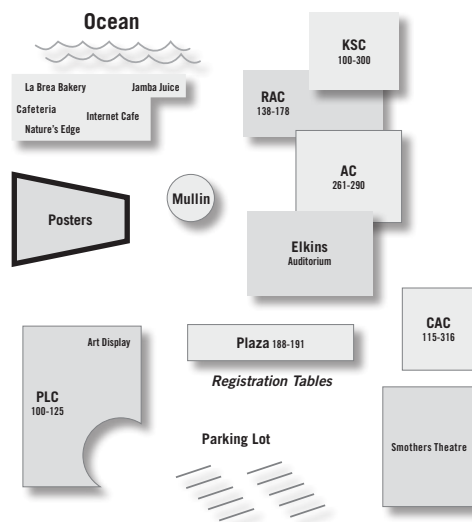


## POSTER SESSION I (11:00 – NOON)

## POSTER SESSION II (1:00 – 2:00 P.M.)

## POSTER SESSION III (3:30 – 4:30 P.M.)

Poster sessions are located in front of the cafeteria and the Kresge Room (Art Display). At least one author should stand by their poster the entire session in order to discuss projects with other student scholars. Listed below are all posters, designated by Roman numerals as either session I, II, or III. Posters are listed in alphabetical order by author's name.



- III-17 **Effect of Cytosine Derivatives on DNA-Protein Crosslinking from Guanine Oxidation**  
Marina Abramchayeva, Mount Saint Mary's College, Los Angeles
- I-80 **Over Privileged Children in Relation towards Adult Self-Esteem**  
Estella Al-Mutairi, CSU, Channel Islands, Camarillo
- I-58 **Structural Examination of Peripheral Nerves Using Optical Coherence Tomography and 3D Image Reconstruction**  
Xorge E Alanis, UC, Riverside
- II-58 **Dynamics and Control of Earthquake Resilient Structures**  
Pedro Alvarez, California State Polytechnic University, Pomona
- I-70 **Computational Analysis of Tapered Optic Sensors**  
Christopher Anderberg, California State Polytechnic University, Pomona
- I-81 **The Time-Course of Temporal Recalibration: Stable and Noise Conditions**  
Conor D Anderson, Occidental College, Los Angeles
- I-3 **Community Based Conservation for the Sharks of Costa Rica**  
Joellen Anderson, Occidental College, Los Angeles
- I-82 **The Distress of Deployment**  
Valerie Anderson, CSU, Channel Islands, Camarillo
- I-59 **Influence of Iron Oxide Particle Size on the Photochemical Production of Hydroxyl Radical via the Heterogeneous Photo-Fenton Reaction**  
Erika Aragon, UC, Riverside
- I-4 **The Role of Artificial Neural Networks in Bacteriophage Research**  
Michael Arnoult, San Diego State University, San Diego
- III-18 **The Role of Estradiol in Altering the Susceptibility to Systemic *Candida albicans* Infection in Male and Female C57Bl/6 Mice**  
Melissa Arroyo-Mendoza, California State Polytechnic University, Pomona
- I-83 **What You See Is What You Just Heard: The Effect of Temporal Rate Adaptation on Human Intersensory Perception**  
Yih-Hsin A Ban, Occidental College, Los Angeles

