2013 SCHOLARS SYMPOSIUM

Celebrating Undergraduate Research at UCM

Tuesday, April 2, 2013

The Twelfth Annual

2013 SCHOLARS SYMPOSIUM

Celebrating Undergraduate Research at UCM

UCM's Scholars Symposium is an annual campus-wide event dedicated to promoting the research and creative achievements of undergraduate students. This year the Symposium proudly showcases the outstanding research and creative activity undertaken by UCM students.

The strength of an academic institution rests firmly on the scholastic pursuits of its students. Indeed, one of the most important goals of a university education is to instill in students a passion for inquiry and at the same time equip them with the skills needed to pursue their academic and creative interests. Of course, the knowledge and hands-on training students acquire in the process of pursuing undergraduate research is also crucial in many work settings, as well as an important step toward advanced study in a wide variety of graduate and professional programs.

The Symposium's structure is designed to foster dialog in and across disciplines. Presenters are clustered on panels devoted to general academic and creative themes. After presenting condensed versions of their work, a roundtable discussion guided by a faculty member follows. In this way, participants have the opportunity to converse with others who share related interests in similar disciplines. It is hoped that this emphasis on dialog and exchange will facilitate conversation among students—as well as faculty and the larger UCM community.

With a wide range of outstanding presentations, this year's Symposium is especially rich in topics and scope. I am pleased to represent a program that supports student research and creative expression. I extend my appreciation to all student participants, staff, and faculty for making this occasion truly special.

Best Regards,

Dr. Darlene Ciraulo
Associate Professor of English
Coordinator, Undergraduate Research

Logo and program designed by **Alyssa Winkelman**, UCM Honors College Student and Graphic Art Technology Management major

PROGRAM

Welcome & Introductory Remarks
Time: 9:00 a.m.
Location: JCKL Performance Corner
Presenter: **Dr. Darlene Ciraulo**, Associate Professor of English, Coordinator of Undergraduate Research
Presenter: **Dr. Charles Ambrose**, UCM President
Presenter: **Dr. Deborah Curtis**, Provost and Chief Learning Officer
Presenter: **Dr. Shari Bax**, Vice Provost, Student Engagement and Experience

Piano Music: **Julianne Millett**, UCM Psychology major

SESSION I

PANEL 1
Politics and Culture
Time: 9:30 – 10:45 a.m.
Location: JCKL 1430
Faculty Moderator: **Dr. Gregory Streich**

Presenter: **Annie Lewis-Jones**, "From 'I Want You' to 'I Want Out': The Waning of Innocence in American Propaganda from World War I to the Vietnam War"
Presenter: **Tara McKinney**, "To French or Not to French: C'est la Question. Are College Business Students Willing to Study French?"
Presenter: **Kayla Meine**, "College Women as Future Political Candidates"
Presenter: **Rachel Padget**, "American National Identity and Immigration Policy: A Comparison of the McCarthy Era and Mexican-Americans"
Presenter: **Amanda Sasek**, "Restricting Americans: The Dillingham Commission and Franz Boas' Cultural Argument Against Eugenics"

PANEL 2
Chemistry and Kinesiology
Time: 9:30 – 10:45 a.m.
Location: JCKL 1424
Faculty Moderator: **Dr. Steven Burns**

Presenter: **Joshua Dineen**, "Sonochemical Synthesis of Titanium Dioxide Nanoparticles"
Presenter: **Carrie Dove**, "P-90x Versus Insanity"
Presenter: **Shannon Ford**, "Comparison of Covariance-PCA and Correlation-PCA: A Study on the Chemical Composition of Thirteen Different Polymeric Fabric Materials"
Presenter: **Amanda Locke**, "The Effects of Caffeine on Time to Exhaustion During Treadmill Running"

PANEL 3

Biology
Time: 9:30 – 10:45 a.m.
Location: JCKL 1464
Faculty Moderator: **Dr. Anna Oller**

Presenter: **Ariel Dunn**, "Effects of Endurance Training on Glucose Transporter Expression in Rainbow Trout Muscle"
Presenter: **Kyle Kirchhoff**, "Population Genetics of Hybridizing Red and White Mulberry in Missouri Using the AFLP Technique"
Presenter: **Courtney Klaty**, "The Prevalence of Escherichia Coli, Salmonella, Shigella, and Campylobacter in Chicken"
Presenter: **Brittany Potts**, "Assessment and Recovery of Microbial Organisms Prevalent on Lettuce and Spinach"

