

37th ANNUAL

**CENTRAL
CALIFORNIA
RESEARCH
SYMPOSIUM**

PROGRAM

Wednesday, April 20, 2016

**University Business Center
California State University, Fresno**

Judges for Undergraduate and Graduate Oral and Poster Presentations

Dr. Loren Alving	University of California, San Francisco
Dr. Jason Bush	California State University, Fresno
Dr. Alejandro Calderon-Urrea	California State University, Fresno
Mr. Doug Carey	California State University, Fresno
Dr. Steve Chung	California State University, Fresno
Dr. Paul Crosbie	California State University, Fresno
Dr. Kathleen Dyer	California State University, Fresno
Ms. Marie Fisk	California State University, Fresno
Dr. Tamas Forgacs	California State University, Fresno
Dr. Joseph Gandler	California State University, Fresno
Dr. Joy Goto	California State University, Fresno
Dr. Raymond Hall	California State University, Fresno
Dr. Alam Hasson	California State University, Fresno
Dr. Howard Hendrix	California State University, Fresno
Dr. Donna Hudson	University of California, San Francisco
Ms. Susan Hughes	University of California, San Francisco
Ms. Lisa Husak	University of California, San Francisco
Dr. Marat Markin	California State University, Fresno
Dr. Justin Matthews	California State University, Monterey Bay
Dr. Hubert Muchalski	California State University, Fresno
Dr. Kin Ng	California State University, Fresno
Dr. Maria Nogin	California State University, Fresno
Ms. Iris Price	University of California, San Francisco
Dr. Adnan Sabuwala	California State University, Fresno
Dr. Oscar Vega	California State University, Fresno
Dr. Kent Yamaguchi	University of California, San Francisco

Moderators for Oral Presentations:

Mr. Doug Carey	California State University, Fresno
Dr. Carmen Caprau	California State University, Fresno
Dr. Howard Hendrix	California State University, Fresno
Ms. Grace Liu	California State University, Fresno
Ms. Debbie Neufeld	California State University, Fresno

Presentations will be judged based on the following criteria and considerations:

Merit, creativity, timeliness, and value to an audience of scholars not necessarily from the same discipline
Authors are encouraged to present their work using terminology suitable for a multi-disciplinary audience
Results of completed work, as well as work-in-progress, for which there is preliminary data

Event and Proceedings Coordinators

Millie C. Byers & Maral Kismetian
California State University, Fresno

Poster Session IV
3:00 p.m. until 4:30 p.m.

University Business Center
Gottschalks Gallery

Authors will be available for questions from 3:00 p.m. until 4:30 p.m.

- 12 Neurotoxic Effects of BMAA on Human Neuroglioma Cells to Investigate Amyloid Beta Formation**
Jazmin Arias, Swetha Satyanarayana Reddi, Dr. Joy Goto
- 13 Synthesis and Structure Activity Effects on the Cytotoxicity of Asymmetric Curcumin Analogues towards Prostate Cancer Cells**
Kevin Muthima, Rubing Wang, Cecee
- 14 Small Molecule Binding Sites Explored in Camelid Variable Heavy Chain Antibodies**
Brandy White, Brandy R. White, Shirley J. Gee, Bruce D. Hammock, and Cory L. Brooks
- 15 Keto-Enol Tautomerization Equilibrium of Acetylacetone in Mixed Solvents. Does Meyer's rule still apply?**
Candice Cortney¹, V.V. Krishnan^{1,2}
- 16 Private Embarrassment: An Empirically Informed Philosophical Analysis**
Kalahan Stoker
- 17 Characterization of Potential Oomycete Pathogens Present at California State University, Fresno Farm Laboratory**
Holly Deniston-Sheets, John Bushoven, and Margaret L. Ellis
- 18 Oxidation of 3-OH in Silibinin and Derivatives**
Samantha Mallory, Bao Vue, Hualia Yang and Qiao-Hong Chen
- 19 Sequencing of Farnesoic Acid O-methyltransferase in *Triops longicaudatus***
Matthew Merritt and Dr. Brian Tsukimura