- I-71 **Powder X-Ray Diffraction of Croconic Acid**  
Carlos J Barbosa, CSU, San Bernardino
- III-60 **Multiresolution Algorithms for Sparse Matrix Representation**  
Mario A Barela, UC, Santa Barbara
- I-85 **Reactions to Homelessness: The Social, Cultural, and Psychological Sources of Discrimination**  
Brooks Baumgartner, Pepperdine University, Malibu
- I-42 **Synthesis and Characterization of the Photoactive Ligand [Ru(bpy)<sub>2</sub>(5-pyCONHphen)]<sup>2+</sup>**  
Lauren M Bernau, Westmont College, Santa Barbara
- I-5 **Studying the Role of N-Glycans of Nipah Virus Envelope Proteins on Membrane Fusion and Antibody Neutralization**  
Scott B Biering, UC, Los Angeles
- I-6 **The Effects of Ischemic Preconditioning on Pulmonary Parameters and Exercise Performance at Altitude**  
Ross C Blanchard, University of Redlands
- III-19 **Silencing of the Rheb Gene in Mammalian Cells Using RNA Interference**  
Ashley R Bonneau, CSU, Channel Islands, Camarillo
- II-Art **Lilys**  
Courtney B Branch, Pepperdine University, Malibu
- II-Art **Excavation**  
Emily J Branch, Pepperdine University, Malibu
- I-43 **Isolation of Saccharides in Dairy and Soy Products by Solid-Phase Extraction Coupled with Analysis by Ligand-Exchange Chromatography**  
Kelsey R Brereton, Pepperdine University, Malibu
- II-Art **Color and Communication for the 21st Century Artist**  
Lindsey E Brittain, California Lutheran University, Thousand Oaks
- I-86 **Life Purpose & Personal Relationships: Implications of Hope**  
Brandon M Brown, CSU, Channel Islands, Camarillo
- III-20 **Characterization of Gene Transcripts from the Tarsi of the Arboreal Tarantula, *Poecilotheria regalis***  
John Carlo Brown, UC, Riverside
- I-87 **Happiness Can Be Achieved Through Family**  
Sarah E P Bryan, CSU, Channel Islands, Camarillo
- II-59 **Comparison of Freeway Terminal Junction Design Alternatives**  
Giovanni Bryden, California State Polytechnic University, Pomona
- I-88 **Parental Education and its Relation to Self Accomplishment**  
Corey Bush, CSU, Channel Islands, Camarillo
- II-81 **Terpene Content of Common Local Vegetation**  
Kiara N Calbart, Loyola Marymount University, Los Angeles

- I-72 **A Magnetic Angle Changer for Deflecting Low Energy Electrons**  
Colin F Campbell, CSU, Fullerton
- I-44 **Synthesis of a Wittig Reagent Containing Hydroxyl Groups from a Cyclic Carbonate**  
Kelsey D Cannon, Westmont College, Santa Barbara
- I-7 **Effects of Urbanization on North Carolina State University's Campus since the 1970's**  
Adrianna Cardinal-De Casas, North Carolina State University, Raleigh
- I-101 **Physical Activity, Acculturation, and Psychosocial Well-Being during Pregnancy and Postpartum**  
Kjirsten Carlson, Pepperdine University, Malibu
- III-95 **Role of Potassium Channels in Mediating Endothelium-Dependent Dilation**  
Matthew R Carter, Pepperdine University, Malibu
- I-8 **Does Size Really Matter? The Application of Allen's Rule to Cetacean Flippers**  
Jill K Cepela, San Diego State University, San Diego
- I-45 **Quantification of Provitamin A Carotenoids in Corn Using Thin Layer Chromatography and Densitometry**  
David Y Chang, Santa Monica College, Santa Monica
- I-46 **Biochemical Investigation of Phenotypic Variance in *Bdellovibrio bacteriovorus* 109J at High Cell Density**  
Evan W Chang, Occidental College, Los Angeles
- II-82 **Quantifying Hydrocarbon Microseepage over Oil and Natural Gas Deposits in Baldwin Hills, Los Angeles**  
Kylee R Chang, Loyola Marymount University, Los Angeles
- I-47 **Determining the Energetics of rIAPP and CGRP Lipid Membrane Binding Using Circular Dichroism Spectroscopy**  
Hirak T Chavda, CSU, San Marcos
- II-60 **Magnetic Nanoparticles for Water Remediation**  
Michelle Chebeir, California State Polytechnic University, Pomona
- I-9 **Anatomical Characterization of Light-Induced Gene Expression in the Mouse SCN**  
Andrew M Chiu, UC, Los Angeles
- I-2 **Russian Art and its Role as a Bridge between Western and Eastern Art**  
Yearin Cho, Occidental College, Los Angeles
- III-72 **Effects Of Propanolol on Reproductive Parameters of Fathead Minnow *Pimephales promelas***  
Ree Choe, UC, Riverside
- I-10 **A Proposal to Clarify the Effects of Flavor Expectations on a Food's Perceived Taste**  
Deborah K Chun, Occidental College, Los Angeles
- I-60 **Material Properties of Gluten-Free Cakes**  
Caralee Churchill, California State Polytechnic University, Pomona
- I-11 **Identification of Proteins that Interact with DNA Adenine Methyltransferase (Dam)**  
Eunice Comiso, Mount Saint Mary's College, Los Angeles

