

# **38<sup>th</sup> Annual Central California Research Symposium**



## **Program**

**Tuesday, April 18, 2017**

**Wednesday, April 19, 2017**

**University Business Center**

**California State University, Fresno**

## **Judges for Undergraduate and Graduate Oral and Poster Presentations**

Dr. Jason Bush	California State University, Fresno
Dr. Alejandro Calderon-Urrea	California State University, Fresno
Dr. Carmen Caprau	California State University, Fresno
Mr. Doug Carey	California State University, Fresno
Dr. Steve Chung	California State University, Fresno
Dr. Collin Closek	Stanford's Center for Ocean Solutions
Dr. Paul Crosbie	California State University, Fresno
Dr. Kathleen Dyer	California State University, Fresno
Dr. Qin Fan	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. Howard Hendrix	California State University, Fresno
Dr. Alam Hasson	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. Beng Ong	California State University, Fresno
Dr. Melissa Rhea	WestCare Foundation
Dr. Elvia Rodriguez	California State University, Fresno
Dr. Tricia Van Laar	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
Ms. Becky Etheridge	California State University, Fresno
Mr. Rodrigo Gomez	California State University, Fresno
Mr. Chuck Radke	California State University, Fresno
Mrs. Melissa Rowe	California State University, Fresno

## **Event and Proceedings Coordinators**

**Millie C. Byers & Gayle Sherwood**

**California State University, Fresno**

**38th ANNUAL RESEARCH SYMPOSIUM  
Coordinating Committee**

**California State University, Fresno**

Jason Bush, PhD  
*Department of Biology*

Alejandro Calderon-Urrea, PhD  
*Department of Biology*

Brian Tsukimura, PhD  
*Department of Biology*

Saeed Attar, PhD  
*Department of Chemistry*

Alam Hasson, PhD  
*Department of Chemistry*

Beng Ong, PhD  
*Department of Marketing*

Steve Chung, PhD  
*Department of Mathematics*

Tamas Forgacs, PhD  
*Department of Mathematics*

Adnan Sabuwala, PhD  
*Department of Mathematics*

Sharon Benes, PhD  
*Department of Plant Science*

Karl Oswald, PhD  
*Department of Psychology*

Doug Carey, MA  
*Division of Research and Graduate Studies*

Maral Kismetian, CRA  
*Division of Research and Graduate Studies*

James Marshall, PhD  
*Division of Research and Graduate Studies*

Ramakrishna Nunna, PhD  
*Lyles College of Engineering*

**UCSF Fresno Medical Education Program**

Loren Alving, MD  
*Department of Neurology*

Donna Hudson, PhD  
*Academic Research and Technology*

Lisa Husak, MPH, CCRP  
*Department of Orthopaedic Surgery*

Paul Mills, PhD  
*Professor*

Michael Peterson, MD  
*Department of Internal Medicine*

Kent Yamaguchi, MD  
*Department of Surgery*

**California State University, Monterey Bay**

Justin L. Matthews, PhD  
*Department of Psychology*

**Fresno City College**  
Amanda Henry, MS  
*Department of Chemistry*

Carl Johansson, MS  
*Department of Life Science*

Rick Stewart, MS  
*Department of Biology*



April 18, 2017

Oral Presentations

**Oral Presentations – Tuesday, April 18, 2017**

Concurrent Session A

University Business Center

Auditorium 191

9:00 AM      **FUNCTIONAL SURFACE TARGET AS CONTROL AND VALIDATION OF 3-D LASER SCANNER POINT CLOUD**

*Ayad Ahmed, Scott Peterson*

9:15 AM      **DEVELOPING A TRANSIT DAILY DEMAND PROFILE FOR FRESNO: IMPACTS OF GEOGRAPHY, TIME AND TRANSPORTATION MODES**

*David Johnson, Aly Tawfik*

9:30 AM      **Simulating groundwater flow at Fresno's Leaky Acres recharge facility**

*Jeet Basa, Bijay K C*

9:45 AM      **Kalman Filter Based Z-source Inverters in Photovoltaic(PV) applications**

*Abhishek Gubbi Basavaraj, Woonki Na*

**Oral Presentations – Tuesday, April 18, 2017**

Concurrent Session B

University Business Center

UBC192

- 9:00 AM      ***A Categorical Model of Virtual Singular Braids***  
*Sarah McGahan*
- 9:15 AM      ***Symmetry of the power sum polynomials***  
*Nicholas Newsome, Maria Nogin and Adnan Sabuwala*
- 9:30 AM      ***On Contractive and Expansive Mappings in Compact Metric Spaces***  
*Edward Sichel*
- 9:45 AM      ***Modeling Conditional Variance in Financial Times Series using Bayesian Methods***  
*Jalen Harris*
- 10:00 AM     ***A Grim Presentation***  
*Samuel Barretto, Matthew Miyake*
- 10:15 AM     ***On a Spectral Gap Characterization for Scalar Type Spectral Operators***  
*Marat Markin*

**Oral Presentations – Tuesday, April 18, 2017**

Concurrent Session C

University Business Center

UBC 194

- 9:00 AM      **REDESIGNING A PHYSICAL SCIENCE COURSE FOR ENHANCED PRE-SERVICE TEACHER UNDERSTANDING**  
*Anthony Hinde, Dermot Donnelly*
- 9:15 AM      **The Atmospheric Chemistry of Thirdhand Smoke**  
*Divine Yang, Alam Hasson, Krish Krishnan, Jason Bush, Erik Rangel, Justin Vang, and Tanner Melton*
- 9:30 AM      **Dielectric Constant of a Solvent Mixture: A Major Determinant of the Keto-Enol Tautomerization Equilibrium in Acetylacetone**  
*Candice Cortney, Krish Krishnan*
- 9:45 AM      **Diarylpentadienones as chemotherapeutics for prostate cancer: Structure-activity relationship**  
*Manee Patanapongpibul, Xiaojie Zhang, Guanglin Chen, German Ruiz Peres, and Qiao-Hong Chen*
- 10:00 AM     **Measurements of Organics in Ambient PM 2.5 in Fresno California**  
*James Baroi, Alam Hasson*
- 11:45 AM     **Shooters: Psychological Characteristics in Shoot/No-Shoot Decisions**  
*Matthew Sharps, Schuyler Liao, Jana L. Price-Sharps*

**Oral Presentations – Tuesday, April 18, 2017**

Concurrent Session D

University Business Center

Auditorium 191

- 10:30 AM     ***Understanding Travel Behavior Using Data Fusion Methods***  
*Swapnil Kendale*
- 10:45 AM     ***Automatic Indoor Lighting System.***  
*Sagnik Mitra*
- 11:00 AM     ***Search for signatures of Littlest Higgs with T-parity in dijet final states with ATLAS detector***  
*Marijus Brazickas, Harinder Singh Bawa*
- 11:15 AM     ***Metaprogramming In A Functional-Programming Based Web Framework***  
*Jeevjyot Singh Chhabda*
- 11:30 AM     ***Schwinger Effect for Non-Abelian Gauge Bosons***  
*Michael Ragsdale*



