28TH ANNUAL

CENTRAL CALIFORNIA RESEARCH SYMPOSIUM

PROGRAM

Convened on
Thursday, April 12, 2007
in the
University Business Center
California State University, Fresno

Plenary Session University Business Center Auditorium, Room 191

12:00 Opening Remarks:

Dr. Thomas McClanahan, California State University, Fresno

Dr. Amit Lal, Defense Advance Research Projects Agency
DARPA

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

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

- 12:10 3-D Nanogap Molecular Electronics Chung Hoon Lee, PhD
- 12:25 Expression Profile of Transgenic Nicotiana tabacum Plants
 Expressing Caenorhadbitis elegans' Cell Death Genes
 Carlos A. Tristan, Alejandro Calderon-Urrea, PhD
- 12:40 Infant Sleep and the Parent-Child Attachment Relationship Melissa Dittmar, Kathleen Ramos, PhD, Kathleen Reid, PhD
- 12:55 Burning and Grazing Increase Biodiversity in Vernal Pool Grasslands
 Bobby Kamansky, Steve Blumenshine, PhD

1:10-1:30 Break--University Business Center, Gottschalks Gallery

Concurrent Session A **University Business Center** Auditorium, Room 191

1:30	Expunging HerselfElizabeth Bishop Disappears Leela Sannyasin, Chris Henson, PhD
1:45	Contesting Cultural Incompatibility Theories of Latino Health Gilberto Lopez, James Mullooly, PhD
2:00	Health, Wealth, and Home: The Effects of Household Air Quality on Income Paula D. Wright, VaNee L. VanVleck, PhD
2:15	Anti-American Foreign Policy: Strained Relations between the United States and Latin America Ashlin E. Mattos, Russell Mardon, PhD
2:30	ROBOTRAK: A Software for Monitoring, Control, and Coordination of Intelligent Robotic Swarms Anthony Alvarez, Ming Li, PhD

2:45 Information and Communication Technology and Its Effects on Nonprofits Salvador S. Gallegos, Matthew A. Jendian, PhD

- Break--University Business Center, Gottschalks Gallery 3:00 Concurrent Sessions Resume 3:30

Concurrent Session B University Business Center Room 192

- 1:30 Media's Perception on Health Disparities: A Meta-Analysis of Newspaper Publications
 Tonantzin Soto, John Capitman, PhD
- 1:45 Newspaper Framing of a Hospital: The Impact of Hospital Public Relations
 Antonina Trachuk, Tamyra Pierce, PhD
- 2:00 Risk Factors of Gang Membership: Results from an Analysis of Self-Reported Gang Members in the Fresno County Jail David C. Pyrooz, Jason Kissner, PhD
- 2:15 The Eleventh Century Royal Portrait Manuscript Leaf of King Gagik-Abas of Kars, Queen Goranduxt, and Princess Marem: Who Commissioned It and Why? Hazel Antaramian Hofman, Jennifer Borland, PhD
- 2:30 No Person Shall Be Forced to Have an Abortion Against
 His Will: A Case of Epicene Pronouns in Written Discourse
 Rebecca Headrick, Shigeko Okamoto, PhD
- 2:45 Analysis and Characterization of Putative AtWRKY6
 and AtWRKY53 Orthologs in Podophyllum peltatum
 Natalie Powers, John V.H. Constable, PhD,
 Alejandro Calderon-Urrea, PhD

- 3:00 Break--University Business Center, Gottschalks Gallery
- 3:30 Concurrent Sessions Resume

Concurrent Session C University Business Center Room 193

1:30	Cancer Survival in California Hispanic Farm Workers, 1988-2001 Jennifer L. Dodge, MPH, Paul K. Mills, PhD, Deborah G. Riordan, MPH
1:45	Proteomic Identification of a Functional B3-Integrin Interaction with a Protease: Implications for Cancer Metastasis Jason Bush, PhD
2:00	Hmong Women Issues: Identity and Mental Health Song Lee, PhD
2:15	Patients Attitude Towards Physicians and Health Screening Issues among First-Generation Asian-Indian Immigrants to the United States Kiran Toor, MD
2:30	Evolutionary Control of Large Damages to Steel Structures During Seismic Activity Thomas Attard, PhD, Robin Dansby, PhD, Mirjana Marusic, PhD
2:45	Non-Destructive Sensor Development of the Detection and Measurement of Residual Stresses Thomas L. Nguyen, PhD