- I-99 **Social Capital and Development: Utilization of Community Elite for Ultra-Poor Development in Rural Bangladesh**  
George T Corbett, Occidental College, Los Angeles
- I-90 **Game On: The Relationship between Athletes, Self-Esteem, and Hope**  
Ashley Cordero, CSU, Channel Islands, Camarillo
- I-76 **Global Geological Mapping of Enceladus**  
Emma N Crow-Willard, Occidental College, Los Angeles
- I-12 **Oxidative Stress in Relation to the Lifespan of *Drosophila melanogaster***  
Carmen E Cubilla, North Carolina State University, Raleigh
- I-48 **Characterizing the Aggregation of *Salmonella* Thin Aggregative Fimbrial Protein AgfA**  
Carol F Dale, CSU, San Marcos
- I-91 **Indicators of Volunteerism: Political Orientation, Idiocentrism, and Religiosity**  
Karly Dallas, Pepperdine University, Malibu
- I-13 **Understanding Protein Stability through Destabilization: C-Terminal Truncation of CusF, a Bacterial Cu(I) Chaperone**  
Devon Michael Dally, CSU, Channel Islands, Camarillo
- I-14 **Cloning, Overexpression, and Purification of Proteins Necessary in Prostate Cancer Progression**  
Alyza S Damji, Mount Saint Mary's College, Los Angeles
- I-15 **Light Environment Influence on Sapling Performance in the Locally Dominant Neotropical Tree *Pentaclethra maculosa***  
Adrienne R Daniels, Occidental College, Los Angeles
- I-92 **Religiosity and Adversity**  
Christopher del Rosario, CSU, Channel Islands, Camarillo
- I-Art **Serenity**  
Brighton M Demerest-Smith, Pepperdine University, Malibu
- III-96 **The Effects of Acute Exercise on Executive Function in Healthy Middle-Aged Adults**  
Michelle Deneen, Pepperdine University, Malibu
- I-49 **Determination of NO<sub>x</sub> in Indoor Library Air Using Passive Sampling**  
Dane W deQuilettes, Pepperdine University, Malibu
- I-77 **Size and Shape Change in Rancho La Brea Horse Limbs during the Last Glacial-Interglacial Cycle**  
Sylvana N DeSantis, Occidental College, Los Angeles
- I-Art **The Balance between Extemporaneous and Logic**  
William Dick, CSU, Channel Islands, Camarillo
- I-16 **Visualization and Analysis of *C. elegans* VD Motor Neurons in *zyg-8* Mutants**  
Riva F DiGiacomo, Occidental College, Los Angeles
- I-Art **Study for October 23 - 24**  
Susan Doe, Pepperdine University, Malibu