**Oral Presentations – Tuesday, April 18, 2017**

Concurrent Session E

University Business Center

UBC 192

- 10:30 AM      **Analysis of Thermal Properties of Nd-doped PrOs<sub>4</sub>Sb<sub>12</sub> via Measurements of Specific Heat**  
*Shoji Hishida, Jesus Velasquez, Taylor McCullough-Hunter, Pei-Chun Ho, Tatsuya Yanagisawa, Brian Maple*
- 10:45 AM      **Web Based Machine Learning Tool and Interface**  
*Gregory Dzhezyan, Ming Li*
- 11:00 AM      **SUBSIDENCE DETERMINATION ALONG NORTH-SOUTH CROSS-SECTION LINE IN CENTRAL VALLEY, CALIFORNIA**  
*Marcelo Romero, Mike Mustafa Berber*
- 11:15 AM      **An Efficient Deterministic Edge Traffic Distribution Network-on-chip Routing Algorithm Design**  
*Eric Muller, Nan Wang*
- 11:30 AM      **Developing A Functioning Tabletop Model of Traffic-Actuated Signalized Intersection**  
*Tranice' Warner, Aly Tawfik*
- 11:45 AM      **TRANSPORTATION ART: FROM AESTHETIC VALUES TO OPERATIONAL FUNCTIONS**  
*Tahrima Alam, Tahrima Alam, Aly M. Tawfik*

**Oral Presentations – Tuesday, April 18, 2017**

Concurrent Session F

University Business Center

UBC 194

- 10:30 AM     ***Do perceptions change when the police are to blame? Examining perceptions of monetary compensation for exonerees***
- Samantha Luna, Jenna Kieckhafer, Daphne Brito, Jessica Cameron, Alyssa Diaz, Kelly George, Ryan Juan, Vanessa Lopez, Yarelli Mercado-Gonzalez, Mutsumi Ogaki, Jessica Sanchez De La Cruz*
- 10:45 AM     ***Pornography and Public Acceptance: A Step Toward Effective Regulation***
- Mutsumi Ogaki*
- 11:15 AM     ***How do police build rapport? Examining officer stated verbal techniques and their effectiveness***
- Ryan Juan*
- 11:30 AM     ***PAHs and Black carbons emitted from cooking activities***
- Jimmy Hou, Simrat Aulakh*

**Oral Presentations – Tuesday, April 18, 2017**

Plenary Session

University Business Center

Auditorium 191

12:15 PM

**Opening Remarks and Welcome**

*Dr. James E. Marshall, California State University, Fresno  
Dr. Donna Hudson, UCSF - Fresno*

12:25 PM

**Public Perceptions of Exonerees from the Criminal Justice System**

*Shelby Elia, Jenna Kieckhaefer*

12:40 PM

**The Effects of Water Use on Economic Growth: Investigating California's Surface and Ground Water Use**

*Christopher Andresen*

12:55 PM

**Are All Cities Created Equal? The Truth is Not Self-Evident**

*Chris Hensley, Jennie MacFarland, Rachel Morrow, Madhusudan Katti*

**Oral Presentations – Tuesday, April 18, 2017**

Concurrent Session G

University Business Center

Auditorium 191

- 1:30 PM      **EVALUATIONS OF "THICK" WOMEN MODEL WHEN CONSUMERS ARE (NOT) EXPOSED TO IMAGE OF THIN MODEL OR PLUS-SIZE MODEL**  
*Ashley Contreras, Beng Soo Ong*
- 1:45 PM      **The Influence of Differing Work Schedules Among Cohabiting and Dual Earning Couples on Relationship, Job, and Life Satisfaction**  
*Kristina Hollenbeck*
- 2:00 PM      **Donor Perceptions on Terminology Used for the Sector and Its Effects on the Resulting Interactions between Individuals and CBOs**  
*Navmit Dhesi*
- 2:15 PM      **The Impact of Product Attributes, Purchase Involvement, and Delivery Time on the Concept of "Transaction Gratification" in Online Purchases**  
*Caden Jones , Beng Ong*
- 2:30 PM      **School Finance Reform, Student Success, and Educational Equity: School District-Level Analysis of California's New School Funding Formula**  
*Brandon Sepulveda*
- 2:45 PM      **The Effects of Motivation on Financial Literacy of College Students**  
*Amy Tang, Janice Peterson*
- 3:00 PM      **The Economic Value of a Degree: Measuring Rates of Return by Major at California State University, Fresno**  
*William Trickett*

**Oral Presentations – Tuesday, April 18, 2017**

Concurrent Session H

University Business Center

UBC 192

- 1:30 PM      **The Americanization of Fresno, California 1914-1930**  
*Savonna Greer*
- 1:45 PM      **You Gotta Have Faith: Communication Privacy Management in Exclusivist Christian Families Regarding a Significant Change in Religious Belief**  
*Braedon Worman*
- 2:00 PM      **Taking Responsibility: How White Student Affairs Professionals Engage with Students on Whiteness and White Privilege**  
*Jessica Adams*
- 2:15 PM      **RELATIVE RECRUITMENT OF THE VASTUS LATERALIS AND GLUTEUS MAXIMUS DURING FRONT SQUATS IN OLYMPIC WEIGHTLIFTERS**  
*John Sheeter, Jacobo Morales*
- 2:30 PM      **Using Mental Skills Training to Help Cadets Prepare for the Army Physical Fitness Test**  
*Miguel Vera, Jenelle N. Gilbert, Boyce R. Buckner*
- 2:45 PM      **Bigger, Faster, Stronger... Safer? The Use of Self-Talk Interventions on Barbell Back Squat Kinematics**  
*Ivan Macias, Luke Pryor, Mark Baldis*

**Oral Presentations – Tuesday, April 18, 2017**

Concurrent Session I

University Business Center

UBC 194

- 1:30 PM      ***Protein Expression and Structural Characterization of Lunasin: An Anti-Cancer Peptide***  
*Jaideep Singh, Cory L. Brooks*
- 1:45 PM      ***Fluorescence Microscopy Demonstrates Neutralization of *Listeria monocytogenes* by Camelid Variable Domain Heavy Chain Antibodies (VHH)***  
*Moeko Toride, Cory L. Brooks*
- 2:00 PM      ***Investigating the Nature of Science Understanding of Pre-Service Elementary Teachers in an Integrated Science Course***  
*Ryan Umar, Dr. Dermot Donnelly*
- 2:15 PM      ***Spatial Variation in the Carrying Capacity of Juvenile Chinook Salmon Among Sites along the San Joaquin River***  
*Karen Boortz, Steve Blumenshine*
- 2:30 PM      ***Genetic analysis of Persister cell formation in respiratory pathogen; *Pseudomonas aeruginosa****  
*Saika Esani, Erik Arteaga*
- 2:45 PM      ***Evaluation of Naturally Occurring and Inoculated Microorganisms on Stone Fruit Sizer Carriers***  
*Kelli Williamson, Steven Pao, Erin Dormedy*