3:00 Break--University Business Center, Gottschalks Gallery3:30 Concurrent Sessions Resume

Concurrent Session D **University Business Center** Room 194AB

1:30	Women in the Secured Housing Unit of California Prisons Stephanie N. FrattoTorres, Barbara Owen, PhD
1:45	An Appreciative Inquiry Ethnography of a Native American Tribe Trudy L. Tucker, Connie Conlee, PhD
2:00	Communication Theory: A Graduate Student's Grappling with Questions, Answers and Processes Kherstin Khan, Diane Blair, PhD

- 2:15 Breaking News: Are the Media Creating an Illusion of Importance? Faith Sidlow, Tamyra Pierce, PhD
- The Motives for Viewing Reality Television among Age, Sex and Race Laine J. Hendricks, Tamyra Pierce, PhD 2:30
- Convergence Education Kirstie Hettinga, Tamyra Pierce, PhD 2:45

Break--University Business Center, Gottschalks Gallery 3:00 3:30

Concurrent Sessions Resume

Concurrent Session E University Business Center Auditorium, Room 191

- 3:30 Fluid Biomechanics of a Mussel Bed
 Sean Thompson, Emily Carrington, Gretchen Moeser,
 Brian Tsukimura, PhD
- 3:45 Settling Behavior of Planktonic Marine Larvae in Realistic Flow and Wave Conditions
 David Sischo, M.A.R. Koehl, Tom Hata,
 Tim Cooper, Michael Hadfield, Brian Tsukimura.. PhD
- 4:00 Unique Thiol Compositions of Two Actinomycetes
 Todd L. Johnson, Mamta Rawat, PhD
- 4:15 Spatial and Temporal Variations in Levels of Particle-Bound Pollutants in Fresno
 Maria Woodcock, Enrique Lopez, Kenndy Vu, Laiky Nor, Alam Hasson, PhD
- 4:30 Degrading Propargyl Bromide with Soil Bacteria Antonio Toribio, Arthur Johnson, Alice Wright, PhD
- 4:45 Diesel Exhaust Chemicals Identified in Cerebrospinal Fluid and Possible Effects in Various Regions of the Brain in a Rodent Model

 Jarrad Merriman, Tim R. Tyner, MS, Victor McCray, MD, Kent Yamaguchi MD, Dianne Lim, Alam Hasson, PhD, Mukesh Misra, MD
- 5:00 Effects of Diesel Exhaust Chemicals on Wound Healing in Healthy and Diabetic Mouse Models
 Tiffany Friedland, Tim R. Tyner, MS, Antonio Toribio, Kennedy Vu, Kenty Sian, MD, Kent Yamaguchi, MD
- 5:15 Conclusion--University Business Center, Gottschalks Gallery Proceed to Student Awards and Social Hour

Concurrent Session F University Business Center Room 192

3:30	Effects of Racial Concordance, Physician Sex, and Patient Education on Patient Satisfaction Diana L. Stuber, Scott Moore, PhD
3:45	Prehospital Intranasal Versus Intravenous Administration of Naloxone for Narcotic Overdose Ian Dryden, Tania Robertson, MD, Gregory W. Hendey, MD, Geoff Stroh, MD, Marc Shalit, MD
4:00	Size-Segregated Measurements of Organic Compounds in Particulate Matter in the Central Valley Enrique Lopez, Myeong Chung, Christina Sabado, Dora Rendulic, Mark Sorenson, Kennedy Vu, Laiky Nor, Alam Hasson, PhD
4:15	Gross Alpha Radiation Levels in Private Drinking Water Wells in Foothill Areas of the Sierra Nevada Mountains Jessica Woody, Sandra Donohue, PhD
4:30	If You Build It, Who Will Come? Landbird Response to Riparian Restoration at the San Joaquin River National Wildlife Refuge Karl Kraft, Madhusudan Katti, PhD
4:45	Effects of the Parasitic Nematode Meloidogyne incognita on Transgenic Tobacco Plants Expressing an Antisense Construct of the Cell Death Fumiko Yamamoto, Glenda W. Polack, Alejandro Calderon-Urrea, PhD
5:00	The Foraging Behavior of Birds Along Urban Gradients Caroline Rhodes, Madhusudan Katti, PhD
5:15	ConclusionUniversity Business Center, Gottschalks Gallery