Concurrent Session A

University Business Center
Auditorium 191

- 9:00 a.m. **7-O-Aminoalkyl-2,3-Dehydrosilibinins: Synthesis and In Vitro Evaluation in Prostate Cancer Cell Models**
Sheng Zhang, Bao Vue, Xiaojie Zhang, Timmy Lee, and Qiao-Hong Chen
- 9:15 a.m. **Chemical Modifications of 3-OH in 3',4'-Dimethoxyflavonol Attenuate Prostate Cancer Cell Proliferation**
Xiang Li, Guanglin Chen, Xiaojie Zhang, and Qiao-Hong Chen
- 9:30 a.m. **1,9-Diarylnona-1,3,6,8-tetraen-5-ones: A New Class of Anti-Prostate Cancer Agents**
Xiaojie Zhang, Rubing Wang, German Ruiz, Guanglin Chen, and Qiao-Hong Chen
- 9:45 a.m. **Synthesis of Potential Metabolic Products of 1,5-bis(1-alkyl-1H-imidazol-2-yl) or (1-alkyl-1H-benzo[d]imidazol-2-yl)penta-1,4-diene-3-ones**
Manee Patanapongpibul, Xiaojie Zhang, and Qiao-Hong Chen
- 10:00 a.m. **Structural Study of Antifreeze Glycoproteins (AFGP) using High-Resolution Nuclear Magnetic Resonance (NMR) Spectroscopy**
Cheenou Her^{1*}, Yin Yeh², and Krish Krishnan^{1,2}
- 10:15 a.m. **Break—University Business Center, Gottschalks Gallery**
10:30 a.m. **Concurrent Session Resume**

9:00 a.m. **Statistical Models for Prediction of Fantasy Football Points**
Adam Jauregui, Steve Chung

9:15 a.m. **An Analysis of a Point Mass Problem**
David Wu

9:30 a.m. **Location of Zeros of the Sequence of Polynomials Defined Recursively by $P_{\{n\}}(z) = P_{\{n-2\}}(z) - zP_{\{n-3\}}(z)$**
Andres Zumba Quezada

9:45 a.m. **Investigation of the Topological Interpretation of Modal Logics**
Bing Xu

10:00 a.m. **On a Generalized Paley-Wiener Theorem and its Implication**
Dr. Marat Markin

10:15 a.m. **Break – University Business Center, Gottschalks Gallery**
10:30 a.m. **Concurrent Session Resume**

Authors will be available for questions from 3:00 p.m. until 4:30 p.m.

- 1 **Nanoparticle Delivery of Curcumin and Chemotherapeutics for the Treatment of Drug-Resistant Pancreatic Cancer**
Matthew Ogbuehi, Delwar Hussain, Jason Bush
- 2 **Simulation of Scene Perception and Navigation of Wood Ants in Naturalistic Environments**
Erik Arevalo, Austin Mendoza, David D Lent
- 3 **Variation in Daily Growth Rates in Juvenile Chinook Salmon**
Matthew J. Cavaletto, Taylor J. Spaulding
- 4 **Identification of Mutants Involved in Chalcone Degradation in *Caenorhabditis Elegans***
Rachel Tamayo (Master's student) and Alejandro Calderón-Urrea
- 5 **Characterization of a Novel cGMP-Sensing CRP from *Rhodospirillum Centenum***
Yue Zhou, Sanjiva Gunasekara, Hwan Youn
- 6 **Analysis of Residues Critical for the Constitutive Activity of Clp from the Pathogen *Xanthomonas Axonopodis***
Joel Curiel, Lauren Chardukian and Hwan Youn
- 7 **Identifying Genes of Interest Disrupted in Transposon Mutants in *Mycobacterium Smegmatis***
Omshola Aleru, Leslie Dominguez, Dr. M. Rawat
- 8 **A Fruit Fly Model of the Neurodegenerative Disease, ALS-PDC, Induced by Exposure to an Environmental Neurotoxin**
Richard Moua, Shayan Zoghi, Harmala Singh, Dureshika Ranasinghe, Joy J. Goto
- 9 **Identifying Gene Disrupted in *Mycobacterium Smegmatis* Transposon Mutants**
Amorette Guzman and Gabbie Hernandez, Dr. Mamta Rawat
- 10 **Affects of Gender, Need for Leadership and Positive Affect Between Transformational and Transactional Leadership Styles**
Tanjit Singh
- 11 **Social Anxiety and Values in Relation to Acceptance and Commitment Therapy**
Soultana Mpoulkoura

Poster Session III continued
1:00 p.m. until 2:30 p.m.

