

IGPS 2014 PROGRAM

April 3 | Alumni Center Performances | 3-5:30pm

3-3:20 *Ah, then it's TESOL for you, my boy!: Explaining my academic career at a neighborhood potluck*

Grant Eckstein, Linguistics

3:20-3:40 *Train, immerse, open: a listening structure*

Sean Feit, Performance Studies

3:40-4 *The Father*

Susana Ponce, English/Creative Writing

4-4:20 *HolilackswEEPcrutchtraincommon*

Dennis Mateo Somera, Performance Studies

4:20-4:40 *Physical Beats*

La Teesa Joy Walker, Performance Studies

4:40-5 *Take off your Genes: Seducing Domesticated Plants & Animals to Depend on Humans*

Donnelly A. West, Plant Biology

5-5:20 *Mariachi Cielito Lindo*

Miguel A. Zepeda Torres, Spanish and Portuguese.

Vocals: Kim Morris; Carmen Valdivia, Katie Clarkson;

Rebeca Rubio; Barbara Gun. Harmony (Guitars and

vihuela): Julio de Haro; Linda Reznicek & Robert Blake. Base

(guitarrón): Miguel García & Miguel Zepeda. Trumpets:

Ruddy Cisneros; Hugo García. Violins: Tim Johnson & Eric

Jensen. Accordion: Emily Kuffner.

April 3 | UC Davis Conference Center Ballroom | Poster Sessions | 6-8:30pm

Wildfire Smoke Exposure During Infancy Results in Constitutive Attenuation of Transcription Factor and Signaling Genes Associated with the Toll-Like Receptor Pathway in Adults

Carolyn Black, Immunology | Poster

Co-authors: Joan E. Gerriets; Justin H. Fontaine; Edward S.

Schelegle; Fern Tablin; Lisa A. Miller.

Optical biosensors and cell culture microsystem for an in vitro model of Alzheimer's Disease

Joey Broussard, Neuroscience | Poster

Co-authors: Lin Tian; Yandong Gao; Pantea Ghebi; Alex

Revin.

Treating Hypertension with Positive KCa channel gating modulators with selectivity for KCa3.1

Brandon M. Brown, Pharmacology | Poster

Co-authors: Nichole Coleman; Heike Wulff.

Exogenous IL-12 Therapy During Infancy Results In Exacerbation Of The Asthma Phenotype

Candace Burke, Immunology | Poster

Co-authors: Joan E. Gerriets; Lisa A. Miller.

Ambient Particulate Matter Enhances Pulmonary Allergic Immune Responses

Alejandro Castañeda, Immunology | Poster

Co-author: Kent E. Pinkerton.

Interaction between $\alpha 4\beta 1$ integrin and Insulin-like growth factor-1 (IGF1) and its role in IGF1 signaling in hematologic cancer

Dora Maria Cedano Prieto, Pharmacology | Poster

Co-authors: Jessica Yu; Yoko Takada; Yoshikazu Takada.

BDE-47 and BDE-49 Selectively Disrupt Axonal Outgrowth in Cultured Hippocampal Neurons

Hao Chen, Pharmacology and Toxicology | Poster

Co-authors: Dongren Yang; Pamela J. Lein.

Hungry for War: How Food Insecurity Fuels Conflict

Wilfred Chow, Political Science | Poster

Co-author: Firas Abusneneh.

Identification of microbial phenolic metabolites and host interactions of gut bacteria in pigs after ingesting grape seed proanthocyanidins

Ying Yng Choy, Viticulture | Poster

Co-authors: Paola Quifer-Rada; Dirk M. Holstege;

Christopher C. Calvert; Steven A. Frese; Andrew L.

Waterhouse.

The Role of of Transient Receptor Potential Vanilloid 1 (TRPV1) channels in Niacin-Induced Cutaneous Vasodilation

Heather Clifton, Molecular Cellular Integrate Physiology |

Poster

Co-author: Saul Schaefer.

Politically Active Nurses: An Exploration of the Transition into Policy and Politics

Kristen Connor, Nursing | Poster

Complementary Roles of Medial Temporal Lobe Subregions During Spatiotemporal Memory Retrieval

Milagros Copara, Neuroscience | Poster

Co-authors: Abdul Hassan; Colin Kyle; Laura Libby;

Charan Ranganath; Arne Ekstrom.

