
33rd ANNUAL
CENTRAL CALIFORNIA RESEARCH
SYMPOSIUM
PROGRAM

Convened on
Friday, April 13, 2012
in the
University Business Center
California State University, Fresno

Concurrent Session A

University Business Center
Auditorium, Room 191

- 9:00 a.m. ***Function and Expression Dynamics of Rho, Rac and Cdc42 Genes in the Starlet Sea Anemone, Nematostella vectensis***
Setareh Khalili, Craig R. Magie, Ph.D.
- 9:15 a.m. ***The Effects of Chronic Cortisol on Growth in a Fish Model (Oreochromis mossambicus)***
Elizabeth Braschayko, Larry Riley, Ph.D.
- 9:30 a.m. ***Environmental Effects on Non-Native Copepod Distributions in Upper San Francisco Bay***
Steven Gong, Brian Tsukimura, Ph.D.
- 9:45 a.m. ***Prey Capture in Bladderwort, the Fastest Known Suction Feeder***
Matthew Brown, Roi Holzman, Otto Berg, Ulrike K. Müller, Ph.D.
- 10:00 a.m. ***Bacterial Endophytes of Conifers Buds***
Emily C. Wilson, Carolin Frank, Ph.D.

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

12:15 p.m. **Plenary Session**

Concurrent Session B

University Business Center
Room 192

- 9:00 a.m. ***A Variable Power Supply for Process Automation Application: Analysis, Design, Testing and Validation***
Edward Araya, Nitaigour Mahalik, Ph.D.
- 9:15 a.m. ***The Role of Documentation Categories for the Integration of Complex Automated Processing Machines and Making It Operational: A Case Study***
Zack Flecher, Nitaigour Mahalik, Ph.D.
- 9:30 a.m. ***Development of Automated Concentrated Solar Thermal Power System for Air Conditioning Applications***
Robert Ceja, Nitaigour Mahalik, Daming Zhang, Ph.D.
- 9:45 a.m. ***Differentiation of Insulin-Producing Cell Clusters from Mouse Embryonic Stem Cells without Embryoid Body Formation***
Christa D. Caneda, Jesus Ciriza, Jennifer O. Manilay, Ph.D.
- 10:00 a.m. ***Conservation Genetics of the Red Hills Roach (Cyprinidae: Lavinia symmetricus ssp)***
Morrell Chhay, Tim Heyne, Jennifer O'Brien, Andres Aguilar, Ph.D.

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

12:15 p.m. **Plenary Session**

Concurrent Session C

University Business Center
Room 286
Dean's Conference Room

- 9:00 a.m. ***On Legendre Multiplier Sequences***
Katherine Urabe, Emily Davis, Kelly Blakeman, Tamas Forgacs, Ph.D.
- 9:15 a.m. ***Well-Covered Dimension of Products of Graphs***
Megan Kuneli, Robyn McDonald, Katherine Urabe, Oscar Vega, Ph.D.
- 9:30 a.m. ***Grim: A Subtraction Game on Finite Graphs***
Jamie Peabody, Karen Willis, Oscar Vega, Ph.D.
- 9:45 a.m. ***Construction of an AC Magnetic Susceptometer***
Ryan Fukuda; Andres Felipe Vargas; Smitha Sunny, Pei-Chun Ho, Ph.D.
- 10:00 a.m. ***Role of Omega-3 fatty Acids in Biological Membranes: Possible Reasons for Beneficial Health Outcomes***
Stephanie Chen, Chai Lor, Linda S. Hirst, Ph.D.

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

12:15 p.m. **Plenary Session**

Concurrent Session D

University Business Center
Room 194

- 9:00 a.m. ***The Dandy in 'earnest': Oscar Wilde's Spiritual Aestheticism***
Kristin Baer, Ruth Jenkins, Ph.D.
- 9:15 a.m. ***"Developing Community: Storytelling in Laila Halaby's *West of the Jordan*"***
Lena Zaghmouri, Randa Jarrar, Ph.D.
- 9:30 a.m. ***Behind The Comedy Mask: The Serious Function of Humor in the Works Of Behn, Austen, and Gaskell***
Cheri Y. Halvorson, Ruth Jenkins, Ph.D.
- 9:45 a.m. ***Kenneth Burke's Pentad Position(ed) to Evaluate the Black Women in Tyler Perry's***
Aishah K. Cope
- 10:00 a.m. ***Domain-initial Articulatory Strengthening Revisited: The Case of Second Language Acquisition***
Mitchell Baroni, Keith Johnson, Ph.D.

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

12:15 p.m. **Plenary Session**

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

University Business Center
Gottschalks Gallery

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

- (1) ***21st Century Women in 19th Century Dress***
Heather Sisk, Shelby Art, Elizabeth Payne
 - (2) ***Working Memory Capacity is not reduced by Songs that are ‘Stuck in Your Head’***
Brooke Okada, Antarpreet Kaur, Robbyn Wood, Karl M. Oswald, Ph.D.
 - (3) ***Cultural Differences in Perception of Self-Concept Consistency***
Ruth Lichtenstein Robert Levine
 - (4) ***The Effects of Distributed Learning and Dissimilar Intervening Material on Consistency of Recall***
Mary K. Varner, Danielle Escobar, Allyson McCaffrey, Karl Oswald, Ph.D.
 - (5) ***Evaluating Betting as a Tool for Improving Metacognitive Calibration***
Jesus Gonzalez, Celeste Pilegard, Karl Oswald, Ph.D.
 - (6) ***The Effects of Compliments on Helping Behavior***
Leigh Perreault, Honora Chapman, Ph.D.
 - (7) ***Vertical Ozone and Boundary Layer Profiles at a Dairy Facility in Central California***
Ryan McHenry, Segun Ogunjemiyo, Ph.D.
 - (8) ***Using Direct Reinforcers To Improve Reading Comprehension In Children With Autism***
Elizabeth Foley and Amanda Adams, Ph.D.
 - (9) ***Three-dimensional Escape Trajectories in Larval Fish***
Darius Khorshidchehr, David Ryan, Ulrike K. Müller, Ph.D., Otto Berg, Karla E. Feitl, Matthew J. McHenry
 - (10) ***Proteomic Evaluation of A Caveolae-Enriched Fraction from Different Integrin Backgrounds: Implications for Tumor Cell Motility***
Jinsha Liu, Lianji Jin, Jason Bush, Ph.D.
 - (11) ***cancelled***
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Poster Session I continued
9:00 a.m. until 10:30 a.m.