University Business Center
Gottschalks Gallery

Concurrent Session C

University Business Center
Room 194

Authors will be available for questions from 1:00 p.m. until 2:30 p.m.

- 12** ***A Statistical Approach to Analyze Engineering Estimates and Bids***
Roshanak Farshidpour
- 13** ***Reaction-Wheel Based CubeSat Spin Stabilization and Control Test Bed***
Fadi Bakour
- 14** ***Studying the Effects of Bcl-2 Family Proteins on Oxidative Phosphorylation***
Nawras Samaan; Preet Kaur; Laurent Dejean
- 15** ***Detecting Food Borne Pathogens: Using qPCR to Detect B. Cereus and L. Monocytogenes***
Emeline Pano, Alexa Lopez, and Alejandro Calderon-Urrea
- 16** ***Synthesis of Gadolinium Nanoparticles Using the Inverse Micelle Method***
Adan Prado, Alexandre Ly, Patrick Talbot
- 17** ***Stratigraphy and Transmissivity of the Kaweah River Fan, Visalia, California***
Dustin White and Zhi Wang
- 18** ***Common Core: The New Labyrinth***
Erik Ugalde
- 19** ***Impact of Acculturation on Immigrants' Dental Health***
Jaspinder Kaur
- 20** ***Marijuana Attitudes, Perceptions, Use, and Academic Achievement***
Kristi Sadler
- 21** ***Rating RateMyProfessors.com: A Comparative Analysis of Official Student Evaluations and Unofficial Online Comments***
Anna Santana

9:00 a.m.

Democratic vs. Authoritarian History Texts and Education for Peace or War

Andrea N. Wilson

9:15 a.m.

Homo Cinematicus: Self-Perpetuating Alienated Ideological and Cognitive Restructures

Phillip Unruh

9:30 a.m.

Anti-Semitism in American Sports

Thomas Miller

9:45 a.m.

Dasam Granth: A Closer Examination of the Saint-Soldier Complex

Kiranjit Kaur Dhanjan

10:00 a.m.

Expulsion of the Jews from England 1190 to 1290

Cory Chapman

10:15 a.m.
10:30 a.m.

Break – University Business Center, Gottschalks Gallery
Concurrent Session Resume

Concurrent Session D

University Business Center
Auditorium, 191

Poster Session III
1:00 p.m. until 2:30 p.m.

University Business Center
Gottschalks Gallery

- 10:30 a.m. **Apparatus for the Measurement of Thermoelectric Power**
Shoji Hishida and Dr. Pei-Chun Ho
- 10:45 a.m. **Synthesis of Organic Molecules for APOE Inhibition in Alzheimer's Disease**
Amanda Voigt, Irina Boginski, Nisha John, Rafael Remotigue, Jaekwang Kim, Jung su Kim, and Santanu Maitra
- 11:00 a.m. **Biochemical Characterization of Three Glutaredoxins and a Glutathione-Dependent Formaldehyde Dehydrogenase from *Synechococcus* PCC 7942**
Samantha Hartanto, Mamta Rawat
- 11:15 a.m. ***Mycobacterium Smegmatis* Transposon Mutants and Disrupted Genes**
Brittney Shelley, Katherine Ross, Mamta Rawat
- 11:30 a.m. **Thermal Properties Extracted from Specific Heat of Nd-Doped PrOs₄Sb₁₂**
Taylor McCullough-Hunter(1), Shoji Hishida(1), Pei-Chun Ho(1), Tatsuya Yanagisawa (2), Brian Maple (3)
- 11:45 a.m. **Distributed Charging through Tabletop Wireless Power Transfer System**
Abhijit Suprem, Woonki Na
- 11:45 a.m. Break – University Business Center, Gottschalks Gallery**
12:15 p.m. Plenary Session

Authors will be available for questions from 1:00 p.m. until 2:30 p.m.