Analysis of mosquito (Culex quinquefasciatus) human host volatiles by GC-MS: a story of attraction

Alyssa De La Rosa, Agricultural and Environmental Sciences

| Poster

Co-author: Walter Leal.

Tribal Collaboration in IRWM: Challenges, Solutions and Recommendations

Danielle V. Dolan, Community Development | Poster

Changes in cortical connectivity of primary somatosensory cortex following early loss of vision in the short-tailed opossum

James Dooley, Neuroscience | Poster
Co-author: Leah Krubitzer

Reviewing Institutional Climate Adaptation Decision-Making: California's Water Sector

Amanda Fencl, Geography | Poster

Optical properties of soot particles: measurement-model comparison

Sara Forestieri, Civil and Environmental Engineering | Poster
Co-authors: Chris Cappa; Andrew Lambe; Daniel A. Lack; Paola Massoli; Eben S. Cross.

Elucidating the epitopes of maternal antibodies in ASD: Establishing biomarkers and developing an animal model

Elizabeth Fox, Immunology | Poster
Co-authors: Judy Van de Water; Karen Jones.

Improving Range Determination by Digital Filtering on FMCW radar output signal

Maria C. Gonzalez, Electrical and Environmental Engineering | Talk

Evidence for large-scale plasticity following early postnatal lesions in the rhesus monkey brain

David Grayson, Neuroscience | Poster
Co-authors: Jeffrey Bennett; Michael Buonocore; David Amaral.

Searching for an Explanation for the Relation between Adolescent Self-Esteem and Closeness with Parents

Michelle Harris, Human Development | Poster
Co-authors: Kali H. Trzesniewski; M. Brent Donnellan.

Turning water into wine: The influence of deficit irrigation on Cabernet Sauvignon yield components, wine and sensory qualities

Constantin Heitkamp, Viticulture and Enology | Poster
Co-authors: Mark Matthews; Kenneth Shackel; Hildegarde Heymann.

Impact of mechanical harvesting and optical berry sorting on grape and wine composition

David Hendrickson, Viticulture and Enology | Poster
Co-authors: Hjelmeland, A.K.; Brenneman, C.A.; Block, K.L.; Block, D.E.; Heymann, H.; Ebeler, S.E.; Anita Oberholster.

Self-Determination as a Function of Economic Pressure and Family Functioning: An SEM Analysis

Christina R. Hollifield, Human Ecology | Poster
Co-authors: Keith F. Widaman; Katherine J. Conger.

Using a HepG2 Human Cell Line and Adenoviral Vectors as a Novel Model for Resistance to Thyroid Hormone Syndrome

Robyn Jimenez, Integrative Genetics | Poster
Co-author: Martin Privalsky.

Impact of Post-Pretreatment Conditioning on Enzyme Accessibility and Water Interactions in Alkali Pretreated Rice Straw

Nardrapee Karuna, Biological and Agricultural Engineering | Poster
Co-authors: Lu Zhang; Jeffrey H. Walton; Emma R. Master; Michael J. McCarthy; Tina Jeoh.

Photooxidants in fog waters and their role in transformation of organic compounds in the atmospheric aqueous phase

Richie Kaur, Agricultural and Environmental Chemistry | Poster
Co-author: Cort Anastasio.

A Stochastic Optimality Theory Analysis of Disharmonic Finnish Roots Using the Gradual Learning Algorithm

Renee Kemp, Linguistics | Poster

Fecal shedding of foodborne pathogens by wild rodents inhabiting California farms

Christopher Kilonzo, Epidemiology | Poster
Co-authors: Xunde Li; Eduardo J. Vivas; Michele T. Jay Russell; Kristine L. Fernandez; Edward R. Atwill.

Investigating Remote Memory for Context Using Virtual Reality

Branden Kolarik, Psychology | Poster
Co-authors: Arne Ekstrom; Petr Janata.

Microglial colonization of the cerebral cortex

Anna Kreutz, Neuroscience | Poster
Co-authors: Stephen Noctor; Chris Cunningham.

Gasping for Air: Attaching and Effacing Pathogens Respire Oxygen on Epithelial Surfaces

Christopher Lopez, Microbiology | Poster
Co-authors: Eric Velazquez; Fabian Rivera-Chavez; Sebastian Winter; Andreas Baumler.