**Oral Presentations – Tuesday, April 18, 2017**

Concurrent Session J

University Business Center

Auditorium 191

- 3:30 PM      **Characterizing the fecal microbiome and resistome of American Crows in Fresno, CA and Davis, CA.**  
*Rachel Nelson, Michael Castro, Jonathan Eisen, Madhusudan Katti, Tricia Van Laar*
- 3:45 PM      **Effects of thermal stress on vitellogenin levels in the hemolymph of the anomuran crab *Petrolisthes cinctipes*.**  
*Hailey Salas, Nathan Sayavong, Alex Gunderson, Jonathon Stillman, Brian Tsukimura*
- 4:00 PM      **Synergistic effect of Organic Chalcones on *C. elegans* and *M. incognita***  
*Shantanu Shinde, Sosse Kendoyan, Alejandro Calderón-Urrea*
- 4:15 PM      **Gastrointestinal Endoparasite Prevalence in the San Joaquin Kit Fox (*Vulpes macrotis mutica*)**  
*Jessica Wilson, Paul R. Crosbie, Brian Cypher, Alyssa Anrig, Jessi Doshier, Marissa Montez, Antonio Guerra*
- 4:30 PM      **THE IMPACT OF DIFFERENT INSTRUCTIONAL STRATEGIES ON STUDENTS' UNDERSTANDING ABOUT THE CELL CYCLE IN A GENERAL EDUCATION BIOLOGY COURSE**  
*Sanjana Krishnamurthy, Emily Walter*
- 4:45 PM      **Monitoring Soil Salinity in Alfalfa and 'Jose' tall wheatgrass fields using EM-38 soil Surveys and Developing Input Data for a Transient Hydro-salinity Computer Model**  
*Aminder Singh, Sharon E. Benes, Nigel Quinn, Florence Cassel Sharma*

**Oral Presentations – Tuesday, April 18, 2017**

Concurrent Session K

University Business Center

UBC 192

- 3:30 PM ***New Silibinin Derivatives Exhibit Potential in Suppressing Prostate Cancer Cell Proliferation***  
*Andre Vignau, Bao Vue, Guanglin Chen, and Qiao-Hong Chen*
- 3:45 PM ***Synthesis towards 7-O-substituted-3,3',4'-O-trimethylfisetins for the exploration of their Anti-cancer potential***  
*Kevin Muthima*
- 4:00 PM ***3-O-Aminoalkyl-3',4',5'-Trimethoxyflavonols as Anti-Prostate Cancer Agents***  
*Maizie Lee, Xiang Li, Guanglin Chen, and Qiao-Hong Chen*
- 4:15 PM ***Towards Understanding of Peroxidation of Mammalian Sterols: Microwave-Assisted Synthesis of 7-Dehydrocholesterol Isomers***  
*Amanda Olvera, Juan Ramos Flores, and Hubert Muchalski*
- 4:30 PM ***Looking Beyond a 'Lack of Resources': Exploring the influence of institutional environments and structures on individual teaching practices in STEM***  
*Ivan Ceballos Madrigal, Emily Walter*
- 4:45 PM ***Is What They Say What They Do?: Comparing Observed and Self-Reported Teaching Practices of Faculty in STEM***  
*Mireya Lemus, Evelin Munoz*



**Oral Presentations – Tuesday, April 18, 2017**

Concurrent Session L

University Business Center

UBC 194

- 3:30 PM      **Yo No Cruze La Frontera, La Frontera Me Cruzo**  
*Heriberto Zavala*
- 3:45 PM      **From Caution to College: The Effects on Veterans with Self-Reported Trauma Symptoms and Sharing their Experiences with The Campus Community**  
*Jemerson Diaz, Elena Klaw*
- 4:00 PM      **When Trust is a Must: Priming Attachment Security Increases Trust in Doctors**  
*Vianey Vazquez-Guerrero, Nicole Jones*
- 4:15 PM      **Particulate matters emitted from different cooking methods**  
*Simrat Aulakh, Jaymin Kwon*
- 4:30 PM      **The use of B-flow imaging versus current standard techniques to detect severe fetal anemia**  
*Tara Brah, Heather Vasquez*
- 4:45 PM      **A Comparison of TUNEL and Sperm Chromatin Dispersion for Testing for Sperm DNA Fragmentation in Infertile Males**  
*Mai Tran, Mo, Lihong M.D; Flores, Cassiana M.Sc.; Kelly, Eduardo M.D; Sueldo, Carlos M.D*

**Oral Presentations – Tuesday, April 18, 2017**

Concluding Remarks

University Business Center

Auditorium 191

5:15 PM

**Concluding Address**

*Provost Lynnette Zelezny, California State University, Fresno*

**Breaking Bad in California and Its Impact on Health Care**

*Manjit Singh*

5:45 PM

**Award Ceremony and Reception**



April 18, 2017

Poster Presentations

## Poster Presentations – Tuesday, April 18, 2017

Poster Session I

University Business Center

9:00 AM until 10:30 AM

Gottschalks Gallery

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

- 1     *Understanding the mechanism by which organic chalcones kill Caenorhabditis elegans nematodes***  
Jessica Aguilar, Alejandro Calderon-Urrea
  
- 2     *Kinetics and Thermodynamics of Polar Aprotic Solvent-Driven Thiol Oxidation Reactions by Nuclear Magnetic Resonance Spectroscopy.***  
Angham Ahmed, Jaideep Singh
  
- 3     *Development of Pichia pastoris as a Model System for Myosin x-induced Filopodia Formation***  
Pablo Guaman Tipan, Karine Gousset
  
- 4     *Improving cognitive decline associated with Alzheimer's disease in a Drosophila melanogaster Tau model using dietary caffeine***  
Ashley Her, Haley Chapman, April Booth, Baylee Dias, and David D Lent
  
- 5     *Alzheimer's Disease: Measuring Amyloid Beta Formation Induced by Exposure to Environmental Neurotoxin  $\beta$ -methylamino-L-alanine (BMAA)***  
Jazmin Arias, Celina Ortega-Gonzalez, Ellen Douglass
  
- 6     *Examining Biomarkers in Aggressive Tumor Types of Thyroid Cancer***  
Jazmin Cheatham
  
- 7     *Comparing the suction flow of bladderwort across species to explore the effect of trap morphology***  
Fatima Hidalgo, Otto Berg, Ulrike Müller

## Poster Presentations – Tuesday, April 18, 2017

Poster Session I

University Business Center

9:00 AM until 10:30 AM

Gottschalks Gallery

**8     *Study of the structure-function relationship of Bax using a conformation-specific ELISA***

Jorje Beserra, Laurent Dejean, J.B Urtecho, Jordan Friedlein

**9     *C. briggsae hybrid developmental delay is caused by mitochondrial-nuclear mismatch***

Morgan Montelongo, Emeline Pano, Joel Rodriguez, Christopher Jorgensen

**10    *Interaction of Human Serum Albumin(HSA) and its specific nanobody***

Shuchi Kakkad, Moeko Toride

**11    *Investigating the genetic basis of glyphosate resistance in the San Joaquin Valley agricultural weed hairy fleabane (Erigeron bonariensis)***