- 1 **Examining Biomarkers in Aggressive Tumor Types of Thyroid Cancer**
Jazmin Cheatham
- 2 **Correlating the Expression of Tau and Ptau with Behavioral Dysfunction in *Drosophila Melanogaster***
Joy Aparicio Valenzuela, Amanda C. Olvera, Kumsu Hwang, David D Lent.
- 3 **Split-Brain Spatial Learning and the Flexibility of the Learned Antenna Projection Response to Natural Contexts in *Periplaneta Americana***
Matthew Pomaville, David D. Lent
- 4 **A Method to Assess the Reactive Oxygen Species (ROS) Formation Induced by Particulate Matter (PM) Samples in Alveolar Macrophages**
Clarissa Niino, Anthony Waterston, Geil Merana, Joel Castillo, Annabelle Lolingo, Kimberly Flores, Benjamin Tanielian, Laurent Dejean, and Alam Hasson
- 5 **The Effect of Local Flower Distribution on the Foraging and Communication Behavior of the Common Eastern Bumblebee, *Bombus impatiens***
P Yang, E Arteaga, NK Bains, A Mohamed, C Morazan, AP Lange, DD Lent
- 6 **Analyzing Temperature Effects on Juvenile Chinook Salmon Growth**
Akusha Kaur, Steve Blumenshine, & Taylor Spaulding
- 7 **Comparative Analysis of Clp (CRP-like protein) from *Xanthomonas axonopodis*, *Xylella Fastidiosa* and *Stenotrophomonas Maltophilia***
Lauren Chardukian, Joel Curiel, Noor Al-Qaysi, Rafal Al-Qaysi and Hwan Youn
- 8 **Reactive Oxygen Species in *Caenorhabditis briggsae* Mitochondria**
Marisol Lauri, Joseph Ross
- 9 **Use of Stable Isotopes of Oxygen and Hydrogen to Trace Water in the San Joaquin River**
Monet Gomes and Steve Blumenshine Ph.D
- 10 **Examining the Hydration and Mechanical Properties of Cement Paste Containing Cellulose Nanocrystals**
Yvette Valadez-Carranza, C. Chui, P. Zavattieri, W.J. Weiss, J. Youngblood
- 11 **Role of Enzyme Kinetics on the Anomerization of Glucose Using Real Time Quantitative NMR (qNMR) Spectroscopy**
Jaideep Singh, Cheenou Her and V.V. Krishnan

Poster Session II continued
11:00 a.m. until 12:30 p.m.

University Business Center
Gottschalks Gallery

Concurrent Session E

University Business Center
Room 192

Authors will be available for questions from 11:00 a.m. until 12:30 p.m.

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| 12 | Smart Farming
Nikhil Shinde | 10:30 a.m. | Determining Reasons and Barriers of Employee Participation in Fitness Classes Provided by Fresno State's Worksite Wellness Program
Ashley Gardea |
| 13 | Simple Systems for Learning Analytical Laser Spectroscopy
Jackson Wagner, Nelson Ayala, Omar Hernandez | | |
| 14 | Capture Success of <i>Utricularia Vulgaris</i>, a Carnivorous Plant
Eduardo Meza, Ronnie Oda, Cory Mayfield, Maxwell Hall, Ulrike Müller | 10:45 a.m. | A Comparison between the Efficacy of Automated Thinners and Hand Thinning of Lettuce
Elizabeth Mosqueda 1, Richard Smith 2, Anil Shrestha 1 |
| 15 | Implementation of State-of-the-Art Drip Irrigation Technology in California Table Grape Vineyards: An Economic Analysis
Salvador Mariscal | | |
| 16 | ZOMBY (An Unmanned Ground Vehicle): Remote-Controlled Retrofitted with Thermal Camera and Made Autonomous
Arthish Bhaskar | 11:00 a.m. | Access to Higher Education for Migrant High School Students |
| 17 | The Effects of Choice on Exercise Contingencies for Children
Heather Waldron; Marianne Jackson, Ph.D, BCBA-D | 11:15 a.m. | Comparing the Effectiveness of EMDR & TF-CBT for Children with Posttraumatic Stress: A Meta-Analysis
Brandi Burcham, M.A., Christopher L. Smith, Ph.D., Nia L. Saunders, M.A., Dina Elfallal, M.A., Jennifer H. Lewey, M.A., & Siobhan K. O'Toole, Ph.D. |
| 18 | Healthy Diet in Action Workshops for Latino Families
Maribel Barragan, William Evans, Skylar Nguyen, Tayler Kelley, Danae Dubberke, Sara Rima, Jasmin Mahfoud, Karina Ortega, & Amber Hammons | | |
| 19 | Effects of Forest Fire on Soil Water Repellency
Micheale Easley, Kaitlyn Willems, Alan Gallegos, Dr. Zhi "Luke" Wang | 11:30 a.m. | Preliminary Results from an I.M.P.A.C.T. Model Implementation in a Four Specialty Training Clinic
Shawn B. Hersevoort, M.D., M.P.H., Andrew W. Goddard, M.D. |
| 20 | Screening of Transgenic <i>Dunaliella Primolecta</i> for Wastewater Treatment
Chirag Vazirani, Alejandro Hernandez, Yadira Andrade and Alejandro Calderon-Urrea | | |
| 21 | Prey Selectivity in <i>Utricularia vulgaris</i>
Rayhan Kabir, Nolan Avery, Maxwell Hall, Ulrike Muller, Otto Berg | | |
| | | 11:45 a.m.
12:15 p.m. | Break – University Business Center, Gottschalks Gallery
Plenary Session |