University Business Center
Gottschalks Gallery

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

- (12) ***Association Mapping of Tolerance Genes in Populus Clones with the Use of Simple Sequence Repeat (SSR) Markers and Candidate Genes***
Nathan Follen, Kyan Salehi, Jim Prince, Ph.D.
- (13) ***Identification and Relevance of Stem Cell Markers in Pancreatic Cancer Cell Lines***
Megha Kumar, Steven Miller, Kristin Herring, Joel Ramirez, Lulu Wong, Rowena Chu, Julie Jin, Jason Bush, Ph.D.
- (14) ***Molecular Dynamics Simulations of Protein Enantiomers***
Cierra Coffman, V. V. Krishnan, Ph.D.
- (15) ***Determination of Molecular Self-Diffusion Coefficients Using Pulsed-Field-Gradient NMR: An Experiment for Undergraduate Physical Chemistry Laboratory***
Jennifer Harmon, Cierra Coffman, Spring Villarrial, Steven Chabolla, Kurt Heisel, V.V. Krishnan, Ph.D.
- (16) ***Physical Property Solutions Applied To Recycling Problems***
Gregory Harnden and Ryan Dougherty Melissa L. Golden, Ph.D.
- (17) ***Green Catalytic Activation of Hydrogen Peroxide by Organochalcogenide Compounds***
Keilah Villines, Edwin Lozano, Michael Drake, Ph.D.
- (18) ***Kinetics of the Gas-Phase Reaction of Hexanal with Chlorine Atoms***
Aroob Abdelhamid, Lucas Algrim, Austen Scruggs, Lucien Nana-Yobo, Alam Hasson , Ph.D.
- (19) ***The Effects of Manganese Ion on Oxidative Stress in a Drosophila melanogaster Parkinson's-like Model***
Shereen Dimes, Joy Goto, Ph.D.
- (20) ***Effects of β -N-oxalylamino-L-alanine (BOAA) on the Viability and Locomotory Behavior of Drosophila melanogaster***
Riann J. Egusquiza, Joy J. Goto, Ph.D.
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Poster Session I continued
9:00 a.m. until 10:30 a.m.

University Business Center
Gottschalks Gallery

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

- (21) ***Groundwater Elevations in a Gold-Mined Merced River Floodplain***
Lynn Sullivan Martha Conklin, Ph.D., Teamrat Ghezzehei, Ph.D., Joseph Merz, Ph.D., Martha Conklin, Ph.D.
- (22) ***Exploring Asynchronous Flight-Muscle Activation In Insects through a Bio-Mimetic Flapping Machine***
Songita Choudhury, Dinesh K. Manikkam, Otto Berg, Ulrike Müller, Ph.D.
- (23) ***How Bladderwort Catch Prey: Hydrodynamic Models of a Suction-Feeding Carnivorous Plant***
Adrienne Olaiivar, Otto Berg, Ulrike Müller, Ph.D.
- (24) ***Optimization of Mixed Design For Permeable Concrete***
Daisy Manivong, Jameson Schwab, Jesus Larralde, Ph.D.
- (25) ***Reusble and Heterogeneous Smart Phone Application Development***
Adam Cardenas, Shih-Hsi "Alex" Liu, Ph.D.

12:15 p.m.

Plenary Session

Concurrent Session E

University Business Center
Auditorium, Room 191

- 10:30 a.m. ***Some Studies on Waste Reduction Management Strategy for Irrigation Related Products: Methodology, Automation and Process Planning***
Varun Maradana, Nitaigour Mahalik, Ph.D., Tony Au, Ph.D., Alam Hasson, Ph.D.
- 10:45 a.m. ***Air-Pollution Control Techniques in a Glass Manufacturing Process***
Gurjeet Sarao, Nitaigour Mahalik, Ph.D., Tony Au, Ph.D.
- 11:00 a.m. ***Concentrations of Selected Organics Downwind from a California Dairy***
Srikar Middala, Austen Scruggs, Kennedy Vu, Laxmi R. Addala, Lucien Nana, Catalina Olea, Julie Steele, Thomas C. Shelton, Brenda Osborne, James R. McHenry, Segun Ogunjemiyo, Ph.D., Shawn Ashkan, Ph.D., Alam Hasson, Ph.D.
- 11:15 a.m. ***Entropic Derivation of Newton's Second Law ($F=ma$) for Circular Motion***
Michael Duncan, Douglas Singleton, Ph.D.
- 11:30 a.m. ***Agni: Smartphone based Inventory Management System***
Tejasvi Chudasma, Ming Li, Ph.D.

