Symposium

on Student Research, Creative Activities, & Innovation

February 26th, 2016

California State University
SAN MARCOS
Agenda
February 26, 2016

Session 1  Behavioral and Social Sciences--Undergraduate
1:30-3:40 pm, Markstein Hall 101

Session 2  Behavioral and Social Sciences--Undergraduate
1:30-4:00 pm, Markstein Hall 104

Session 3  Behavioral and Social Sciences--Graduate
1:30-4:00 pm, Markstein Hall 103

Session 4  Sciences---Undergraduate
1:30-3:20 pm, Markstein Hall 107

Session 5  Sciences---Undergraduate
1:30-4:00 pm, Markstein Hall 105

Session 6  Interdisciplinary
1:30-3:20 pm, Markstein Hall 106

Reception  Markstein 125
5:00 - 6:00 pm

Welcome & Remarks
5:00 pm
Dr. Kamel Haddad
Vice Provost of Planning and Academic Affairs

Finalists Announced
Dr. Wesley P. Schultz
Dean of Graduate Studies and Research
Session 1:
Behavioral and Social Sciences
Undergraduate
Markstein Hall 101
1:30 - 1:50
Veronika Espinoza
Adolescents Show A Reduced Behavioral Response To Amphetamines When Compared To Adults

1:50 - 2:10
Annalise Binette
Age-related Behavioral Differences in Response to Ritalin (methylphenidate) in Rats

2:10 - 2:30
Cristal Lopez
Are Some People More Susceptible to Social Norms than Others?

2:30 - 2:50
Yesenia Cabrera
Maternal behavior differences between mice in communal versus individual nesting environments

2:50 - 3:00
Break

3:00 - 3:20
Judith Johnson
The Effect of Combining Normative Influence and Commitments In Water Conservation

3:20 - 3:40
Micah Savin
Does Cloud Chasing Spill Over: Environmental Vapor Found in Neighboring Shops

4:20 - 6:00
Please join us for the Awards Reception.

Session 2:
Behavioral and Social Sciences
Undergraduate
Markstein Hall 104
1:30 - 1:50
Veronika Espinoza
Adolescents Show A Reduced Behavioral Response To Amphetamines When Compared To Adults

1:50 - 2:10
Annalise Binette
Age-related Behavioral Differences in Response to Ritalin (methylphenidate) in Rats

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Judith Johnson
The Effect of Combining Normative Influence and Commitments In Water Conservation

3:20 - 3:40
Micah Savin
Does Cloud Chasing Spill Over: Environmental Vapor Found in Neighboring Shops

4:20 - 6:00
Please join us for the Awards Reception.
Session 3: Behavioral and Social Sciences Graduate
Markstein Hall 103
1:30 - 1:50
Arthur Castaneda
Expression of c-Fos as a Marker of Neuronal Activity Following Hypocretin-1 Infusions in Lactating Dams

1:50 - 2:10
Whitney Hawkins
Increased Mind Wandering Predicts Increased Susceptibility to Misinformation

2:10 - 2:30
Abraham Escobedo
Ketamine Blocks the Rewarding Effect of Methamphetamine

2:30 - 2:50
Kathryn Shaw
Individual empathy and global responsibility: Does self-esteem buffer the relationship?

2:50 - 3:00
Break

3:00 - 3:20
Eva Urbina
Cultural Stressors as Potential Predictors of Gestational Age and Infant Birth Weight in Pregnant Mexican-American Women

3:20 - 3:40
Talal Zafar
Repeated Administration of Ketamine in Adolescence has Long-Term Effects that Last into Adulthood

3:40 - 4:00
Trevor Towner
Rewarding Effects of a Methamphetamine and Morphine "Speedball"

4:20 - 6:00
Please join us for the Awards Reception.

Session 4: Sciences Undergraduate
Markstein Hall 107
1:30 - 1:50
Judith Flores
Expression and purification of purine nucleoside phosphorylase for use in aminoacylation assays

1:50 - 2:10
Tanya Espino
Structural Characterization of the E. coli Outermembrane protein CsgG

2:10 - 2:30
Brenda Cisneros
Can Emiliania huxleyi withstand electrocution?