PANEL 4

Greening UCM
Time: 9:30 – 10:45 a.m.
Location: JCKL 2405
Faculty Moderator: **Dr. Mark von Schlemmer**

Presenter: **Ameche Foster**, "Food Waste Analysis"
Presenter: **Kevin Gingles**, "Revolutionary Lighting Techniques"
Presenter: **Kristen Hogan**, "The Research of Making UCM's Water Fountains Filtered"
Presenter: **Tyler Shockley**, "Implementation of a Composting Program at UCM"

SESSION II

PANEL 1

Literature and Performance
Time: 11:00 a.m.– 12:15 p.m.
Location: JCKL 1430
Faculty Moderator: **Dr. Daniel Schierenbeck**

Presenter: **Jennifer Brown**, "A Bloody Touch: The Image of Hands in Shakespeare's *Macbeth*"
Presenter: **Haley Hrabe**, "Director's View and Process of Liz Flahive's *From Up Here*"
Presenter: **David Palmer**, "Othello the Other"
Presenter: **Kaycie Riead**, "The Changing Cultural Significance of the Brave New World"

Presenter: **Alison Scherer**, "Tennyson: Victorian Beauty in 'The Lady of Shalott' and 'The Sea Fairies'"

PANEL 2

World Geography
Time: 11:00 a.m.– 12:15 p.m.
Location: JCKL 1464
Faculty Moderator: **Dr. Lee Liu**

Presenter: **Kristen Hirlinger**, "Music Pedagogy in China and America"
Presenter: **Camille Jones**, "Why are Some Asian Countries Rich and Others Poor?"
Presenter: **Richard Lally**, "Contrast of Morocco vs United States"
Presenter: **Maureen Reagan**, "How Will the Arab Spring Geography Affect the Future of the Israeli-Palestinian Conflict?"

PANEL 3

Psychology and Social Issues I
Time: 11:00 a.m.– 12:15 p.m.
Location: JCKL 1424
Faculty Moderator: **Dr. Marlys Peck**

Presenter: **Amanda Sasek**, "Participation in the Digital Age: Social Media's Impact on Political Participation and Behavior"
Presenter: **Lindsey Schmidling**, "Campus Climate Index: LGBT Friendliness Assessment"
Presenter: **Lindsey Schroeder**, "Series of Informational Brochures Regarding Older Adults and Long-Term Care"
Presenter: **Medora West**, "Kansas City School Safety and Air Quality"

Dramatic Performance: "From Up Here"
Writer: **Liz Flahive**
Director: **Haley Hrabe**
Actors: **Nellie Maple**, **Alexis Morris**, **Kelsey Reinsfelder**, and **Bob Wearing**
Time: 12:30 p.m.
Location: JCKL Performance Corner

Dance Performance: "Shattered Steel"
Choreographer: **Natalie Krahenbuhl**
Time: 12:45 p.m.
Location: JCKL Performance Corner

SESSION III

PANEL 1

Psychology and Social Issues II
Time: 2:00 – 3:15 p.m.
Location: JCKL 1424
Faculty Moderator: **Dr. Steven Schuetz**

Presenter: **Lisa Cochran**, "Influence of TV on Male Attitudes Toward Females"
Presenter: **Kate Jacquin**, "Birds and Bees: Content Analysis of Children's Books"
Presenter: **Ayanna Mills**, "Do Interpersonal Relationships Effect Relationships with Nature?"
Presenter: **Patricia Ngige**, "A Cross-Cultural Comparative Study between African and American College Students on HIV/AIDS"
Presenter: **Sarah Rogers**, "Should I Be Honest?"