- I-17 **Effects of Tidal Restrictions upon Tidal Prism and Water Quality within a Remnant Southern California Estuary: Mugu Lagoon, Naval Base Ventura County**  
Andrew Domingos, CSU, Channel Islands, Camarillo
- II-62 **GIS Based 3-D Visualization and Analysis of Landslides**  
Ryan L Douglas, CSU, Fullerton
- II-Art **Akin**  
Sunni Downing, Pepperdine University, Malibu
- I-18 **Seasonal Changes in the Vessel Anatomy of Adult and Resprouts of California Black Walnut Trees Following Wildfire**  
David Duarte, California State Polytechnic University, Pomona
- III-97 **Nematodes as a Bioassay for *E. Coli* at Different Growth Phases**  
Alexander S Duchon, UC, Riverside
- III-101 **Ground Reaction Force is Altered Following Four Weeks of Automated Locomotor Training in Spinal Cord Injured Rats**  
Jessica Duhon, CSU, San Marcos
- I-50 **Hydrogen-Deuterium Exchange NMR Reveals the Details of Ligand-Dependent Stabilization in CusF, a Bacterial Copper(I) Chaperone**  
Kevin D Eden, CSU, Channel Islands, Camarillo
- I-19 **Determinants of Dung Beetle Diversity and Abundance in a Biodiversity Hotspot in Eastern Kenya**  
Amanda L Edwards, Whittier College, Whittier
- II-68 **Water Quality and its Distribution Pattern throughout Piso Firme and the Paraguá River**  
Scott M Elder, California State Polytechnic University, Pomona
- I-20 **Lymph Node Lymphangiogenesis Precedes Metastasis**  
Jacqueline Engel, UC, San Diego, La Jolla
- I-78 **Ocean Sea Surface Temperatures Recorded by Clams Present in an Orange County Terrace Deposit**  
Marcus Vincent Enriquez, CSU, Los Angeles
- I-62 **Water Level Feedback Control System**  
Antonio Espinas, California State Polytechnic University, Pomona
- I-93 **Athletes and Self-Concept: An Exploration of Role Distance between Real and Performer Self-Concept**  
Richard A Espinoza, UC, Santa Barbara
- I-21 **Analysis of Prostate Biopsy Samples for the Markers of Prostate Cancer Progression**  
Bianca S Faridian, Mount Saint Mary's College, Los Angeles
- I-94 **Infant Video Watching and Perceptual Learning of Contrast Sensitivity**  
Cristina M Farkas, UC, San Diego, La Jolla
- I-95 **Cooperation is Indispensable**  
Elysse N Farnell, CSU, Channel Islands, Camarillo
- I-22 **The Effect of Distance from Stream Edge on Post Fire Recovery of Woody Species in the Angeles National Forest**  
Courtney A Faught, Whittier College, Whittier
- I-96 **Comparing STEM Students' Implicit Science Identity, Attitudes, and Stereotypes**  
Abdiel J Flores, California State Polytechnic University, Pomona

- II-102 **Respiratory Sinus Arrhythmia Moderates the Effects of Stereotype Threat Among First Generation College Students**  
Abdiel J Flores, California State Polytechnic University, Pomona
- III-73 **Cumulative Effects of Sea Level Rise on Soil Ecosystem Productivity and Infrastructure along the California Coast**  
Alexandra Forman, Occidental College, Los Angeles
- I-51 **Selection and Characterization of Non-Amyloidogenic Mutants of the Type II Diabetes Linked Protein, IAPP**  
Ayano Fox, Loyola Marymount University, Los Angeles
- I-52 **Application of Headspace Solid Phase Microextraction-Gas Chromatography/Mass Spectrometry (SPME-GC/MS) to the Aging of Historic and Modern Books**  
Nathan J Fuller, Pepperdine University, Malibu
- I-98 **Connecting the Dots: Providing a One Stop Shop for Students and Internships**  
Christopher Galindo, California State Polytechnic University, Pomona
- III-98 **Gestational Weight Gain Relative to Institute of Medicine Recommendations in Hispanic Women**  
Kyli N Gallington, Pepperdine University, Malibu
- II-1 **High Precision Asteroid Astrometry**  
Karen Garcia, CSU, Los Angeles
- I-57 **Masking Images**  
Rebecca L Gomez, California State Polytechnic University, Pomona
- I-79 **Age of Lake-Level Rise and Faulting in Summer Lake Basin, Lake County, Oregon Constrained by Carbon Dating of Charcoal Collected from Kelly Creek Alluvial Fan Deposits**  
Gina Gonzales, CSU, Bakersfield
- II-63 **Impact of Traffic Signal Controllers on Travel Time**  
Fernando Gonzalez, California State Polytechnic University, Pomona
- II-83 **Putting the Best Face Forward: Cosmetic Usage and Stress**  
Chandra M Gordus, CSU, Channel Islands, Camarillo
- I-23 **Effects of Recombinant TCTP Overexpression in *E. coli***  
Mary S Grabiak, CSU, Channel Islands, Camarillo
- III-99 **Pressure and Time Dependence of Reactive Dilation**  
Eric J Gray, Pepperdine University, Malibu
- I-73 **Construction and Characterization of a Fluctuation Correlation Spectrometer**  
Sonny Green, Santa Monica College, Santa Monica
- I-53 **Synthesis of Chiral Chromenes**  
Jennifer R Griffin, Occidental College, Los Angeles
- I-54 **Synthesis of N<sup>9</sup>-Modified Guanine Derivatives as G-Quadruplex Models**  
Meg Groom, Loyola Marymount University, Los Angeles
- III-74 **Bioavailability of Lead in Urban Soil Environments**  
Aida S Guido, California State Polytechnic University, Pomona

