29th Annual
CSU STUDENT RESEARCH
COMPETITION
May 1st - 2nd 2015

hosted by

CALIFORNIA STATE UNIVERSITY
SAN BERNARDINO
# TABLE OF CONTENTS

Message from Dr. Timothy P. White, Chancellor, CSU .......................................................... 4

Message from Dr. Tomás Morales, President, California State University, San Bernardino ........................................................................ 5

Message from Dr. Andrew Bodman, Provost and Vice President for Academic Affairs, California State University, San Bernardino ............. 6

Message from Dr. Jeffrey Thompson, Associate Provost for Research and Dean of Graduate Studies, California State University, San Bernardino ...................................................... 7

Message from Francisca Beer, Associate Dean of Graduate Studies and Director of the Office of Student Research, California State University, San Bernardino .................................................... 8

Biography of Keynote Speaker, Dr. Montgomery Van Wart, Professor of Public Administration, California State University, San Bernardino........... 9

Presentation Schedule ......................................................................................................... 10

Campus Delegations ......................................................................................................... 46

The California State University System ................................................................................ 68

Acknowledgements .......................................................................................................... 78
A Message from Timothy P. White  
*Chancellor, California State University*

The California State University's quality academic programs give every student the opportunity to learn through scholarly research and creative activity—both as undergraduates and graduates. The research presented here at the 29th Annual CSU Student Research Competition is a testament to the dedication and excellence of our students and their faculty mentors.

This is one of the CSU system's largest student competitions. The research here showcases innovation across the full range of CSUs' academic programs, including mathematics, the arts, humanities, sciences, education, business, engineering, social sciences and the health professions.

I believe in student research. Research sharpens the analytical skills of those who put their hypotheses to the test. Research teaches us how to deal with the frustration of ambiguous data. Research builds peer-to-peer and student-to-faculty connections that last a lifetime.

The CSU mission is student success that enables the economic and social prosperity of California. The students, faculty and staff involved in the competition are fulfilling this mission.

Thank you to the campus community of California State University, San Bernardino for hosting the competition this year. Best wishes and congratulations to all participating students and faculty.

A Message from Tomás Morales,  
*President, California State University, San Bernardino*

On behalf of the students, faculty and staff at California State University, San Bernardino, I am delighted to welcome you to the 29th CSU Student Research Competition. This annual competition highlights the talents and excellence of California State University students from every campus in the system, which serves as the largest comprehensive bachelor and graduate degree university in the world.

Preparing graduates to address real-world problems requires academic programs dedicated to research. Research is a cornerstone of the university community. It increases our ability to think critically, satisfy a thirst for discovery and serve as an outlet for creativity. I applaud the work of our participants in the competition as we position the next generation of scientists, educators, artists and researchers. Your work today, in collaboration with the faculty, will continue to elevate your field of study.

I want to thank Dr. Jeffrey Thompson, Associate Provost for Research, for his support of this event. In addition, I would like to acknowledge the hard work of the Office of Graduate Studies and Student Research, specifically Dr. Francisca Beer along with team members Danielle White and Debbie Gonzalez that coordinated this competition.

I hope you enjoy our campus, this outstanding event and I wish you all continued success.

Tomás D. Morales  
*President*
A Message from

Andrew Bodman,
Provost and Vice President for Academic Affairs, California State University, San Bernardino

I am very excited to see the Student Research Competition taking place once again at CSUSB. Inaugurated in 1986, this event has already become a highly visible celebration in the academic landscape of our campus life, producing a unique impact on the quality of the educational experience for our students.

Universities are created to fulfill two missions: To pass on knowledge to students and to create knowledge for humanity. CSUSB is known for its success in the former. However, the Student Research Competition reminds us—and demonstrates forcefully to us—that we are also an active participant in knowledge making. The increasing numbers and the scope and variety of presentations at the symposium stands as testament to our commitment to that second mission and our success in achieving it.

Student research also plays an integral part in other aspects of a college education for CSUSB students. It provides opportunities for collaboration with faculty; it assists in the development of the ability to identify problems and then propose solutions; it sharpens student researchers’ critical thinking skills in general; it enables those young researchers to combine theory with practice; and—perhaps most importantly—it leads to a deeper appreciation of the value of knowledge harnessed for the sake of causing positive changes in society.

I would like to thank all my colleagues most sincerely for their participation in making the CSUSB Student Research Competition such a success, particularly Dr. Francisca Beer, the architect of this event. I wish all participants the best in their presentations.

A Message from

Jeffrey Thompson,
Associate Provost for Research and Dean of Graduate Studies, California State University, San Bernardino

On behalf of the Office of Graduate Studies at California State University, San Bernardino, I am pleased to welcome you to the 29th Annual CSU Student Research Competition. Our campus is honored to host this prestigious event.

As I review the many research presentations submitted from students throughout our CSU campuses, I am impressed by the breadth and variety of research topics, as well as the depth of knowledge of our scholars. As Dean of Graduate Studies and Associate Provost for Research on our campus, I am well aware of the long hours, dedication, and persistence necessary to solve research problems and overcome obstacles, as well as the excitement of breaking through these barriers to new discoveries. Looking at our students’ submissions, which range from the natural sciences to fine arts, I can confidently say that the CSU system should be proud of the many contributions these scholars are making to their respective fields; they have much to offer, and we must continue to encourage their progress.

Congratulations to our student research competition participants, and the faculty and staff who support them. I wish you all the best of luck!
A Message from

Francisca Beer,
Associate Dean of Graduate Studies and Director of the Office of Student Research, California State University, San Bernardino

I believe that participation in research and creative endeavors offers lessons that can’t be taught in the lecture hall. There is something about undertaking the process of research, whatever the outcome that promotes a spirit of exploration, a thirst for knowledge, and the drive for problem-solving that can’t be taught through textbooks and quizzes. That is why I wholeheartedly promote the CSU Research Competition, and I am thrilled that our campus is hosting this year’s event.

At California State University, San Bernardino, the Office of Student Research is committed to developing and providing opportunities for CSUSB students to showcase the fruits of their research and creative endeavors. In just a few short years we have developed our own Research Symposium, promoted curriculum that incorporates research and creative activities, and developed a Summer Research Program.

I am so happy that California State University, San Bernardino has the honor of hosting this event and I welcome you all to our beautiful campus.

Francisca Beer

Keynote Speaker Biography

Professor Montgomery Van Wart,
Professor of Public Administration, California State University, San Bernardino

Dr. Montgomery (Monty) Van Wart received his Ph.D. from Arizona State University. Professor Van Wart has worked in higher education in various capacities for over 25 years, nearly always with administrative roles. He served as the Interim Dean of the College of Business and Public Administration at California State University, San Bernardino where he was also a longtime chair of the Department of Public Administration. He was also a Senior Research Fellow at KU Leuven (formerly Catholic University) in Belgium (2012-13) and a visiting professor at Rutgers (2013). He is currently a visiting professor at the University of Hong Kong.

As a scholar, Professor Van Wart has over 85 publications. His research areas are administrative leadership, human resource management, training and development, administrative values and ethics, organization behavior, and general management. His primary research frequently appears in the best journals in the field; for example, he has seven refereed articles in Public Administration Review. His nine books include Dynamics of Leadership, Leadership in Public Organizations, Human Resource Management in Public Service, Changing Public Sector Values and Leadership and Culture: Comparative Models of Top Civil Servant Training. He has over 1700 Google citations. Professor Van Wart recently received his university’s inaugural award for outstanding research. He serves as Associate Editor for Public Productivity and Management Review, and serves on numerous editorial boards. He is active in community affairs, serving on a variety of official City of Riverside Advisory Boards.
Session 1

Biological and Agricultural Sciences

Friday, May 1

Location: CE-209

12:00 Jaynie Tao, Ali Hasan, Giselle Hernandez, Spencer Jones, Lisa Mai, Haley Smolinski, Ashley Stowells, Megan Telebrico
  California State Polytechnic University, Pomona
  MS Food Science & Technology; BS Food Science
  Title: Development of a Fortified Rice Product Using Edible Insect Flours for Developing Countries

12:20 Jonathan Tringali
  California State Polytechnic University, Pomona
  MS Biological Sciences
  Title: Cross Protection of a Synthetic MPL (SMPL) Adjuvant Incorporated Into a Liposomal M2E Influenza A Virus Vaccine in BALB/C Mice Infected With H1N1 OR H3N2

12:40 Bryan Hancock
  San Diego State University
  Ph. D Cellular and Molecular Biology
  Title: A Novel Group B Streptococcus Infection Model in Zebrafish

1:00 Michelle Bagood
  California State University, San Marcos
  MS Biological Sciences
  Title: Hematocrit Percentage has a Complex Relationship with Voluntary Wheel Running and Duration of Parasite Infection

1:20 Andrew Beebe
  California State University, Fresno
  MS Viticulture and Enology
  Title: Comparison of Crop Load Management Systems and Applied Water Amounts on Vegetative Compensation, Whole-Canopy Photosynthesis, and Vine Performance in Procolumnar Vitis Vinifera L. in a Warm Climate

1:40 Penelope Wilson
  Sonoma State University
  MS Biology
  Title: Effects of Environmental Enrichment on Captive Lemurs

2:00 BREAK

2:20 Alexander Stanton
  California State University, Chico
  MS Biology
  Title: Deacetylation as a Mechanism for Repression of MicroRNA-375, a Factor Involved in Type 2 Diabetes

2:40 Kathleen Grady
  Sonoma State University
  MS Biology
  Title: Avian Response to Small-Scale Riparian Restoration in Marin and Sonoma Counties

3:00 Osman Sharifi
  California State University, East Bay
  MS Cell and Molecular Biology
  Title: The Mitochondrial Genomes of the Nudibranch Mollusks, Melibe Leonina and Tritonia Diomedea, and Their Impact on Gastropod Phylogeny

3:20 Michelle Ferraro
  Sonoma State University
  MS Biology
  Title: Evaluating Optimal Foraging Theory in Female Northern Elephant Seals
### Biological and Agricultural Sciences

**Friday, May 1**

**Location:** CE-213

<table>
<thead>
<tr>
<th>Time</th>
<th>Name</th>
<th>Institution</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:00</td>
<td>Alicia Davis</td>
<td>California State University, San Bernardino</td>
<td>Characterization of Influenza Nucleoprotein Body Domain as Antiviral Target</td>
</tr>
<tr>
<td>12:20</td>
<td>Tabitha Lindsay</td>
<td>California State Polytechnic University, Pomona</td>
<td>North Pacific Opisthobranchs</td>
</tr>
<tr>
<td>12:40</td>
<td>Michelle Barton</td>
<td>California State University, Long Beach</td>
<td>Nest Site Selection of the Light-footed Ridgway Rail (Rallus obsoletus levipes) in Two Southern California Salt Marshes</td>
</tr>
<tr>
<td>1:00</td>
<td>Richard Mansfield</td>
<td>California State University, Northridge</td>
<td>Does Heat-Induced Sleep in C. Elegans Depend on a Thermosensory Circuit?</td>
</tr>
<tr>
<td>1:20</td>
<td>Abraham Escobedo</td>
<td>California State University, San Marcos</td>
<td>Effects of the Combination of Ketamine and Methamphetamine on Ultrasonic Vocalizations in Laboratory Rats</td>
</tr>
<tr>
<td>1:40</td>
<td>Nicole Karres</td>
<td>Sonoma State University</td>
<td>Insights Into the Effects of Stream Urbanization From Studying the Diet and Foraging Behavior of Western Pond Turtles in Two Northern California Streams</td>
</tr>
<tr>
<td>2:00</td>
<td>BREAK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2:20</td>
<td>Brian Lavin</td>
<td>Sonoma State University</td>
<td>Around the World in 50 Million Years: Biogeography, Molecular Dating, and Species Delimitation in Glass Lizards (Anguinae)</td>
</tr>
<tr>
<td>2:40</td>
<td>Madelinn Schriver</td>
<td>Humboldt State University</td>
<td>Establishment and Growth Patterns of Oregon White Oak and California Black Oak Woodlands in Northwestern California</td>
</tr>
<tr>
<td>3:00</td>
<td>Jessica Kwan</td>
<td>San Francisco State University</td>
<td>Comparison of Ixodes Pacificus Tick Life Stages and their Microbiome Diversity in Relation to Borrelia Burgdorferi Infection</td>
</tr>
<tr>
<td>3:20</td>
<td>Katherine Watters</td>
<td>San José State University</td>
<td>A Novel Mechanism that Directs Neural Circuit Formation</td>
</tr>
<tr>
<td>3:40</td>
<td>Adriana Lopez</td>
<td>Sonoma State University</td>
<td>Effects of Alternative Rearing Strategies on Captive African Ungulates</td>
</tr>
<tr>
<td>4:00</td>
<td>Keerthana Sekar</td>
<td>California State University, Chico</td>
<td>Impact of H5N1 Influenza Virus Replication on Macrophage Function</td>
</tr>
</tbody>
</table>
Session 3
Biological and Agricultural Sciences
Friday, May 1
Location: CE-217

12:00 Lindsay Hetrick
California State Polytechnic University, Pomona
BS Biochemistry
Title: Investigation of Bmi1 Phosphorylation in Breast Cancer Cells

12:20 Cindy Barba
California State University, San Marcos
BS Biology
Title: The Effects of TNF-α on Spleen T Cell Lymphocytes of the Immune System in Obese and Diabetic Mice

12:40 Chih-Chiun Jamie Chang
California State University, Fresno
BS Biology
Title: An Exploration of Mitochondrial Dysfunction in Nematodes Through Fat Content

1:00 Kyle Hess
California State University, Fullerton
BS Molecular Biology
Title: Decoding the Human Cellular Stress Response, One Mutation at a Time

1:20 Maryam Ali
California State University, Bakersfield
BS Chemistry
Title: The Structural Role of Disulfide Linkages in Lysyl Oxidase

1:40 Thalia Jimenez
California State University, Dominguez
BS Microbiology
Title: BMP4/SMAD/DUSP9 Mediated Inhibition of pERK1/2 in HMLEHRASV12 Cells Increases Cancer Stem Cell Content and Promotes Tumor Formation.