Concurrent Session F

University Business Center

Room 194

Poster Session II

11:00 a.m. until 12:30 p.m.

University Business Center

Gottschalks Gallery

10:30 a.m. **Consumer Willingness to Pay for the Fresno State Wine Brand: A Case Study of Wine**

Lindsey Anderson, Hannah Rocha, and Dr. Todd Lone

10:45 a.m. **Analysis of Competition among Input Suppliers in the Cotton Sector of California**

Dr. Srinu Konduru, Kelsie Raulino

11:00 a.m. **Hyperloop Schedule Design: Fleet Size and Traveler Delay Tradeoffs for 2 Case Studies**

Annemarie Schwanz, Sally Thor

11:15 a.m. **Effects of Grape Juice Concentrate on the Microbial Load in Fresh Ground Beef**

Marco Camarena, Erica Hau, Sarah Laughlin, Kelli Williamson

11:30 a.m. **Establishing the Microbial Profile of Restaurant Menus**

Kady Francone, Alejandro Madrigal, Mario Navarrete, Tukta Phetasa

11:45 a.m. **Establishing the Microbial Profile of Tables in a University Library**

Penny Lor, Shanon Range, Shengchuan Peter Tan, Mai Yang

11:45 a.m. Break – University Business Center, Gottschalks Gallery
12:15 p.m. Plenary Session

Authors will be available for questions from 11:00 a.m. until 12:30 p.m.

1 Synthesis and Anti-Proliferative Effects of 3-O-Alkylquercetins and Benzophenone Quercetin-3',4'-O-Ketals

Kevin Yu, Xiaojie Zhang, and Qiao-Hong Chen

2 20-O-Alkyl-2,3-Dehydrosilibinins: Synthesis and Anti-Proliferative Effects Toward Prostate Cancer Cells

Bao Vue, Timmy Lee, Sheng Zhang, Xiaojie Zhang, and Qiao-Hong Chen

3 Rescuing Behavioral Effects Caused by the Homozygous White Background (w¹¹¹⁸) Commonly used in *Drosophila melanogaster*

Priyanka Lakkaraju

4 The Effects of α -synuclein on Behavioral Dysfunction in the Parkinson's Disease Model *Drosophila Melanogaster*

Daeun D. Hwang, Maineng Thao, Maram Copper, Mnal Hussein, David D. Lent

5 Synthesis of Asymmetric 1,5-Diheteroarylpentadien-3-ones as Anti-Prostate Cancer Agents

German Ruiz, Xiaojie Zhang, Chengsheng Chen, Rubing Wang, and Qiao-Hong

6 Introgression of the *him5* mutation into the GFP strains ST65 and PD4251 of *Caenorhabditis elegans*

Shoghig Stanboulian, Sosse Kendoyan (Undergraduates), Joseph Ross, and Alejandro Calderón-Urrea

7 A Potential Impact of Climate Change on Fitness in *Caenorhabditis Briggsae*

Atahualpa Contreras

8 Does Maternal Obesity Predict Increased Risk of Cesarean Section at Community Regional Medical Center (CRMC)?

Marian Pak, DO, Sharon Buzi, MD

9 A Pilot Study: A Comparison of Therapeutic Exercise with Remote Trigger Switch Electrical Stimulation Cueing, and Therapeutic Exercise with a Sham Cue, for a Motor Learning Effect in Scapular Dyskinesia