12:15 p.m. **Plenary Session**

1:30 p.m. – 1:45 p.m. **Break- University Business Center, Gottschalks Gallery**

Concurrent Session F

University Business Center
Auditorium, Room 192

- 10:30 a.m. ***Generation and Characterization of M. smegmatis Mutants Disrupted in Mycothiol Metabolism***
Kathryn Barretto, Mamta Rawat, Ph.D.
- 10:45 a.m. ***Mycobacterium Smegmatis Mutants Sensitive to Thiol-Oxidizing Agent Diamide***
Ruzan Orkusyan, Mamta Rawat, Ph.D.
- 11:00 a.m. ***Development of a Nanodetection Assay for Heartworm using qPCR with SYBR Green***
Kristen Andreasen, Alejandro Calderon-Urrea, Ph.D., Paul Crosbie, Ph.D.
- 11:15 a.m. ***Effects of Se-enriched Meal on Growth Performance and Endocrine Control of Growth in Tilapia (Oreochromis mossambicus)***
Temperance R. Rowell, Gary Bañuelos, Larry G. Riley, Ph.D.
- 11:30 a.m. ***Bacillthiol-S-Transferase are Involved in the Detoxification of toxins***
Shayla Duran, Mamta Rawat, Ph.D.

12:15 p.m. **Plenary Session**

1:30 p.m. – 1:45 p.m. **Break- University Business Center, Gottschalks Gallery**

Concurrent Session G

University Business Center
Room 286
Dean's Conference Room

- 10:30 a.m. ***Does Endometrial Injury Enhance Embryo Implantation?***
Carolina Sueldo, Claudio Benadiva, John Nulsen
- 10:45 a.m. ***Penny Ingestion & Zinc Toxicity in the Pediatric Population: An Issue of Common Cents***
Quinton Young, John Kinnison, Ph.D., Michael Haight
- 11:00 a.m. ***Parental Health Literacy in the Neonatal Intensive Care Unit***
Philip Cheng, M.D.; Serena Yang M.D., MPH; Steven Zuniga, Ph.D., Stephen Elliott, M.D.
- 11:15 a.m. ***Factors Affecting the Hmong's Attitude towards Modern Medicines in Fresno City***
Mohammad A Rahman, Joe Cha
- 11:30 a.m. ***Exploring the Development of Dual Degree MSW/MBA Programs in the U.S. and It's Impact on Social Work Profession***
Martha Vungkhanching, Ph.D., Pajtshiab Vang

12:15 p.m. **Plenary Session**

1:30 p.m. – 1:45 p.m. **Break- University Business Center, Gottschalks Gallery**

Concurrent Session H

University Business Center
Auditorium, Room 194

- 10:30 a.m. ***To Whom it May Concern: Auditing and Recommending Uses of Email for an Organizational Unit at Kaiser Hospital***
David C. Horwitz, Marnel Niles Goins, Ph.D.
- 10:45 a.m. ***The Impact of the Implementation of Pre-Laboratory Quizzes in a General Chemistry Course***
Elizabeth Buchnoff, Eric Person, Ph.D.
- 11:00 a.m. ***Identifying And Exploring Factors That Influenced Successful Latino College Graduates***
Leticia Lasota, Albert Valenica, Ph.D.
- 11:15 a.m. ***Teacher Self-Efficacy In Working With Students On 504 Plans***
Abigail Aarii, Virginia Rondero Hernandez, Ph.D.
- 11:30 a.m. ***Changes in Counselor Trainee General and Counseling Domain Self-Efficacy***
Victoria Kubal, Albert Valencia, Ph.D.

12:15 p.m. **Plenary Session**

1:30 p.m. – 1:45 p.m. **Break- University Business Center, Gottschalks Gallery**

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

University Business Center
Gottschalks Gallery

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

- (1) ***Optimizing in Vitro Propagation Of Douglas Fir (*Pseudotsuga Menziesii*) for use in Pacific Northwest Timber Industry Reforestation Efforts***
Kevin Flynn, Sheri Melkonian, David Moreno, John T. Bushoven, Ph.D.
 - (2) ***Potential of Using Vermicompost Tea to Optimize Growth and Yield of Bell Peppers***
TariLee Frigulti, Prasad Yadavali, Dave Goorahoo, Ph.D.
 - (3) ***Effect of Organic and UAN-32 Fertilization on Bok Choy Yield and Soil Properties***
Touyee Thao, Dave Goorahoo, Ph.D.
 - (4) ***Effect of Irrigation, Surfactant and Fertilizer Rates on Chlorophyll Content in Tomato Leaves***
Josue Samano- Monroy, Navreet K Mahal, Florence Cassel Sharma, Ph.D., Caio Cesardiaz, Dave Goorahoo, Ph.D.
 - (5) ***Determining the Habitat Preference of Sand Lance (*Ammodytes hexapterus*) using Multibeam Bathymetry in the San Juan Islands, Washington.***
Elizabeth Davidson, H. Gary Greene, Fraka Harmsen, Ph.D.
 - (6) ***KaiC CII-CI Ring Interaction Regulates KaiB Binding***
Ian Bravo, Robert Latham, Roger Tseng, Yong-Gang Chang, Andy Li Wang
 - (7) ***The Effects and Function of the Hypothalamic-pituitarythyroid Axis on Fasting Northern Elephant Seals***
Bridget Martinez, Jose Guadalupe Sonanez, Ruben Rodriguez, Jose Viscarra, Jose Pablo Vasquez-Medina, Rudy M Ortiz
 - (8) ***Understand the Timing Mechanism of Circadian Clock Proteins***
Abdullah Chaudhary, Roger Tseng, Claudia Lekhac, Yong-Gang Chang, Andy Li Wang
 - (9) ***Construction of an AC Magnetic Susceptometer***
Andres Felipe Vargas; Ryan Fukuda; Smitha Sunny, Pei-Chun Ho, Ph.D.
 - (10) ***Finite Pulse Relaxation Calorimetry and Specific Heat of NdOs4Sb12***
Pei-Chun Ho, Ph.D.
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Poster Session II continued
11:00 a.m. until 12:30 p.m.

