MIZZOU GRADUATE PROFESSIONAL COUNCIL'S

32ND ANNUAL RESEARCH & CREATIVE ACTIVITIES FORUM

March 14, 2015
University of Missouri
MU Student Center
Research and Creative Activities Forum
Steering Committee

Rachel Bauer, Chair
Hallie Thompson
Eric Hucker
Alex Howe
Marcelius Braxton
Jesse Kremenak
Matt McCune

GPC Programming Committee:
Tim Gouge
Kacy Walz
Yue Hao
Laura Ursprung
Erika Johnson
Joy Jenkins
Ruth Cardenas
Schedule

8:00am-8:45am
Judge's Welcome and Orientation
Presenter Registration
Traditions Lounge

9:00am-12:15am
Presentations

12:15pm-1:15pm
Judges’ Lunch
Traditions Lounge

1:15pm-4:00pm
Presentations

4:00pm-5:00pm
Free Hour

5:00pm-6:00pm
Networking Reception
Traditions Lounge

6:00pm-8:00pm
Banquet and Awards Ceremony
The Shack
Presentation Schedule

Behavioral Sciences
St. Louis Room

Session One (9:00am-10:30am)
Rebecca Rodriquez Carey, Chair

“Component Analysis of Functional Behavioral Assessment and Behavior Intervention Plans among Children with Disabilities”
Kristin Harvey, Jennifer McKenzie, and Ambra Green

“An Exploration of Discourse Dependency in Identity Construction in Families with a Child on the Autism Spectrum: Discursive Trials, Tribulations, and Triumphs”
Alexie Hays

Session Two (10:45am-12:25pm)
Alexie Hays, Chair

“Individual- and Habitat-Level Factors Affect the Movement of a Juvenile Salamander”
Brittany Ousterhout

“Pregnant and Imprisoned: How I Prepared for My Unborn Child in Prison”
Rebecca Rodriguez Carey
Biological Sciences
Room 2206B

Session One (9:00am-10:30am)
Hallie Thompson, Chair

“Effect of Two De-Bittering Strategies on the Flavonol, Polyphenolic and Anti-Oxidant Status of Neem Tea”
Abhinandya Datta

“Efficacy of Utilizing Physiological Traits as a High-Throughput Phenotyping Method for Predicting Yield and Its Components in Soft Red Winter Wheat”
David Chappell

Session Two (10:45am-12:25pm)
David Chappell, Chair

“Brainstem Serotonin (5-HT) and Arterial Blood Pressure Regulation in Neonatal Rats Exposed to Intermittent Hypercapnic Hypoxia”
Jennifer Magnusson

“Using Comparative Genomics to Study Mammalian Evolution”
Yue Hao
Biological Sciences
(Continued)

Session Three (1:15pm-2:35pm)
Yue Hao, Chair

“Predicting the Shape- and Time-Evolution of Multi-Cellular Aggregates Using Cellular Particle Dynamics Simulations”
Matt McCune

“Simultaneous Determination of the Free Energy Profile and Effective Dynamics along a Reaction Coordinate”
Jiong Zhang

Session Four (2:45pm-4:05pm)
Erika Johnson, Chair

“Prolonged Eosinophilia as a Biomarker of Intestinal Complications in Neonatal Necrotizing Enterocolitis”
Lila Wahidi

“An Injectable Tissue Construct for the Treatment of Post-Traumatic Osteoarthritis Derived from Homogenized Porcine Extracellular Matrix and Gold Nanoparticles”
Sarah Smith
Humanities/Creative Arts
Kansas City Room

Session One (9:00am-10:30am)
Stephanie Hull, Chair

“'Oh!, The Places I've Been' for Bass Clarinet and Electronics”
Jose Martinez and Jeremiah Rittel

“Bang on a Can: The Evolution of the Steel Pan from a Biscuit Tin to a Fine Art Instrument”
Daniel Edwards

Session Two (10:45am-12:25pm)
Daniel Edwards, Chair

“Realism, Anti-Realism, and Faultless Moral Disagreement”
Stephanie Hull

“Rock ‘n’ Roll and Radical Irony: The Hopeful End of the Rock Novel”
Janessa Toro

Session Three (1:15pm-2:35pm)
Jessica Rick, Chair

“Wajdi Mouawad's Incendies: Speaking the Unspeakable through Poetry”
Alyssa Smith