- I-24 **Verification of Pathogenic Viruses, PMMoV, Adenovirus, and Picobirnavirus as Viral Indicators of Fecal Pollution in the San Diego River and/or Sewage Treated Water**  
Bridget G Guiza, UC, San Diego, La Jolla
- I-25 **The Effect of Soy-Phytoestrogens, Genistein and Daidzein, on the Lifespan of the DAF-16 *Caenorhabditis elegans* Mutant Nematode**  
Gabriela k Gutierrez, Whittier College, Whittier
- I-55 **Characterization and Separation of Photoactive Ru-Modified Dendrimers**  
Michelle T Haas, Westmont College, Santa Barbara
- II-64 **Effect of Water Tanks on Structural Behavior under Earthquake Loads**  
Jon R Haider, CSU, Fullerton
- II-84 **Body Modifications and its Relationship to Gender and Age**  
Lauren Hamachi, CSU, Channel Islands, Camarillo
- II-77 **Evolution of Quaternary Gravels Deposited along the East-Central San Gabriel Mountains Frontal Fault System**  
Audra M Hanks, California State Polytechnic University, Pomona
- III-75 **Digital Wasteland**  
Gianna M Haro, Irvine Valley College, Irvine
- I-26 **Glucose Metabolism and Disaccharide-Induced Osmoprotection in *Sinorhizobium meliloti***  
Genevieve Hayman, University of Redlands
- I-56 **Characterization of Soil from Joshua Tree National Park**  
Lillian K Hensleigh, University of Redlands
- I-27 **Analysis of *trnE* Gene Promoters for Their Role in the Tetrapyrrole and Protein Synthesis Pathways**  
Nancy Herrera-Morales, Mount Saint Mary's College, Los Angeles
- I-28 **Modeling DNA Fragmentation Signals Observed Using Pulse Field Gel Electrophoresis**  
Rena T Hiedo, San Diego State University, San Diego
- I-29 **Improved Simulations of Image Analysis Algorithms for Subwavelength Fluorescence Microscopy with PALM and STORM**  
Forrest M Hippensteel, California State Polytechnic University, Pomona
- I-30 **Comparative Properties of Evergreen Species in Upland and Riparian Regions of the Southwestern Cape of South Africa**  
Lovvet S Hollis, Whittier College, Whittier
- II-85 **Relationship Between Body Mass Index and Motivation to Exercise**  
Kayla Hornor, CSU, Channel Islands, Camarillo
- I-31 **Utility of 454 Pyrosequencing for Design of PCR Primers that Amplify Homologous but Divergent Luciferases of Cypridinid Ostracods (Arthropoda: Crustacea)**  
Elizabeth Hovhannessian, CSU, Los Angeles
- II-37 **Synthesis of Dicitic Liquid Crystal Dimers for Organic Photovoltaics**  
Carly L Hulstein, California State Polytechnic University, Pomona
- III-21 **Behavioral Analysis of North American River Otters (*Lontra canadensis*) at Latrine Sites**  
Addison Hummel, University of Redlands