2:00 BREAK

2:20 Carli Opland
California State University, Northridge
BS Cellular and Molecular Biology
Title: Using Chemical Compounds to Advance Maturity of Neural Stem Cell-Derived Cultures

2:40 Briana Becerra
California State University, Monterey Bay
BS Environmental Science, Technology, and Policy
Title: Factors Contributing to Seedling Regeneration Subsequent to a Large Scale Clear Cut compared to a Reference Forest Stand in Hubbard Brook Experimental Forest, New Hampshire

3:00 Ashley Potter
California State University, Dominguez Hills
BS Ecology and Environmental
Title: Bleaching and its Effect on the Competitive Interactions of the Symbiotic Cnidarian, Anthopleura Elegansissima

3:20 Jason Rodriguez
California State University, Monterey Bay
BS Biology
Title: Investigation of Plk1 Function Using Mass Spectrometry-Based Proteomics

3:40 Mark Hilgers, Rajvir Singh
California State University, Stanislaus
BS Biology
Title: A Comparative Analysis of Larval Helminths Associated with their Intermediate Host, the Sand Crab Emerita Analoga

4:00 Michael Huang, Samuel Sanchez, Heather Timmons
Sonoma State University
BS Molecular/Cell Biology
Title: Patterns in Forest Taxa: A Look at Two Species of Herptofauna
Session 4
Biological and Agricultural Sciences
Friday, May 1
Location: CE-241

12:00 Kevin Parducho
California State University, Los Angeles
BS Microbiology
Title: Human-α-Defensin 2 and Lipids Synergistically Reduce Pseudomonas Aeruginosa Biofilm Formation

12:20 Justin Minck
California State University, San Bernardino
BS Biology
Title: Building Better Assays

12:40 Carina Sandoval
California State University, Fullerton
BS Biological Sciences
Title: Investigating the Activation of the Solanum lycopersicum Tm 2-2 Immune Receptor in Response to its Pathogen the Tomato Mosaic Virus

1:00 Katlynn Carter, Shane Kennedy, Josh Mytych, Stephanie Soriano
California State University, Channel Islands
BS Biology
Title: Targeting Growth and Invasiveness in Cancer Cells

1:20 Yesenia Cabrera
California State University, San Marcos
BS Biological Sciences
Title: Effects of Inflammation on Depression and Maternal Behavior in Mice; Implications for Post-Partum Depression

1:40 Sarah Parry
California State University, Fresno
BS Plant Science
Title: Duration of Weed-Free Period in Organic Lettuce: Crop Yield, Economics, and Crop Quality.

2:00 BREAK

2:20 Elizabeth Alger
California State University, Monterey Bay
BS Molecular Biology
Title: Investigating Panicle Architecture Variation in the Grass Panicum Hallii

2:40 Joshua Silva
California State University, Fullerton
BS Biological Sciences
Title: Disruption of the TRPML1-TMEM163 Interaction Results in Abnormal TMEM163 Protein Trafficking and Intracellular Zinc Metabolism

3:00 Khanh Nguyen
California State University, East Bay
BS Biochemistry
Title: Do Poplar Hybrids Raise Antioxidant Levels Under High Salt and Boron Stress?

3:20 Haley du Bois
Humboldt State University
BS Cellular & Molecular Biology
Title: Dissecting the Role of MAPK Signaling in the Tumor Promoting Properties of Lethal Giant Larvae 1 (Lgl1) in Primary Neural Progenitor/Stem Cells

3:40 Torey Jacques
San Francisco State University
BS Biology-Cellular/Molecular
Title: Epothilone b and Paclitaxel Display Synthetic Lethal Interactions with SAC Compromised Cells within the D. Melanogaster Compound Eye

4:00 Aaron Brown
California State University, Stanislaus
BS Biology
Title: Isolation and Identification of Bioplastic Degrading Bacteria
Session 5
Business, Economics, and Public Administration
Friday, May 1
Location: CE-303

12:00 Parmeet Kohli
California State Polytechnic University, Pomona
MS Engineering Management
Title: Application of Lean Six Sigma in Business Functions

12:20 Cairon Armstrong
California State University, Northridge
MA Music Industry Administration
Title: The Impact of Streaming on the Music Industry

12:40 Rosa Del Angel, Javier Gonzalez
San Diego State University
MA Public Administration
Title: Bringing Public Good with the Collaboration of Government and Non-Government Organizations

1:00 Melanie Nuni
San Francisco State University
MA Public Administration
Title: A Crime Prevention Strategy that Works Association between Oakland Security Ambassador Program and Crime

1:20 Zeynep Erturkoglu
San José State University
MA Business Administration
Title: Pressing the Play Button: Understanding the Factors that Influence Social and Mobile Gaming

1:40 Hannah Blodgett
California State University, Sacramento
MA Public Policy & Administration
Title: Examining the Effects of Education and other Determinants of CalWORKs Receipt

2:00 BREAK

2:20 Yovana Gojnic
California State University, Sacramento
MA Public Policy & Administration
Title: Adolescent Physical Activity Levels: The Influence of High School Physical Education Participation

2:40 Michael Lynch
California State University, Sacramento
MA Public Policy & Administration
Title: The Effect of Charter Schools on the Academic Performance of African American and Latino Students

3:00 Terra Thorne
California State University, Sacramento
MA Public Policy & Administration
Title: Immigrants and Health Insurance Enrollment: Identifying Factors that Influence Coverage
Session 6
Education
Friday, May 1
Location: CE-308

12:00  Pamela Buchanan
California State University, San Bernardino
Ed. D Educational Leadership
Title: Appreciative Inquiry: A Path to Change in Education

12:20  Dalton Meena
California State University, Los Angeles
MA Psychology
Title: Black Student Success

12:40  Aaron Iffland
San Diego State University
Ph. D Education
Title: Comparing Levels of Homophily and Intergenerational Closure Between Two-Year and Four-Year Students: A Propensity Score Matching Analysis Utilizing the Education Longitudinal Study of 2002

1:00  Melissa Merrill
California State University, Dominguez Hills
MA Special Education
Title: What Do You Want? Using Picture Communication Symbols with Bilingual Preschool Age Children with Special Needs

1:20  Rosa Belerique
California State University, Long Beach
MS Counseling-Student Development in Higher Education
Title: Active Duty Student Success: A Proposed Framework

1:40  Hoover Zariani
California State University, Los Angeles
MA Education
Title: Impact of the Students Talk about Race Program

2:00  BREAK

2:20  Ellen Young
San Francisco State University
MS Biology
Title: Exploring Student Talk in Active Learning Biology Classrooms

2:40  Donna Roberts
California State University, Stanislaus
Ed. D Educational Leadership
Title: Setting the Stage for Master’s Level Success

3:00  Shauna Gowdy
California State University, Chico
MA Social Work
Title: Father Engagement Practices at Valley Oak Children’s Services
Session 7  
Education  
Friday, May 1  
Location: CE-308

3:40 Daniel Jesus Grajeda  
California State Polytechnic University, Pomona  
BA Gender, Ethnic & Multicultural Studies  
Title: What Are Internal and External Factors That Contribute to Chicana/o EOPS Student Persistence in Transferring to a Four Year University?

4:00 Rachel Echeandia, Erik Miranda  
California State University, East Bay  
BA Psychology  
Title: Mastery Orientation and Self-Efficacy Predict Achievement in Middle School Science

4:20 Nyree Hall  
California State University, Sacramento  
BA Ethnic Studies  
Title: Still A Minority: Exploring Black Student Enrollment Decline in the California State University System

4:40 Minh-Thi Nguyen, Jonathan Nicolas  
California State University, East Bay  
BA Psychology, Women's Studies, Statistics  
Title: Gender Identity and Achievement: Is Higher Education Masculine?

Session 8  
Health, Nutrition, and Clinical Sciences  
Friday, May 1  
Location: CE-312

12:00 Whitney Baird, Eric Carlson, Bethany Grigsby  
California State University, Dominguez Hills  
MS Occupational Therapy  
Title: Transgender Identity and the Experience of Transition: A Phenomenological Study

12:20 Xiaojie Zhang  
California State University, Fresno  
MS Biotechnology  
Title: The Effects of Curcumin-Based Compounds on the Viability, Proliferation, and Apoptosis of Cancer Cells

12:40 Alison Tedro  
California State University, Long Beach  
MS Nutritional Science  
Title: Effects of a Cognitive Dissonance-Based Eating Disorder Prevention Program Among College Students

1:00 Michelle Stone  
California State University, San Bernardino  
MA Psychology – General/Experimental  
Title: Does Early Methylphenidate Exposure Enhance the Rewarding Properties of the Cannabinoid Agonist, CP 55,940, Utilizing the Conditioned Place Preference Paradigm?

1:20 Amanda Blake  
California State University, Northridge  
MS Family & Consumer Sciences  
Title: Effect of Vitamin C and Selenium Supplementation on Antioxidant Status and Quality of Life in Hemodialysis Patients

1:40 Kathy McCarty-Baker  
San Diego State University  
MA Rehabilitation Sciences  
Title: Inclusive Fitness: Adapting the Physical and Mental Environment in Fitness toWelcome Persons of all Abilities
2:00 BREAK

2:20 Taylor Valentino
San Francisco State University
MS Exercise Physiology
Title: The Influence of Hydration Status on Thermoregulation During a 161-km Ultramarathon

2:40 Jacqueline Schnapp
San Diego State University
MA Psychology
Title: Grouping Stigmas by Perceived Benefits of Intervention: A Cluster Analysis

3:00 Kevin Campbell, Kristina Bishard
California Polytechnic State University, San Luis Obispo
MS Biomedical Engineering; B.S. Biomedical Engineering
Title: Use of Sphingomyelin Treatment to Evaluate DNA Damage Biomarker p21 Expression in UV-Exposed Human Keratinocytes

Session 9
Health, Nutrition, and Clinical Sciences
Friday, May 1
Location: CE-313

12:00 Sarret Seng
California State University, Long Beach
BA Psychology
Title: Nicotine-Induced Behavioral Sensitization is not Affected by Early-Life Methylphenidate Exposure in Adolescent Male and Female Rats

12:20 Karen Koocharian Pekacheky
California State University, Los Angeles
BS Public Health
Title: The Health Bus

12:40 Michelle Tornquist
California State University, Long Beach
BS Psychology
Title: Preferences for Humor Production and Humor Receptivity in a Romantic Partner

1:00 Anneke Bulthuis
California State University San Marcos
BS Biochemistry
Title: Breaking Brucellosis: Burden Estimates for the Nakapiripirit District of Karamoja, Uganda, 2013-2014

1:20 Scott Herting, Kristen Temnyk
California Polytechnic State University, San Luis Obispo
BS Biomedical Engineering; B.S. Biomedical Engineering
Title: Tissue Engineered Coronary Artery “Blood Vessel Mimics” for Intravascular Device Testing

1:40 Jason Amurao, Cesar Rivera, Miguel Velazquez
California State University, Channel Islands
BS Nursing
Title: The Effect of Using Mobile Technology for Patient Education on Nursing Student Self-Efficacy

2:00 BREAK
2:20  **Jade Fackler**  
California State University, Monterey Bay  
BS Kinesiology  
Title: Fatigue Index vs Peak Power as an Accurate Predictor of Mountain Biking Performance in High School Mountain Bike Athletes

2:40  **Wyatt Andersen**  
California State University, Sacramento  
BS Kinesiology  
Title: The Anterolateral Ligament: A Case Study

3:00  **Isabella Romero, Nasreen Toorabally**  
California State University, Monterey Bay  
BA Psychology  
Title: Construct Validity of MMPI-2-RF Scales in a Forensic Inpatient Hospital Setting

3:20  **Isabelle Noxon**  
California Polytechnic State University, San Luis Obispo  
BS Biochemistry  
Title: Reagent Pencils: A New Technique for Solvent-Free Deposition of Reagents onto Paper-Based Diagnostic Devices

3:40  **Crystal Vasquez**  
California State University, Chico  
BS Nutrition & Food Services: Dietetics  
Title: Association of Parental Feeding Attitudes and Restrictions during Childhood on College Students’ Current Eating Habits

4:00  **Adam O’Neal**  
California State University, Sacramento  
BS Biological Sciences  
Title: Blood Vessel Regeneration in Wound Tissue Seeded with Collagen Scaffolds Containing Human Mesenchymal Stem Cells

Session 10  
Humanities and Letters, Creative Arts and Design, and Interdisciplinary  
Friday, May 1  
Location: CE-314

12:00  **Alexander Douglas, Clarissa Toll**  
California State University, San Bernardino  
BA Communication Studies  
Title: Recommender Systems As Cultural Intermediaries: Big Data and the Construction of User Identity

12:20  **Gabriela Granados**  
California State University, Dominguez Hills  
BA Art History  
Title: Chicano Murals: Educational Conduits of Identity

12:40  **Tara Johnson**  
California State University, Fullerton  
BFA Entertainment Arts/Animation  
Title: Exploring Ideas and Storytelling Through Visual Development: A Re-Imagining of “Little Red Riding Hood” Set in Imperial China

1:00  **Stephanie Hoston**  
California State University, Northridge  
BA Cinema Television Arts-Film Production  
Title: Diana Leigh: From Darkness to Light

1:20  **Evangeline Sheridan**  
California State University, Fullerton  
BFA Fine Arts  
Title: Folding Topographies: Altering Perceptions of the LA River

1:40  **Amanda Dellacort, Ashley Genoves**  
California State University, Channel Islands  
BA Communication; BA Sociology  
Title: MAMMU Social Business Case Study.