Rigoberto Molina, Ankit Pathak, Katherine Waselkov

**12    *The Debilitating Effects from Environmental Neurotoxins on a Fruit Fly Model of ALS-PDC***

Richard Moua, Catherine Mueller, Harmala Singh

**13    *The Nematicidal Activity of CED-4 Peptides on Caenorhabditis elegans***

Shoghig Stanbouljian, Alejandro Calderon-Urrea

**14    *The Effect of Chalcone 17, Chalcone 25 and mix on different soil and non-soil microorganisms***

Sosse Kendoyan, Shantanu Shinde

**15    *Comparative analysis of five CRP-like protein homologs***

Alisa Manzula, Doongkuk An, Joel Curiel, and Hwan Youn

**Poster Presentations – Tuesday, April 18, 2017**

Poster Session I

University Business Center

9:00 AM until 10:30 AM

Gottschalks Gallery

**16 *Field imaging reveals perceptual and navigational strategies of wood ants in naturalistic environments***

Erik Arevalo, Reina Warnert, Austin Mendoza, David D Lent

**17 *Variation in Juvenile Chinook Salmon Diets Across Populations***

Akusha Kaur, Steve Blumenshine

**18 *Developing a Nanobody Based ELISA for the Detection of Listeria monocytogenes.***

Akhilesh Shenai, Cory Brooks

**19 *The Interactions of Myosin-X with mRNP complexes***

Puneet Sran

**20 *Assessing Mitochondrial Function in Experimental Caenorhabditis briggsae Hybrids***

Emma Johnson

**21 *Establishing absorption of organic chalcones in Caenorhabditis elegans by monitoring the absorption of DAPI and Hoechst Dyes***

Sieham Nassrallah, Tamar Melkonian

**22 *Screening of transgenic Dunaliella primolecta for wastewater treatment and accumulation of neural fatty acid***

Kristie Major, Yadira Andrade, Chirag Vazirani

**23 *The metabolite profile of human neural progenitor cells post-irradiation***

Maria Mendoza, Jason Bush

**Poster Presentations – Tuesday, April 18, 2017**

Poster Session I

University Business Center

9:00 AM until 10:30 AM

Gottschalks Gallery

**24 *Fitness cost of glyphosate resistance in hairy fleabane (Erigeron bonariensis) under drought conditions***

Ankit Pathak, Rigoberto Molina, and Katherine Waselkov

**25 *Chloropicrin and methyl iodide degradation facilitated by Rhodanobacter and Bacillus species - Identifying the mihA gene and its sequence***

Gary Smalz

**26 *Evaluation of miRNAs regulating stem cell markers in Gemcitabine-resistant pancreatic cancer cells.***

Karamjot Kaur Vander, Karla Jimenez

**27 *Are bladderwort near the lower size limit for capturing prey with suction feeding?***

Mohammed Shaik, Otto Berg, Ulrike Muller

## Poster Presentations – Tuesday, April 18, 2017

Poster Session II

University Business Center

11:00 AM until 12:30 PM

Gottschalks Gallery

Authors will be available for questions from 11:00 AM until 12:30 PM.

- 1**     ***Does subspecific variation correspond to cytotypic variation in the widespread taxon *Phlox speciosa* (Polemoniaceae)?***  
Estefania Aguilar-Gutierrez, Katherine Waselkov
  
- 2**     ***Generating Classical Multiplier Sequences***  
Summer Al-Hamdani, Alexandra Leon
  
- 3**     ***Characterization of zinc effect on YdeH, a diguanylate cyclase, and its zinc-site mutant***  
Christian Montiel, Yue Zhou, Shristi Chand, Giancarlo Sulca and Hwan Youn
  
- 4**     ***Active-metal mediated cluster growth of Au<sub>25</sub>PET18 nanoclusters***  
Randy Espinoza, Jai-Pil Choi
  
- 5**     ***Glutathione affects virulence potential of *Pseudomonas aeruginosa****  
Tyler Birges, Saika Esani, Jason Thomas, Bethany Hazen, Amorette Guzman, Justin Okonkwo, Mamta Rawat
  
- 6**     ***EFFECT OF Tn GLYCOSYLATION ON THE BIOACTIVE EPITOPE CONFORMATION OF MUC1***  
Naveen Gokanapudi, Jaideep Singh, Cheenou Her, Krish Krishnan, Cory L. Brooks
  
- 7**     ***Effects of divalent metal ions on BMAA and its carbamate adducts***  
Pedro Diaz-parga, Joy Goto, V.V. Krishnan



## Poster Presentations – Tuesday, April 18, 2017

Poster Session II

University Business Center

11:00 AM until 12:30 PM

Gottschalks Gallery

- 8**     ***Digital Elevation Modeling of Agricultural Fields for Irrigation Management***  
Huy Le, Balaji Sethuramasamyraja
  
- 9**     ***Flying Above Limitations: Measuring the Effects of BMAA on Fruit Fly Activity***  
Lemuel Vince Rivera, Joy J. Goto
  
- 10**    ***Synthesis of Solution Stable Sulfenic Acids***  
Quang Le, Hubert Muchalski, Ryan Watters
  
- 11**    ***5-O-Substituted-2,3-Dehydrosilibinins Exhibit Greater Anti-Proliferative Potency Than Silibinin in Three Prostate Cancer Cell Models***  
Timmy Lee, Xiaojie Zhang, Bao Vue, Guanglin Chen, Qiao-Hong Chen
  
- 12**    ***Study of the Effect of Bcl-2 Overexpression on Oxamate-induced cytotoxicity in Polymphocytes***  
Lucineh Kasnakjian, Rebecca Alves
  
- 13**    ***Quantifying and characterizing the Criegee Intermediates formed in Alkene Ozonolysis by using a Scavenger***  
Vinay Kumar, David Flores, Alam Hasson
  
- 14**    ***The Practical Synthetic Approach to 3-O-alkylamino-5,7,20-O-trimethyl-2,3-dehydrosilibinins***  
William Diaz, Bao Vue, Vignau, Qiao-Hong Chen
  
- 15**    ***Synthesis towards Hydnocarpin and Its Analogs as Anti-Prostate Cancer Agents***  
Leyla Farshidpour