Investigation into the timing and ordering of Bio-science courses

Robert Lynch, Physics | Poster

Improving snow modeling within a coupled multi-layer soil-vegetation-atmosphere model: Potential influence on predicted water resources

Laura McGowan, Atmospheric Sciences | Poster
Co-author: Paw U; Dr. Chen.

Understanding The First Effective Vaccination Against A Cancer: Investigations of Oncogenic Marek's Disease Virus and Vaccines in Chicken

Marla C. McPherson, Integrative Genetics | Poster
Co-authors: Mary E. Delany; Charmaine M. Robinson.

Physiological tradeoffs of increased stomatal sensitivity in field grown soybean (Glycine max)

Viviana Medina, Plant Sciences | Poster
Co-author: Matthew Gilbert.

Building Links Between Early Socioeconomic Status, Cognitive Ability, and STEM Achievement

Angela Merritt, Human Development | Poster
Co-authors: Zhe Chen; Kevin Grimm.

Impact of Age and Body Fat on Increased Toxicity Following Systemic Anti-Cancer Immunotherapy

Annie Mirsoian, Immunology | Poster
Co-authors: Myriam N. Bouchlaka; Gail D. Sckisel; Arta M. Monjazebe; William J. Murphy.

Human progenitor cell response to pentosidine crosslinks in the extracellular matrix: a possible explanation for impaired diabetic bone healing

Debika Mitra, Biomedical Engineering | Poster
Co-authors: Hussain Fatakawala; Laura Marcu; J. Kent Leach.

Using Attenuated Total Reflectance Fourier Transform Infrared Spectroscopy to Optimize Surfaces for the Immobilization of Nanolipoprotein Particles

Jessica Moore, Chemistry | Poster
Co-authors: Elyse Towns; Hannah Shay; Craig Blanchette; Don Land.

Gradience and Contour in Spanish Spirantization

Miranda Morris, Linguistics | Poster

Preventing Venous Thromboembolism in Cancer Patients: A Review of the Literature

Joanna Nguyen and Rahaf Baker, Public Health | Poster
Co-authors: Jacquelin Stocking; Emily Torres; Richard White.

Effect of barrier properties of zein nanoparticles and oil-in-water emulsions on oxidative stability of encapsulated bioactive compounds

Yuanjie Pan, Food Science | Poster
Co-authors: Rohan V. Tikekar; Min S. Wang; Roberto J. Avena-Bustillos; Nitin Nitin.

Tobacco Smoke-Induced Airway Inflammation Contributes to Systemic Hypertension via Induction of Immune-Mediated Endothelial Cell Dysfunction and Pulmonary Vascular Remodeling

Alexa Pham, Immunology | Poster
Co-authors: Maggie Lin; Katherine Johnson; Janice Peake; Dale Uyeminami; Kent Pinkerton.

Using a Calibrated Flume to Validate Flows from a Residential Storm Drain Outfall

Bruno Pitton, Horticulture | Poster
Co-authors: Loren Oki; Jared Sisneroz.

Perception of Registered Nurses Regarding Medication Administration in Skilled Nursing Facilities

Ellie Potter, Nursing | Poster
Co-author: Deborah Ward.

Phase Behavior Analysis of Lipid Bilayer Membranes on Solid Supports Using Molecular Dynamics

Holden T. Ranz, Chemical Engineering and Materials Science | Poster
Co-author: Roland Faller.

Criminalizing Tradition in Native California

Cutchá Risling Baldy, Native American Studies | Poster
Co-author: Stephanie Lumsden.

At the heart of the issue: underlying mechanisms in heart failure

Rafael Shimkunas, Pharmacology | Poster
Co-authors: Zhong Jian; Nipavan Chiamvimonvat; Leighton T. Izu; Kit S. Lam; Ye Chen-Izu.

Investigating the Role of Surfactant in Encapsulating Oil-in-Water Emulsions in a Novel Spray-Dried Alginate Matrix

Scott Strobel, Biological and Agricultural Engineering | Poster
Co-authors: Amol Chaudhari; Herb Scher; Nitin Nitin; Tina Jeoh.

Licensed and unlicensed natural killer cells show differential immunoregulatory and effector mechanisms during viral infection

Can Sungur, Immunology | Poster
Co-authors: Can M. Sungur; Anthony E. Zamora; Nicole Baumgarth; Claire Pomeroy; William J. Murphy.