2:00  **BREAK**
2:20  Cassandra Ludwig  
California State University, Channel Islands  
BA Sociology  
Title: The Relationship Between Ventura County Commission for Women and Ventura County Board of Supervisors

2:40  Joao Paulo de Sordi Curti  
Humboldt State University  
BS Forestry  
Title: Interactive Trails Map

3:00  Debi Ornellas  
California State University, Sacramento  
BA English  
Title: A Literary Journey: Researching and Transcribing the Works of Alice Dunbar-Nelson

3:20  Stacy Han  
California State University, Fresno  
BS Biology  
Title: Humanities: A Missing Element in Medical Education

3:40  Rodney Thomson  
California State University, Chico  
BA History  
Title: The Evolution of Anti-War Activism at Chico State College, 1959-1966

9:00  Shiva Moballegh  
San José State University  
MS Electrical Engineering  
Title: Efficient Message Propagation in Dense Smart-Vehicular Networks

9:20  Sylvia Nicovich  
Humboldt State University  
MS Geology  
Title: Latest Pleistocene to Holocene River Terrace Deformation within the Southeastern Extent of the Little Salmon Fault Zone, Van Duzen River, Northern California

9:40  Baqer Alhabeeb  
California State University, Fullerton  
MS Mechanical Engineering  
Title: Put a Pipe in it: Optimizing Under Floor Heating Systems

10:00  Angela Wu  
California State University, Los Angeles  
MS Mechanical Engineering  
Title: Numerically-Based Parametric Analysis of Plain Fin and Tube Compact Heat Exchangers

10:20  Matt Blomquist, Arman Khalighi  
California State University, Northridge  
MS Mechanical Engineering  
Title: Numerical Simulation of Bubble Growth during Nanofluid Flow Boiling in a Microchannel

10:40  Michael Duffield  
San Francisco State University  
MS Structural/Earthquake Engineering  
Title: Behavior of a Five-Story Moment Resisting Steel Framed Structure Subjected to Elevated Temperatures

11:00  BREAK
11:20 Basil Alhakami  
California State University, Dominguez Hills  
MS Computer Science  
Title: Integrating Data Aggregation and Data Offloading in Sensor Networks

11:40 Dennis Kwon, Spencer Matteson  
San José State University  
MS Electrical Engineering  
Title: Stand-Alone Control of DFIGs in a Multiple Wind Turbine System with Load Sharing

12:00 Darin Koblick  
California State University, Long Beach  
Ph.D. Industrial Applied Mathematics and Engineering  
Title: Evaluation of the Modified Picard Chebyshev Method to Common Astrodynamical Initial Value Problems and Boundary Value Problems

12:20 Vaishak Suresh, Syeda Roohi  
San José State University  
MS Software Engineering  
Title: Aspect-Based Opinion Mining and Recommendation System for Reviews

12:40 Santrupti Nerli  
California State University, Long Beach  
MS Computer Science  
Title: Genome-wide Prediction of Splice Sites using Classification Trees

1:00 Edith Soto  
California State University, Los Angeles  
MS Physics  
Title: Temperature Determination of Young Stellar Objects in Near Star Forming Regions

1:20 Brian Zambri  
California State University, Northridge  
MS Mathematics  
Title: Efficient Solution Methodology for Calibrating the Hemodynamic Model using Functional Magnetic Resonance Imaging (fMRI) Measurements

11:20 Cameron Embree  
California State University, Channel Islands  
BS Computer Science  
Title: CI Rainbow: An Infrastructure for Environmental and Wildlife Monitoring

11:40 Juan Diaz  
California State University, Chico  
BS Mechanical Engineering  
Title: Butte County Compressed Air for Energy Storage Power Plant Sizing

12:00 Andrew Blancarte, Ketton James, Brian Martin, Abraham Paucar, Ben Saletta  
California State Polytechnic University, Pomona  
BS Mechanical Engineering  
Title: Design of an Innovative, Highly Maneuverable, Stealthy Unmanned Underwater Vehicle with ISR Capabilities

12:20 Yao Bourdon, Terrence Gaines, Wesley Harijanto, Michael Kim, Natalie La, Tiffany Lai, Kalvin Lam, Michael Lepore, Deanna Lestina, Lucas Townsend, Christine Zheng  
California State Polytechnic University, Pomona  
BS Civil Engineering  
Title: Renewable Energy Desalination: Development of Photovoltaic Electrodialysis Desalination System

12:40 Karla Calderon, Irvin Hinojosa  
California State University, Bakersfield  
BS Chemistry; BS Engineering Sciences  
Title: Synthesis and Characterization of Polymers Derived from Renewable Resources

1:00 Josh Ward, Alex Ramirez  
California State University, Bakersfield  
BS Computer Engineering  
Title: Low-Cost Automatic Monitoring Of Pest Insect Traps: Developing Phase One

11:00 BREAK
<table>
<thead>
<tr>
<th>Time</th>
<th>Name</th>
<th>Affiliation</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:20</td>
<td>Abhijit Suprem</td>
<td>California State University, Fresno</td>
<td>Hardware Implementation of Efficient and Robust Resonant Coupled Wireless Power Transfer System</td>
</tr>
<tr>
<td>11:40</td>
<td>Alan Suarez</td>
<td>California State University, Fresno</td>
<td>Testing and Design Analysis of a Biomedical Prosthetic Knee with Magnetorheological Fluid</td>
</tr>
<tr>
<td>12:00</td>
<td>Isabel Litton</td>
<td>California Polytechnic State University, San Luis Obispo</td>
<td>Tweet-o-matic: An Automated Approach to Batch Processing of Tweets</td>
</tr>
<tr>
<td>12:20</td>
<td>Carlos Brambila</td>
<td>San Diego State University</td>
<td>Droplet Microfluidics as a Means for High Throughput Drug Screening in vivo</td>
</tr>
<tr>
<td>12:40</td>
<td>Frank Madrid</td>
<td>California State University, Bakersfield</td>
<td>A Bayesian Intra-Video Collusion Attack on Frame-by-Frame Video Watermarking</td>
</tr>
<tr>
<td>1:00</td>
<td>Warren Nanney</td>
<td>California State University, Dominguez Hills</td>
<td>Optimization of Small-Molecule F6: Fullerene Organic Solar Cells</td>
</tr>
<tr>
<td>1:20</td>
<td>Jairo Luque Villanueva</td>
<td>Humboldt State University</td>
<td>Forward Osmosis-Direct Contact Membrane Distillation Sewer Mining Waste to Resource System</td>
</tr>
</tbody>
</table>

---

**Session 13**

**Physical and Mathematical Sciences**

**Saturday, May 2**

**Location:** CE-107

<table>
<thead>
<tr>
<th>Time</th>
<th>Name</th>
<th>Affiliation</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00</td>
<td>Jiovana Hermosillo</td>
<td>California State University, Channel Islands</td>
<td>The Effects of Coacervation on Polyelectrolyte Complexes</td>
</tr>
<tr>
<td>9:20</td>
<td>Matthew Diefenbach</td>
<td>California State University, East Bay</td>
<td>Metal Insulator Transition in Organic Polymers: Studying the Metal Insulator Transition in Polyaniline</td>
</tr>
<tr>
<td>9:40</td>
<td>Leanna Monteleone, Megan Cruz</td>
<td>California Polytechnic State University, San Luis Obispo</td>
<td>Controlling Surface Energy and Wettability with a Light Responsive Linker System</td>
</tr>
<tr>
<td>10:00</td>
<td>Shaker Von Price Funkhouser</td>
<td>California Polytechnic State University, San Luis Obispo</td>
<td>Proof of an Energy Extremum Principle for Charged Black Holes</td>
</tr>
<tr>
<td>10:20</td>
<td>David Vega</td>
<td>California State Polytechnic University, Pomona</td>
<td>Computational Microscopy on a Cellphone</td>
</tr>
<tr>
<td>10:40</td>
<td>Sheela Lewis</td>
<td>California State University, Bakersfield</td>
<td>Environmentally Conscious and Efficient Synthesis of Isoxazolines in Aqueous Media</td>
</tr>
<tr>
<td>11:00</td>
<td>BREAK</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
11:20   Gradon Faulkner  
California State University, Channel Islands  
BS Computer Science and Mathematics  
Title: Optimization of Associative Memory  

11:40   Corie Hill, Amber Kramer  
California State University, Channel Islands  
BS Chemistry  
Title: Determination of Total Mercury in Top Three Consumed Seafood Products in the United States  

12:00   Ravi Shankar  
California State University, Chico  
BS Mathematics  
Title: Estimating Wave Collapse Times  

12:20   Gregory Weisberg  
California State University, Fullerton  
BA Geography and Earth Science  
Title: Using Derived Weather Patterns to Define Seasons and Identify Climate Change  

12:40   Ashley Loogman, Resham Sandhu  
California State University, Stanislaus  
BS Geology  
Title: An Introduction to Geophysical Surveys of Flood Control Levees of South Sherman Island, Sacramento Estuary, California  

Session 14  
Physical and Mathematical Sciences  
Saturday, May 2\textsuperscript{nd}  
Location: CE-110  

9:00   John Abdou  
California State Polytechnic University, San Luis Obispo  
MS Polymers and Coatings  
Title: Polymer Transcrystallization Studies on Reduced Graphene Oxide Fibers  

9:20   Masaki Hamada  
California State University, Chico  
MS Environmental Sciences  
Title: Optimization of the Cross-Correlation Algorithm using Synthetic Backscatter Images and Synthetic Wind Velocity  

9:40   Jaryd Ulbricht  
California State University, Fresno  
MS Physics  
Title: Study of the Sensitivity for Searches for Excited Boson (W*) in Dijet Final States in Proton-Proton Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector at the LHC  

10:00   Skylar Chuang  
California State University, Long Beach  
MS Biochemistry  
Title: The Role of Nanogold-apoE3 Reconstituted Vehicles (NERVs) as Potential Drug Delivery Systems  

10:20   Cheyenne Liu  
California Polytechnic State University, San Luis Obispo  
MS Polymers and Coatings  
Title: Characterization of Reagent Pencils for Solvent-Free Deposition onto Paper-Based Analytical Devices  

10:40   Kevin Anderson  
California State University, Chico  
MS Geosciences/Hydrology  
Title: Modeled Effects of Rice Field Fallowing on Groundwater Systems in the Sacramento Valley, CA
11:00 Zachary Martindale
California State University, Bakersfield
MS Geology
Title: Internal Fault Architecture of the Kern Canyon Fault at the Lake Isabella Dam Site and Implications on Potential for Seismic Failure (Earthquake)

Session 15
Physical and Mathematical Sciences
Saturday, May 2nd
Location: CE-110

11:40 Michael Semaan
California State University, Long Beach
BS Physics - Electrical Engineering
Title: Possible Evidence of Odd-Triplet Superconductivity in Nb/Pt/SmCo Heterostructures

12:00 Andre Leon
California State University, Los Angeles
BS Biochemistry
Title: Detection of D-(+)-Glucose Using a Novel Handheld Surface Plasmon Resonance Device

12:20 Megan Golbek
California State University, Monterey Bay
BS Mathematics
Title: Submerged Obstacles and Linear Wave Propagation

12:40 Thor Barerra, Robert Beard
California State University, Sacramento
BS Physics and Astronomy
Title: Get Moving! Theory and Application of Electromagnetic Accelerators

1:00 Nathan Graham
Humboldt State University
BS Geology
Title: Determining Magma Mixing Duration and Dynamics Through Analysis of Reaction Rims on Olivine Crystals in Natural Samples of Black Dacite From the 1915 Eruption of Lassen Peak, CA

1:20 Gerardo Soriano
San Diego State University
BS Chemical Physics
Title: A Theoretical Study on the Isomerization of the Cyclooctatetraenyl Radical

1:40 Brenna Biggs
California State University, Fullerton
BS Chemistry
Title: An Alternative Energy Device to Convert Carbon Dioxide to Power
Session 16  
Humanities & Letters; Creative Arts & Design  
Saturday, May 2nd  
Location: CE-113

9:00  Joshua Freimark  
San Francisco State University  
MA Museum Studies  
Title: Integrated Pest Management in History Collections of the 21st Century Joshua Freimark, Museum Studies Program

9:20  Mary Okin  
San José State University  
MA Art History and Visual Culture  
Title: The ‘Maiden at the Press’: Arthur F. Mathews and the Rise of the New Woman

9:40  Zane Cooper  
California State University, San Marcos  
MA History  

10:00  Melissa Bowen  
California State University, Bakersfield  
MA History  
Title: The Beautiful Miss Elvery: The Life, Art, and Politics of Beatrice Moss Campbell, 1881-1970

10:20  Melissa Williams  
California State University, Dominguez Hills  
MA English Literature  
Title: Marie De France and Her Subversive Faerie

10:40  Christian Weede  
California State University, Long Beach  
MA Philosophy  
Title: Some Problems With ‘Knowing How’: A Response to Stanley & Williamson

11:00  Miguel Arriola  
California State University, Los Angeles  
MA History  
Title: The Cossacks: Variable Representations and the Development of a Russian National Mythology

11:20  Emanuel Delgado  
San Diego State University  
MA Geography  
Title: Culture and Gentrification in Barrio Logan

11:40  BREAK

12:00  Caleb Sanders  
California State University, Sacramento  
BA History  
Title: The Awakening Dragon: China, Self-Determination, and the First World War

12:20  Joshua Commander, Kristl Commander  
California State University, Stanislaus  
MA English Literature  
Title: Producing a Critical Edition of Wilkie Collins’s The Two Destinies (1876)

12:40  Alex Johnson  
California State University, Northridge  
MA Art  
Title: Apotheosis: Becoming God through Art

1:00  Trevor Myers  
San Francisco State University  
MA Product Design  
Title: Improving the Eye Drop Experience

1:20  Caleb Hampton, Richard Horton  
California State University, Stanislaus  
MA History  
Title: Nontraditional Pedagogy in the Survey History Classroom: Boardgames as an Uncoverage Tool

1:40  Angeline Olliff  
California State University, Northridge  
MA English, Rhetoric, and Composition  
Title: Encouraging the “Risks of Caring”: A Cognitive-Development Approach to Collaborative Learning in First-Year Composition
Session 17
Behavioral & Social Sciences
Saturday, May 2nd
Location: CE-115

9:00  Lily Krutel  
California State University, East Bay  
Master of Social Work  
Title: Substance Use Among Trauma Survivors: Assessing Attitudes and Service Provision of Trauma-Focused Agencies

9:20  Lisa Wright  
San Diego State University  
MS Industrial Organizational Psychology  
Title: The Role of Transformational Leadership Consensus and Innovation Climate Strength in Predicting Employee Attitudes

9:40  Aimee Miller, Kaitlin O'Brien  
California State University: Dominguez Hills  
MA Clinical Psychology  
Title: The Relationship between Technology Use and Internet Addiction: Evidence for the Moderating Effect of Executive Function

10:00  Kassandra Nearn  
San Diego State University  
MA Anthropology  
Title: Undergraduate Research, Scholarship, and Creative Activity: Analyzing “What Counts?” through Qualitative Research Methods

10:20  Jessica Pope Mayers  
California State University, Los Angeles  
MS Psychology  
Title: A Controlled Field Study of Showups: Examining the Effect of Suggestion and Suspect Similarity

10:40  Mitzi Avila  
California State University, Fullerton  
MA Sociology  
Title: Aún Hay Machos? Understandings of Machismo Across Two Generations of Mexican Men

11:00  BREAK

11:20  Isis Chong  
California State University, Long Beach  
MS Psychology - Human Development  
Title: Can the Bilingual Advantage Be Found in Driving?

