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## Event Schedule

**Friday, April 28, 2017**

- **11:00–4:00** **Registration:** Breezeway, Business Building (3)*
- **11:00–4:00** **Refreshments:** Breezeway, Business Building (3)*
- **12:10–4:30** **Student Presentations:** Business Building (3), Education Building (2), and Engineering West (21)
- **5:00–7:00** **Opening Reception and Activities:** Mustang Station and Lanes, University Union (65)

**Saturday, April 29, 2017**

- **7:30–11:30** **Registration:** Breezeway, Business Building (3)*
- **7:30–10:00** **Continental Breakfast and Refreshments:** Breezeway, Business Building (3)*
- **8:00–12:20** **Student Presentations:** Business Building (3) and Education Building (2)
- **12:30–3:00** **Awards Luncheon:** MAC, Recreation Center (43)

*In the case of inclement weather, Registration and Refreshments will be located in the entryway of the Education Building (2).
Welcome to the California Polytechnic State University, San Luis Obispo, and the 31st Annual CSU Student Research Competition. This competition highlights the vibrancy, quality, diversity and academic excellence that embody the California State University.

Research, scholarship and creative activity extend learning beyond the classroom, providing an opportunity to push the boundaries of knowledge while developing a passion for discovery. Research and scholarship provide opportunities to innovate and test our knowledge, while creative activity allows for deep exploration of the human spirit and our natural world. Across our 23 campuses, CSU students, faculty and staff are working to solve the most pressing challenges facing California, the nation and the world.

The CSU Student Research Competition is an opportunity to demonstrate what you have learned before experts, faculty and your peers. While this year’s competitors come from across California and represent our rich diversity of backgrounds and academic disciplines, we all share a common drive to explore, question and better understand the world around us.

Congratulations on all you have accomplished and I wish you the very best in this competition.
A message from

JEFFREY D. ARMSTRONG

President, Cal Poly State University, San Luis Obispo

On behalf of Cal Poly students, faculty and staff, welcome to our campus and the San Luis Obispo community.

It is an honor to host this year’s California State University Statewide Student Research Competition. We look forward to showcasing the outstanding research of all the student participants.

The caliber and variety of work that will be reviewed over the course of the competition is a direct reflection of the talented students we have in the California State University system. We could not be more proud of these students and our role in celebrating their accomplishments.

Again, welcome to Cal Poly. Please enjoy the competition, as well as your time on our campus and in our community.
A message from

KATHLEEN ENZ FINKEN
Provost and Executive Vice President, Cal Poly State University

On behalf of Cal Poly, welcome to the 31st Annual CSU Student Research Competition. This event is truly a celebration that showcases the importance of research and highlights the intelligence, curiosity, and commitment of individuals involved in all stages of the research process. I offer my personal congratulations to all participants!

I also want to take a moment to thank the faculty and staff that mentor and support students who are conducting research. Providing research opportunities for our students is helping them become critical thinkers, lifelong learners, creative professionals, and engaged citizens.

At Cal Poly, our Learn by Doing approach necessarily involves our students in research, scholarly, and creative activities from all disciplines and fields. We incorporate high impact practices throughout the curriculum and we seek to deliver experiences that allow our students to be challenged and to grow intellectually and personally.

The benefits of research, scholarly, and creative activities are significant. Students that participate in research activities are more likely to stay in school and graduate in a timely manner; they develop self-confidence, become independent and self-directed learners; they are more competitive in the job market and gaining admission to graduate school. These are all great outcomes for the State of California.

Research in the CSU also often focuses on creating a positive impact on our community, private industry, and government agencies. A quick perusal through the program shows that our students are making significant contributions to the health and wellbeing of our communities, to the management and stewardship of natural resources, to the use of technology in solving important problems, and to creative and artistic human expression.

Thank you, students, faculty, and staff, for creating through your work a richer and more meaningful scholarly community at our campuses, and a more vibrant and thriving California State University.
Opening Remarks

GANESH RAMAN

Assistant Vice Chancellor for Research, California State University

Ganesh Raman is the senior academic official responsible for the vision, advancement and administration of CSU’s research and scholarly mission and enterprise. He is also a member of the senior administrative team of Academic and Student Affairs.

Dr. Raman formerly served as the Deputy Vice Provost for Research at the Illinois Institute of Technology. At Illinois Tech, he played a key role in the inaugural administration of a $1M prize focusing on Innovation with Societal Impact (Nayar Prize). He served as co-principal investigator for an $8M Department of Energy University/Industry Consortium grant involving more than a dozen organizations.

In addition to his administrative role, he was a professor in the Mechanical, Materials and Aerospace Engineering Department in the Armour College of Engineering at Illinois Tech. He was recently named a fellow by the American Institute of Aeronautics and Astronautics (AIAA), the world’s largest aerospace professional society. He is the founding editor-in-chief of the International Journal of Aeroacoustics and is also a fellow of the American Society of Mechanical Engineers and the Royal Aeronautical Society, UK.

Prior to his previous role, Dr. Raman served as Associate Dean of Research in the Graduate College. As Associate Chairman for Aerospace Engineering he was responsible for Accreditation Board for Engineering and Technology (ABET) accreditation at Illinois Tech. He began his career at NASA Glenn Research Center where he worked for 14 years and has served in consulting capacities with the Boeing Company. He is internationally recognized for his research in the areas of aeroacoustics and flow control. He has published more than 150 articles in conference publications and leading scientific journals such as the *Journal of Fluid Mechanics* and *Physics of Fluids*.

