Rakes, Education

Christopher Makes,

Hannah Kurlansky
"Speaking for Whom: Authenticity
and Vocal Performance in
Invisible Man"

Professor Lindsay DiCuirci,
Mentor

Marie desJardins, Computer

Moderator:

Science and Electrical Engineering

Adam Mayer

"Al Tishkach: A Story of Holocaust

Survival in the Context of Modern

Anti-Semitism" **Professor Susanne Sutton,**

Moderator:

Mentor

Frederic Worden, Visual Arts



Undergraduate Education



AN HONORS UNIVERSITY IN MARYLAND