11:40  John Chung  
California State University, East Bay  
BA Psychology  
Title: Effects of Sex and Gender on Coping Methods

12:00  Tiffany Gonzales  
California State University, Fresno  
MS Psychology  
Title: The Effects of Peers on Children's Physical Activity: A Functional Analysis

12:20  Christine Jimenez  
San Francisco State University  
MA Psychological Research  
Title: The Neural Correlates of Music-Evoked Autobiographical Memories

12:40  Denise Benetatos  
California State University, East Bay  
MA Anthropology  
Title: Cultural Models of Beauty and the Social World of South Korean Women

1:00  Lace Riggs  
California State University, San Bernardino  
MA Psychology – General/Experimental  
Title: A Novel Animal Model of Emotional Stress in Female c57BL/6 Mice

1:20  April Nakagawa  
California State University, Fullerton  
MS Environmental Studies  
Title: Intersexual Conflict: Infanticide and Spontaneous Abortion as Reproductive Strategies Among a Wild Population of Gelada Monkeys at Guassa, Ethiopia
Session 18
Behavioral & Social Sciences
Saturday, May 2nd
Location: CE-116

9:00  Andrew Suter
California State University, Bakersfield
BS Psychology and Biology
Title: High Fat Diets, Environment and Gender: Implications for Rodent Learning and Memory

9:20  Gianni Jen, Stephanie Menjivar Quijano
California State University, East Bay
BA Psychology
Title: Motivations of Play in Video Games and Adaptive Coping Strategies

9:40  Robert Altamirano
California State University, San Marcos
BA Psychology
Title: Ketamine Leads to an Increase in Pleasurable Ultrasonic Vocalizations for Adolescent Rats

10:00  Eduardo Gonzalez
San Francisco State University
BA International Relations
Title: Contextualizing Conflicts: Anti-AKP Protests in Modern Turkey

10:20  Jayme Temple
California State University, San Marcos
BA Psychology
Title: Antidepressant effects of Ketamine in Sprague Dawley and Wistar Rats

10:40  Andrew Donahue
San José State University
BA Linguistics
Title: Language Variation in Online Communities

11:00  BREAK

11:20  Mathew Thomson
California Polytechnic State University, San Luis Obispo
MS Economics
Title: The Exit Strategy: Managing Reserves vs. Managing Rates – Can the US Federal Reserve Bank do both?

11:40  Sofia Pedroza
California State Polytechnic University, Pomona
BA Sociology
Title: May the Odds Be Ever in Your Favor: Olympics and the IOC

12:00  Alma Olaguez, Gabrielle Aroz
California State University, Los Angeles
MS Forensic Psychology, BA Psychology
Title: Ripple Effects: How Biased Evidence Can Cause Distortion in Juror’s Memory

12:20  Jason Alipio
California State University, San Bernardino
BA Biopsychology
Title: Fluoxetine (Prozac) Exposure during Adolescence Disrupts Spatial Memory Performance in Adulthood
SESSION 19
Behavioral & Social Sciences
Saturday, May 2nd
Location: CE-302

9:00 Dakota Hughes
California State University, San Bernardino
BA Economics
Title: The Effects of Minimum Wage Increases on California Labor Markets Using a Contiguous Counties Approach

9:20 Alan Malfavon
California State University, Northridge
BA History and Spanish Language & Culture
Title: Ethnic Via Crucis and the Legacy of Racism: Stereotypes and Inherited Images Attributed to the Mexican Indigenous Peoples

9:40 Andrew Carillo
California State University, Channel Islands
BA Political Science
Title: You’ve Got to Support the Team: Republican Assignments to the House Appropriations Committee

10:00 Stephanie Price
California State University San Marcos
BA Psychology
Title: Perceived Social Norms and Exercise Behavior among Caucasians and Hispanics

10:20 Samirah Hussain
California State University, Bakersfield
BA Psychology
Title: The Circadian Effects of Melatonin on Antipsychotic Extrapyramidal Side-Effects in Rats

10:40 Isabel Sanchez
Sonoma State University
BA Criminal Justice
Title: Public Perception of Police in Contra Costa County

11:00 BREAK

11:20 Robert Camin, Lisa Marie Clark
California State University, Channel Islands
BA Political Science
Title: Birds of a Feather: Congressional Foreign Travel and the Decline of Bipartisanship

11:40 Mikaela Vournas
California Polytechnic State University, San Luis Obispo
BS Anthropology and Geography
Title: Mapping Motivations: Nutrition in Transition in Fiji

12:00 Stephanie Menjivar Quijano
California State University, East Bay
BA Psychology
Title: Perspectives

12:20 Shalana Bradford
California State University, Dominguez Hills
BA Communications
Title: Instagram: Seeking Self-Acceptance Through Selfies

12:40 Shelby Anne Brisky
California State University, Fresno
BS Criminology
Title: Disproportionate Minority Contact: Differential Minority Arrest Patterns and Recidivism of First-Time Juvenile Offenders

1:00 Trevor Towner
California State University, San Marcos
BA Psychology
Title: Endogenous Opioid Involvement in the Rewarding Effects of Methamphetamine
<table>
<thead>
<tr>
<th>Session</th>
<th>Time</th>
<th>Room</th>
<th>Student</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Session 3</td>
<td>1:20</td>
<td>CE-217</td>
<td>Maryam Ali</td>
<td>The Structural Role of Disulfide Linkages in Lysyl Oxidase</td>
</tr>
<tr>
<td>Session 16</td>
<td>10:00</td>
<td>CE-113</td>
<td>Melissa Bowen</td>
<td>The Beautiful Miss Elvery: The Life, Art, and Politics of Beatrice Moss Campbell, 1881-1970</td>
</tr>
<tr>
<td>Session 12</td>
<td>10:20</td>
<td>CE-106</td>
<td>Karla Calderon</td>
<td>Synthesis and Characterization of Polymers Derived from Renewable Resources</td>
</tr>
<tr>
<td>Session 19</td>
<td>10:20</td>
<td>CE-302</td>
<td>Samirah Hussain</td>
<td>The Circadian Effects of Melatonin on Antipsychotic Extrapyramidal Side-Effects in Rats</td>
</tr>
<tr>
<td>Session 13</td>
<td>10:40</td>
<td>CE-107</td>
<td>Sheela Lewis</td>
<td>Environmentally Conscious and Efficient Synthesis of Isoxazolines in Aqueous Media</td>
</tr>
<tr>
<td>Session 12</td>
<td>12:40</td>
<td>CE-106</td>
<td>Frank Madrid</td>
<td>A Bayesian Intra-Video Collusion Attack on Frame-by-Frame Video Watermarking</td>
</tr>
<tr>
<td>Session 14</td>
<td>11:00</td>
<td>CE-110</td>
<td>Zachary Martindale</td>
<td>Internal fault architecture of the Kern Canyon fault at the Lake Isabella dam site and implications on potential for seismic failure (earthquake)</td>
</tr>
<tr>
<td>Session 18</td>
<td>9:00</td>
<td>CE-116</td>
<td>Andrew Suter</td>
<td>High Fat Diets, Environment and Gender: Implications for Rodent Learning and Memory</td>
</tr>
<tr>
<td>Session 12</td>
<td>10:40</td>
<td>CE-106</td>
<td>Alex Ramirez</td>
<td>Low-Cost Automatic Monitoring of Pest Insect Traps: Developing Phase One</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Session</th>
<th>Time</th>
<th>Room</th>
<th>Student</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Session 19</td>
<td>9:40</td>
<td>CE-302</td>
<td>Andrew Carillo</td>
<td>You Got to Support the Team: Republican Assignments to the House Appropriations Committee</td>
</tr>
<tr>
<td>Session 13</td>
<td>9:00</td>
<td>CE-107</td>
<td>Jiovana Hermosillo</td>
<td>The Effects of Coacervation on Polyelectrolyte Complexes</td>
</tr>
<tr>
<td>Session 10</td>
<td>1:40</td>
<td>CE-314</td>
<td>Ashley Genovesee</td>
<td>MAMMU Social Business Case Study</td>
</tr>
<tr>
<td>Session 13</td>
<td>11:40</td>
<td>CE-107</td>
<td>Amber Kramer</td>
<td>Determination of Total Mercury in Top Three Consumed Seafood Products in the United States</td>
</tr>
<tr>
<td>Session 12</td>
<td>9:00</td>
<td>CE-106</td>
<td>Cameron Embree</td>
<td>CI Rainbow: An Infrastructure for Environmental and Wildlife Monitoring</td>
</tr>
<tr>
<td>Session 13</td>
<td>11:20</td>
<td>CE-107</td>
<td>Gradon Faulkner</td>
<td>Optimization of Associative Memory</td>
</tr>
<tr>
<td>Session 4</td>
<td>1:00</td>
<td>CE-241</td>
<td>Shane Kennedy</td>
<td>Targeting Growth and Invasiveness in Cancer Cells</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Katlynn Carter</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Stephanie Soriano</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Josh Mytych</td>
<td></td>
</tr>
</tbody>
</table>
Session 19 11:20  CE-302  Robert Camin
Lisa Marie Clark
Birds of a Feather: Congressional Foreign Travel and the Decline of Bipartisanship

Session 9 1:40  CE-313  Miguel Velazquez
Cesar Rivera
Jason Amurao
The Effect of Using Mobile Technology for Patient Education on Nursing Student Self-efficacy

Session 10 2:40  CE-314  Cassandra Ludwig
The Relationship Between Ventura County Commission for Women and Ventura County Board of Supervisors

Session 10 3:40  CE-314  Rodney Thomson
The Evolution of Anti-War Activism at Chico State College, 1959-1966

Session 9 3:40  CE-313  Crystal Vasquez
Association of Parental Feeding Attitudes and Restrictions during Childhood on College Students’ Current Eating Habits

Session 12 9:20  CE-106  Juan Diaz
Butte County Compressed Air for Energy Storage Power Plant Sizing

CALIFORNIA STATE UNIVERSITY, DOMINGUEZ HILLS

Session 11 11:20  CE-104  Basil Alhakami
Integrating Data Aggregation and Data Offloading in Sensor Networks

Session 8 12:00  CE-312  Whitney Baird
Bethany Grigsby
Eric Carlson
Transgender Identity and the Experience of Transition: A Phenomenological Study

Session 19 12:20  CE-302  Shalana Bradford
Instagram: Seeking Self-Acceptance through Selfies

Session 10 12:20  CE-314  Gabriela Granados
Chicano Murals: Educational Conduits of Identity

Session 3 1:40  CE-217  Thalia Jimenez
BMP4/SMAD/DUSP9 Mediated Inhibition of PERK1/2 in HMLEHRASV12 Cells Increases Cancer Stem Cell Content and Promotes Tumor Formation

Session 6 1:00  CE-308  Melissa Merrill
What Do You Want? Using Picture Communication Symbols with Bilingual Preschool Age Children with Special Needs
### Session 17
- 9:40 CE-115
- Aimee Miller, Kaitlin O’Brien
- The Relationship between Technology Use and Internet Addiction: Evidence for the Moderating Effect of Executive Function

### Session 3
- 3:00 CE-217
- Ashley Potter
- Bleaching and its Effect on the Competitive Interactions of the Symbiotic Cnidarian, Anthopleura elegantissima

### Session 16
- 10:20 CE-113
- Melissa Williams
- Marie De France and Her Subversive Faerie

### Session 12
- 1:00 CE-106
- Warren Nanney
- Optimization of Small-Molecule F6:Fullerene Organic Solar Cells

### Session 19
- 12:40 CE-302
- Shelby Anne Brisky
- Disproportionate Minority Contact: Differential Minority Arrest Patterns and Recidivism of First-Time Juvenile Offenders

### Session 18
- 9:20 CE-308
- Minh-Thi Nguyen, Jonathan Nicolas
- Gender Identity and Achievement: Is Higher Education Masculine?

### Session 7
- 4:40 CE-308
- Tiffany Gonzalez
- The Effects of Peers on Children’s Physical Activity: A Functional Analysis

### Session 10
- 3:20 CE-314
- Stacy Han
- Humanities: A Missing Element in Medical Education

---

### CALIFORNIA STATE UNIVERSITY, EAST BAY

<table>
<thead>
<tr>
<th>Session</th>
<th>Time</th>
<th>Room</th>
<th>Student</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Session 17</td>
<td>12:40</td>
<td>CE-115</td>
<td>Denise Benetatos</td>
<td>Cultural Models of Beauty and the Social World of South Korean Women</td>
</tr>
<tr>
<td>Session 17</td>
<td>11:40</td>
<td>CE-115</td>
<td>John Chung</td>
<td>Effects of Sex and Gender on Coping Methods</td>
</tr>
<tr>
<td>Session 13</td>
<td>9:20</td>
<td>CE-107</td>
<td>Matthew Diefenbach</td>
<td>Metal Insulator Transition in Organic Polymers: Studying the Metal Insulator Transition in Polyaniline</td>
</tr>
<tr>
<td>Session 18</td>
<td>9:20</td>
<td>CE-116</td>
<td>Gianni Jen, Stephanie Menjivar Quijano</td>
<td>Motivations of Play in Video Games and Adaptive Coping Strategies</td>
</tr>
<tr>
<td>Session 17</td>
<td>9:00</td>
<td>CE-115</td>
<td>Lily Krutel</td>
<td>Substance Use among Trauma Survivors: Assessing Attitudes and Service Provision of Trauma-Focused Agencies</td>
</tr>
<tr>
<td>Session 19</td>
<td>12:00</td>
<td>CE-302</td>
<td>Stephanie Menjivar Quijano</td>
<td>Perspectives</td>
</tr>
<tr>
<td>Session 7</td>
<td>4:00</td>
<td>CE-308</td>
<td>Erik Miranda, Rachel Echeandia</td>
<td>Mastery Orientation and Efficacy Predicts Achievement in Middle School Science</td>
</tr>
<tr>
<td>Session 4</td>
<td>3:00</td>
<td>CE-308</td>
<td>Khanh Nguyen</td>
<td>Do Poplar Hybrids Raise Antioxidant Levels Under High Salt and Boron Stress?</td>
</tr>
</tbody>
</table>