The Role of IL-17 in the Pathogenesis of Psoriatic Arthritis

Erika Suzuki, Immunology | Poster
Co-authors: Ritu Sarin; Dennis Wu; Emanuel Maverakis; Iannis E. Adamopoulos.

Using a Stages of Change Approach to Explore Opportunities for Increasing Bicycle Commuting

Calvin Thigpen, Transportation Technology and Policy | Poster
Co-authors: Brigitte Driller; Susan Handy.

Association between fecal indicator bacteria in water and cattle grazing management and spatial factors in the Sierra Nevada meadows of California

Anyarat Thiptara, Epidemiology | Poster
Co-authors: Philip H. Kass; Kenneth W. Tate; Edward R. Atwill.

Distal Forelimb Kinematics During the Extended Trot of Dressage Horses Ridden on Two Different Surfaces

Jill Thornton, School of Veterinary Medicine | Poster
Co-authors: Jennifer Symons; Tanya Garcia; Sue Stover.

Age-related Change in Recovery from Retinal Adaptation

Megan Tillman, Neuroscience | Poster
Co-authors: Athanasios Panorgias; Erich E. Sutter; John S. Werner.

Saving Bypass Grafts to Arteries Below the Knees Using Catheter-Based Therapies Instead of Surgery

Greg Westin, School of Medicine | Poster
Co-authorS: Ehrin J. Armstrong; Christopher R. Balwanz;
William C. Pevec; John R. Laird; David L. Dawson.

Chamber and Diffusive Based Carbon Flux Measurements in an Alaskan Arctic Ecosystem

Eric Wilkman, Ecology | Poster
Co-authors: Walter Oechel; Donatella Zona.

Improving the Quality of Health Care: Hand Hygiene Compliance and Environmental Services at the UC Davis Medical Center

Dan Woo, Public Health | Poster
Co-authors: Bronwyn Fields; Maile Mauer;
Jacqueline Stocking; Karen Mondino.

IL-12/Th1 and IL-23/Th17 biliary microenvironment in primary biliary cirrhosis: Implications for therapy

Chen-Yen Yang, Immunology | Poster
Co-authors: Xiong Ma; Koichi Tsuneyama; Toru Takahashi;
Naga P. Chalasani; M. Eric Gershwin.

Unfolding the mysteries behind interleukin 1 receptor antagonist

Jessica Yu, Dermatology | Poster
Co-authors: Masaaki Fujita; Jun Saegusa; Yoshihiro Izumiya;
Yoko Takada; Yoshikazu Takada.

Antigen-nonspecific memory CD8+ T cells display phenotypic and functional parallels during cancer immunotherapy and influenza infection

Anthony E. Zamora, Dermatology | Poster
Co-authors: Gail D. Sckisel; Julia K. Tietze; Nicole Baumgarth; William J. Murphy.

Identifying human-cynomolgus macaque genes contributing to the susceptibility of malaria parasite Plasmodium knowlesi

Xinjun Zhang, Anthropology | Poster
Co-author: David G. Smith.

April 4 | UC Davis Conference Center

Ballroom A | Talk Session 1A

9-9:15 *Novel application of simultaneous multimodality imaging in the mouse brain during stroke*

Yu Ouyang, Biomedical Engineering. Co-authors: Martin S. Judenhofer; Jan Marik; Simon R. Cherry.

9:15-9:30 *Ecological impacts of lobster condos on Bahamian marine species*

Angela Doerr, Ecology

9:30-9:45 *Tough Chicks: Constructing Femininity in Women's Water Polo*

Megan Saucke, Sociology

9:45-10 *Distinctive roles of attention and working memory in visual crowding*

Felix Bacigalupo, Neuroscience. Co-author: Steven J. Luck

10-10:15 *Language, Music, and the Brain: Word, chord, and nonobject processing in the 'Visual Word Form Area'*

Michelle Cohn, Linguistics. Co-author: David Corina

Ballroom B | Talk Session 1B

9-9:15 *Neurobiological and Neuroimmune Changes Following Maternal Immune Activation in Non-Human Primates*

Ryan Phillips, Neuroscience. Co-authors: Doug J. Rowland; Melissa Bauman; David Amaral; Kim McAllister; Cameron Carter.

9:15-9:30 *Ground squirrels manipulate offspring sex in response to local population density*

Caitlin Wells, Ecology. Co-author: D. H. Van Vuren.