2:30 - 2:50
Consuelo Sacueda
Competitive induction of marine bacterium strain UA774

2:50 - 3:10
Gloria Diaz
Bisphosphorylimides as Organocatalysts for Asymmetric Friedel-Crafts Reactions: Preparation and Optimization of Model Catalyst

4:20 - 6:00
Please join us for the Awards Reception.
Session 5: Sciences Undergraduate Markstein Hall 105

1:30 - 1:50
Cindy Barba
The role of TNF-α receptors on T cell homeostasis in obese and diabetic mice

1:50 - 2:10
Cipriano Zuluaga
Identifying the role of nucleolar factors in the replication of DNA viruses

2:10 - 2:30
Maylin Caldwell
Characterization of mitochondrial alternative oxidase and internal NAD(P)H dehydrogenase in Arabidopsis

2:30 - 2:50
Miguel Angel Rosas
Nitrate-induced glutaredoxins promote primary root growth of Arabidopsis thaliana

2:50 - 3:00
Break

3:00 - 3:20
Kevin Tenerelli
Novel Transcriptional Mechanisms Regulate Visual Pathway Development

3:20 - 3:40
Greg Walters
Experimental design to fast-track protein folding studies for understanding genetic disease

3:40 - 4:00
Jocelyn Olvera
Nitrate-regulated glutaredoxin proteins inhibit primary root growth of Arabidopsis thaliana

4:20 - 6:00
Please join us for the Awards Reception.

Session 6: Interdisciplinary Markstein Hall 106

1:30 - 1:50
Dan Cheng and Jason Lin
Econometrics Study on Political Instability Affecting Economic Growth

1:50 - 2:10
Spencer Aldrich-Stone
Two Final Frontiers: The Exploration of Both Space and Ocean

2:10 - 2:30
Ken Talbot
Secondary Crowdsources

2:30 - 2:50
Petrona Gregorio
The Effects of Social Norms and Self-Affirmation on Changes in Sugar-Sweetened Beverage Consumption

2:50 - 3:10
Aaron Porter
Confirming the DIVA model with respect to the Speech Sound Map and Auditory Error Map

4:20 - 6:00
Please join us for the Awards Reception.
About the CSU Student Research Competition

This year’s Symposium finalists will travel to the CSU statewide Student Research Competition at CSU Bakersfield on April 29th and 30th. Finalists in the CSU Student Research Competition receive certificates of recognition and cash awards.

Each spring California State University hosts the CSU Student Research Competition at one of its 23 campuses. The purpose of the event is to promote excellence in undergraduate and graduate scholarly research and creative activity by recognizing outstanding student accomplishments. Each campus holds its own competition to select a group of ten student research presentations to send to the statewide competition. Finalists in the campus competition receive cash awards and travel resources to compete at the statewide competition in late April/early May.

Last Year’s CSUSM Finalists

Congratulations to 2015 Statewide winners Anneke Bulthuis (pictured center, back row), Biochemistry undergraduate, for earning first place and Trevor Towner (pictured first person on the left), Psychology undergraduate, for earning runner up in their respective sessions.

For more information on different research opportunities and travel resources visit: www.csusm.edu/gradstudies

Acknowledgements

We would like to thank the community judges for their participation today:

James Danoff-Burg, Ph.D
New Knowledge Organization Ltd

Sharon Danoff-Burg, Ph.D
New Knowledge Organization Ltd

Erica Leary, MPH
Vista Community Clinic

Linda Leivel, CNM, MSPH
North County Health Services

Suzanne Schweikert, MD, MPH
North County Health Services

Sharon Whitehurst-Payne, Ph.D
Educational Consultant

We would also like to acknowledge and thank all the participants, judges, faculty sponsors and room moderators for their participation. Below is a listing of all the academic programs that participated today:

Chemistry & Biochemistry
Biological Sciences
Biotechnology
Communication
Computer Science
Economics

Kinesiology
Office for Training, Research, & Education in the Sciences
Physics
Psychology
Visual and Performing Arts

Thank you to our Prep Session panelists who have prepared our students for today:

Teri Metzger
CSUSM Communication faculty

Anneke Bulthuis
CSUSM Biochemistry undergraduate and 2015 Statewide Winner