---

### CALIFORNIA STATE UNIVERSITY, FRESNO

<table>
<thead>
<tr>
<th>Session</th>
<th>Time</th>
<th>Room</th>
<th>Student</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Session 1</td>
<td>1:20</td>
<td>CE-209</td>
<td>Andrew Beebe</td>
<td>Comparison of Crop Load Management Systems and Applied Water Amounts on Vegetative Compensation, Whole-Canopy Photosynthesis, and Vine Performance in Procumbent Vitis vinicera L. in a Warm Climate</td>
</tr>
<tr>
<td>Session 19</td>
<td>12:40</td>
<td>CE-302</td>
<td>Shelby Anne Brisky</td>
<td>Disproportionate Minority Contact: Differential Minority Arrest Patterns and Recidivism of First-Time Juvenile Offenders</td>
</tr>
<tr>
<td>Session 3</td>
<td>12:40</td>
<td>CE-217</td>
<td>Chih-Chiu Jamie Chang</td>
<td>An Exploration of Mitochondrial Dysfunction in Nematodes through Fat Content</td>
</tr>
<tr>
<td>Session 12</td>
<td>11:20</td>
<td>CE-106</td>
<td>Abhijit Suprem</td>
<td>Hardware Implementation of Efficient and Robust Resonant Coupled Wireless Power Transfer System</td>
</tr>
<tr>
<td>Session 17</td>
<td>12:00</td>
<td>CE-115</td>
<td>Tiffany Gonzalez</td>
<td>The Effects of Peers on Children’s Physical Activity: A Functional Analysis</td>
</tr>
<tr>
<td>Session 10</td>
<td>3:20</td>
<td>CE-314</td>
<td>Stacy Han</td>
<td>Humanities: A Missing Element in Medical Education</td>
</tr>
</tbody>
</table>
### CALIFORNIA STATE UNIVERSITY, FULLERTON

<table>
<thead>
<tr>
<th>Session</th>
<th>Time</th>
<th>Room</th>
<th>Student</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Session 4</td>
<td>1:40</td>
<td>CE-241</td>
<td>Sarah Parry</td>
<td>Duration of Weed-Free Period in Organic Lettuce: Crop Yield, Economics, and Crop Quality</td>
</tr>
<tr>
<td>Session 12</td>
<td>11:40</td>
<td>CE-106</td>
<td>Alan Suarez</td>
<td>Testing and Design Analysis of a Biomedical Prosthetic Knee with Magnetorheological Fluid</td>
</tr>
<tr>
<td>Session 14</td>
<td>9:40</td>
<td>CE-110</td>
<td>Jaryd Ulbricht</td>
<td>Study of the Sensitivity for Searches for Excited Boson (W*) in Dijet Final States in Proton-Proton Collisions at ( \sqrt{s}=13 ) TeV with the ATLAS Detector at the LHC</td>
</tr>
<tr>
<td>Session 8</td>
<td>12:20</td>
<td>CE-312</td>
<td>Xiaojie Zhang</td>
<td>The Effects of Curcumin-Based Compounds on the Viability, Proliferation, and Apoptosis of Cancer Cells</td>
</tr>
</tbody>
</table>

### HUMBOLDT STATE UNIVERSITY

<table>
<thead>
<tr>
<th>Session</th>
<th>Time</th>
<th>Room</th>
<th>Student</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Session 11</td>
<td>9:40</td>
<td>CE-104</td>
<td>Baquer Alhabeeb</td>
<td>Put a Pipe in It: Optimizing Under Floor Heating Systems</td>
</tr>
<tr>
<td>Session 15</td>
<td>1:40</td>
<td>CE-110</td>
<td>Brenna Biggs</td>
<td>An Alternative Energy Device to Convert Carbon Dioxide to Power</td>
</tr>
<tr>
<td>Session 3</td>
<td>1:00</td>
<td>CE-217</td>
<td>Kyle Hess</td>
<td>Decoding the Human Cellular Stress Response, One Mutation at a Time</td>
</tr>
<tr>
<td>Session 10</td>
<td>12:40</td>
<td>CE-314</td>
<td>Tara Johnson</td>
<td>Exploring Ideas and Storytelling Through Visual Development: A Re-Imagining of “Little Red Riding Hood” Set in Imperial China</td>
</tr>
<tr>
<td>Session 17</td>
<td>1:20</td>
<td>CE-115</td>
<td>April Nakagawa</td>
<td>Intersexual Conflict: Infanticide and Spontaneous Abortion as Reproductive Strategies Among a Wild Population of Gelada Monkeys at Guassa, Ethiopia</td>
</tr>
<tr>
<td>Session 4</td>
<td>12:40</td>
<td>CE-241</td>
<td>Carina Sandoval</td>
<td>Investigating the Activation of the Solanum lycopersicum Tm 2-2 Immune Receptor in Response to its Pathogen the Tomato Mosaic Virus</td>
</tr>
<tr>
<td>Session 10</td>
<td>1:20</td>
<td>CE-314</td>
<td>Evangeline Sheridan</td>
<td>Folding Topographies: Altering Perceptions of the LA River</td>
</tr>
<tr>
<td>Session 4</td>
<td>2:40</td>
<td>CE-241</td>
<td>Joshua Silva</td>
<td>Disruption of the TRPML1-TMEM163 Interaction Results in Abnormal TMEM163 Protein Trafficking and Intracellular Zinc Metabolism</td>
</tr>
<tr>
<td>Session 13</td>
<td>12:20</td>
<td>CE-107</td>
<td>Gregory Weisberg</td>
<td>Using Derived Weather Patterns to Define Seasons and Identify Climate Change</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Session</th>
<th>Time</th>
<th>Room</th>
<th>Student</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Session 11</td>
<td>2:40</td>
<td>CE-241</td>
<td>Haley du Bois</td>
<td>Dissecting the role of MAPK Signaling in the Tumor Promoting Properties of Lethal Giant Larvae 1 (Lg1) in Primary Neural Progenitor/ Stem Cells</td>
</tr>
<tr>
<td>Session 15</td>
<td>1:00</td>
<td>CE-110</td>
<td>Nathan Graham</td>
<td>Determining Magma Mixing Duration and Dynamics Through Analysis of Reaction Rims on Olivine Crystals in Natural Samples of Black Dacite from the 1915 Eruption of Lassen Peak, CA</td>
</tr>
<tr>
<td>Session 12</td>
<td>1:20</td>
<td>CE-106</td>
<td>Jairo Luque Villanueva</td>
<td>Forward Osmosis-Direct Contact Membrane Distillation Sewer Mining Waste to Resource System</td>
</tr>
<tr>
<td>Session 11</td>
<td>9:20</td>
<td>CE-104</td>
<td>Sylvia Nicovich</td>
<td>Latest Pleistocene to Holocene River Terrace Deformation within the Southeastern Extent of the Little Salmon Fault Zone, Van Duzen River, Northern California</td>
</tr>
</tbody>
</table>

**Title**

Interactive Trails Map
<table>
<thead>
<tr>
<th>Session</th>
<th>Time</th>
<th>Room</th>
<th>Student</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>2:40</td>
<td>CE-213</td>
<td>Madelinn Schriver</td>
<td>Establishment and Growth Patterns of Oregon White Oak and California Black Oak Woodlands in Northwestern California</td>
</tr>
<tr>
<td>2</td>
<td>12:40</td>
<td>CE-213</td>
<td>Michelle Barton</td>
<td>Nest Site Selection of the Light-footed Ridgway Rail (Rallus obsoletus levipes) in Two Southern California Salt Marshes</td>
</tr>
<tr>
<td>6</td>
<td>1:20</td>
<td>CE-308</td>
<td>Rosa Belerique</td>
<td>Active Duty Student Success: A Proposed Framework</td>
</tr>
<tr>
<td>17</td>
<td>11:20</td>
<td>CE-115</td>
<td>Isis Chong</td>
<td>Can the Bilingual Advantage Be Found in Driving?</td>
</tr>
<tr>
<td>14</td>
<td>10:00</td>
<td>CE-110</td>
<td>Skylar Chuang</td>
<td>The Role of Nanogold-apoE3 Reconstituted Vehicles (NERVs) as Potential Drug Delivery Systems</td>
</tr>
<tr>
<td>11</td>
<td>12:00</td>
<td>CE-104</td>
<td>Darin Koblick</td>
<td>Evaluation of the Modified Picard Chebyshev Method to Common Astrodynamical Initial Value Problems and Boundary Value Problems and Boundary Value Problems</td>
</tr>
<tr>
<td>9</td>
<td>12:00</td>
<td>CE-313</td>
<td>Sarret Seng</td>
<td>Nicotine-induced Behavioral Sensitization is not Affected by Early-Life Methylphenidate Exposure in Adolescent Male and Female Rats</td>
</tr>
<tr>
<td>8</td>
<td>12:40</td>
<td>CE-312</td>
<td>Alison Tedrow</td>
<td>Effects of a Cognitive Dissonance-Based Eating Disorder Prevention Program Among College Students</td>
</tr>
<tr>
<td>9</td>
<td>12:40</td>
<td>CE-313</td>
<td>Michelle Tornquist</td>
<td>Preferences for Humor Production and Humor Receptivity in a Romantic Partner</td>
</tr>
<tr>
<td>16</td>
<td>10:40</td>
<td>CE-113</td>
<td>Christian Weede</td>
<td>Some Problems with ‘Knowing how’: A Response to Stanley &amp; Williamson</td>
</tr>
<tr>
<td>15</td>
<td>11:40</td>
<td>CE-110</td>
<td>Mikhael Semaan</td>
<td>Possible Evidence of Odd-Triplet Superconductivity in Nb/Py/SmCo Heterostructures</td>
</tr>
</tbody>
</table>

**STATE UNIVERSITY, LOS ANGELES**

<table>
<thead>
<tr>
<th>Session</th>
<th>Time</th>
<th>Room</th>
<th>Student</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>11:00</td>
<td>CE-113</td>
<td>Miguel Arriola</td>
<td>The Cossacks: Variable Representations and the Development of a Russian National Mythology</td>
</tr>
<tr>
<td>9</td>
<td>12:20</td>
<td>CE-313</td>
<td>Karen Koocharian Pekacheky</td>
<td>Detection of D-(+)-Glucose Using a Novel Handheld Surface Plasmon Resonance Device</td>
</tr>
<tr>
<td>6</td>
<td>12:20</td>
<td>CE-308</td>
<td>Dalton Meena</td>
<td>Black student success</td>
</tr>
<tr>
<td>18</td>
<td>12:00</td>
<td>CE-116</td>
<td>Alma Olaguez</td>
<td>Ripple Effects: How Biased Evidence Can Cause Distortion in Jurors’ Memory</td>
</tr>
<tr>
<td>4</td>
<td>12:00</td>
<td>CE-241</td>
<td>Kevin Parducho</td>
<td>Human-α-Defensin 2 and Lipids Synergistically Reduce Pseudomonas Aeruginosa Biofilm Formation</td>
</tr>
<tr>
<td>9</td>
<td>12:20</td>
<td>CE-313</td>
<td>Michelle Tornquist</td>
<td>A Controlled Field Study of Showups: Examining the Effect of Suggestion and Suspect Similarity</td>
</tr>
<tr>
<td>11</td>
<td>1:00</td>
<td>CE-104</td>
<td>Edith Soto</td>
<td>Temperature Determination of Young Stellar Objects in Near Star Forming Regions</td>
</tr>
<tr>
<td>11</td>
<td>10:00</td>
<td>CE-104</td>
<td>Angela Wu</td>
<td>Numerically-Based Parametric Analysis of Plain Fin and Tube Compact Heat Exchangers</td>
</tr>
<tr>
<td>6</td>
<td>1:40</td>
<td>CE-308</td>
<td>Hoover Zariani</td>
<td>Impact of the Students Talk About Race Program</td>
</tr>
</tbody>
</table>

**CALIFORNIA STATE UNIVERSITY, MONTEREY BAY**

<table>
<thead>
<tr>
<th>Session</th>
<th>Time</th>
<th>Room</th>
<th>Student</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>2:20</td>
<td>CE-241</td>
<td>Elizabeth Alger</td>
<td>Investigating Panicle Architecture Variation in the Grass Panicum Halli</td>
</tr>
<tr>
<td>Session 3</td>
<td>2:40</td>
<td>CE-217</td>
<td>Briana Becerra</td>
<td>Factors Contributing to Seedling Regeneration Subsequent to a Large Scale Clear Cut Compared to a Reference Forest Stand in Hubbard Brook Experimental Forest, New Hampshire</td>
</tr>
<tr>
<td>----------</td>
<td>------</td>
<td>--------</td>
<td>----------------</td>
<td>-------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Session 9</td>
<td>2:20</td>
<td>CE-313</td>
<td>Jade Fackler</td>
<td>Fatigue Index vs. Peak Power as an Accurate Predictor of Mountain Biking Performance in High School Mountain Bike Athletes</td>
</tr>
<tr>
<td>Session 15</td>
<td>12:20</td>
<td>CE-110</td>
<td>Megan Golbek</td>
<td>Submerged Obstacles and Linear Wave Propagation</td>
</tr>
<tr>
<td>Session 3</td>
<td>3:20</td>
<td>CE-217</td>
<td>Jason Rodriguez</td>
<td>Investigation of Ptk1 Function Using Mass Spectrometry-Based Proteomics</td>
</tr>
<tr>
<td>Session 9</td>
<td>3:00</td>
<td>CE-313</td>
<td>Isabella Romero Nasreen Toorbally</td>
<td>Construct Validity of MMPI-2-RF Scales in a Forensic Inpatient Hospital Setting</td>
</tr>
</tbody>
</table>