9:30-9:45 Talk withdrawn.

9:45-10 *The performance effects of edge-based heat transfer on lithium-ion pouch cells*

Matthew Klein, Mechanical and Aerospace Engineering.

Co-authors: Shijie Tong; Jae Wan Park.

10-10:15 *Environmental influences on microbial mat biogeography in ice-covered Lake Fryxell, Antarctica*

Tyler Mackey, Earth and Planetary Sciences. Co-authors: Hawes, I; Sumner, DY; Forrest, AL; Jungblut, AD.

Ballroom C | Talk Session 1C

9-9:15 *Automated Data Quality Control through Scientific Workflow System*

Tianhong Song, Computer Sciences. Co-author: Bertram Ludeascher.

9:15-9:30 *Improving drought tolerance by the over expression of LeNCED (9-cis Epoxy-carotenoid Dioxygenase) gene with the rd29A promoter in Petunia (Petunia x hybrida)*

Alejandro Estrada, Plant Sciences. Co-authors: Michel Reid; Cai-Zhong Jiang.

9:30-9:45 *Does production of methane in the gut affect glucose tolerance?*

Bret Rust, Nutritional Biology. Co-authors: William Horn; Eun Bae Kim; Maria Marco; Danielle Cooper; Nancy Keim.

9:45-10 *Reading the Fine Print? An Experimental Test of Campaign Finance Disclosure*

Matthew Lesenyie, Political Science

10-10:15 *Highly efficient one-pot multienzyme (OPME) synthesis of glycans with fluoruous-tag assisted purification*

Joel Hwang, Chemistry. Co-authors: Hai Yu; Xi Chen.

Conference Room A | Talk Session 1D

9-9:15 *High-Resolution Manometry for Improved Clinical Diagnosis of Esophageal Disorders*

Tarini Ullal, School of Veterinary Medicine. Co-authors: Stanley Marks; Peter Belafsky; Jeffrey Conklin.

9:15-9:30 *Improving Quality of Life, Motor and Cognitive Functioning in people with Parkinson's Disease through Dance Movement Training*

Maria Ventura, Psychology. Co-authors: Jessica Ross; Karen Sigvardt; Elizabeth Disbrow.

9:30-9:45 *Implicit and Explicit Writing Prompt Concerns in School-Age Children with High-Functioning Autism Spectrum Disorder*

Matthew C. Zajic, School of Education. Co-authors: Nancy S. McIntyre; Stephanie Novotny; Lindsay Swain-Lerro; Tasha M. Oswald; Peter C. Mundy.

9:45-10 *A process for energy-efficient high-solids fed-batch enzymatic liquefaction of cellulosic biomass*

Maria J. Cardona, Chemical Engineering and Materials Science. Co-authors: Emilio J. Tozzi; Nardrapee Karuna; Tina Jeoh; Robert L. Powell; Michael J. McCarthy.

10-10:15 *Discovering the Function of the Stick Insect Midgut Appendices*

Matan Shelomi, Entomology. Co-authors: Lynn S. Kimsey; Brian R. Johnson.

Ballroom A | Talk Session 2A

10:30-10:45 *The Effect of Unemployment Insurance on the Unemployed's Well-Being*

Chloe N. East, Economics. Co-authors: Elira Kuka.

10:45-11 *Utilizing wild *Capsicum annuum* germplasm for breeding *Curtovirus* resistance in cultivated pepper*

Randi Jimenez, Plant Sciences. Co-authors: Li-Fang Chen; Theresa Hill; Robert L. Gilbertson; Allen Van Deynze.

11:00-11:15 *SBA Improves Pregnancy Outcomes; Exploring Why Some Angolan Women Chose Home Birth*

Stacy L. Alves, Nursing

11:15-11:30 Talk withdrawn.

11:30-11:45 *Illuminating ion channel activity in cells with glowing tarantula toxins*

Kenneth Eum, Physiology. Co-authors: Drew Tilley; Sebastian Fletcher-Taylor; Vladimir Yarov-Yarovoy; Jon T. Sack.

Ballroom B | Talk Session 2B

10:30-10:45 *A Focus on Form Approach to Teaching L2 French Morphology*

Abram J. Jones, Education

10:45-11 *Isobutanol production from cellobiose in *Escherichia coli**

Shuchi H. Desai, Microbiology. Co-authors: Christine A. Rabinovitch-Deere; Yohei Tashiro; Shota Atsumi.