University Business Center
Gottschalks Gallery

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

- (11) ***The Outbursts of the Cataclysmic Variable V425 Cassiopeiae***
Dillon T. Trelawny, F. A. Ringwald, Ph.D.
 - (12) ***Improved Simulations to Search for New Physics at ATLAS***
Navid Rad, Yongsheng Gao, Ph.D.
 - (13) ***Jets in ATLAS Data from Fresno's Tier 3 Computing System***
Arya Afshari, Yongsheng Gao, Ph.D.
 - (14) ***Effect of Irrigation, Surfactant and Fertilizer Rates on Nitrate Levels in Tomato Leaves***
Navreet K Mahal, Dave Goorahoo, Ph.D. Florence Cassel Sharma, Ph.D.
 - (15) ***Yield, Fruit Quality and Plant Nutrition of Tomatoes Subjected to Elevated Carbon Dioxide***
Bardia Dehghanmanshadi, Florence Cassel Sharma, Ph.D., Dave Goorahoo, Ph.D., Shawn Ashkan, Ph.D.
 - (16) ***Modeling Hydroecological Effects of Tephra Layers in Sierra Nevada Meadows***
Chelsea L. Arnold, Teamrat Ghezzehei, Ph.D., Asmeret Asefaw Berhe
 - (17) ***The localization of Vitellogenin gene expression by RNA in situ Hybridization in Banana Shrimp (Fenneropenaeus merguensis de Man)***
Peerapong Puengyam, Prapaporn Utarabhand, Brian Tsukimura, Ph.D.
 - (18) ***Evaluation of Pesticide Involvement in Breast Cancer Cell Lines***
Kathryn Patterson, Julie Hale, Fumiko Yamamoto, Jason Bush, Ph.D.
 - (19) ***Locating the Geographical Origin of Lobesia botrana (Lepidoptera: Tortricidae): A Recent Invasive Pest to the Americas***
Matthew C. Middleton, Paul R. Crosbie, Ph.D., Kent M. Daane
 - (20) ***Reactivating Inhibited, Is Derepression Possible?***
Monica L. Gonzalez, Joseph Oloo, Jason Bush, Ph.D.
 - (21) ***A New Behavioral Assay to Quantify Locomotor Competence of Drosophila: Lenticular Arena***
Athena Goodarzi, Ulrike Müller, Ph.D.
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Poster Session II continued
11:00 a.m. until 12:30 p.m.

University Business Center
Gottschalks Gallery

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

- (22) *Anti-Angiogenic Effects of Zoledronic Acid on Osteotropic Breast Cancer*
Cynthia Contreras, Shaghayegh Morshedian, Walid Hamud, Jason Bush, Ph.D.
- (23) *Cross-Complementation of CRP and Vfr*
Sanjiva Gunasekara, Hwan Youn, Ph.D.
- (24) *Propargyl Bromide Degradation In Isolated Soil Bacteria*
M. DeWall, A. Johnson, Alice Wright, Ph.D.
- (25) *Epidemiology of Inmate Exposures to Poisons in California Penal Institutions*
Sumaira Arain, M.D., Richard Geller, M.D., MPH, Robert Kezirian, M.D., Serena Huntington, Terry Carlson, Diane Strong, Richard Geller, M.D., MPH
- (26) *Self-Reported Experiences of Prenatal HIV Testing In Fresno County*
Rebeca A. Lopez, M.P.H., Roger B. Mortimer, M.D.

12:15 p.m. **Plenary Session**

1:30 p.m. – 1:45 p.m. **Break- University Business Center, Gottschalks Gallery**

Plenary Session

University Business Center
Auditorium, Room 191

12:15 p.m.

Opening Remarks and Welcome
Dr. Thomas McClanahan
California State University, Fresno

Dr. Donna Hudson
University of California, San Francisco
Fresno Medical Education Program

Dr. Joan Voris
University of California, San Francisco
Fresno Medical Education Program

12:25 p.m.

Calcium Induced Differentiation of Mouse Embryonic Stem Cells into Cardiomyocytes

Megha Kumar, Simarjot Chehal, Amandeep Singh, Kristin Herring, Jason Bush, Ph.D.

12:40 p.m.

Comparison of Geologically-Averaged Paleomagnetic and “Instantaneous” GPS Rotation Data in the West-Central Walker Lane

Michael J. Farner, Christopher, J. Pluhar, Ph.D. Chad W. Carlson

12:55 p.m.

Yield and Forage Quality of Elephant Grass (*Pennisetum sp.*) and Sudan Grass (*Sorghum bicolor*) Irrigated with Dairy Effluent

Prasad Yadavali, Dave Goorahoo, Ph.D., Florence Cassel Sharma, Ph.D.

1:10 p.m.

Curando or Healing? Folk healing in the California Central Valley and in Guadalajara, Jalisco

Martha Nuño Diaz, James Mullooly, Ph.D.

1:30 p.m. – 1:45 p.m. **Break- University Business Center, Gottschalks Gallery**

5:00 p.m.

Concluding Address – Alice Peters Auditorium, Room 191

Fresno State and CSU's ATLAS program at LHC of CERN and ATLAS Muon Sub-detector Upgrade R&D

Emmanuel Angulo, Yongsheng Gao, Ph.D.

Proceed to Student Award Presentations and Social Hour

Poster Session III
1:30 p.m. until 3:00 p.m.