**California State University, Northridge**

<table>
<thead>
<tr>
<th>Session 5</th>
<th>12:20</th>
<th>CE-303</th>
<th>Caire Armstrong Stephanie Hoston Alex Johnson</th>
<th>Numerical Simulation of Bubble Growth during Nanofluid Flow Boiling in a Microchannel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Session 10</td>
<td>1:00</td>
<td>CE-314</td>
<td>Diana Leigh: From Darkness to Light</td>
<td>Apotheosis: Becoming God through Art</td>
</tr>
<tr>
<td>Session 11</td>
<td>12:40</td>
<td>CE-113</td>
<td>Arman Khalighi Matt Blomquist</td>
<td>Application of Lean Six Sigma in Business Functions</td>
</tr>
<tr>
<td>Session 19</td>
<td>9:20</td>
<td>CE-302</td>
<td>Alan Malfavon</td>
<td>Ethnic Via Crucis and the Legacy of Racism: Stereotypes and Inherited Images Attributed to the Mexican Indigenous Peoples</td>
</tr>
<tr>
<td>Session 2</td>
<td>1:00</td>
<td>CE-213</td>
<td>Richard Mansfield</td>
<td>Does Heat-Induced Sleep in C. Elegans Depend on a Thermosensory Circuit?</td>
</tr>
<tr>
<td>Session 16</td>
<td>1:40</td>
<td>CE-113</td>
<td>Angeline Olliff</td>
<td>Encouraging the “Risks of Caring”: A Cognitive-Development Approach to Collaborative Learning in First-Year Composition</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Session 3</th>
<th>2:20</th>
<th>CE-217</th>
<th>Carli Opland</th>
<th>Using Chemical Compounds to Advance Maturity of Neural Stem Cell-Derived Cultures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Session 8</td>
<td>1:20</td>
<td>CE-312</td>
<td>Amanda Blake</td>
<td>Effect of Vitamin C and Selenium Supplementation on Antioxidant Status and Quality of Life in Hemodialysis Patients</td>
</tr>
<tr>
<td>Session 11</td>
<td>1:20</td>
<td>CE-104</td>
<td>Brian Zambri</td>
<td>Efficient Solution Methodology for Calibrating the Hemodynamic Model using functional Magnetic Resonance Imaging (fMRI) Measurements</td>
</tr>
</tbody>
</table>

**California State Polytechnic University, Pomona**

<table>
<thead>
<tr>
<th>Session 3</th>
<th>12:00</th>
<th>CE-217</th>
<th>Lindsay Hetrick</th>
<th>Investigation of Bmi1 Phosphorylation in Breast Cancer cells</th>
</tr>
</thead>
<tbody>
<tr>
<td>Session 18</td>
<td>11:40</td>
<td>CE-116</td>
<td>Sofia Pedroza</td>
<td>May the Odds Be Ever in Your Favor: Olympics and the IOC</td>
</tr>
<tr>
<td>Session 2</td>
<td>12:20</td>
<td>CE-213</td>
<td>Tabitha Lindsay</td>
<td>North Pacific Opisthobranchs</td>
</tr>
<tr>
<td>Session 5</td>
<td>12:00</td>
<td>CE-303</td>
<td>Parmeet Kohli</td>
<td>Application of Lean Six Sigma in Business Functions</td>
</tr>
<tr>
<td>Session 13</td>
<td>10:20</td>
<td>CE-107</td>
<td>David Vega</td>
<td>Computational Microscopy on a Cellphone</td>
</tr>
<tr>
<td>Session 1</td>
<td>12:20</td>
<td>CE-209</td>
<td>Jonathan Tringali</td>
<td>Cross Protection of a Synthetic MPL (SMPL) Adjuvant Incorporated into a Liposomal M2E Influenza A Virus Vaccine in Balb/C Mice Infected with H1N1 or H3N2</td>
</tr>
</tbody>
</table>
Session 1 12:00 CE-209
Ali Hasan
Giselle Hernandez
Spencer Jones
Lisa Mai
Haley Smolinski
Ashley Stowells
Jaynie Tao
Megan Telebrico

Development of a Fortified Rice Product using Edible Insect Flours for Developing Countries

Session 7 3:40 CE-308
Daniel Jesus Grajeda

What are Internal and External Factors that Contribute to Chicana/o EOPS Student Persistence in Transferring to a Four Year University?

Session 12 9:40 CE-106
Andrew Blancarte
Ketton James
Brian Martin
Abraham Paucar
Ben Saletta

Design of an Innovative, Highly Maneuverable, Stealthy Unmanned Underwater Vehicle with ISR Capabilities

Session 12 10:00 CE-106
Yao Bourdon
Terrence Gaines
Wesley Harijanto
Michael Kim
Natalie La
Tiffany Lai
Kalvin Lam
Michael Lepore
Deanna Lestina
Lucas Townsend
Christine Zheng

Renewable Energy Desalination: Development of Photovoltaic Electrodialysis Desalination System

CALIFORNIA STATE UNIVERSITY, SACRAMENTO

<table>
<thead>
<tr>
<th>Session</th>
<th>Time</th>
<th>Room</th>
<th>Student</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Session 9</td>
<td>2:40</td>
<td>CE-313</td>
<td>Wyatt Andersen</td>
<td>The Anterolateral Ligament: A Case Study</td>
</tr>
<tr>
<td>Session 15</td>
<td>12:40</td>
<td>CE-110</td>
<td>Thor Barerra, Robert Beard</td>
<td>Get Moving! Theory and Application of Electromagnetic Accelerators</td>
</tr>
<tr>
<td>Session 5</td>
<td>1:40</td>
<td>CE-303</td>
<td>Hannah Blodgett</td>
<td>Examining the Effects of Education and other Determinants of CalWORKs Receipt</td>
</tr>
<tr>
<td>Session 5</td>
<td>2:20</td>
<td>CE-303</td>
<td>Yovana Gojnic</td>
<td>Adolescent Physical Activity Levels: The Influence of High School Physical Education Participation</td>
</tr>
<tr>
<td>Session 7</td>
<td>4:20</td>
<td>CE-308</td>
<td>Nyree Hall</td>
<td>Still A Minority: Exploring Black Student Enrollment Decline in the California State University System</td>
</tr>
<tr>
<td>Session 5</td>
<td>2:40</td>
<td>CE-303</td>
<td>Michael Lynch</td>
<td>The Effect of Charter Schools on the Academic Performance of African American and Latino Students</td>
</tr>
</tbody>
</table>
### Session 9
4:00 | CE-313 | Adam O’Neal | Blood Vessel Regeneration in Wound Tissue Seeded with Collagen Scaffolds Containing Human Mesenchymal Stem Cells

### Session 10
3:00 | CE-314 | Debi Ornellas | A Literary Journey: Researching and Transcribing The Works of Alice Dunbar-Nelson

### Session 16
12:00 | CE-113 | Caleb Sanders | The Awakening Dragon: China, Self-Determination, and the First World War

### Session 5
3:00 | CE-303 | Terra Thorne | Immigrants and Health Insurance Enrollment: Identifying Factors that Influence Coverage

### Session 18
12:20 | CE-116 | Jason Alipio | Fluoxetine (Prozac) Exposure during Adolescence Disrupts Spatial Memory Performance in Adulthood

### Session 6
12:00 | CE-308 | Pamela Buchanan | Appreciative Inquiry: A Path to Change in Education

### Session 10
12:00 | CE-314 | Alexander Douglas | Recommender Systems as Cultural Intermediaries: Big Data and the Construction of User Identity

### Session 2
12:00 | CE-213 | Alicia Davis | Characterization of Influenza Nucleoprotein Body Domain as Antiviral Target

### Session 19
9:00 | CE-302 | Dakota Hughes | The Effects of Minimum Wage Increases on California Labor Markets Using a Contiguous Counties Approach

### Session 4
12:20 | CE-241 | Justin Minck | Building Better Assays

### Session 17
1:00 | CE-115 | Lace Riggs | A Novel Animal Model of Emotional Stress in Female c57BL/6 Mice

### Session 8
1:00 | CE-312 | Michelle Stone | Does Early Methylphenidate Exposure Enhance the Rewarding Properties of the Cannabinoid Agonist, CP 55,940, Utilizing the Conditioned Place Preference Paradigm?

### SAN DIEGO STATE UNIVERSITY

<table>
<thead>
<tr>
<th>Session</th>
<th>Time</th>
<th>Room</th>
<th>Student</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Session 12</td>
<td>12:20</td>
<td>CE-106</td>
<td>Carlos Brambila</td>
<td>Droplet Microfluidics as a Means for High Throughput Drug Screening in vivo</td>
</tr>
<tr>
<td>Session 16</td>
<td>11:20</td>
<td>CE-113</td>
<td>Emanuel Delgado</td>
<td>Culture and Gentrification in Barrio Logan</td>
</tr>
<tr>
<td>Session 5</td>
<td>12:40</td>
<td>CE-303</td>
<td>Javier Gonzalez</td>
<td>Bringing Public Good with the Collaboration of Government and Non-Government Organizations</td>
</tr>
<tr>
<td>Session 1</td>
<td>12:40</td>
<td>CE-209</td>
<td>Bryan Hancock</td>
<td>A Novel Group B Streptococcus Infection Model in Zebrafish</td>
</tr>
<tr>
<td>Session 6</td>
<td>12:40</td>
<td>CE-308</td>
<td>Aaron Iffland</td>
<td>Comparing Levels of Homophily and Intergenerational Closure Between Two-Year and Four-Year Students: A Propensity Score Matching Analysis Utilizing the Education Longitudinal Study of 2002</td>
</tr>
<tr>
<td>Session 8</td>
<td>1:40</td>
<td>CE-312</td>
<td>Kathy McCarty-Baker</td>
<td>Inclusive Fitness: Adapting the Physical and Mental Environment in Fitness to Welcome Persons of All Abilities</td>
</tr>
<tr>
<td>Session 17</td>
<td>10:00</td>
<td>CE-115</td>
<td>Kassandra Nearn</td>
<td>Undergraduate Research, Scholarship, and Creative Activity: Analyzing “What Counts?” through Qualitative Research Methods</td>
</tr>
<tr>
<td>Session 8</td>
<td>2:40</td>
<td>CE-312</td>
<td>Jacqueline Schnapp</td>
<td>Grouping Stigmas by Perceived Benefits of Intervention: A Cluster Analysis</td>
</tr>
<tr>
<td>Session 15</td>
<td>1:20</td>
<td>CE-110</td>
<td>Gerardo Soriano</td>
<td>A Theoretical Study on the Isomerization of the Cyclooctatetraenyl Radical</td>
</tr>
<tr>
<td>Session 17</td>
<td>9:20</td>
<td>CE-115</td>
<td>Lisa Wright</td>
<td>The Role of Transformational Leadership Consensus and Innovation Climate Strength in Predicting Employee Attitudes</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
</tbody>
</table>

**SAN FRANCISCO STATE UNIVERSITY**

<table>
<thead>
<tr>
<th>Session</th>
<th>Time</th>
<th>Room</th>
<th>Student</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Session 11</td>
<td>10:40</td>
<td>CE-104</td>
<td>Michael Duffield</td>
<td>Behavior of a Five-Story Moment Resisting Steel Framed Structure Subjected to Elevated Temperatures</td>
</tr>
<tr>
<td>Session 16</td>
<td>9:00</td>
<td>CE-113</td>
<td>Joshua Freimark</td>
<td>Integrated Pest Management in History Collections of the 21st Century</td>
</tr>
<tr>
<td>Session 18</td>
<td>10:00</td>
<td>CE-116</td>
<td>Eduardo Gonzalez</td>
<td>Contextualizing Conflicts: Anti-AKP Protests in Modern Turkey</td>
</tr>
<tr>
<td>Session 4</td>
<td>3:40</td>
<td>CE-241</td>
<td>Torey Jacques</td>
<td>Epothilone b and Paclitaxel Display Synthetic Lethal Interactions with SAC Compromised Cells within the D. Melanogaster Compound Eye</td>
</tr>
<tr>
<td>Session 17</td>
<td>12:20</td>
<td>CE-115</td>
<td>Christine Jimenez</td>
<td>The Neural Correlates of Music-Evoked Autobiographical Memories</td>
</tr>
<tr>
<td>Session 2</td>
<td>3:00</td>
<td>CE-213</td>
<td>Jessica Kwan</td>
<td>Comparison of Ixodes Pacificus Tick Life Stages and their Microbiome Diversity in Relation to Borrelia Burgdorferi Infection</td>
</tr>
<tr>
<td>Session 16</td>
<td>1:00</td>
<td>CE-113</td>
<td>Trevor Myers</td>
<td>Improving the Eye Drop Experience</td>
</tr>
<tr>
<td>Session 5</td>
<td>1:00</td>
<td>CE-303</td>
<td>Melanie Nuni</td>
<td>A Crime Prevention Strategy that Works Association between Oakland Security Ambassador Program and Crime</td>
</tr>
<tr>
<td>Session 8</td>
<td>2:20</td>
<td>CE-312</td>
<td>Taylor Valentino</td>
<td>The Influence of Hydration Status on Thermoregulation During a 161-km Ultramarathon</td>
</tr>
<tr>
<td>Session 6</td>
<td>2:20</td>
<td>CE-308</td>
<td>Ellen Young</td>
<td>Exploring Student Talk in Active Learning Biology Classrooms</td>
</tr>
<tr>
<td>Session 18</td>
<td>10:40</td>
<td>CE-116</td>
<td>Andrew Donahue</td>
<td>Language Variation in Online Communities</td>
</tr>
<tr>
<td>Session 5</td>
<td>1:20</td>
<td>CE-303</td>
<td>Zeynep Erturkoglu</td>
<td>Pressing the Play Button: Understanding the Factors that Influence Social and Mobile Gaming</td>
</tr>
<tr>
<td>Session 11</td>
<td>11:40</td>
<td>CE-104</td>
<td>Dennis Kwon</td>
<td>Stand-Alone Control of DFIGs in a Multiple Wind Turbine System with Load Sharing</td>
</tr>
<tr>
<td>Session 11</td>
<td>9:00</td>
<td>CE-104</td>
<td>Shiva Moballegh</td>
<td>Efficient Message Propagation in Dense Smart-Vehicular Networks</td>
</tr>
<tr>
<td>Session 11</td>
<td>12:40</td>
<td>CE-104</td>
<td>Santrupti Nerli</td>
<td>Genome-wide Prediction of Splice Sites using Classification Trees</td>
</tr>
<tr>
<td>Session 16</td>
<td>9:20</td>
<td>CE-113</td>
<td>Mary Okin</td>
<td>The ‘Maiden at the Press’: Arthur F. Mathews and the Rise of the New Woman</td>
</tr>
<tr>
<td>Session 11</td>
<td>12:20</td>
<td>CE-104</td>
<td>Vaishak Suresh</td>
<td>Aspect-Based Opinion Mining and Recommendation System for Reviews</td>
</tr>
<tr>
<td>Session 2</td>
<td>3:20</td>
<td>CE-213</td>
<td>Katherine Watters</td>
<td>A Novel Mechanism that Directs Neural Circuit Formation</td>
</tr>
</tbody>
</table>