**Poster Presentations – Tuesday, April 18, 2017**

Poster Session II

University Business Center

11:00 AM until 12:30 PM

Gottschalks Gallery

- 16    *The Effects of Logging and Prescribed Fire on Seed Production of Sierran Conifers***  
Cynthia Vang, Gurjap Dhaliwal and Tom Lor
- 17    *The Role of Disturbance on San Joaquin River Macroinvertebrate Assemblages; Implications for Chinook Salmon Survival and Growth***  
Emily Ramirez, Steve Blumenshine
- 18    *Cloning Strategies for the Expression of Myosin-X in Yeast***  
Rekha Rangan, Karine Gousset
- 19    *Hand-held Laser-based Chemical Sensors for Absorption and Fluorescence Spectrometry: Application in Chlorophyll Measurements***  
Jackson Wagner, Nelson Ayala, Kin Ng
- 20    *Analysis of Water Samples for Perfluorooctanoic Acid and Perfluorooctanesulfonic Acid by LC-MS in the Clovis Metropolitan Area***  
Jameson Krauthammer, Jaskiran Ghuman, Brenna Flynn, Demi Fujino
- 21    *Simulation of scene perception, navigation and information storage in wood ants***  
Austin Mendoza, Austin Mendoza, David D Lent
- 22    *Impact of Atmospheric Oxidation on the Cellular Toxicity of Cigarette Smoke***  
Tanner Melton, Alam Hasson, Jason Bush, Arjun Mann, Robyn Verhalen,
- 23    *Electronic Cigarette Solution and Vapor Analysis with GC-MS and LC-MS***  
Michael Lazernik, Martin Jones, Preston Cole

**Poster Presentations – Tuesday, April 18, 2017**

Poster Session II

University Business Center

11:00 AM until 12:30 PM

Gottschalks Gallery

**24 *Investigating Hydrogen Peroxide Production In Particulate Matter***

Ryan Brost

**25 *Three dimensional structure of antifreeze glycoproteins (AFGP) in dimethyl sulfoxide (DMSO) by high-resolution nuclear magnetic resonance (NMR) spectroscopy***

Cheenu Her, Yin Yeh and Krish Krishnan

**26 *Determination of the Effects of Particulate Matter Aerosols on ROS Production in Alveolar Macrophage Cells***

Joel Castillo, Anthony Waterston, Micah Olivas

**27 *Characterization of the Interloop Disulfide Bond in High Affinity Binding of Camel VHH to Listeria monocytogenes***

Matthew Mendoza, Moeko Toride, Teresa Brooks, Cory L. Brooks

## Poster Presentations – Tuesday, April 18, 2017

Poster Session III

University Business Center

1:30 PM until 3:00 PM

Gottschalks Gallery

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

- 1     *The Effects of Peer Leadership Participation on Student Veterans' Ideas about Self and Others***  
Sophia Alcala-Cabrera
- 2     *U.S. Participation in Global Climate Change Resolutions: Analysis of the Kyoto Protocol***  
Rashmeen Kaur
- 3     *Effects of Secondary Trauma in Military Families***  
Soultana Mpoulkoura
- 4     *The Effects of Anger and Happiness on Opposite Valence Racial Stereotypes***  
Diego Gomez
- 5     *Patient Satisfaction with Ketamine for Pain Management in the Emergency Department***  
Iris Price, Karen Pelham, Chathurika Goonawardena, Akashdeep Dhillon, Jaspreet Nakai, Boris Pavic, Brian Anders, Matthew Hendrickson, David Claypool
- 6     *Reducing Stigma-Driven Health Disparities in People Living with HIV (PLWH): A Literature Review***  
Stephanie Dizon, Constance Hill, William Armaline
- 7     *PESTICIDE EVALUATION OF MITOCHONDRIAL DYSFUNCTION IN HUMAN NEURAL STEM CELLS***  
Jose Vera

**Poster Presentations – Tuesday, April 18, 2017**

Poster Session III

University Business Center

1:30 PM until 3:00 PM

Gottschalks Gallery

- 8      *Elimination of Sliding Scale Insulin In a Nursing Home Setting***  
Paulette Ginier, Lisa Adams, Odarius Pouncil, Jerk San Mateo, Thuhai Phamle
- 9      *Comparison of HbA1c as a screening tool for GDM in first trimester pregnant women***  
Zev Tovian, Erica Delsman, Todd McCauley, Susan Hughes, Ivan Gomez
- 10     *Intracranial Vascular Steal as a Mechanism for Symptoms Ipsilateral to a High-Grade Carotid Stenosis***  
Sameer Sundrani, Philippe Vanderschelden, Amir Khan, Armen Choulakian
- 11     *Examining Team Cultures of Success in High Performance Field Hockey Through Self- Determination Theory***  
Jeffrey Ruser, Jenelle Gilbert, Jamie Robbins, Wade Gilbert
- 12     *THE 'YIPS' IN DIVISION I COLLEGIATE SPORTS: PREVALENCE, CONDITIONS, AND FACTORS***  
Kei Sato
- 13     *The Effect of Hydration on Landing Error Scoring System Scores in Dehydrated, Hyperthermic, and Fatigued Males***  
Alexandria Gregory
- 14     *Electronic Conduction of Solid State Thick Films of Alkanethiolate Capped Ag Nanoparticles***  
Logan Wood, Xiong, Der

**Poster Presentations – Tuesday, April 18, 2017**

Poster Session III

University Business Center

1:30 PM until 3:00 PM

Gottschalks Gallery

- 15    *Study of Invertase Catalyzed Sucrose Hydrolysis in the presence of Sucralose by Blood Glucometer and Nuclear Magnetic Resonance Spectroscopy***  
Justin Vang, Cheenou her, Jaideep Singh
- 16    *Analysis of Prey Variation of Juvenile Chinook Salmon by Stable Isotope Analysis***  
Daniel Whittington, Michael Bravo
- 17    *ANALYSIS OF COLOR OF “CRIMSON SEEDLESS” GRAPES TREATED WITH ORO151***  
Diep Le, Geoffrey Dervishian, Eric Person, Sonet van Zyl
- 18    *ZnO-Epoxy-Graphene Electro-active Composites***  
Sanjeev Kumar, Walker Tuff
- 19    *HIV-1 protease inhibitors from marine brown algae derived compounds: a literature review***  
Eric Nunez Aguilar
- 20    *Optimal sensitivity of x-ray fluorescence detection of arsenic in skin phantoms using an x-ray optics system***  
Benjamin Avila, Mihai Gherase
- 21    *A Primer on Life Cycle Analysis of Cementious Composites with a Focus on Embodied Energy and Emissions***  
Roshanak Farshidpour, Lamia Tahsin

**Poster Presentations – Tuesday, April 18, 2017**

Poster Session III

University Business Center

1:30 PM until 3:00 PM

Gottschalks Gallery

**22    *Water purification using plasma micro-discharge towards development a hybrid water treatment system***

Daniel Apuan, Nicholas James Marshall, Adithya Keshav Mohan, Emma J Van Fossen, Bagrad Oganyan