University Business Center
Gottschalks Gallery

Authors will be available for questions from 1:30 p.m. until 3:00 p.m.

- (1) ***Effectiveness of Emotive Epoc's Ability to Create Movement Using Thought***
Jesus Gonzalez, Martin Shapiro, Ph.D.
 - (2) ***Examining the Views and Perceptions of Female Genital Circumcision among Somali and European American Women***
Nadira Jama, Sandra Trafalis, Ph.D.
 - (3) ***The Role of Social Capital in Latino High School Student's Academic Success: Teacher-Student Relationships***
Nancy Cardenas, Maria Alaniz, Ph.D.
 - (4) ***The Effects of Service-Learning on Diverse Students Attending an Urban Public University***
Albertina A. Lopez, Elena Klaw, Ph.D., Sean Laraway
 - (5) ***The Body Image Psychological Inflexibility Scale: Development and Psychometric Properties***
Timothy K. Feeney, Glenn Callaghan, Ph.D.
 - (6) ***Smooth Pursuit and Saccadic Eye Movement Mechanisms***
Angelica Godinez, Dorion Liston, Ph.D.
 - (7) ***Child Language Brokers: How Young and In What Situations?***
Sarah Sanders, Stergios Roussos, Ph.D.
 - (8) ***Development Of An Adolescent Standardized Patient Visit Protocol: A Case Study With Adolescent Safer Sex Education In Community Clinics***
Marisol Chavez
 - (9) ***The Hidden Voices of Adolescents***
Marielisbet "Lisa" Perez, Claudio Vera Sanchez, Ph.D.
 - (10) ***The Face of Rape Culture at Fresno State***
Kayla Kersey, Janet Slagter, Ph.D.
 - (11) ***The Unspoken Voices of Immigrants***
Daniel Guzman, Claudio Vera Sanchez, Ph.D.
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Poster Session III continued
1:30 p.m. until 3:00 p.m.

University Business Center
Gottschalks Gallery

Authors will be available for questions from 1:30 p.m. until 3:00 p.m.

- (12) ***Risk Perception, Pesticide-related Illnesses, and Risk Communication Strategies to Minimize Pesticide Exposure among Migrant Farm Workers in California***
Carmencita Navarro, Anne Fountain, Ph.D.
- (13) ***A Look at Whether Particular Outreach Groups for Domestic Violence Victims Can Alleviate Psychological and Physical Symptoms Of Domestic Violence Abuse.***
Vilma Rizzo, Maria Ochoa, Ph.D.
- (14) ***Nicolás Guillén: Afro-diasporic Commonalities Through the Lens of Translation***
Meaghan Estrabao, Anne Fountain, Ph.D.
- (15) ***Bilingual Education: Destined or Doomed for English Language Learners***
Cynthia Salinas Garduno, Yoko Baba, Ph.D.
- (16) ***Acculturation as a Predictor of Clinical Anxiety Disorders in Collegiate Mexican-American Populations***
Adriana Sanchez, Ryan Holliday, Christine Edmondson Ph.D.
- (17) ***Plasmids with Genes for Pesticide Degradation***
Audra Iness, Christian Ramirez, Dave Deol, Alice Wright, Ph.D.
- (18) ***Why Flies Stumble – Developing Ways to Quantify the Loss of Motor Control***
Kevin Maxkwee, Danial Husain, Jerry Mekdara, Ulrike Müller, Ph.D.
- (19) ***Hispanic Farmworkers of the San Joaquin Valley with Polymorphisms in Specific Xenobiotic-Metabolizing Genes have Elevated Risk of Hormone-Dependent Cancer***
Yesenia Ibarra, Malika Sahni, Kathryn Patterson, Jessica Borba, Jason Bush, Ph.D., Paul Mills, Ph.D.
- (20) ***A New Sunflower (Helianthus) Species from Central California***
Chris Winchell, John Stebbins, John V.H. Constable, Ph.D.
- (21) ***Characteristics of Shiga toxin-producing E. coli including their Responses to Predation***
Regina Vigil, Carol Lauzon, Ph.D.
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Poster Session III continued
1:30 p.m. until 3:00 p.m.

University Business Center
Gottschalks Gallery

Authors will be available for questions from 1:30 p.m. until 3:00 p.m.

- (22) *Elevated CO₂ Has Minimal Effect On Vegetatively-Propagated Giant Reed (Arundo Donax) During The Establishment Phase*
Katrina Steinhauer, Anil Shrestha, Ph.D.
- (23) *Use of Recycled Paper Mulch for Weed Control during Establishment of Blackberries*
Sara J Alatorre, Sajeemas Pasakdee, Ph.D., Anil Shrestha, Ph.D.
- (24) *Application of Nanotechnology in Agriculture and Food: A Review*
Matt Horner, Minh Le, Saul Lopez, Nitaigour Mahalik, Ph.D.
- (25) *A Review on Recent Developments in Technology*
Steven Siqueiros, Sukhjit Singh, Angela Moua, Nitaigour Mahalik, Ph.D.
- (26) *Vegetable Oil as an Alternative Fuel to Diesel*
Ryan Chaney, Daming Zhang, Ph.D.

3:00 – 3:15 p.m.

Break- University Business Center, Gottschalks Gallery

5:00 p.m.

**Concluding Address – Alice Peters Auditorium, Room 191
Fresno State and CSU's ATLAS program at LHC of CERN and
ATLAS Muon Sub-detector Upgrade R&D**
Emmanuel Angulo, Yongsheng Gao, Ph.D.