**SAN JOSE STATE UNIVERSITY**

<table>
<thead>
<tr>
<th>Session</th>
<th>Time</th>
<th>Room</th>
<th>Student</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Session 8</td>
<td>3:00</td>
<td>CE-312</td>
<td>Kevin Campbell</td>
<td>Use of Sphingomyelin Treatment to Evaluate DNA Damage Biomarker p21 Expression in UV-Exposed Human Keratinocytes</td>
</tr>
<tr>
<td>Session 9</td>
<td>1:20</td>
<td>CE-313</td>
<td>Kristen Temnyk</td>
<td>Tissue Engineered Coronary Artery “Blood Vessel Mimics” for Intravascular Device Testing.</td>
</tr>
<tr>
<td>Session 11</td>
<td>1:20</td>
<td>CE-303</td>
<td>Syeda Roohi</td>
<td>Pressing the Play Button: Understanding the Factors that Influence Social and Mobile Gaming</td>
</tr>
<tr>
<td>Session 11</td>
<td>1:00</td>
<td>CE-303</td>
<td>Vaishak Suresh</td>
<td>Aspect-Based Opinion Mining and Recommendation System for Reviews</td>
</tr>
</tbody>
</table>

**CALIFORNIA POLYTECHNIC STATE UNIVERSITY, SAN LUIS OBISPO**

<table>
<thead>
<tr>
<th>Session</th>
<th>Time</th>
<th>Room</th>
<th>Student</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Session 8</td>
<td>3:00</td>
<td>CE-312</td>
<td>Kevin Campbell</td>
<td>Use of Sphingomyelin Treatment to Evaluate DNA Damage Biomarker p21 Expression in UV-Exposed Human Keratinocytes</td>
</tr>
<tr>
<td>Session 9</td>
<td>1:20</td>
<td>CE-313</td>
<td>Kristen Temnyk</td>
<td>Tissue Engineered Coronary Artery “Blood Vessel Mimics” for Intravascular Device Testing.</td>
</tr>
</tbody>
</table>
Session 12  12:00  CE-106  Isabel Litton  Tweet-o-matic: An Automated Approach to Batch Processing of Tweets

Session 14  10:20  CE-110  Cheyenne Liu  Characterization of Reagent Pencils for Solvent-free Deposition onto Paper-Based Analytical Devices

Session 9  3:20  CE-313  Isabelle Noxon  Reagent Pencils: A New Technique for Solvent-Free Deposition of Reagents onto Paper-Based Diagnostic Devices

Session 18  11:20  CE-116  Mathew Thomson  The Exit Strategy: Managing Reserves vs. Managing Rates - Can the US Federal Reserve Bank do both?

Session 19  11:40  CE-302  Mikaela Vournas  Mapping Motivations: Nutrition in Transition in Fiji

Session 14  9:00  CE-110  John Abdou  Polymer Transcrystallization Studies on Reduced Graphene Oxide Fibers

Session 13  9:40  CE-107  Leanna Monteleone  Controlling Surface Energy and Wettability with a Light Responsive Linker System

Session 13  10:00  CE-107  Shaker Funkhouser  Proof of an Energy Extremum Principle for Charged Black Holes

Session 1  1:00  CE-209  Michelle Bagood  Hematocrit Percentage has a Complex Relationship with Voluntary Wheel Running and Duration of Parasite Infection

Session 3  12:20  CE-217  Cindy Barba  The Effects of TNF-α on Spleen T Cell Lymphocytes of the Immune System in Obese and Diabetic Mice

Session 9  1:00  CE-313  Anneke Bulthuis  Breaking Brucellosis: Burden Estimates for the Nakapiripirit District of Karamoja, Uganda, 2013-2014

Session 4  1:20  CE-241  Yesenia Cabrera  Effects of Inflammation on Depression and Maternal Behavior in Mice; Implications for Post-Partum Depression


Session 2  1:20  CE-213  Abraham Escobedo  Effects of the Combination of Ketamine and Methamphetamine on Ultrasonic Vocalizations in Laboratory Rats

Session 19  10:00  CE-302  Stephanie Price  Perceived Social Norms and Exercise Behavior among Caucasians and Hispanics

Session 18  10:20  CE-116  Jayme Temple  Antidepressant effects of Ketamine in Sprague Dawley and Wistar Rats

Session 19  1:00  CE-302  Trevor Towner  Endogenous Opioid Involvement in the Rewarding Effects of Methamphetamine

CALIFORNIA STATE UNIVERSITY, SAN MARCOS

<table>
<thead>
<tr>
<th>Session</th>
<th>Time</th>
<th>Room</th>
<th>Student</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Session 18</td>
<td>9:40</td>
<td>CE-116</td>
<td>Robert Altamirano</td>
<td>Ketamine Leads to an Increase in Pleasurable Ultrasonic Vocalizations for Adolescent Rats</td>
</tr>
<tr>
<td>Session</td>
<td>Time</td>
<td>Room</td>
<td>Student</td>
<td>Title</td>
</tr>
<tr>
<td>---------</td>
<td>-------</td>
<td>-------</td>
<td>------------------------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>Session 1</td>
<td>3:20</td>
<td>CE-209</td>
<td>Michelle Ferraro</td>
<td>Evaluating Optimal Foraging Theory in Female Northern Elephant Seals</td>
</tr>
<tr>
<td>Session 1</td>
<td>2:40</td>
<td>CE-209</td>
<td>Kathleen Grady</td>
<td>Avian Response to Small-Scale Riparian Restoration in Marin and Sonoma counties</td>
</tr>
<tr>
<td>Session 3</td>
<td>4:00</td>
<td>CE-217</td>
<td>Michael Huang</td>
<td>Patterns in Forest Taxa: A Look at Two Species of Herptofauna</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Samuel Sanchez</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Heather Timmons</td>
<td></td>
</tr>
<tr>
<td>Session 2</td>
<td>1:40</td>
<td>CE-213</td>
<td>Nicole Karres</td>
<td>Insights into the Effects of Stream Urbanization from Studying the Diet and Foraging Behavior of Western Pond Turtles in two Northern California Streams</td>
</tr>
<tr>
<td>Session 2</td>
<td>2:20</td>
<td>CE-213</td>
<td>Brian Lavin</td>
<td>Around the World in 50 Million Years: Biogeography, Molecular Dating, and Species Delimitation in Glass Lizards (Anguinae)</td>
</tr>
<tr>
<td>Session 19</td>
<td>10:40</td>
<td>CE-302</td>
<td>Isabel Sanchez</td>
<td>Public Perception of Police in Contra Costa County</td>
</tr>
<tr>
<td>Session 1</td>
<td>1:40</td>
<td>CE-209</td>
<td>Penelope Wilson</td>
<td>Effects of Alternative Rearing Strategies on Captive African Ungulates</td>
</tr>
</tbody>
</table>

| Session 3 | 3:40  | CE-217 | Mark Hilgers           | A Comparative Analysis of Larval Helminths Associated with their Intermediate Host, the Sand Crab Emerita Analoga |
| Session 13 | 12:40 | CE-107 | Ashley Loogman         | An Introduction to Geophysical Surveys of Flood Control Levees of South Sherman Island, Sacramento Estuary, California |
| Session 16 | 1:20  | CE-113 | Caleb Hampton          | Nontraditional Pedagogy in the Survey History Classroom: Boardgames as an Uncoverage Tool |
| Session 16 | 12:20 | CE-113 | Joshua Commander       | Producing a Critical Edition of Wilkie Collins’s The Two Destinies (1876) |
| Session 6  | 2:40  | CE-308 | Donna Roberts          | Setting the Stage for Master’s Level Success                          |
| Session 4  | 4:00  | CE-241 | Aaron Brown            | Isolation and Identification of Bioplastic Degrading Bacteria         |
The California State University is a leader in high-quality, accessible, student-focused higher education. With 23 campuses, almost 433,000 students, and 44,000 faculty and staff, we are the largest, the most diverse, and one of the most affordable university systems in the country. We offer unlimited opportunities to help students achieve their goals. We prepare graduates who go on to make a difference in the workforce. We engage in research and creative activities leading to scientific, technical, artistic and social advances. And we play a vital role in the growth and development of California’s communities and economy.

CALIFORNIA STATE UNIVERSITY, BAKERSFIELD (1965)

Centrally located on a 375-acre site in the southern San Joaquin Valley, California State University, Bakersfield is a continuously growing comprehensive regional university that is committed to transforming the lives of its students and community through its established excellence in academia, diversity, service, and community engagement since its founding in 1965. The faculty across the Western Association of Schools and Colleges (WASC) fully accredited University is world-class, with nearly 75% holding terminal degrees in their respective fields. A NCAA Division I school, CSUB has competed successfully in the Western Athletic Conference (WAC) since 2012 and is but one important aspect of a growing and vibrant student-life experience. The University serves more than 9,000 students at either the main campus in Bakersfield or CSUB Antelope Valley and counts over 40,000 alumni from its four schools: Arts and Humanities, Business and Public Administration, Natural Sciences, Mathematics and Engineering, and Social Sciences and Education. The University offers undergraduate, graduate, post-graduate and credential programs, and CSUB’s Extended University serves the community by offering additional professional development, certificate, and degree programs. With over 70 percent of its alumni remaining and working within the central valley, CSU Bakersfield supports ongoing social, cultural and economic development in the region.

9001 Stockdale Highway, Bakersfield, CA 93311-1099
Dr. Horace Mitchell, President
(661) 654-2781 • www.csusb.edu

This campus is on the quarter system.

CALIFORNIA STATE UNIVERSITY, CHANNEL ISLANDS (2002)

Nestled in a picturesque setting five miles from the Pacific Ocean, Channel Islands is the newest CSU campus. Offering a student-centered education CI is known for its interdisciplinary, multicultural, and international emphases. Undergraduate, credential programs, and graduate programs create a close-knit atmosphere in which students receive individual attention from dedicated faculty.

Opportunities for student research allow students to participate in faculty-mentored and independent research projects. Community-based research and community service opportunities allow students to develop their personal, professional, and leadership skills.

One University Drive, Camarillo, CA 93012
Dr. Richard R. Rush, President
(805) 437-8400 • www.csuci.edu

This campus is on the semester system.

CALIFORNIA STATE UNIVERSITY, CHICO (1887)

CSU Chico, the second oldest campus in the CSU, is one of the highest rated public universities in the West. It has excellent graduation and job placement rates and boasts a beautiful residential campus located in a college-town setting. Ninety percent of the students live within a one-mile radius. Many programs, including teacher education, nursing, social work, and recreation administration are known for their innovation and outreach to the university’s primary service area and beyond. A distance education trailblazer, CSU Chico was the first university in the world to offer a graduate degree via satellite. Students have won national awards in business, engineering, construction management, journalism, political science, and speech.

400 West First Street, Chico, CA 95929
Dr. Paul J. Zingg, President
(530) 898-4630 • www.csuchico.edu

This campus is on the semester system.

CALIFORNIA STATE UNIVERSITY, DOMINGUEZ HILLS (1960)

More than half a century after its founding, California State University, Dominguez Hills serves as a conduit between the reality of today’s America and a vision put forth by the CSU. In 1960 CSU Dominguez Hills was deliberately placed in Carson to serve as the intersection of promise and hope for a community in crisis. The university offers more than forty undergraduate majors, twenty master’s degrees, and numerous certificate and credential programs. At CSU Dominguez Hills student success is our highest priority – we offer a strong selection of academic programs reflecting today’s high-demand fields. We create opportunities in and out of the classroom for students, faculty and staff to work and learn together, promoting a student-centered atmosphere. We are a university where pride and purpose meet; where upward mobility begins; where public policy is created; where diversity is celebrated and where our students gain knowledge and skills that prepare them to live and work in a multicultural, global world. As a public state university, we are continually committed to transforming the lives of our students.

1000 East Victoria Street, Carson, CA 90747-0005
Dr. Willie J. Hagan, President
(310) 243-3696 • www.csudh.edu

This campus is on the semester system.
CALIFORNIA STATE UNIVERSITY, EAST BAY (1957)

Cal State East Bay serves the east side of San Francisco Bay with two scenic campuses, one in the Hayward Hills and the other in the Concord foothills, as well as a professional development center in downtown Oakland. With an enrollment of more than 13,000, the university attracts students from throughout the region and from more than 80 countries. Named a “Best in the West” college by The Princeton Review, Cal State East Bay offers more than 100 fields of study, award-winning curricula, small classes, expert faculty, and a fast, flexible quarter system. It confers bachelor’s and master’s degrees, as well as an Ed.D., in educational leadership.

25800 Carlos Bee Boulevard, Hayward, CA 94542
Dr. Leroy M. Morishita, President
(510) 885-3000 • www.csueastbay.edu

This campus is on the quarter system.

CALIFORNIA STATE UNIVERSITY, FRESNO (1911)

Fresno State is the premier university serving Central California’s diverse, growing population. Faculty and students work with community partners on research focused on key regional challenges: water development and conservation, air quality, crop development and child-obesity prevention. The campus is home to the nation’s first university commercial winery, the Downing Planetarium, the ultra-modern Henry Madden Library and the Smittcamp Family Honors College, which admits 50 top high school graduates each year with full scholarships. Fresno State’s beautifully landscaped academic campus (officially an arboretum since 1978) is near the Sierra Nevada Mountains, just two hours’ drive from Yosemite, Kings Canyon and Sequoia national parks.

5241 North Maple Avenue, Fresno, CA 93740
Dr. Joseph I. Castro, President
(559) 278-4240 • www.fresnostate.edu

This campus is on the semester system.

CALIFORNIA STATE UNIVERSITY, FULLERTON (1957)

CSU Fullerton offers the advantages of a dynamic, metropolitan university and a comfortable small-college atmosphere. Students flourish in mentoring relationships with outstanding professors who take pride in shaping a successful learning experience, including numerous opportunities for undergraduate research, hundreds of professional internships and prestigious competitions in the performing arts. With a vibrant, multicultural student population, CSUF ranks ninth in the nation in awarding baccalaureate degrees to minority students; and No. 1 in California and fifth in the nation in awarding baccalaureate degrees to Hispanics. The university is a top choice for future scientists, animation artists, educators, musicians, engineers, and also for studies in the humanities and behavioral and health sciences. Fifty-five undergraduate and 50 graduate degrees — including a doctorate degree — provide students the best of current practice, theory, and research and integrate professional studies with preparation in the arts and sciences.