Concurrent Session G University Business Center Room 193

- 3:30 A Good Baby: Infant Sleep and Parental Judgments
 about Moral Goodness
 Kathleen Ramos, PhD, Amanda Lockling, Melissa Dittmar
- 3:45 California Statewide Family Medicine Preceptorship Program's Impact on Medical Students' Specialty Selection:

 A Seven-Year Analysis
 Victoria S. Kubal, MS, BCBA, John Zweifler, MD, MPH,
 Susan Hughes MS
- 4:00 Ambivalent Relationship: The United States and the Russian Constitutional Monarchy 1905-1911 Greg Morris
- 4:15 An Evaluation of a Loneliness Intervention Program for College Students
 Sean Seepersad, PhD
- 4:30 Reassessing Computer Aided Design in Architectural Practice Jason Charalambides, PhD
- 4:45 Erosion Control Using Compost Soil on Roadside Embankment
 Ming Xiao, PhD, Christopher Abela, Keith Mortensen,
 Michael Beltran, Aaron Oliver
- 5:00 Crown Delineation and Profile Characterization of Old Growth
 Conifer Forest Using LIDAR Data
 Segun Ogunjemiyo, PhD
- 5:15 Conclusion--University Business Center, Gottschalks Gallery Proceed to Student Awards and Social Hour

Concurrent Session H University Business Center Room 194AB

3:30	Applying the Frustration-Aggression Hypothesis to Driving Situations: A Preliminary Analysis Hilary Casner, Sunde Nesbit, PhD
3:45	Facial Composite Identification Across Delay and Identification Procedure Katelyn Kelly, Lisa Silvera, Karl Oswald, PhD
4:00	Bedtime for Baby: Parental Responsiveness During Infant Sleep Routines Amanda Lockling, Melissa Dittmar, Kathleen Ramos, PhD
4:15	The Relationship Between Exercise and Perceived Control: A Meta-Analysis Ashley J. Gosney, Sunde Nesbit, PhD, Paul Price, PhD
4:30	The Montreal Cognitive Assessment, MoCA: A Brief Early Cognitive Screening Tool for Alzheimer's Disease Andrea Salazar, Amanda Mortimer, PhD, Linda Hewett, Loren Alving
4:45	Eyewitness Memory in Realistic Context Adam B. Hess, Hilary Casner, Bethany Ranes, Jenna Jones, Matthew J. Sharps, PhD
5:00	"Mindless" Decision Making and Contextual Reasoning in Environmental Issues Matthew J. Sharps, PhD, Adam B. Hess, Bethany Ranes

5:15 Conclusion--University Business Center, Gottschalks Gallery Proceed to Student Awards and Social Hour

Concurrent Session I Peters Business Building Room 101

3:30	Using Photovoice in Needs Assessment to Promote Action in an Underserved Community Alicia Gonzalez, John Capitman, PhD, Marlene Bengiamin, PhD
3:45	Important Issues in Power Supply Noise Measurement Arpita Paul, Ramakrishna Nunna, PhD
4:00	Arabic Influences in the Castilian Literature Maribel Moreno Galvez, Ted Bergman, PhD
4:15	Characterization of Hydraulic Properties in Salt Affected Soils with a Mini Disk Infiltrometer Vijayasatya N. Chaganti, Dave Goorahoo, PhD, Sharon E. Benes, PhD, Diganta Adhikari, PhD
4:30	Determination of Soil Water Retention Curves for Coarse and Fine Textured Soils Using a Dewpoint Potential Meter Namratha Pulla Reddy Gari, Dave Goorahoo, PhD, Diganta Adhikari, PhD
4:45	Temperament and Multiple Intelligences Lillian Nelson, Janna Mahfoud, Kathleen Ramos, PhD
5:00	Development of the Plant-Parasitic Nematode Meliodogyne incognital Saben Kane, B. Vanholme, Alejandro Calderon-Urrea, PhD