“The Beatles: Americas' effect on Rubber Soul and their creative period: 1965-1967”
Ben Gervais
Social Sciences/ Law (Qualitative)
Room 2205A

Session One (9:00am-10:30am)
Jenna Pirok, Chair

“Border Crossing Partnerships between Special Education and Gifted Education Classrooms: Action Research to Disrupt Segregation in PK-12 Settings”
Kathryn Fishman-Weaver

“A Case Study of Learning, Motivation, and Performance Strategies for Teaching and Coaching Career Development Events Teams”
Amanda Bowling

Session Two (10:45am-12:25pm)
Colleen Cleary, Chair

“Almost Becoming One of the Guys: How Female Engineering Students Embody Gender and Manage Gender Stigma”
Anna Valiavska and Jessica M. Rick

“Growing Community Leaders: How Community Leadership Program Mini-Grant Funding Propels Graduates to Address Community Needs”
Laurel Goodman
Session Three (1:15pm-2:35pm)

Matt Bird-Meyer, Chair

“Community Building in a Neighborhood of Concentrated Poverty: Analysis of Communicative Acts”
Anna Carrillo Arnal

“Not Kisses but Tears: The Shifting Definition of Disney Princess”
Nettie Brock

Session Four (2:45pm-4:05pm)

Nettie Brock, Chair

“How Student Journalists Develop a Discipline of Verification”
Matt Bird-Meyer

“Repurposing West Side Elementary: A Community's Attempt to Reclaim a Closed Public School”
Colleen Cleary
Social Sciences/ Law (Quantitative)
Room 2205B

Session One (9:00am-10:30am)
Anna Valiavska, Chair

“Designation and Fiduciary Standard Improve Investment Decisions”
Jesse B. Jurgenson

“The Impact of Livestock Judging Participation on 4-H Members”
Ben Weikert

Session Two (10:45am-12:25pm)
Marcelius Braxton, Chair

“Border Permeability Analysis Using GIS: A Spatial Approach to a Counterinsurgency Problem”
Tim Gouge

“Conservation through Gastronomy”
Yun Ho

Session Three (1:15pm-2:35pm)
Brittany Ousterhout, Chair

“How is Social Media Changing Crisis Communication? Toward a Functional Framework for Organizational Social Media Use”
Yang Cheng

“Ferguson on Facebook: Political Persuasion in a New Era of Media Effects”
Molly Greenwood
Physical Sciences
Room 2206A

Session One (9:00am-10:30am)
Matt McCune, Chair

“Monitoring the Uniformity of Alpha Helices in Lipophilic Environments”
Anahita Zare

“Bacterial Cellulose Ionogels: Towards New Functional Materials”
Chip Smith

“Bio-inspired Peptide Nanostructures for Organic Field-effect Transistors”
Grant Knotts

Session Two (10:45am-12:25pm)
Anahita Zare, Chair

“Self-Assembled Organic Monolayers as Molecular Sieves: Ab Initio and Molecular Dynamics Studies”
Alexander V. St. John

“Sunlight-Assisted Route to Antimicrobial Aminoclay Catalysts”
Sudhir Ravula
Session Three (1:15pm-2:35pm)

Dawei Li, Chair

“Saturated Film Densities and Binding Energy of Adsorbed Hydrogen”
Andrew Gillespie

“Temperature-dependent Electrical Transport in Ferroelectric Organic Field-effect Transistors”
Amrit Laudari

Session Four (2:45pm-4:05pm)

Eric Hucker, Chair

“Critical Role of a Buried Interface in the Stranski-Krastanov Growth of Metallic Nanocrystals: Quantum Size Effects in Ag/Si(111)-(7 × 7)”
Yiyao Chen

“Optimal Estimation for Signal Processing”
Dawei Li
Banquet and Awards Ceremony

The Shack

Eric Hucker
GPC Vice-President
Welcome

Dinner

Eric Hucker
GPC Vice President
Introduction of Keynote Speaker

Dr. Robin Walker
Leadership and Professional Development Programs
Office of Graduate Studies
Keynote Address

Rachel Bauer
GPC Director of Programming and Publicity
Presentation of the Awards
The University of Missouri Graduate Professional Council
would like to thank all who made this year’s RCAF a
success.

We would especially like to thank our judges:

Mohammed Ali
Tony Castro
Sarah Diem
Jeni Hart
Gary Homann
Ryan Knowles
Danielle Langdon
James Richards
Frank Somer
Bethany Stone
Jason Telford
Ze Wang
Peggy Wright