800 N. State College Boulevard, Fullerton, CA 92834-9480
Dr. Mildred García, President
(657) 278-2011 • www.fullerton.edu

This campus is on the quarter system.

HUMBOLDT STATE UNIVERSITY (1913)

Humboldt State University is a liberal arts and sciences university located on California’s pristine north coast. HSU is distinguished by its emphasis on real-world learning. Opportunities abound for undergraduate fieldwork in both the natural and social sciences. The university is also well known for its small class sizes and its commitment to faculty-student mentoring. HSU is home to one of the strongest natural resource and environmental studies departments in the nation and is consistently ranked by national publications as among the top regional colleges.

One Harpst Street, Arcata, CA 95521-8299
Dr. Rollin C. Richmond, President
(707) 826-3011 • www.humboldt.edu

This campus is on the semester system.

CALIFORNIA STATE UNIVERSITY, LONG BEACH (1949)

California State University, Long Beach (CSULB) is a diverse, student-centered, globally engaged university that provides highly valued degrees through superior teaching, research, scholarly and creative activity, and a commitment to service. With nearly 35,000 students, it is one of the largest campuses among the CSU system’s 23 campuses and one of the largest in the state of California. Students can choose from 85 baccalaureate degrees, 18 credentials, 65 master’s degrees and four doctoral degrees in engineering, physical therapy, nursing and educational leadership. CSULB has consistently been ranked:

• Among the top five best public universities in the West by U.S. News and World Report in recognition of its high-quality education at an affordable cost.
• Top ‘Best Value’ and ‘Best in the West’ (Princeton Review)
• Among the Best Values in Public Colleges (Kiplinger’s Personal Finance)
• Thirteenth in the nation in conferring bachelor’s degrees to minority students  
(Diverse Issues in Higher Education)

• Among the top Universities Nationally in Freshman Applications

1250 Bellflower Boulevard, Long Beach, CA 90840
Dr. Donald J. Para, Interim President
(562) 985-4111 • www.csulb.edu

This campus is on the semester system.

CALIFORNIA STATE UNIVERSITY, LOS ANGELES (1947)

Working for California since 1947: The 175-acre hilltop campus of California State University, Los Angeles is at the heart of a major metropolitan city, just five miles from Los Angeles’ civic and cultural center. More than 20,000 students and 220,000 alumni—with a wide variety of interests, ages and backgrounds—reflect the city’s dynamic mix of populations. Six Colleges offer nationally recognized science, arts, business, criminal justice, engineering, nursing, education, and humanities programs, among others, led by an award-winning faculty. Cal State L.A. is home to the critically acclaimed Luckman Jazz Orchestra and to the Honors College for high-achieving students. Programs that provide exciting enrichment opportunities to students and community include an NEH-supported humanities center; a NASA-funded center for space research; and a growing forensic science program, housed in the Hertzberg-Davis Forensic Science Center. www.calstatela.edu.

5151 State University Drive, Los Angeles, CA 90032
Dr. James M. Rosser, President
(323) 343-3000 • www.calstatela.edu

This campus is on the quarter system.

CALIFORNIA MARITIME ACADEMY (1929)
The California Maritime Academy, which joined the CSU in 1995, is one of only seven degree-granting maritime academies in the U.S. and the only one on the West Coast. Its 4,200 graduated cadets include the first woman to captain a commercial vessel. Cal Maritime graduates enjoy a very high job placement rate, thanks to a unique experiential learning curriculum that includes at least one international training cruise. Located in Vallejo, on the shore of San Pablo Bay, Cal Maritime offers accredited degrees in business administration, marine transportation, facilities engineering technology, maritime policy and management, marine engineering technology, and mechanical engineering. A program of intellectual learning, applied technology, global awareness, and leadership development prepares graduates for positions of responsibility in the areas of maritime, business, logistics, intermodal transportation, and engineering.

200 Maritime Academy Drive, Vallejo, CA 94590
Dr. William B. Eisenhardt, President
(707) 654-1000 • www.csum.edu

This campus is on the semester system.

CALIFORNIA STATE UNIVERSITY, MONTEREY BAY (1994)

Cal State Monterey Bay provides more than 5,700 students an extraordinary opportunity to learn on a residential campus on the beautiful Monterey Peninsula. Our diverse student body receives personal attention in small classes while pursuing degrees in 23 undergraduate and eight graduate majors. Founded in 1995 on the former site of Fort Ord by educators and community leaders, Cal State Monterey Bay faculty and staff build on that legacy as we explore innovative ways to meet the needs of a new generation of students while simultaneously powering the Monterey County economy.

100 Campus Center, Seaside, CA 93955-8001
Dr. Eduardo Ochoa, President
(831) 582-3330 • www.csumb.edu

This campus is on the semester system.

CALIFORNIA STATE UNIVERSITY, NORTHRIDGE (1958)

Serving more than 38,000 students each year, CSUN is one of the largest universities in the United States. CSUN ranks 10th in the country in awarding bachelor’s degrees to underrepresented minority students, fifth nationally in awarding master’s degrees to Hispanic students and enrolls the largest number of deaf and hard-of-hearing students of any U.S. state university. CSUN’s 171 academic programs and engaged centers enjoy international recognition for excellence. CSUN currently partners with more than 55 institutions of higher education in 19 countries around the globe and attracts the largest international student population of any other U.S. master’s level institution. Situated on a 356-acre park-like setting in the heart of Los Angeles’ San Fernando Valley, the campus features modern educational buildings and world-class LEED Gold-certified performing arts and recreational facilities recognized as among the best in the country. CSUN is a welcoming university that champions accessibility, academic excellence and student success.

18111 Nordhoff St., Northridge, CA 91330
Dr. Dianne F. Harrison, President
(818) 677-1200 • www.csun.edu

This campus is on the semester system.
CALIFORNIA STATE POLYTECHNIC UNIVERSITY, POMONA (1938)
Cal Poly Pomona is internationally recognized for its outstanding academic programs, including offerings in hospitality management, architecture, and engineering. One of only six polytechnic universities in the United States, Cal Poly Pomona champions an approach that places learning-by-doing at the center of every program, course, and activity. Millions of dollars in grants are helping the university make a difference in its surrounding and academic communities, from advancing agricultural practice to improving teacher training. Additionally, U.S. News & World Report ranks Cal Poly Pomona as the fourth most ethnically diverse master's level university in the West.

3801 W. Temple Avenue, Pomona, CA 91768
Dr. J. Michael Ortiz, President
(909) 869-7659 • www.csupomona.edu
This campus is on the quarter system.

CALIFORNIA STATE UNIVERSITY, SACRAMENTO (1947)
Sacramento State offers a life-changing opportunity for students, preparing them to be leaders in their fields and communities. Students benefit from strong academic programs, as well as unique opportunities to study public policy and pursue careers in public service in California’s capital city. High-quality teaching in small classes is a top priority. In addition, Sacramento State students can enhance their career preparation through extensive cooperative education, internship, and service-learning programs.

6000 J Street, Sacramento, CA 95819
Dr. Alexander Gonzalez, President
(916) 278-6011 • www.csus.edu
This campus is on the semester system.

CALIFORNIA STATE UNIVERSITY, SAN BERNARDINO (1960)
Cal State San Bernardino, at the foot of the San Bernardino Mountains, was named by students as the most beautiful campus in the CSU system. Serving the Inland Empire region, its nationally accredited College of Business and Public Administration offers an M.B.A. tailored for executives. In addition, the university has a nationally acclaimed writing program and highly respected offerings in computer science, geographic information and decision sciences, psychology, public health administration, and accounting and finance.

The university has a leading state-accredited teacher preparation program that is one of the nation’s largest. Courses are also offered at off-campus locations, including a permanent satellite campus in Palm Desert.

5500 University Parkway, San Bernardino, CA 92407-2397
Dr. Tomás D. Morales, President
(909) 537-5000 • www.csusb.edu
This campus is on the quarter system.

SAN DIEGO STATE UNIVERSITY (1897)
San Diego State University is the oldest and largest higher education institution in the San Diego region. Since it was founded in 1897, the university has grown to offer bachelor’s degrees in 85 areas, master’s degrees in 76, and doctorates in 21 disciplines. SDSU’s 31,000 students participate in an academic curriculum distinguished by direct contact with faculty and an increasing international emphasis that prepares them for a global future. SDSU is designated by the Carnegie Foundation as a research university with high research activity and is ranked among the top 150 public universities in research support, with $145 million in 2010-11.

For more information, visit www.sdsu.edu.
5500 Campanile Drive, San Diego, CA 92182
Dr. Elliot Hirshman President
(619) 594-5200 • www.sdsu.edu
This campus is on the semester system.

SAN FRANCISCO STATE UNIVERSITY (1899)
San Francisco State University, located in one of the world’s most vibrant and beautiful cities, is a recognized leader in addressing issues both global and regional. With a diverse range of students from almost every state and nearly 100 countries, the University community is a perfect setting for learning to succeed in a pluralistic society and global economy. The programs of study at SF State also address regional needs for advanced-level professionals in fields such as business, cinema, science, health sciences, social services and education. In addition to 115 undergraduate programs, 63 master’s degree programs, and 11 credential programs, SF State offers three joint doctoral programs with the University of California and an independent Ed.D., in Educational Leadership. SF State’s pioneering commitment to community and civic engagement is prevalent throughout the curriculum. The University has been named by Princeton Review as one of 81 “Colleges with a Conscience,” and is classified as one of the Carnegie Foundation’s “Community Engagement” institutions.

1600 Holloway Avenue, San Francisco, CA 94132
Dr. Leslie E. Wong, President
(415) 338.1111 • www.sfsu.edu
This campus is on the semester system.
SAN JOSÉ STATE UNIVERSITY (1857)
San José State University (SJSU) is a metropolitan university offering more than 134 bachelor’s and master’s degrees with 110 concentrations. Quality teaching and small classes are a priority at SJSU, where tenured professors teach introductory as well as advanced courses. One of the 200 top research universities in the nation, SJSU offers rigorous course work and research opportunities to more than 30,000 undergraduate and graduate students in seven colleges. SJSU is in a fabulous location—in the heart of a dynamic city and in the world marketplace of Silicon Valley. Area firms and agencies regularly seek SJSU students for internships, summer work programs, and assistance with research projects. SJSU sends 6,000 well prepared graduates into this region every year, more than any other Bay Area school.

One Washington Square, San José, CA 95192-0001
Dr. Mohammed Qayoumi, President
(408) 924-1000 • www.sjsu.edu
This campus is on the semester system.

CALIFORNIA POLYTECHNIC STATE UNIVERSITY, SAN LUIS OBISPO (1901)
Cal Poly San Luis Obispo is recognized by peer institutions and by U.S. News & World Report as one of the nation’s finest public, primarily undergraduate institutions. The university is particularly well known for its outstanding programs in engineering, architecture, and agriculture. With over 6,000 acres, the campus is one of the largest in the nation and accommodates a working vineyard among other agricultural operations. With the recent completion of Poly Canyon Village, a spectacular sustainable living environment with a host of amenities, the primarily residential campus houses more than 5,500 students. Cal Poly’s “learn-by-doing” philosophy permeates teaching, learning, and living as a campus community. Over 100,000 alumni and students have benefited from the Cal Poly advantage and have contributed to the state’s and the nation’s intellectual and economic engines. Among its prominent alumni are Robert “Hoot” Gibson, five-time NASA astronaut, and Al Smith, founder of the Orchard Supply Hardware chain.

One Grand Avenue, San Luis Obispo, CA 93407
Dr. Jeffrey D. Armstrong, President (805) 756-1111 • www.calpoly.edu
This campus is on the quarter system.

CALIFORNIA STATE UNIVERSITY, SAN MARCOS (1989)
Celebrating two decades of service, CSUSM is a pioneer in providing broad access to quality instruction and a trail-blazer in hands-on education relevant to today’s global and technology-rich society. The University is nationally recognized as a model of public accountability, institutional innovation and community engagement. CSUSM builds regional alliances that foster economic, social, and cultural development while inspiring student excellence and supporting faculty engagement in cutting-edge research and creative activities. At CSUSM, students graduate prepared to be tomorrow’s leaders and equipped to solve critical 21st century problems.

333 S. Twin Oaks Valley Road, San Marcos, CA 92096-0001
Dr. Karen Haynes, President (760) 750-4000 • www.csusm.edu
This campus is on the semester system.

SONOMA STATE UNIVERSITY (1960)
Sonoma State University, founded as a teacher education center for the North Bay, is now a liberal arts and sciences university that provides high-quality undergraduate education and selected professional graduate programs. Dedicated to the liberal arts and sciences and known for its active use of technology, the Sonoma State educational experience fosters intellectual, cognitive, social, and personal growth. The university’s faculty and staff provide close mentoring relationships and an education that fosters ethical exploration, civic engagement, social responsibility, and global awareness combined with a solid foundation in an academic discipline.

1801 East Cotati Avenue, Rohnert Park, CA 94928-3609
Dr. Ruben Armiñana, President (707) 664-2880 • www.sonoma.edu
This campus is on the semester system.

CALIFORNIA STATE UNIVERSITY, STANISLAUS (1957)
CSU Stanislaus, with top programs in the arts, letters, sciences, teacher education, and business, serves a diverse student body in one of the fastest growing regions in the country, the San Joaquin Valley. The University offers over 100 majors, minors, concentrations and teaching credentials, 24 master’s degree programs and six graduate certificate programs as well as an Executive MBA and a doctoral degree program in Educational Leadership. Partnership programs in nursing, business, and agriculture help meet regional workforce needs. Its Endangered Species Recovery Program, unique in the CSU, teams university faculty and staff with state and federal agency experts to restore plant and animal life in the region.

One University Circle, Turlock, CA 95382-0299
Dr. Hamid Shivani, President (209) 667-3122 • www.csustan.edu

This campus is on the quarter system.
ACKNOWLEDGEMENTS

We would like to acknowledge and thank Lockheed Martin for sponsoring the awards for the Engineering & Computer Science and Physical & Mathematical Sciences sessions.

Thanks to all of the jurors, whom without this event would not be possible.

Thank you to the Chancellor’s Office for its continued support of this event.

We would also like to thank all of the faculty, staff, and students at CSUSB who contributed their time to host the research competition.