Proceed to Student Award Presentations and Social Hour

Concurrent Session I

University Business Center
Auditorium, Room 191

- 1:45 p.m. *The Perceived Face of Criminals*
Alex Prather-Sellers, Karl Oswald, Ph.D.
- 2:00 p.m. *The Role of the Intraparietal Sulcus in the Sample Size Bias*
Nicole M. Kimura, Paul C. Price, Ph.D.
- 2:15 p.m. *Counterstories of Latinos: Examining the Campus Racial Climate in
a Private High School*
Victoria Gomez, Marcos Pizarro, Ph.D.
- 2:30 p.m. *Group Creativity: Cooperating across Disciplines*
ShayLynne Clark, Brett Cragun, Ph.D.
- 2:45 p.m. *Determinants of Remittances to Recipient Countries: A Comparative
Study of China, India, and Mexico*
Abdinasir Hersi, James Ahiakpor, Ph.D.

3:00 – 3:15 p.m. **Break- University Business Center, Gottschalks Gallery**

5:00 p.m. **Concluding Address – Alice Peters Auditorium, Room 191**
*Fresno State and CSU's ATLAS program at LHC of CERN and
ATLAS Muon Sub-detector Upgrade R&D*
Emmanuel Angulo, Yongsheng Gao, Ph.D.

Proceed to Student Award Presentations and Social Hour

Concurrent Session J

University Business Center
Room 192

- 1:45 p.m. ***A Phosphoproteomic Analysis of a *M. smegmatis* Universal Stress Protein Mutant***
Andrew Norton, Mamta Rawat, Ph.D.
- 2:00 p.m. ***Establishment of a Microplate-based Fluorescence Polarization Method for DNA-protein Interaction***
Joseph Lin, Hwan Youn, Ph.D.
- 2:15 p.m. ***Understanding the Sequence Basis of Reversed Allostery in *Xanthomonas axonopodis* CRP-like protein (Clp)***
Whitney Menefee, Hwan Youn, Ph.D., Salvador Vazquez, Stevie Ramos
- 2:30 p.m. ***Staphylococcus aureus Mutants Disrupted in Bacillithiol Metabolism are Sensitive to Xenobiotics and Oxidants***
Judy Ikawa, Mamta Rawat, Ph.D.
- 2:45 p.m. ***Laboratory Investigation of the Atmospheric Chemistry of Isoprene Hydroxynitrate***
Laxmi Ramya Addala, Catalina Olea , Srikar Middala, Kennedy Vu, Lucien Nanal Austen Scruggs, Alvaro Sosa, Santanu Maitra, Max Stephenson, Michelle Boyce, Geoffrey Tyndall, John Orlando, Alam Hasson, Ph.D.
- 3:00 – 3:15 p.m. **Break- University Business Center, Gottschalks Gallery**
- 5:00 p.m. **Concluding Address – Alice Peters Auditorium, Room 191
*Fresno State and CSU's ATLAS program at LHC of CERN and ATLAS Muon Sub-detector Upgrade R&D***
Emmanuel Angulo, Yongsheng Gao, Ph.D.

Proceed to Student Award Presentations and Social Hour

Concurrent Session K

University Business Center
Room 286
Dean's Conference Room

1:45 p.m.

See what I mean? Modeling gaze behavior for virtual demonstrators

Justin L. Matthews, Yazhou Huang, Teenie Matlock, Ph.D.,
Marcelo Kallmann

2:00 p.m.

Obscured by the Tule Fog: Rural African Americans Fade into the San Joaquin Valley

Michael Eissinger, Robin DeLugan, Ph.D.

2:15 p.m.

How Low Temperature Fire Affect Soil Structure

Ammar A. Albalasmeh, Markus Berli, David S. Shafer, Teamrat A. Ghezzehei, Ph.D.

2:30 p.m.

Effects of Fire on Ozone Production in Central California

Segun Ogunjemiyo, Ph.D.

3:00 – 3:15 p.m.

Break- University Business Center, Gottschalks Gallery

5:00 p.m.

**Concluding Address – Alice Peters Auditorium, Room 191
*Fresno State and CSU's ATLAS program at LHC of CERN and ATLAS Muon Sub-detector Upgrade R&D***

Emmanuel Angulo, Yongsheng Gao, Ph.D.

Proceed to Student Award Presentations and Social Hour

Concurrent Session L

University Business Center
Room 194

1:45 p.m. *Cultural Connection through Cultural Training in Physician Organizations*

Bayo Fagbamila Jr., Stephen Shortell, Ph.D.

2:00 p.m. *Hmong's Perceptions Toward Shaman and Herbal Medicines*

Joe Cha, Mohammad Rahman, Ph.D.

2:15 pm. *Food Insecurity and Obesity in the Popular Media*

Hector Diazm, Marjorie Freedman, Ph.D.

2:30 p.m. *What Motivates Employees to Participate in Wellness at Work Programs?*

Paul Zwama, Rudy Sanchez, Ph.D.

2:45 p.m. *Developing Effective Websites for Content Managers and End Users: Flexibility, Scalability, and Configurability Issues*

Abhijit Suprem, Srini Konduru, Ph.D., Annette Levi, Ph.D.

3:00 – 3:15 p.m. **Break- University Business Center, Gottschalks Gallery**

5:00 p.m. **Concluding Address – Alice Peters Auditorium, Room 191**
Fresno State and CSU's ATLAS program at LHC of CERN and ATLAS Muon Sub-detector Upgrade R&D

Emmanuel Angulo, Yongsheng Gao, Ph.D.

Proceed to Student Award Presentations and Social Hour

Concurrent Session M

University Business Center
Auditorium, Room 191

3:15 p.m. *Untangling the Web of Interaction: Indigenous Peoples and Missionaries at Mission Soledad*
Joshua Liggett, Charles Ettner, Ph.D.