5:15 Conclusion--University Business Center, Gottschalks Gallery Proceed to Student Awards and Social Hour

Poster Session I University Business Center 12:00 p.m. until 2:00 p.m. Gottschalks Gallery

Authors will be available for questions from 12:00 p.m. until 2:00 p.m.

- (1) Understanding and Preventing Relational Aggression in Adolescent Girls
 Marites Alvarado, Elena Klaw, PhD
- (2) Modeling Radio Interference to Spacecraft Tracking Peter W. Kinman, PhD
- (3) Immediate Operation Versus Initial Conservative Management of Appendiceal Mass in Children
 Winnie Tong, David Hodge, Steven N. Parks
- (4) The Universal Appeal of James Bond: Mythological Mystery Man Steven Armstrong, Gabriele Rico, PhD
- (5) Geo-Spatial Modeling of Wine Grape Quality Using GIS Sivakumar Sachidhanantham, Robert Wample, PhD, Matthew Yen, PhD, Balaji Sethuramasamyraja, PhD
- (6) Synuclein and Its Role in Parkinson's Disease Parvinder Kaur, David Bruck, PhD
- (7) The Prevalence and Resident Knowledge of Metabolic Syndrome in Santa Cruz, Bolivia-Hospital Universitario Municipal San Juan de Dios Peter A. Boehringer, Steven Stoltz
- (8) Automated Computer Assessment of Carotid Artery Stenosis from 3D Medical Datasets Acquired by Computer Tomography Angiography Elizabeth Tong, MS, Max Wintermark, MD, Christine Glastonbury MBBS, Benison C. Lau, Sarah Schaeffer, MPH, Peter J. Haar, M.St., Gabriel Acevedo-Bolton, PhD, David Saloner, PhD

Poster Session I Continued University Business Center 12:00 p.m. until 2:00 p.m. Gottschalks Gallery

- (9) A New Planar Chiral Ferrocenyl Aminophosphine Ligand for Ru(II)-Catalyzed Asymmetric Transfer Hydrogenation of Acetophenone Derivatives
 Felix Perez, Saeed Attar, PhD
- (10) Synthesis and Characterization of a New Ruthenium (II) Catalyst for Asymmetric Transfer Hydrogenation of Acetophenone Derivatives Gerson Uc-Basulto. Saeed Attar. PhD
- (11) Tsunami Awareness on the Coast of Washington State
 Brynne Walker, Richard Sedlock, PhD
- (12) The Possibility of Moral Values in an Interpersonal Context:

 A Problem in Max Scheler's Phenomenological Ethics
 Robert Victor G. Miole, Richard Tieszen, PhD
- (13) Convergent Evolution of Antifreeze Proteins:
 Bioinformatics of the Genes and Proteins
 Edward Reese, V.V. Krishnan, PhD
- (14) Assistive Technology Service Delivery: A Multidisciplinary Perspective Scott Kupferman, Charles Arokiasamy, PhD
- (15) Enzyme Linked Immunosorbent Assay for Quantification of B. Thuringiensis Toxins in Genetically Modified Cotton Leslie M. Dominguez, M.L. McCullough, Alice Wright, PhD
- (16) Utilization Characteristics of CT Colonography in a US Veteran Population
 Diana Fatyga, DeVang Prajapati, MD
- (17) Impact of Ego Identity Status and Adverse Childhood Experiences on Temperament Clarity
 Janna Mahfoud, Kathleen Ramos, PhD, Lillian Nelson