Walker DL, Hickey CJ, Tregoning MB

10 Evaluation of the Effects of Controlled Burning in the Sierra Nevada Forests on Erosion and Forest Restoration

Kaitlyn Willems, Micheale Easley, Alan Gallegos, and Dr. Zhi (Luke) Wang

11 Carnivorous Plants Show that the Size of Suction Feeders is Limited by Fluid Mechanics

Nolan Avery, Rayhan Kabir, Maxwell Hall, Ulrike Muller, Otto Berg, Juan Villalobos, Magaly Herrera, Ricardo Ramirez

Poster Session I continued
9:00 a.m. until 10:30.a.m.

University Business Center
Gottschalks Gallery

Plenary Session

University Business Center
Auditorium, 191

Authors will be available for questions from 9:00 a.m. until 10:30 a.m.

- 12** ***Impacts of Atmospheric Oxidation on the Cellular Toxicity of Cigarette Smoke***
Robyn Verhalen and Arjun Mann
- 13** ***Patient Satisfaction and Factors Related to Patient-Doctor Relationships***
Satjit Sanghera, MD; Alex Soto, MD; Mary Fraijo, LVN; Susan Hughes, MS; and Judy Ikawa, MS
- 14** ***Dynamically Scaled Model of the Bladderwort***
Hidalgo, F., Munoz-Ruiz, E.F., Müller, U.K., Berg O.
- 15** ***Mediated Realities: Identifying Themes in Digital Parenting News Magazine Content***
Alecia Ram (undergraduate), Alexis Seiler (undergraduate), Aimee Rickman, Ph.D.
- 16** ***Implementation of Practices and Technology to Reduce Air Emissions***
Frank Baggiolini
- 17** ***The Effects of Early Exposure of Caffeine in the Diet of Drosophila Expressing Tau Pathology***
April Booth, Ashley Her, Damaris Lambrecht, Meganne Weissenfels, Haley Chapman and David Lent
- 18** ***Gathering Qualitative Data From Hispanic Families Concerning Eating, Exercising Habits and Frequency of Shared Family Mealtimes***
Danae Dubberke, Sara Rima, Jasmine Mahfound, Karina Ortega, Maribel Barragan, William Evans, Skylar Nguyen, Tayler Kelley, Amber Hammons
- 19** ***The Hidden Bell-Weather: An Examination of Political Ideology in the Filipino-American Community***
Edward Berdan
- 20** ***Development of a Prosthetic Knee with Magnetorheological Fluid***
Alan Suarez, Saurabh Bapat, The Nguyen
- 21** ***Age Classification Using Feature Selection***
Nidhi Arora
- 22** ***A study to Identify Disrupted Genes in Mycobacterium Smegmatis Transposon Mutants***
Jennifer Espinoza and Natsinet Ghebrendrias, Dr. Mamta Rawat
- 23** ***Differential Urban Biotic Filtering in Three Desert Cities in the USA***
Chris Hensley, Dr. Madhu Katti

12:15 p.m.

Opening Remarks and Welcome

Dr. Thomas McClanahan, California State University, Fresno

12:25 p.m.

Generalizing the Futurama Theorem

Jennifer Elder

12:40 p.m.

Intergenerational and Cultural Perceptions of Buddhist Practices and Beliefs in Northern Thailand: A Dyadic, Multi-Sited Study

Tsutsui, S., Prakash, S., & McKenzie, J.

12:55 p.m.

The Effects of Water Availability and Landscaping Practices on Bird Communities in the Central Valley of California

Stephanie Slonka (MS Student), Dr. Madhusudan Katti, Pedro Garcia, and Bradley Schleder

1:15 p.m.

1:30 p.m.

**Break – University Business Center, Gottschalks Gallery
Concurrent Session Resume**

1:30 p.m.

Synthesis of Isoprene Peroxide Derivatives

Dylan Manning, Vinay Kumar, Alam Hasson, Santanu Maitra

1:45 p.m.

p-Nitrophenolate Colorimetric Assay: A Tool for the Study of Light-Driven P450 Enzymes

Quan Lam, Professor Lionel Cheruzel

2:00 p.m.