3:30 p.m. *Giving definition to the Liminal : Door-to Door Surveying in South Dos Palos California.*
Sheila Petersen, Robin DeLugan, Ph.D.

3:45 p.m. *The Burden of "Empathy": Women Writers in Arab American Literature Post-9/11*
Neama Alamri, Randa Jarrar, Ph.D.

4:00 p.m. *Federico Garcia Lorca's Rural Trilogy: Honor, Duty, Spanish Traditional Identity, and the Conflict with the Second Republic*
Ruth A Oropeza, Mary Pickering, Ph.D.

5:00 p.m. **Concluding Address – Alice Peters Auditorium, Room 191**
Fresno State and CSU's ATLAS program at LHC of CERN and ATLAS Muon Sub-detector Upgrade R&D
Emmanuel Angulo, Yongsheng Gao, Ph.D.

Proceed to Student Award Presentations and Social Hour

Concurrent Session N

University Business Center
Room 192

- 3:15 p.m. ***The Role of Glutamate in the Insect Locomotory: A Glutamate Agonist Causes Hyperactivity and Loss of Climbing Ability in Adult Fruit Flies***
Nalong Mekdara, Ulrike K. Müller, Ph.D.
- 3:30 pm. ***HPLC Analysis to Quantify the Neurotoxic Betamethylamino-l-alanine (BMAA) Levels in Fruit Fly***
Anjaneya K. Sinha, Joy Goto, Ph.D.
- 3:45 p.m. ***How Flies Stumble: The Effects of a Glutamate Agonist on Climbing Ability in Adult Fruit Flies***
Danial Husain, Ulrike K. Müller, Ph.D.
- 4:00 p.m. ***Direct Effects of Cortisol on Appetite Regulation in the Brain of Tilapia, Oreochromis mossambicus***
Christine A. Duncan and Larry G. Riley Jr., Ph.D.
- 4:15 p.m. ***Insecticide Resistance And The Efficacy Of Ground Ulv Applications In Fresno County, Ca***
Paul R. Crosbie, Jodi J. Holeman, Anthony J. Cornel
- 5:00 p.m. **Concluding Address – Alice Peters Auditorium, Room 191
*Fresno State and CSU's ATLAS program at LHC of CERN and ATLAS Muon Sub-detector Upgrade R&D***
Emmanuel Angulo, Yongsheng Gao, Ph.D.

Proceed to Student Award Presentations and Social Hour

Concurrent Session O

University Business Center
Room 286
Dean's Conference Room

- 3:15 p.m. *Incorporation of Choice into Self-Control Training Procedures*
Laura Barcelos Nomicos, Amanda Adams, Ph.D., Grecia Mendoza
- 3:30 p.m. *The Physiological Correlates of Decision Making and Risk Taking
on a Novel Gambling Task*
Patricia E. Sanders, Martin Shapiro, Ph.D.
- 3:45 p.m. *Examining the Effects of Outcome-related Stimuli on Recycling
Behavior in a University Setting*
Angelica Aguirre, Marianne Jackson, Ph.D, BCBA-D
- 4:00 p.m. *Law Enforcement Officers' Theoretical Commitments and Their
Effects on Attitudes Toward Punitiveness*
Caitlin Grace Lynch, Yoshiko Takahashi, Ph.D.

- 5:00 p.m. **Concluding Address – Alice Peters Auditorium, Room 191**
*Fresno State and CSU's ATLAS program at LHC of CERN and
ATLAS Muon Sub-detector Upgrade R&D*
Emmanuel Angulo, Yongsheng Gao, Ph.D.

Proceed to Student Award Presentations and Social Hour

Concurrent Session P

University Business Center
Room 194

- 3:15 p.m. ***Emissions Measurements of Volatile Organic Compounds from Dairies in the San Joaquin Valley***
Catalina Olea, Kennedy Vu, Austen Scruggs, Lucien Nana, Ramya Addala, Srikar Middala, Jeff Cole, Alam Hasson, Ph.D.
- 3:30 pm. ***Chromatogram Distortion Caused by Passive Headspace Sampling of Ignitable Liquids***
Pahoua Xiong, Seth Yates, Spring Villarrial, Eric Person, Ph.D.
- 3:45 p.m. ***Impact of Instrument Variation on Chromatogram Comparison of Ignitable Liquids***
Spring Villarrial, Pahoua Xiong, Seth Yates, Eric Person, Ph.D.
- 4:00 p.m. ***The Effects of Manganese Toxicity on Motor Activity in Fruit Flies***
Bradley Kroeker, Lana R. McGinnis, Joy Goto, Ph.D.
- 4:15 p.m. ***Identification and Treatment of CHF and COPD in an Urban Pre-Hospital Setting***
Brett Sodini, Lori Weichenthal MD, Susanne Spano MD, Megann Young MD, Brandy Snowden
- 5:00 p.m. **Concluding Address – Alice Peters Auditorium, Room 191**
Fresno State and CSU's ATLAS program at LHC of CERN and ATLAS Muon Sub-detector Upgrade R&D
Emmanuel Angulo, Yongsheng Gao, Ph.D.

Proceed to Student Award Presentations and Social Hour

Poster Session IV
3:30 p.m. until 5:00 p.m.

University Business Center
Gottschalks Gallery

Authors will be available for questions from 3:30 p.m. until 5:00 p.m.