- I-32 **Selection and Characterization of Small Peptides that Inhibit the Aggregation of Amyloidogenic A $\beta$ 42**  
Michael Hunter, Loyola Marymount University, Los Angeles
- III-100 **The Effect of Moderate Muscle Fatigue on Nonlinear Measures of Lower Extremity Kinematics during Treadmill Walking**  
Hal Huynh, CSU, San Marcos
- III-65 **Caloric Intake Predetermines Alveolization in the Developing Rat Lung**  
Jasmine C Huynh, UC, Los Angeles
- II-65 **Investigation of the Influence of Roadway Features on Hit-and-Run Crashes**  
Kia Ilkhanipour, California State Polytechnic University, Pomona
- II-38 **Synthesis of Large Ba<sub>3</sub>-xKxHx(PO<sub>4</sub>)<sub>2</sub> Crystals as Solid Acid Electrolytes**  
Nicole L Ing, California Institute of Technology, Pasadena
- I-33 **Mapping New *tba-1(ju89)* Suppressors in *C. elegans* by SNIP-SNP Analysis**  
Rita M Ishkhanian, Occidental College, Los Angeles
- II-86 **Hope and Close Relationships**  
Rishelle Jabury, CSU, Channel Islands, Camarillo
- III-22 **Phylogeography of the Bioluminescent Ostracod *Vargula Tsujii* (Myodocopida: Cypridinidae) in California**  
Diana M Jacinto, CSU, Los Angeles
- III-49 **Impact of the Teachers + Occidental = Partners in Science (TOPS) Program on High School Student Science Comprehension**  
Anna Jane Jones, Occidental College, Los Angeles
- II-87 **Examining the Pathways To Well-Being**  
Natalie Jones, CSU, Channel Islands, Camarillo
- II-88 **Developmental Pathways of Anger and Anger Expression in Intimate Relationships**  
Patricia M Jordan, California Lutheran University, Thousand Oaks
- II-89 **The Significance of Agency in Experiencing Life Satisfaction**  
Cynthia Jordan-Ramirez, CSU, Channel Islands, Camarillo
- I-63 **Significance of Electrostatic Properties of M-Cells with Respect to Microparticle Uptake**  
Pamela Jreij, UC, Riverside
- I-34 **Effects of Antioxidants from Goji Juice on DNA-Protein Crosslinking via Guanine Oxidation**  
Stephanie Juson, Mount Saint Mary's College, Los Angeles
- III-50 **Towards a Progressive Sierra Leonean Education**  
Yelka W Kamara, Occidental College, Los Angeles
- I-35 **Phenology of Burned and Unburned Oaks and Walnuts After Fire**  
Aaron J Kamimura, California State Polytechnic University, Pomona
- III-23 **Post-Fire Adjustments in Xylem Water Transport and Biomechanical Strength in *Heteromeles arbutifolia* Adults, Resprouts, and Artificial Shade and Irrigation Treatments**  
Iolana N Kaneakua, Pepperdine University, Malibu
- I-36 **Stem Cell Pathways in the Hemi-Parkinsonian Brain: Differentiation vs. Neuronal Fusion**  
Michele C Kanemori, Occidental College, Los Angeles