11:00-11:15 *Design of Dual-Access-Technology femtocells*

Ahmed Elsherif, Electrical and Computer Engineering. Co-authors: Fujitsu Wei-Peng; Fujitsu Akira Ito; Zhi Ding.

11:15-11:30 *Obscenity and Editorship*

Jordan S. Carroll, English

11:30-11:45 *Environmental Certification of Products*

Michael Levy, Ecology Sciences. Co-authors: Matthew Hoffman; Vicken Hillis; Mark Lubell.

Ballroom C | Talk Session 2C

10:30-10:45 *Fish Health Index: Development and validation for Delta Smelt*

Alireza Javidmehr, Epidemiology. Co-authors: Philip H. Kass; Tomo Kurobe; Dolores Baxa; Shawn Acuna; Swee Teh.

10:45-11 *Learner achievement in Mutsun revival: Report on a linguist-learner partnership*

Lajos Szoboszlai, Linguistics

11-11:15 Talk withdrawn.

11:15-11:30 *Retinal waves regulate laminar targeting and the functional development of retinogeniculate pathway*

Samuel Failor, Neuroscience. Co-authors: Barbara Chapman; Hwai-Jong Cheng.

11:30-11:45 *"This is Not the End of Language": Exploring the Materiality of Navajo Poetics in Orlando White's 'Ats'iits'in'*

Patricia Killelea, Native American Studies

Conference Room A | Talk Session 2D

10:30-10:45 *Dewetting Transition Investigation of Ni Thin Films on Strontium Titanate Oxide via High Temporal Resolution*

Sahar Hihath, Physics. Co-author: Klaus van Benthem.

10:45-11 *Can you ask me a different way, please?*

Angel Ruiz Blanco, Spanish and Portuguese

11:00-11:15 *Heterogeneities in the transmission of avian malaria parasites: Implications for the role of mosquitoes as superspreaders*

Jenny Carlson, Entomology. Co-authors: Erika Walther; Rebecca Trout-Fryxell; Lisa A. Tell; Ravinder N.M. Sehgal; Anthony Cornel

11:15-11:30 *Enhancing the therapeutic value of mesenchymal stem cells for bone defects and heart attacks*

Allison Hoch, Biomedical Engineering. Co-author: J. Kent Leach.

11:30-11:45 *Flocculating yeast and the mystery of the difficult-to-ferment Chardonnay*

Anna Mantheakis, Viticulture and Enology. Co-author: Linda F. Bisson.

Conference Room B | Panel Session 1

10:30-11:10 *Animals & Other Nonhumans in Comparative Literary Studies*

Ted Geier and Gareth Love, Comparative Literature and French. Co-authors: Amy Riddle; Cordelia Ross; Sara Petrosillo.

11:15-11:45 *Critical Encounters: Dialogues on Ibero-American Theory*

Daniela Suarez, Spanish and Portuguese. Co-authors: Kayce Davis; Jose Ortigas.

Conference Room B | Panel Session 2

12:30-1:10 *Leveraging your academic training for a career in Science/Public Policy and Advising*

Amandeep Kaur, Physics. Co-authors: Erin Arms; Matt Robbins.

1:15-1:45 *Bridging Disciplinary Barriers to Generate Robust Approaches to Vascular Disease*

Greg Westin, School of Medicine.

Co-authors: Matthew Silvestrini; Sophia Fang; Joanna Hale; Hassein Fatakdawala.

Ballroom A | Talk Session 3A

12:30-12:45 *Deletion of leptin signaling in vagal afferent neurons results in an obese phenotype*

Charlotte Ronveaux, Veterinary Medicine. Co-authors: Lartigue, G.; Raybould, H.E.

12:45-1 *Choices for A Brighter Future: Hybrid Renewable Energy Systems*

Xiaonan Wang, Chemical Engineering and Materials Science. Co-authors: Ahmet Palazoglu; Nael H. El-Farra.

1-1:15 *Neural Mechanisms for Attention: Covariance Optimization*

Douglas Totten, Neuroscience. Co-author: William DeBello.

1:15-1:30 *Tracing Biology's Unseen Processes with Isotopic Analysis of Amino Acids: Advancements in Practice and Application*

Robert Walsh, Ecology. Co-author: Chris Yarnes.