Determination of the A β 1-42 Structure in the Presence of β -Methylamino-L-Alanine

Benjamin Tanielian, Joy J. Goto

2:15 p.m.

Investigation of BMAA on Metal- A β Toxicity

Alexandra D. Saxberg*, Joy J. Goto, Peter Faller

2:30 p.m.

Synthesis and Cell-Based Evaluation of 1,7-Diarylheptatrien-3-ones with Different Terminal Aromatic Rings

Rubing Wang, Chengsheng Chen, Cristian Sarabia, Xiaojie Zhang, and Qiao-Hong Chen

2:45 p.m.
3:00 p.m.**Break – University Business Center, Gottschalks Gallery
Concurrent Session Resume**Authors will be available for questions from 9:00 a.m. until 10:30 a.m.

- 1 **The Feared Complication: Naloxone-Induced Flash Pulmonary Edema**
Abbas Hasnain, M.D., J.D.
- 2 **Demographic, Clinical, and Cognitive Characteristics Among Civilly Committed Sexually Violent Predators**
Ryan Ditchfield, Laura Echevarria
- 3 **Discovering the Microbiome and Resistome of Crows Across the Rural-Urban Gradient**
Lee Nelson, Tricia Van Laar
- 4 **Kinetic and Product Yields of the Gas-Phase Reactions of Isoprene Hydroperoxides with Atmospheric Oxidants**
Vinay Kumar, Edwin Lozano, Dylan Manning, Santanu Maitra, Alam Hasson
- 5 **Nematicidal Activity of Pryolignous Acid from Softwood and Almond Shell on *C. elegans***
Shoghig Stanbouljan, Sosse Kendoyan (Undergraduates), and Alejandro Calderón-Urrea
- 6 **Laser Capture Microdissection and Mass Spectrometry: A Novel Method to Study the Proteome of Cell Projections**
Shravan Kannan and Karine Gousset
- 7 **Single-Domain Antibody that Neutralize *Listeria* Invasion**
Moeko Toride, Teresa Brooks, Ian Huh, Cory L. Brooks
- 8 **Distribution of Nanoparticles in Food and Effects on Behavioral Responses and Biology of *Solenopsis Xyloni* (Hymenoptera: Formicidae) Colonies**
Julie J. Pedraza, Jorge M. Gonzalez, Yunyun Chen, Hong Liang
- 9 **Electronic Cigarette Solution and Vapor Analysis with GC-MS and LC-MS**
Alyssa Anrig, David Jones, Michael Lazernik, Traci Leung, Eric McIntosh, Patrick Myers, Jackson Xiong, Michael Yang, Brian Shamp and Derek Dormedy
- 10 **Dispositional and Situational Correlates of Success in Residential Substance Abuse Treatment**
Keith Edmonds, Danielle Baker, Spee Kosloff Ph.D., Jennifer C. Veilleux
- 11 **Testing the Efficacy of Bio-Insecticides to Control *Lygus* Bugs (Hemiptera: Miridae) in Alfalfa Seed Production**
Francisco Llamas-Gonzales¹, Bruce Roberts¹, Antonino Cusumano² & Jorge M. González¹

1:30 p.m.

Does Traffic Congestion Prevent Us from Making Trips?

Peyvand Hajian and Aly Tawfik, PhD

1:45 p.m.

Time-Dependent Electromagnetic Fields and 4-Dimensional Stokes' Theorem

Ryan Andosca

2:00 p.m.

Vacuum States in Quantum Field Theory

Alaric Doria, Gerardo Munoz

2:15 p.m.

A.S.A.P.: Automated System for Accurate Parking

Harleen Gulati (Master's student)

2:30 p.m.

Littlest Higgs Model with T-Parity

Marijus Brazickas

**2:45 p.m.
3:00 p.m.**

**Break – University Business Center, Gottschalks Gallery
Concurrent Session Resume**

Concurrent Session I

University Business Center
Room 194

1:30 p.m. **Nature's Influence on Perceptions of Control over One's Life and Overall Well-Being**
Veronica Martinez and Jenna Kieckhaefer, Ph.D.

1:45 p.m. **"He Said, She [May Not Have] Said": Examining the Impact of Gender on the Self-Reporting of Transgressions**
Samantha Luna and Jenna Kieckhaefer, Ph.D.