- III-76 **Quantifying Anthropogenic and Biogenic Semi-Volatile Organic Compounds in the L.A. Basin**  
James Elliot Karz, Loyola Marymount University, Los Angeles
- II-39 **O-Alkylation of Vanillin and Hydroxybenzaldehydes**  
Brian Kasper, CSU, Channel Islands, Camarillo
- II-70 **Life on the Road - Street Children in Pakistan**  
Afshin Khan, Pomona College, Claremont
- II-40 **Synthesis of Polythiophene Nanofibers for Thin Films Using the Initiator-Assisted Oxidative Polymerization**  
Pwint P Khine, UC, Los Angeles
- III-77 **California Rainfall: No Trend, but Large Interannual and Decadal Variability**  
Daniel Killam, University of Southern California, Los Angeles
- I-100 **Social Outcasts: Divorce as a Case Study for Gender Inequality in South Korea**  
Soo Jin Kim, Occidental College, Los Angeles
- I-37 **Kiss-and-Tell: Transgenes Reveal Embryonic Stem Cell Promiscuity**  
Emily Y Kimes, Occidental College, Los Angeles
- II-41 **Synthesis and the Crystal Structures of Schiff-Base Copper Complexes: Hydrolysis of Phosphodiester Bonds**  
Natalia Kozlyuk, University of Redlands
- II-90 **Regulating Emotion: Is Gender a Significant Predictor of Emotional Suppression?**  
Hannah E Krebs, California State Polytechnic University, Pomona
- II-91 **The Relationship between Perfectionism and Academic Cheating**  
Christina R Krone, Pepperdine University, Malibu
- II-42 **The Effects of Ethanol on Phosphatidylethanolamine Membranes**  
Kamini Kuchinad, Occidental College, Los Angeles
- II-92 **It's Mine! The Role of Entitlement and Birth Order**  
Carrie A Kudlinski, CSU, Channel Islands, Camarillo
- III-24 **Silk Genes in Atypoid Spiders**  
Amanda B Kuelbs, UC, Riverside
- III-91 **A Silent Victim: The Indonesian Sex Slave and Forced Laborer Trapped within the Clutches of Government Inadequacy**  
Eric Patrick Kurniawan, Irvine Valley College, Irvine
- II-43 **Synthesis of Ruthenium-Modified PAMAM Dendrimers**  
Jeffrey T Kuwahara, Westmont College, Santa Barbara
- II-78 **The Use of Aftershocks to Rapidly Estimate Rupture Extent for Large Earthquakes**  
Kevin B Kwong, California State Polytechnic University, Pomona
- I-74 **In Search of Entangled Photons**  
Gina M Labriola, California State Polytechnic University, Pomona
- I-38 **Antimicrobial Activity of Synthetic Cationic Peptides**  
Christopher Lam, California State Polytechnic University, Pomona

- I-64 **Recreating the 3D Nanostructure of the Corneal Extracellular Matrix by Electrospinning and IGF-1 + Agarose Overlay**  
Christine K Lee, Harvey Mudd College, Claremont
- I-75 **Birefringence Measurements of Light-Sensitive Liquid Crystal Samples Using Polarizing Microscopy**  
Brett LeMaster, California State Polytechnic University, Pomona
- I-39 **Unveiling Venom: Investigating Novel A-Superfamily Conotoxins from *Conus tulipa***  
Nicole Y Leung, Occidental College, Los Angeles
- I-40 **Identification of Polo-Like Kinase 1 Phosphorylation Sites on a Novel Substrate**  
Yu-Huey Lin, California State Polytechnic University, Pomona
- I-41 **Size Response of *Canis dirus* Over Time Due to Climate Change**  
Edward Linden, Occidental College, Los Angeles
- II-51 **Nasolabial Wrinkle Classification under Multispectral Lighting**  
David Lluncor, UC, San Diego, La Jolla
- II-93 **Testing the Idiocracy Theory: Family Size & Parental Education**  
Dana N Lockwood, CSU, Channel Islands, Camarillo
- I-65 **Modular Avionics System for Use on Unmanned Aerial Vehicles (UAVs)**  
Victor M Loera, California State Polytechnic University, Pomona
- II-66 **Investigation of the Relationship between Speed Limit and Road Safety**  
Jannet Loera Gutierrez, California State Polytechnic University, Pomona
- II-71 **Investigation of Silver Thin Film Reactivity via Scanning Tunneling Microscope (STM)**  
Jehovani Lopez, CSU, San Marcos
- II-94 **Does Pet Ownership Promote Hope & Well-Being**  
Christina M Lucero, CSU, Channel Islands, Camarillo
- II-44 **Ligand-Dependent Stability and Folding in CusF, a Bacterial Copper (I) Chaperone**  
Susan Ly, CSU, Channel Islands, Camarillo
- II-3 **Natural Oils as Cancer Suppressors**  
Simon J Majeno, CSU, Channel Islands, Camarillo
- II-4 **Voltage Activated Currents in Zebrafish Hair Cells**  
Minette Malinao, Mount Saint Mary's College, Los Angeles
- II-5 **Understanding Longevity Through the Analysis of Elderly Brains**  
Anastasia V Markovtsova, California Institute of Technology, Pasadena
- II-45 **Enantiomeric Interactions of D, L, and DL N-Acetyl Leucine in Zeolite NaY**  
Erika Martinez, Mount Saint Mary's College, Los Angeles
- II-95 **Teamwork and Personal Space**  
Kaitlyn M Masai, California Lutheran University, Thousand Oaks
- III-51 **MgO Composite Paints: Protecting Humans against Harmful Bacteria**  
Jeanaye D Mason, California State Polytechnic University, Pomona