- (1) ***Traumatic Stressful Life Experiences and Metacognitive Rumination***
Ryan Holliday, Christine Edmondson, Ph.D.
 - (2) ***Altering Impressions Based on Attractiveness Through Delay Conditioning***
Leslie Flaming, Jean Ritter, Martin Shapiro, Ph.D.
 - (3) ***A Reliability Generalization of the Eating Attitudes Test (EAT) from 2008 to 2011***
Colleen E. Phillips, Chelsi King, Theresa Blakesley, Siobhan K. O'Toole, Ph.D.
 - (4) ***Maternal Incarceration and Childhood Development***
Susan Lynn Glass, Sue Kuba, Ph.D.
 - (5) ***A Standardization Study: Acculturation and Mental Health among Nigerian Immigrants in America***
Nenna Ndika, Manuel Figueroa, Ph.D.
 - (6) ***Number of Subtests Failed on the LANSE-A and LANSE-C as a Screen for Cognitive Deficit***
Megan Pollock, Jennifer L. Harrison, Amy Mouanoutoua, Ashley Brimager, Paul C. Leppy, Ph.D.
 - (7) ***Manipulating Public Policy Judgement Through Unconscious Priming***
William Kammerer, Peter English, Ph.D.
 - (8) ***Predicting Fall Risk using the 30 foot Walk Test in Low-Functioning Community Dwelling Older Adults***
Hannah Williams, PT, MPT, Peggy Trueblood, PT, Ph.D., Leslie Zarrinkhameh, PT, DPT, Cheryl Hickey, PT, Ed.D., Toni Tyner, PT, MHL
 - (9) ***A Computational Investigation of Visual Similarity Structure in the Spanish Lexicon***
Jessica Dao, Lorin Lachs, Ph.D.
 - (10) ***The Effects of Music and Gender on Emotional-Altruistic Behavior***
Melissa Spina, Troy Polnitz, Taylor Harris, Ph.D.
 - (11) ***Investigation on the Conformational Characteristics of The N-Terminal Region of Coat Protein of Brome Mosaic Virus***
Rohina Asifi, Chul Kim, Ph.D.
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Poster Session IV continued
3:30 p.m. until 5:00 p.m.

University Business Center
Gottschalks Gallery

Authors will be available for questions from 3:30 p.m. until 5:00 p.m.

- (12) ***Analysis of Conformational Influences Within (2R,3R)-butanediol***
Zoila M. Estrada, Michael D. Drake, Ph.D.
- (13) ***Fluorescence Lifetime Quenching of Au₂₅(S(CH₂)₂Ph)₁₈ and the Effect of the Carbon Chain on the Quenching Constant***
Nataly Santiago, Whalmany Ounkham, Jai-Pil Choi, Ph.D.
- (14) ***Effects of Solvents and Supporting Electrolyte on Electroreduction of C60 and C70 Fullerenes in Aprotic Solvents***
Akiteru Ikeda, Jai-Pil Choi, Ph.D.
- (15) ***Development of Chalcone-based ApoE Modulators through Structure-Activity Relationship (SAR) Study***
Martin A. Leon, Charles E. Mordaunt, Mandeep Singh, Jason T. Schott, Anthony J. Vargas, Nilay V. Patel, Santanu Maitra, Ph.D.
- (16) ***Levels of Induced Oxidative Stress in Drosophila melanogaster Exposed to an Environmental Neurotoxin***
Kang Xiong-Hang, Joy J. Goto. Ph.D.
- (17) ***NMR Analysis of the Neurotoxin L-β-Methylaminoalanine (BMAA) and the Physiological Interaction with Bicarbonate***
David Zimmerman, V. V. Krishnan, Ph.D, Joy Goto, Ph.D.
- (18) ***The Effect Of neurotoxin L-β-Methylaminoalanine (BMAA On Proteolytic Processing Of Amyloid Precursor Protein (App)***
Swetha S. Reddi, Joy Goto, Ph.D.
- (19) ***Understanding The Conformational Preference Of Intrinsically Disordered Proteins By NMR Based Solvent Perturbation: Application To The Small FG-Nucleoporin***
Kurt Heisel, V. V. Krishnan, Ph.D.
- (20) ***Development of ApoE Inhibitors by Structure-activity Relationship (SAR) Study on Triarylmethyl Amine Compounds***
Mandeep Singh, Jason T. Schott, Martin A. Leon, Robert T. Granata, Charles E. Mordaunt, Anthony J. Vargas, Nilay V. Patel, Santanu Maitra, Ph.D.
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Poster Session IV continued
3:30 p.m. until 5:00 p.m.

University Business Center
Gottschalks Gallery

Authors will be available for questions from 3:30 p.m. until 5:00 p.m.

- (21) ***A candidate Gene Strategy to Identify Resistance Genes in Pepper to Phytophthora capsici***
Deanna Arsala, Alyssa Bautista, Darshanpreet Gill, Davis Cheng, Ph.D., Jim Prince, Ph.D.
- (22) ***Bacterial Growth on and Degradation of Methyl Bromide Alternatives Chloropicrin and Methyl Iodide***
Javier Garcia, Spencer Holbrook, Christian Ramirez, Alice Wright, Ph.D.
- (23) ***A Reverse Genetics Study of Vlp, a Potential Virulence Factor, from Pseudomonas aeruginosa***
Joel Curiel, Nicholas Quitarano, Yevgeniy Mordvinov, Joy Goto, Ph.D., Hwan Youn, Ph.D.
- (24) ***Evaluation of the 5Cs Training Model for Consultations for Undergraduate Medical Education***
Jessica Weidenbach, Kenny Banh, M.D., FACEP, Brandy Snowden, MPH, CCRP, Chad Kessler, M.D., MHPE

5:00 p.m. **Concluding Address – Alice Peters Auditorium, Room 191**
Fresno State and CSU's ATLAS Program at LHC of CERN and ATLAS Muon Sub-detector Upgrade R&D
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