**23    *ZnO-Epoxy-Graphene Electro-active Composites***

Diego Ruggiero, Walker Tuff

**24    *Chemical Recycling of Si PV Panels***

Nikesh Pradhan, Garrett Bader

**25    *A Sustainable Approach to Assess the Resilience of Perforated Wood Shear Walls***

Elizabeth Berry, B. Shadravan, and F.M. Tehrani

**26    *Force applied by any surface***

Daniel Hooker

## Poster Presentations – Tuesday, April 18, 2017

Poster Session IV

University Business Center

3:30 PM until 5:00 PM

Gottschalks Gallery

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

- 1     *Stochastic Simulation for the Future of California Blueberry Production***  
Madeline Loftus, Serhat Ascii
  
- 2     *Analytics for SmartFarming (Soil Library for Sensors)***  
Arthish Bhaskar, Balaji Sethuramasamyraja, Chandra Krintz, Rich Wolski and Bo Liu
  
- 3     *The Effects of Various Levels of Protein, Lysine, Fat, and Fiber on Swine Growth and Pork Quality***  
Hannah Price, Amanda McKeith
  
- 4     *Family-Based Workshops Associated with an Increase in Vegetable Consumption***  
Sara Rima, Maribel Barragan
  
- 6     *COMPARING THE EFFICACY OF PICTURE CARD STIMULI TO STORYBOOK STIMULI IN TEACHING MORPHOLOGIC STRUCTURES TO CHILDREN WITH EXPRESSIVE LANGUAGE DISORDERS***  
Samantha Ramirez, Christine Maul
  
- 7     *“IT’S OUR NORMAL” – A FOLLOW-UP STUDY ON ADAPTATIONS FAMILIES MAKE FOR OLDER CHILDREN WITH DEVELOPMENTAL DISABILITIES***  
Jennifer Ortiz, Christine A. Maul
  
- 8     *A Multidimensional Rehabilitation Program for a 69 Year-Old Male with a Fear of Falls: A Case Report***  
Nicholas Oifoh



## Poster Presentations – Tuesday, April 18, 2017

Poster Session IV

University Business Center

3:30 PM until 5:00 PM

Gottschalks Gallery

- 9**     ***Identification of potential oomycete plant pathogens from natural waterways in Fresno County to irrigation reservoirs at the University Agricultural Laboratory***  
Jessie Brazil, Holly Deniston-Sheets, John T. Bushoven, and Margaret L. Ellis
- 10**    ***OPTIMIZING NUTRIENT MEDIUM ION CONCENTRATION FOR LABORATORY-CULTURED AQUATIC UTRICULARIA PLANTS***  
Eshan Bhardwaj, Benjamin Arax, Otto Berg, Ulrike K. Müller, John T. Bushoven
- 11**    ***Effect of Walnut and Pistachio Sap on Spore Germination and Mycelial Growth of : Neofusicoccum mediterraneum, Neofusicoccum parvum, Phomopsis (Nomelini spp.), and Diaporthe neothicola (Phomopsis neotheicola)***  
Alexis Jackson, Themis Michailides
- 12**    ***The Effect of a Six-Week Family-Based Healthy Eating program for Latino Children on their Consumption of Sugar-Sweetened Beverages, Fast Foods, and Sweets***  
William Evans, William Evans, Alma Garcia, Amber Hammons
- 13**    ***EVALUATING THE EFFECTS OF HIGH-PROBABILITY/LOW-PROBABILITY SEQUENCES ON A MEASURE OF INTERROGATIVE SUGGESTIBILITY***  
Grecia Mendoza, Marianne Jackson
- 14**    ***Thesis***  
Catherine Nakato, Peter English
- 15**    ***Changing Reduction Sequences of Obsidian from the Grandad Site, Central Sierra***  
Felicia Avendano, Mika Woods, Shay Perryman

**Poster Presentations – Tuesday, April 18, 2017**

Poster Session IV

University Business Center

3:30 PM until 5:00 PM

Gottschalks Gallery

**16 *Mobile application implementation of biologically inspired visual scene perception***

Deepti Shashidharaiah, Deepti Shashidharaiah, Sri Ramya Nimmagadda, Jeevjyot Chhabda, David D Lent

**17 *Testing and Testable Design of Digital System using Industry-Verified Electronics Design Automation Tools***

Vidya Sagar Reddy Gopala, Reza Raeisi

**18 *Fabrication and Characterization of Barium Titanate based Flexible Two-Phase Lead-Free Piezoelectric Composites***

Walker Tuff, Jalen Harris, Jaspreet Badhessa, Yerli Cervantes

**19 *Improving lead detectability in plaster-of-Paris bone phantoms using a grazing-angle geometry x-ray fluorescence measurement***

Danielle Tanielian, Summer Al-Hamdani

**20 *Subsidence in the Central Valley***

Andy Magdaleno, Lalita Oka

**21 *ZnS thin films grown by pulsed electrodeposition method to be used in solar cells***

Gustavo Silva Hernandez, Adithya Mohan

**22 *Fabrication of novel lead free methyl ammonium-iodide based perovskite solar cells***

David Martinez, Randy Martinez, Fahad Al Sadhaan, Luis Nava, Zachary White-Steele

**Poster Presentations – Tuesday, April 18, 2017**

Poster Session IV

University Business Center

3:30 PM until 5:00 PM

Gottschalks Gallery

**24    *Modeling and control of the prosthetic leg***

Xinli Wang

**25    *Micro-plasma based surface modification of flexible ZnO-Epoxy-Carbon nanotube composites***

Sandeep Mohan, Adithya Katakam, Walker Tuff, Emma J Van Fossen

**26    *Hands-on Learning with Mechanically Stabilized Earth Sandbox***

Eric Gudiño, Adrian Velazquez



April 19, 2017

Oral Presentations

**Oral Presentations – Wednesday, April 19, 2017**

Concurrent Session A

University Business Center

Auditorium 191

- 9:00 AM**      ***RESILIENT DOCTORAL STUDENTS IN CALIFORNIA: A REFLECTIVE STUDY OF THE RELATION BETWEEN CHILDHOOD CHALLENGES AND ACADEMIC SUCCESS***  
Randy Bessey
- 9:15 AM**      ***The Effects of Linked Learning on Teacher Motivation, Deficit Thinking and Teacher Burnout Across Low, Mid, and High Poverty Linked Learning School Settings***  
Chantel Cox, Susan Tracz, Ken Magdaleno, Jared Stallones
- 9:30 AM**      ***PERCEIVED SELF EFFICACY OF PRINCIPALS IN OVER AND UNDERACHIEVING SCHOOLS***  
Scott Dille
- 9:45 AM**      ***TESTING AN ONLINE INTERVENTION TO DEVELOP PURPOSE AND HOPE IN FIRST YEAR COLLEGE STUDENTS AT A MINORITY SERVING INSTITUTION***  
Rosie Hernandez, Christian A. Wandeler
- 10:00 AM**      ***A QUALITATIVE STUDY OF AFRICAN AMERICAN MALE PRINCIPALS IN CENTRAL CALIFORNIA: UNDERSTANDING THE FACTORS IMPACTING THEIR PROFESSIONAL DEVELOPMENT AND SUCCESS***  
Daren Miller