- III-52 **Experimental Methods in Attitude Control**  
Kyle Matthews, California State Polytechnic University, Pomona
- II-7 **Vulnerability of Native Caddisfly to Invasive Crayfish in the Santa Monica Mountains**  
Evan G Mattiasen, Pepperdine University, Malibu
- II-46 **Anodic Stripping Voltammetric Determination of Copper, Lead, and Zinc in Human Hair Using a Gallium-Modified Bismuth-Film Electrode**  
Lauran H McCormick, Pepperdine University, Malibu
- II-8 **Affinity Purification of Native Motors for Use in *in vitro* Activity Assays**  
Jackie McCourt, Azusa Pacific University, Azusa
- II-47 **Formation of Nanoscale Self-Assembled Complexes Employing Hydrogen Bonding**  
Kelsi E McCoy, UC, Riverside
- II-2 **Designing the Base Optics System for KAPAO**  
Lorcan P J McGonigle, Pomona College, Claremont
- II-48 **An Enantioselective Synthesis of Cymbalta™**  
Colin McKinlay, Occidental College, Los Angeles
- II-96 **The Truth about Entitlement**  
Clarisse L McLeod, CSU, Channel Islands, Camarillo
- II-49 **Novel Approaches to the Synthesis and Purification of Water-Soluble Curcumin Analogues**  
Jose M Medina, CSU, Channel Islands, Camarillo
- II-9 **Narrowing in on Our Target: A Pharmacological Approach to Confirm the Molecular Target of Cone Snail Neuroexcitatory Peptides**  
Karen Medina, Occidental College, Los Angeles
- II-72 **Sensor Based on Single-Mode–Multi-Mode–Single-Mode (SMS) Fiber Structure**  
Michael Medrano, California State Polytechnic University, Pomona
- II-50 **Screening to Determine the Aggregation Prone Regions of the Parkinson's Disease-Linked Protein  $\alpha$ -Synuclein**  
Michelle E Metchikian, Loyola Marymount University, Los Angeles
- III-33 **Extraction of Copper, Cadmium, and Lead from Seawater Samples Prior to Anodic Stripping Voltammetric Analysis Utilizing the Gallium-Modified Bismuth Film Electrode**  
Michelle A Miguelino, Pepperdine University, Malibu
- III-53 **Radio Controlled Vehicle with an Attached Self-Stabilizing Platform**  
Eric Miranda, California State Polytechnic University, Pomona
- III-25 **The Effects of Nutraceuticals on the Proliferative Activity of Aging CD4+ and CD8+ T Cells**  
Brenda M Molgora, Whittier College, Whittier
- II-97 **Waiting to Begin: Procrastination and Self-Esteem**  
Blanca A Moncayo, CSU, Channel Islands, Camarillo
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Jacob G Montague, Azusa Pacific University, Azusa
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