Poster Session I Continued University Business Center 12:00 p.m. until 2:00 p.m. Gottschalks Gallery

- (18) Post Treatment Complications of Botulism Type A and B: A Review of Four Cases Loan Nguyen, MD, P. Volkov, MD, M. Patel, R. Libke, MD
- (19) Unexpected Death in Children 0-5 Years-Old
 Ester Gonzalez, Tina M. Garcia, Davin Youngclarke, MA,
 Nikhat Shaik, MD, Neelu Mehra MD, Don Fileds, DO
- (20) Cultural Framework and Anger Expression in Russian Immigrant Women Zhanna Bagdasarov, Christine Edmondson, PhD
- (21) Adsorption Kinetics of Antifreeze Glycoproteins
 Joshua Silveira, V.V. Krishnan, PhD
- (22) Normative Data for the Gaze Stabilization Test (GST) Protocols on the inVision for High Performance Athletes Rachel S. Worman, SPT, Peggy R. Trueblood, PhD, PT, Toni Tyner, PT, MLS, Scott R. Sailor, EdD
- (23) Synthesis and Characterization of One Dimensional ZnO Nanostructure
 Jenny Parra, J. Jasinski, V.J. Leppert, V. Katkanant, D. Zhang
- Quantification of Volatile Organic Compound Emissions from California Dairy Facilities
 Mark Sorenson, Dale Sullivan, Phillip Alanis, Brian Shamp, Koua Cha, Alam Hasason, PhD
- (25) A Key to Brachyuran Megalopae of the San Francisco Bay Estuary Vanessa Becerra, Brian Tsukimura, PhD

Poster Session II University Business Center 3:00 p.m. until 5:00 p.m. Gottschalks Gallery

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

- (1) Light Intensity Effects on Structure and Development of Vegetative and Reproductive Leaves of Podophyllum peltatum (Mayapple)
 Taylor Sanchez, Alicia Brookshire, John V.H. Constable, PhD
- (2) Selection of Extraction Conditions for Phenylephrine in Clandestine Methamphetamine Laboratory Case Samples
 Shaylene Scott, Nathan Sunderson, Alan Gandler, Leonid Vydro, Eric Person, PhD
- (3) Refinement of Linguistic Intonation Patterns Through Use of Musical Criteria
 Jered Sherrill, Benjamin Boone, PhD
- (4) Influence of Mutations on the Folding Transition State of Proteins: FSD-1 as a Model System Jaspreet Singh, Gurinder Ghotra, Rajadas Jayakumar, Yong Duan, V.V. Krishnan, PhD
- (5) Does Dabbing the Skin Surface Dry During Ice Massage Treatment Accentuate Cryotherapeutic Effects?

 Amrik Sidhu, Gary Lentell, DPT, PT, Robert Pettitt, PhD, ATC, CSCS
- (6) The Effects of Depression on Anger Expression in Romantic Relationships
 Debbie Schmidt, Christine Edmondson, PhD
- (7) The Effect of the Oakhurst Wastewater Treatment Plant on Fresno River Water Quality
 Megan R. Bailey, Steve Blumenshine, PhD
- (8) Phenotypic Characterization and Genetic Mapping of Traits in the Pepper Root Rot Pathogen Nicholas E. Blanchard, Victoria Gomes, David Sischo, Kaitlin Crawford, Michael Ruiz, Steven Miller, Gurmel Sidhu, James P. Prince, PhD

Poster Session II Continued University Business Center 3:00 p.m. until 5:00 p.m. Gottschalks Gallery