2:00 p.m. **Your Life is Our Business: An Aircrew Flight Equipment Airman's Look at Language in the Workplace**
Felicia Avendano

2:15 p.m. **She Calls Me Her Lost Lamb**
Christina Martinez, Kathleen Dyer

2:30 p.m. **Microbial Profile of Ketchup Bottles in Restaurants**
Joseph Artellan, Xiaotong Amber Chen, Marcos Ponce

2:45 p.m. **Break – University Business Center, Gottschalks Gallery**
3:00 p.m. **Concurrent Session Resume**

Concurrent Session L

University Business Center
Room 194

3:00 p.m. **Dynamic Radiography Acquisition Software System for Computed Tomography Applications**
Rahul Nunna, Ismael Perez, Edward S. Jimenez, Kyle R. Thompson

3:15 p.m. **LGBTQ Identity and Religious Identity**
Jose Leanos

3:30 p.m. **How Latina Lesbian Mothers are Parenting their Children in Relation to Religion**
Cecilia E. Knadler

3:45 p.m. **An Anthropological Perspective of Multicultural Aspects in Autism Spectrum Disorders**
Jennifer Marie Davis

4:00 p.m. **Booty, Beauty, & Fame: Media Protrayals of Jennifer Lopez and Sofia Vergara**
Maria Villanueva

4:15 p.m. **Childhood Obesity Prevention Ads: Then and Now**
Elba Scherer

Proceed to Student Award Presentations and Reception

Concurrent Session K

University Business Center
Room 192

3:00 p.m. ***The Potential of Silibinin Derivatives in Prostate Cancer Managements***
Bao Vue, Sheng Zhang, Xiaojie Zhang, Michael Huang, Timmy Lee, Guanglin Chen,
and Qiao-Hong Chen

3:15 p.m. ***Building Rapport in a Witness Interview: Investigating Whether or Not Rapport Influences Interviewee Behaviors and Accuracy***
Jenna Kieckhafer

3:30 p.m. ***Computational Fluid Dynamics (CFD) Analysis of a Drip Line Hydrocyclone***
Deify Law, Ph.D.

3:45 p.m. ***Relationship Between Perceived Social Work Students' Statistics Anxiety and Instructor's Immediacy: Implications for Teaching***
Martha Vungkhanching, Ph.D.

4:00 p.m. ***Correlating Morphology and Genetic Assessment for Embryo Selection in Art***
Mai Tran, MD, MPH, Carlos Sueldo, MD

4:15 p.m. ***Payer Mix of Patients Transferred to a Level I Trauma Center: A Multidisciplinary Comparison***
Cody Pehrson, MD, Eric Lindvall, DO

Proceed to Student Award Presentations and Reception

Concurrent Session J

University Business Center
Auditorium 191

3:00 p.m. ***Effect of Thermal Stress on Reproduction in *P. Cinctipes****
Hailey Salas, Robert Delmanowski, Brian Tsukimura

3:15 p.m. ***Occupancy, Habitat Use, and Seasonal Fluctuations of Medium to Large Mammalian Predators and Omnivores in Sierra Nevada Foothill Oak Woodland***
Ryan M. Smith and Paul R. Crosbie

3:30 p.m. ***Suction Trap Capture Efficiency of *Utricularia Vulgaris*, a Carnivorous Plant***
Maxwell Hall, Otto Berg, Ulrike Müller

3:45 p.m. ***The Effect of Local Flower Distribution on the Foraging and Communication Behavior of the Common Eastern Bumblebee, *Bombus Impatiens****
AP Lange, P Yang, E Arteaga, NK Bains, A Mohamed, C Morazan, DD Lent

4:00 p.m. ***Genetic Analysis of Persister Cell Formation in *Pseudomonas Aeruginosa****
Saika Esani and Tricia Van Laar

4:15 p.m. ***A Study on Microbial Contamination of Television Remote Controls***
Teddy J. Alvarado, Nathan Anderson, Brandon Goepfner, Emily Thompson

4:30 p.m. ***Playing a Rigged Game: Effects of Inequality on Physiological Stress Responses***
Rhanda Rylant Concluding Remarks

Proceed to Student Award Presentations and Reception