**Oral Presentations – Wednesday, April 19, 2017**

Concurrent Session B

University Business Center

UBC 192

**9:00 AM**      ***Fresno Solar Cell: The proposed low-cost high efficient solar cell from non-toxic and earth abundant semiconductors***

Ajith Weerasinghe, Gustavo Silva, Luis Nava

**9:30 AM**      ***Seismic Performance of Unbonded Post-Tensioned Rocking Walls: Shaking Table Experiments***

Maryam Nazari, Sri Sritharan

**Oral Presentations – Wednesday, April 19, 2017**

Concurrent Session C

University Business Center

UBC 194

**9:00 AM      *FORMULATION AND EVALUATION OF POLYMERIC MIXED MICELLES FOR DELIVERY OF QUERCETIN TO BREAST CANCER***

Arjun Patra, Swaha Satpathy, Anitha K. Shenoy, Jason A. Bush, Muhammad Delwar Hussain

**9:15 AM      *Structure-Activity Relationship Studies of Silibinin as Anti-Prostate Cancer Agents***

Bao Vue, Sheng Zhang, Xiaojie Zhang, Andre Vignau, Michael Huang, Timmy Lee, Guanglin Chen, and Qiao-Hong Chen

**9:30 AM      *Chemical-kinetic rate laws applied to predator-prey population dynamics***

Otto Berg, Rayhan Kabir, Ulrike K. Müller

**Oral Presentations – Wednesday, April 19, 2017**

Concurrent Session D

University Business Center

Auditorium 191

- 10:45 AM**      ***Effects of Mental Illness Stigma Dimensions on Treatment Attitudes***  
Shauna Dauderman, Christine Edmondson
- 11:00 AM**      ***Care of persons aging with Autism and Intellectual Disability***  
Funmilola Alli
- 11:15 AM**      ***The Relationship among CBCL (Child Behavior Checklist), EQ-C (Empathy Quotient), SQ-C (Systemizing Quotient), and AQ-C (Autism Quotient)***  
Janet Saenz, Gerianne M. Alexander



**Oral Presentations – Wednesday, April 19, 2017**

Concurrent Session E

University Business Center

UBC 192

- 10:30 AM**      ***Aligning Leadership Qualities of Special Education Teachers with Teacher/Paraeducator Collaboration***  
Jennifer Rivera
- 10:45 AM**      ***AI: The Effects of Using Appreciative Inquiry as a Professional Learning Change Agent and California Community Colleges***  
Sara Couch
- 11:00 AM**      ***Leadership Practices In A Linked Learning Environment Focused On Equitable Practices Of Language Minority Students***  
Diane Lira
- 11:15 AM**      ***DOES A SHAME RESILIENT WISE INTERVENTION (SWRI) PROMOTE A SENSE OF BELONGING AND ADDITIONAL NON COGNITIVE SKILLS SUCH AS GRIT, MINDSET, AND HOPE IN FIRST GENERATION STUDENTS NEWLY ADMITTED TO HIGHER EDUCATION?***  
Felipe Mercado
- 11:30 AM**      ***THE IMPACT of service-learning on engagement and degree completion for undergraduate students***  
Kathleen Schock

**Oral Presentations – Wednesday, April 19, 2017**

Concurrent Session F

University Business Center

UBC 194

- 10:30 AM**      ***Wokou in the 16th & 17th Century***  
Cameron Scott
- 10:45 AM**      ***Una mosca vivaracha: Los límites de la ciencia ante lo fantástico / A lively fly: the limits of science to the fantastic***  
Jorge Ceballos Madrigal
- 11:00 AM**      ***Student SELF-EFFICACY (PERSONAL AGENCY) AND MOTIVATION IN LOW, MID, AND HIGH POVERTY LINKED LEARNING SCHOOL SETTINGS***  
Cherie Solian
- 11:15 AM**      ***A Narrative Research Study of Cultural Capital, Social Identity, and Self-Efficacy Impact on the Academic Achievement of Professional Hmong Women***  
Mai Soua Lee-Cha



April 19, 2017

Poster Presentations

## Poster Presentations – Wednesday, April 19, 2017

Poster Session I

University Business Center

8:30 AM until 10:00 AM

Gottschalks Gallery

Authors will be available for questions from 8:30 AM until 10:00 AM.

- 1      *How trap morphology changes with trap size for the carnivorous plant bladderwort***  
Andrea Aparicio Ramirez, Ronnie I. Odia, Otto Berg, Ulrike K. Muller
  
- 2      *Exploring Evolution Acceptance Profiles Among Non-Science Majors***  
Ephiram Bosse, Emily Walter
  
- 3      *Family Mealtimes: Clearing the Path to the Prevention of Childhood Obesity in Hispanic Children***  
Danae Dubberke, Sara Rima, Maribel Barragan, Amber Hammons
  
- 4      *How Conditions Play a Role in the Adoption of Voter ID Laws in State Legislatures***  
Alexandra Gallo
  
- 5      *The Effects of High School Involvement on Levels of Servant Leadership of Fresno State Agriculture Students***  
Taylor Helton, Steven Rocca, Avery Culbertson
  
- 6      *Identifying protein expression changes in zoledronic acid-treated metastatic breast cancer cell spheroids***  
Megan Kalomiris, William Whalen, Jason Bush
  
- 7      *Reactive Oxygen Species and Developmental Delay in *Caenorhabditis briggsae****  
Marisol Lauri, Joseph Ross

## Poster Presentations – Wednesday, April 19, 2017

Poster Session I

University Business Center

8:30 AM until 10:00 AM

Gottschalks Gallery

- 8**     ***Optimization of silicon nanocrystal synthesis via plasma-enhanced chemical vapor deposition***  
Matthew Metcalf, Daqing Zhang
- 9**     ***Experimental Evaluation of Dynamic Characteristics of Structural Systems***  
Zachary Peacock, Maryam Nazari
- 10**    ***MRF cone type knee brake***  
Kyle Renberg, Henry Rigdon, Noe Hernandez, Victor Arevalo
- 11**    ***Determination of Imidacloprid in Central California Honey and the Decline of the Bee Population***  
Emmanuelle Issa, Marie Barr-Ramsey, Elia Manzo, Dominic Smith, Megan Tjuanta, Ivan Cisneros-Rodriguez, Josh Comes, Nathaniel Whitaker
- 12**    ***Analysis of the effects of Bcl-2 family proteins on carbohydrate metabolism of prolymphocytes***  
Ali Abed, Catalina Olea, Bushra Mahmood, Rhaul Llanos, Nawras Samaan, Preet Kaur, Krish Krishnan
- 13**    ***Implementing Image Compression Technique using TSIHT algorithm***  
Jyotsna Yallapragada, Sravya Bolla
- 14**    ***Vibration Energy Harvesting and Biomedical Application***  
Abbie Sandquist, Sreekanth Varma Rudraraju
- 15**    ***Type II Diabetes Education for the Indian Population***  
Puvandeep Sran

**Poster Presentations – Wednesday, April 19, 2017**

Poster Session I

University Business Center

8:30 AM until 10:00 AM

Gottschalks Gallery

**16     *The Critical Role of Glycine at Position 184 in the Transcriptional Activation Function of the cAMP Receptor Protein***

Pegah Mosharaf, Navjot Sangha , Carlos Flores

**17     *Development of a Content Valid Interview Questionnaire for Hard of Hearing Adults and Their Communication Partners***

Stephen Roberts, Nancy A. Delich, Cydney Danisi

**18     *APIGENIN-LOADED PLURONIC MIXED MICELLES FOR BREAST CANCER THERAPY***

Swaha Satpathy, Arjun Patra, Anitha K. Shenoy, Jason A. Bush,

Bharti Ahirwar, Muhammad Delwar Hussain

## Poster Presentations – Wednesday, April 19, 2017

Poster Session II

University Business Center

10:30 AM until 12:00 PM

Gottschalks Gallery

Authors will be available for questions from 10:30 AM until 12:00 PM.