- (9) The Effects of Urban Development and Climate on Species Distribution in the San Joaquin Valley, California Danny Tovar, Sean Boyd, Conrad Braganza, Vanessa Cadiz, Scott Hatfield, Bobby Kamansky, Madhusudan Katti, PhD, Laura Miller, Greg Phillips, Salvador Salcido, Jose Soto, Jim Vang
- (10) Disease Resistance Genes Cluster in the Genome of Pepper
 Dylan B. Storey, Ebenezer A. Ogundiwin, Linda Donnelly,
 David Sischo, Gurmel Sidhu, James P. Prince, PhD
- (11) A Comparison of Data Dissemination Protocols for Large-Scale Wireless Sensor Networks
 Chulho Won, J. Youn, Hong Zhou
- (12) Changing Landscapes and Sustainability: Fresno County's Ecological Footprint and the Effects of Urbanization Craig Kellogg, V. Becerra, C. Braganza, K. Kraft, G. Phillips, S. Salcido, J. Soto, J. Vang, M. Katti, PhD
- (13) Anger Expression within Conduct and Intermittent Explosive Disorders
 Janet Saenz, Christine Edmondson, PhD
- (14) Protein Profile of Transgenic Nicotiana tabacum Plants Expressing Caenorhadbitis elegans' Cell Death Genes Christian G. Aguilar, Alejandro Calderon-Urrea, PhD
- (15) An Investigation of Quinones as Biomarkers for Exposure to Air Pollution Kennedy Vu, Dianne Lim, Akihiro Ikeda, Christina Sabado, Tim Tyner, Alam Hasson, PhD
- (16) Differential Aggressive Responses to Male and Female Provoking Situations Coleman Tuttle, Sunde Nesbit, PhD

Poster Session II Continued University Business Center 3:00 p.m. until 5:00 p.m. Gottschalks Gallery

- (17) Community Partners in Research: The Tib Trainer
 Marilyn E. Miller, PhD, PT, GCS, Peggy Trueblood, PhD, PT
- (18) Selenium Impact on Frog Corticosterone Level and Development Foung Vang, Brian Tsukimura, PhD, Patrick Kelly, Ryan Earley
- (19) How Spatial is Social Distance?

 Justin L. Matthews, Teenie Matlock, PhD
- (20) Case Study: Schwannomatosis with Involvement of Multiple Nerves
 Tai Yiu Tong, Sara H.Y. Tong, E.W.K. Lee, MD
- (21) Incorporating GPS-GIS Technology in Student Learning to Enhance Decision-Making Competency
 Sandra J. Donohue, DPA, REHS
- (22) Quantitative Analysis of the Effects of Ionizing Radiation on Arabidopsis thaliana
 Sheppora Hood, Takako Kurimoto, John V.H. Constable, PhD, Amir Huda, PhD
- (23) Characterization of Mycobacterium smegmatis 137E6 transposon Mutant Hasan Alhaddad, Venkata Kethanaboyina, Mamta Rawat, PhD
- (24) Identification and Characterization of Two Diamide Sensitive
 M. smegmatis Transposon Mutants
 Teresa Lee, Swetha K. Kovvali, Mamta Rawat, PhD
- (25) Characterization of Mycobacterium smegmatis Mutant 109C4
 Blair Riding, Kaushiki Mahapatra, Mamta Rawat, PhD
- (26) Short-Chain dehydrogenase-reductase Gene Interrupted in Diamide Sensitive Mycobacterium I transposon Mutant Chad Jorgensen, Yaw Anane, Mamta Rawat, PhD

NOTES

Judges for Undergraduate and Graduate Student Presentations and Poster Presentations:

Dr. Mark Arvanigian California State University. Fresno Dr. Saeed Attar California State University, Fresno Dr. Sharon Benes California State University, Fresno Dr. Alejandro Calderon-Urrea California State University, Fresno Ms. Marie Fisk California State University, Fresno Dr. Dan Griffin California State University, Fresno Dr. Howard Hendrix California State University, Fresno Dr. Robert Hierholzer University of California, San Francisco Dr. Donna Hudson University of California, San Francisco Dr. Thomas McClanahan California State University, Fresno Dr. Ramakrishna Nunna California State University, Fresno Dr. Karl Oswald California State University, Fresno Dr. Siobhan O'Toole Alliant International University, Fresno Mr. Chuck Radke California State University, Fresno Dr. Mamta Rawat California State University, Fresno Mr. Rick Stewart Fresno City College Dr. Alice Wright California State University, Fresno

University of California, San Francisco

Mr. Davin Youngclarke