Ballroom B | Talk Session 3B

12:30-12:45 *Fire-management interactions in Sierra Nevada Forests: Consequences for forest health and plant diversity*

Jens Stevens, Plant Sciences. Co-authors: Hugh Safford; Andrew Latimer.

12:45-1 *From Pond Scum to Biofuel: How Algae Can Power Our World*

Lisa Anderson, Chemistry

1-1:15 *Breast-and bottle-fed infant rhesus macaques develop distinct gut microbiota and immune systems*

Nicole Narayan, Integrative Genetics. Co-authors: Amir Ardeshir; Gema Mendez-Lagares; Ding Lu; Marcus Rauch; Yong Huang; Koen K.A. Van Rompay; Susan V. Lynch; Dennis J. Hartigan-O'Connor.

1:15-1:30 *Uptalk in Context*

Emily Moline, Linguistics

1:30-1:45 *The Oxidation of Particulate Matter: A Case for the Importance of Secondary Chemistry*

Katheryn Kolesar, Civil and Environmental Engineering. Co-authors: Christopher Cappa; Gina Buffaloe

Ballroom C | Talk Session 3C

12:30-12:45 *Does certification pay? Evaluating the contribution of sustainability certifications and other on cacao smallholder profits*

Melissa A. Schweisguth, International Agricultural Development. Co-author: Richard Sexton.

12:45-1 *Improving Renewable Chemical Production from Photosynthetic Organisms*

Nicole Nozzi, Chemistry. Co-author: Shota Atsumi.

1-1:15 *Linking Models to Policy: Assessing inundation scenarios on the Yolo Bypass using a 2-D Hydrodynamic Model*

Laila Kasuri, Civil and Environmental Engineering.

Co-authors: William Fleenor; Robyn Suddeth; Jay Lund.

1:15-1:30 *Dynamic whole brain functional connectivity during episodic memory retrieval*

Amber Schedlbauer, Neuroscience. Co-authors: Arne Ekstrom; Milagros Copara; Andrew Watrous.

1:30-1:45 *Trade-offs between household food security and human-wildlife conflict in community conservation areas in northern Tanzania*

Jonathan Salerno, Ecology. Co-authors: Monique Borgerhoff Mulder; Craig Packer; Margherita Ghiselli.

Conference Room A | Talk Session 3D

12:30-12:45 *RNA toxicity in FXTAS caused by CGG repeat is independent of FMR1 gene*

Janet Keiter, Neuroscience. Co-authors: Janet 'Skippy' Keiter; Emily Doisy; Robert Berman; Stephen Noctor.

12:45-1 *Effects of the [GAR+] prion on S. cerevisiae physiology*

Gordon A. Walker, Viticulture. Co-author: Linda F. Bisson.

1-1:15 *Synthesis, Assembly, and Charge Transport Properties of Two-Dimensional Molecule-Nanoparticle Arrays*

Cliff McCold, Chemical Engineering and Materials Science. Co-authors: Xiaokang Wang; Tingrui Pan; Roland Faller; Joshua Hihath.

1:15-1:30 *Internet Health Information Seeking Strategies of Those Who Experience Barriers To Accessing Health Care Services*

Susan L. Perez, Nursing. Co-authors: Richard L. Kravitz; Debora A. Paterniti; Chloe Villareal; Ethan Chan; Robert A. Bell.

Ballroom A | Talk Session 4A

2-2:15 *Chemoenzymatic synthesis of heparin*

Musleh M. Muthana, Chemistry. Co-authors: Yi Chen; Jingyao Qu; Timofey Klyuchnik; Alex Siu; Xi Chen.

2:15-2:30 *A multivariate Bayesian model to predict nitrogen excretion from lactating dairy cattle*

Kristan Reed, Animal Biology. Co-authors: L.E. Moraes; D.P. Casper; J.G. Fadel; E. Kebreab.

2:30-2:45 *The critical role of secreted IgM in autoimmune disease prevention*

Trang Nguyen, Immunology. Co-authors: Rebecca A. Elsner; Nicole Baumgarth.