PANEL 2

Art, Music, Theatre
Time: 2:00 – 3:15 p.m.
Location: JCKL 1430
Faculty Moderator: **Dr. Joshua Taft**

Presenter: **Jennifer Brown**, "'When Salt Blossoms': A Collection of Poetry"
Presenter: **James Jones**, "Transgenesis: An Artist's Perspective"
Presenter: **Natalie Krahenbuhl**, "A Discussion of the Creation and Choreography of the Dance Performance 'Shattered Steel'"
Presenter: **Daniel Longo**, "The Root Note"
Presenter: **Kayla Lopez**, "Millinery of Old and New: Women's Hats 1910-1960"
Presenter: **Emily Mason**, "Rethinking Studio Setting: Influence of Technology and Needs of Students of Digital Age"

Panel 3

UCM Student Experience
Time: 2:00 – 3:15 p.m.
Location: JCKL 1464
Faculty Moderator: **Dr. Matthew VanSchenkhof**

Presenter: **Bailey Brockhaus**, "Sustainability: Education on Student Loans"
Presenter: **Jacob Geiersbach**, "Sustainable Weight Rooms"
Presenter: **Kaitlynn James**, "How do Working UCM Students Connect to the University?"
Presenter: **Misty Smith**, "Internships"
Presenter: **Alisha Wilson**, "Integrative Business Experience (IBE)"

THANKS TO FACULTY

The success of any undergraduate research project depends upon the expertise and oversight of faculty. UCM is fortunate to have faculty who are both experts in their fields and at the same time dedicated to fostering inquiry among students. Student-faculty collaboration is at the heart of undergraduate research and, in fact, the engaged educational experience available at UCM. The following faculty members served as mentors and/or moderators for the 2013 Scholars Symposium.

Dr. David Baker, Assistant Professor, Management
Dr. Shari Bax, Vice Provost, Student Engagement and Experience
Dr. Steve Burns, Associate Professor, Kinesiology
Ms. Ronnie Chamberlain, Assistant Professor, Theatre
Dr. Joyce Chang, Professor, Child and Family Development
Dr. Darlene Ciraulo, Associate Professor, English
Dr. James Gai, Professor, Music
Ms. Joyce Jablonski, Professor, Art
Dr. Mary Kelly, Associate Professor, Sociology
Dr. Arthur Kemp, Associate Professor, Psychology
Dr. Celia Kingsbury, Professor, English
Dr. Scott Lankford, Assistant Professor, Biology
Dr. Lee Liu, Associate Professor, Geography
Dr. Mary McCord, Professor, Managment
Ms. Ashley Miller, Assistant Professor, Theatre
Dr. Julie Mollenkamp, Professor, Theatre
Dr. Selene Nikaido, Associate Professor, Biology
Dr. Kathryn Nuernberger, Assistant Professor, English
Dr. Anna Oller, Associate Professor, Biology and Earth Science
Dr. Marlys Peck, Associate Professor, Social Work
Dr. Georgi Popov, Associate Professor, Safety Sciences
Dr. Innocent Pumure, Assistant Professor, Chemistry
Mr. Haroon Sattar, Assistant Professor, Art/Interior Design
Dr. Daniel Schierenbeck, Professor, English
Dr. Steven Schuetz, Assistant Professor, Psychology
Dr. Gregory Streich, Professor, Political Science
Dr. Joshua Taft, Assistant Professor, English
Dr. Matthew VanSchenkhof, Assistant Professor, Management
Dr. Mark von Schlemmer, Assistant Professor, Communication

SYMPOSIUM PLANNING COMMITTEE

Dr. Darlene Ciraulo, Associate Professor of English, Coordinator of Undergraduate Research

Dr. Joseph D. Lewandowski, Dean, The Honors College

Dr. Robert Hallis, Associate Professor, Library

Dr. David Kreiner, Professor, Psychology

Dr. Alex Pagnani, Assistant Professor, Education

Dr. Lynn Urban, Associate Professor, Criminal Justice

Dr. Lianwen Wang, Associate Professor, Statistics and Mathematics

Mrs. Traci L. Butler, Administrative Assistant, The Honors College

SPECIAL THANKS TO

The Honors College, for sponsoring the Symposium

All faculty mentors and moderators

Dennis Pierce, for Symposium technical support

Bryan Tebbenkamp, for Symposium photography

Dean Mollie Dinwiddie, **Nancy Gieselman**, and the JCKL staff, for hosting the Symposium

Alyssa Winkelman, for the Scholars Symposium Program Design

Andrew Millett, **Anna Robb**, and **Alyssa Winkelman**, The Honors College office assistants

Pictured Below: Moderator Lee Liu with presenters Sheldon Smith, Dayna Marinan, Ardis Shipley, and Sheree Moody at 2012 Scholars Symposium.

Student abstracts available on the Undergraduate Research website:
www.ucmo.edu/undergradresearch/symposium/abstract.cfm