- 1     *Acute-Care Physical Therapy Proves Beneficial for a 73 y.o. male S/P CABG with Medical Complexity***  
Kris Haycock
- 2     *Case Report – Conservative Management of Nerve Traction for a Construction Worker who had a Wrist Injury due to a Fall on an Outstretched Hand.***  
Suneth Attygalle
- 3     *Computerized Dynamic Posturography Comparing the Bertec Balance Advantage<sup>TM</sup> and NeurocomR Equitest in Assessing Postural Stability in Healthy Adults***  
Carolyn Bentley, Monica Rivera, Nancy Wubenhorst
- 4     *Effects of a Multidimensional Program to Address the Fall Risks in a Community Dwelling Older Adult: A Case Report***  
Kayla Brass
- 5     *A Multi-Faceted Physical Therapy Intervention for a Chronic Stroke in a Middle Aged Male: A Case Report***  
Steven Cabrales
- 6     *Physical Therapy Interventions for an Elderly Male with a Chronic Multifactorial Balance Problem: A Case Report***  
John Cardinale, Toni Tyner
- 7     *The Effects of Therapeutic and Vestibular Exercises on Cervicogenic Dizziness and Pain: A Case Report.***  
Katelyn Cartwright

**Poster Presentations – Wednesday, April 19, 2017**

Poster Session II

University Business Center

10:30 AM until 12:00 PM

Gottschalks Gallery

- 8      *A COMPREHENSIVE PHYSICAL THERAPY APPROACH IN A YOUNG ADULT WITH SEVERE MUSCLE WEAKNESS FOLLOWING ORIF OF AN INTERTROCHANTERIC HIP FRACTURE***  
Ashley Christiansen, Jennifer Adame-Walker
- 9      *PHYSICAL THERAPY TRAINING S/P SPINAL FUSION AND PARIETAL MENINGIOMA EXCISION: A CASE REPORT***  
Carolyn Collins
- 10     *Acute Physical Therapy Interventions Improves Functional Endurance for an Elderly Male with COPD: A Case Report***  
Megan Comparan, Jennifer Roos
- 11     *Conservative Treatment for a Torn Medial Meniscus Using the Movement System Impairment Approach: A Case Report***  
Jacqueline Cortez
- 12     *PHYSICAL THERAPY STATUS POST TOTAL HIP ARTHROPLASTY SECONDARY TO FEMORAL NECK FRACTURE IN AN ELDERLY PATIENT WITH DEMENTIA: A CASE REPORT***  
Amy DeBorba
- 13     *A Conservative Intervention Program for an Obese 83-Year-Old Female with Severe Ankle Osteoarthritis: A Case Report***  
Sean Goetzl
- 14     *The Effectiveness of Multi-Dimensional Interventions to Improve Mobility for a 59 y.o. female with Multiple Sclerosis: A Case Report***  
Stephanie Gomez, Jennifer Roos



## Poster Presentations – Wednesday, April 19, 2017

Poster Session II

University Business Center

10:30 AM until 12:00 PM

Gottschalks Gallery

- 15     *A Comprehensive Physical Therapy Approach to Treating a Non-Compliant Patient Following Subacromial Decompression Surgery: A Case Report***  
Ryan Hastie
- 16     *Physical Therapy Intervention for AMBRI Shoulder Instability Prior to Surgical Intervention: A Case Report***  
Kelly Hosey
- 17     *Acute Care Physical Therapy Management for a Multi-System Elderly Female with Osteoarthritis: A Case Report***  
Melissa Hu, Jennifer Roos
- 18     *A Cupping Intervention For a Patient with Upper Extremity Neuropraxia: A Case Report***  
Mike Lopes
- 19     *Sub-Acute Physical Therapy Intervention for a 92-year-old Female Following a C2 Posterolateral Fusion: A Case Report***  
Robbie Martin
- 20     *Improving Mobility in an Orthopedic Trauma Patient with Pulmonary and Cardiac Complications in an Acute Setting: A Case Report***  
Yalda Mendoza
- 21     *Return to Weight Loss: Successful Interventions for an Overweight Patient with Low Back Pain - A Case Report***  
Theodore Oliver

## Poster Presentations – Wednesday, April 19, 2017

Poster Session II

University Business Center

10:30 AM until 12:00 PM

Gottschalks Gallery

- 22     *Physical Therapy Interventions for an Elderly Female S/P LE ORIF: A Case Report***  
Punam Patel
- 23     *Interventions Associated With Recovery of Strength and Function Following ATL Surgery in an Adult Male with Muscular Dystrophy: A Case Report***  
Jennifer Ray
- 24     *Acute Care Physical Therapy Management for a Medically Frail Elderly Female S/P AKA: A Case Report***  
Maranda Smith
- 25     *Physical Therapy Interventions for Functional Mobility Recovery of a Deconditioned 47 y.o Female Diagnosed with Lupus Nephritis: A Case Report***  
Jacklyn Taylor
- 26     *Acute Rehabilitation of a 27-y.o. Male with Failure to Thrive - A Case Report***  
Joseph Terrill
- 27     *Utilizing Diaphragmatic Breathing in a 71-year-old Female Suffering Chronic Low Back Pain: a case report***  
Cole Thornton

**Poster Presentations – Wednesday, April 19, 2017**

Poster Session II

University Business Center

10:30 AM until 12:00 PM

Gottschalks Gallery

**28     *Physical Therapy Intervention Develops Locus of Control During Prosthetic Training Post Unilateral Below Knee Amputation: A Case Report***

Kelley Urionaguena

**29     *Physical Therapy Intervention Program for a 67-Year-Old Female Status Post Total Hip Replacement with Peripheral Vascular Disease: A Case Report***

Nicholas Ward

**30     *Multi-Systems Approach to Therapeutic Treatment and Interventions Post Distal Tibia Fracture Reduction and Distal Fibula Fracture in the Acute Care Setting: A Case Report Poster***

Taryn Yamagami, Toni Tyner