2:45-3 *Treaty and Norm Networks: Social Construction*

and State Power

Daniel Tapia-Jimenez, Political Science

3-3:15 *Skateboard commuting: Why travelers skate as an unconventional travel mode - A look at the UCD campus travel survey*

Kevin Fang, Transportation Technology and Policy

2:45-3 *Tobacco smoke-induced Drug Resistance to EGFR-targeted Therapeutics in non-small cell lung cancer (NSCLC) is mediated by Src*

Samuel Chung, Pharmacology. Co-author: Simone Filosto.

3-3:15 *Health Education on Maternal and Child Mortality at Ho Municipal Hospital, Ghana*

Jerry John Nutor, School of Nursing

Ballroom B | Talk Session 4B

2-2:15 *Relations between Anxiety and Biases in Forecasting the Future with the Past in Mind*

Karen Hjortsvang, Psychology. Co-authors: Kristin Lagattuta; Liat Sayfan.

2:15-2:30 *The role of cellulose microstructure in enzyme hydrolysis*

Akshata Mudinoor, Biological and Agricultural and Environmental Sciences. Co-author: Tina Jeoh.

2:30-2:45 *Nanomaterials: Building from the Bottom Up*

Jorgen Rufner, Chemical Engineering and Materials Science. Co-authors: Klaus van Benthem; Ricardo Castro.

2:45-3 *Measuring Formulaic Language Adoption Among Language Varieties in Contact*

William Dyer, Linguistics

3-3:15 *Innovative Approaches to Addressing Global Problems: Challenges for Undergraduate Researchers in Vietnam*

Karen LeGrand, Microbiology Co-authors: Lina Yamashita; Glenn M. Young; Cary J. Trexler; G. David Miller.

Ballroom C | Talk Session 4C

2-2:15 *The Holocaust and Post-War Memory in Bosnia*

Amila Becirbegovic, German

2:15-2:30 *Imaging coronary arteries using a bimodal catheter combining fluorescence lifetime imaging (FLIm) and intra-vascular ultrasound (IVUS).*

Hussain Fatakdawala, Biomedical Engineering.

Co-authors: Dimitris Gorpas; Julien Bec; John W. Bishop; Jeffrey Southard; Laura Marcu.

2:30-2:45 Talk withdrawn.

2:45-3 *Regulatory mechanisms of small- and large-scale axon pruning of mouse primary visual cortex subcortical efferents*

Julie Luu, Neuroscience. Co-author: Hwai-Jong Cheng.

3-3:15 Talk withdrawn.

Conference Room A | Talk Session 4D

2-2:15 *Fertilizer nitrogen recovery is enhanced by crop residue retention in a Chiapas, Mexico maize production system*

Ryan Murphy, Geography. Co-authors: Johan Six; Steve Fonte.

2:15-2:30 *"Self-Determined": Radio as Revitalization*

Kenneth Dulock, Linguistics

2:30-2:45 *Improving Range Determination by Digital Filtering on FMCW radar output signal*

Maria C. Gonzalez, Engineering

SCHEDULE



Thursday, April 3, 2014

WALTER A. BUEHLER ALUMNI CENTER

3-5:30 p.m. Performances.....Alumni Center

UC DAVIS CONFERENCE CENTER

6-8:30 p.m. Poster Sessions.....Ballroom

Friday, April 4, 2014

8:30 a.m. Art Exhibit (all day).....Lobby

8:30 a.m. GSA Coffee, Bagel, Donut Day.....Lobby

9:00-10:15 a.m. Talk Session 1A..... Ballroom A

Talk Session 1B..... Ballroom B

Talk Session 1C..... Ballroom C

Talk Session 1D.....Conference Room A

10:30-11:45 a.m. Talk Session 2A..... Ballroom A

Talk Session 2B..... Ballroom B

Talk Session 2C..... Ballroom C

Talk Session 2D.....Conference Room A

Panel Session 1.....Conference Room B

12 p.m. Lunch will be provided.....Ballroom

12:30-1:45 p.m. Talk Session 3A..... Ballroom A

Talk Session 3B..... Ballroom B

Talk Session 3C..... Ballroom C

Talk Session 3D.....Conference Room A

Panel Session 2.....Conference Room B

2-3:15 p.m. Talk Session 4A..... Ballroom A

Talk Session 4B..... Ballroom B

Talk Session 4C..... Ballroom C

Talk Session 4D.....Conference Room A

3:30-5 p.m. Resources & Organizations Fair.....Conference Room B

6:00-8:30 p.m. Keynote Speech and Awards Dinner.....Ballroom