Dr. Raman earned his Ph.D. in Mechanical and Aerospace Engineering with a specialization in Fluid Dynamics from Case Western Reserve University in 1991. He earned a M.S. from Cleveland State University and a B.Tech. from Indian Institute of Technology.
Keynote Address

VICTOR SANCHEZ
Director of Workplace Engineering, LinkedIn

Victor Sanchez received Bachelor’s and Master’s degrees in Civil and Environmental Engineering with an emphasis on Structural Engineering from Cal Poly San Luis Obispo. He completed these degrees with honors and distinctions, respectively. He is a certified Project Management Professional and Engineer in Training. While employed, Victor continued his education by completing a certification in Construction Management from the University of California, Berkeley Extension where he currently is pursuing a certification in Project Management as well.

While at Cal Poly, Victor had a series of research opportunities. First, for his Master’s thesis he investigated a method of enhancing progressive collapse resistance of steel frames using thin infill steel panels. He presented his research at the 25th CSU Student Research Completion where he won first place in the Engineering and Computer Science Graduate Category. Second, Victor investigated the performance of nonductile concrete building moment frame joints under lateral load as an intern at UC Berkeley’s Pacific Earthquake Engineering Research Center and The Network for Earthquake Engineering Simulation. Third, Victor and his team investigated, designed, and built a functional prototype for a portable generator capable of converting solar energy into electrical energy on the moon, using the stirling engine technology. The design won first place at the 2008 Advancing Hispanic Excellence in Technology, Engineering, Math and Science Foundation National Design Competition, which was sponsored and judged by NASA.

He started his professional career as a Facilities Engineer at Brocade Communications, where he managed a $9M annual utility budget. He built a multiple regression statistical model to predict energy consumption and cost, improving quarter-to-quarter forecast from 20% to 1%. As a result of his outstanding performance, he was quickly promoted to Global Technical Project Manager. He was responsible for managing design and construction of $30M of research and development network-equipment laboratories in America and Asia.

In his current role, Victor is the Director of Workplace Engineering for LinkedIn, a company of Microsoft. In the last two-and-half years he has managed approximately $170M of design and construction projects in multiple countries in the Americas, Asia, Europe and Middle East. His new responsibilities include developing engineering standards for LinkedIn offices globally, and best practices for technical operations. He is also responsible for evaluating and implementing systems and technologies, as well as data analytics to optimize office space performance and manage workplace programs.

Victor’s success and accelerated career growth is hugely credited to his critical thinking and systematic approach to solving complex problems. He learned, developed, and matured these skills through formal research.
Kimberly Paterson Hunt graduated summa cum laude from Cal Poly, San Luis Obispo in 2011 with a Bachelor’s of Arts in English Literature, minors in Linguistics and Communications, and a Teaching English as a Second Language (TESL) certificate before entering the Computer Science Master’s program the same year. Bridging the gap between the humanities and sciences, Kimberly focused on the intersection between human language and computers and now works at Google as a Software Engineer on the Google Assistant.

In her time at Cal Poly, Kimberly conducted individual research as well as contributed to several larger research projects. In 2010, Kimberly participated in the CSU Research Competition and took second place in her category for her research on the issues surrounding gender and female gamers in massively multiplayer online roll playing games. As her senior project, Kimberly studied Sentiment Analysis, analyzing the emotional content of text using machine learning in partnership with Netflix; a project which looked at Tweets to detect when Netflix experienced outages.

Kimberly also was one of the founding members of the Digital Democracy project. The “Google for Government” project, sponsored by former state Senator Sam Blakeslee, was recently featured on Forbes and Wired magazines. Digital Democracy is one of the larger research projects at Cal Poly’s Institute for Advanced Technology and Public Policy, which employs students to build a system that makes State congress' meeting transcripts and videos accessible and searchable for the first time. In 2014, Kimberly graduated with honors from the computer science Master’s program; her Master’s thesis measured the lifecycle of new stories and predicted the importance of news stories using Machine Learning.

Throughout her time at Cal Poly, Kimberly worked on cross-disciplinary teams and emphasized the benefits of well-rounded education as well as research. She believes that strong collaboration skills and the ability to conduct research in unfamiliar disciplines are essential skills which gave her greater opportunity both at Cal Poly and as a software engineer.
### Sessions Overview

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Friday, April 28, 2017: Session 1

**BIOLOGICAL AND AGRICULTURAL SCIENCES, Undergraduate**

*Location: Education 02-212*

12:30-12:50  **Sa La Kim**
CSU Northridge
ITGA1 is a Novel Biomarker and Therapeutic Target for Blocking Stemness in Pancreatic Cancer

12:50-1:10  **Jaycie Fickle**
CSU Bakersfield
Vessel-to-vessel Pit Membrane Area is Correlated with Hydraulic Transport Traits in *Populus trichocarpa*

1:10-1:30  **Nesreen Albanna, Jasbindar Kaur**
CSU East Bay
Inhibiting the Feeding Behavior of *Drosophila suzukii*

1:30-1:50  **Kimberly Swafford, Erik Christiansen**
CSU Sacramento
Egg Size Determines Fry Size in Substrate-Spawning Cichlid Fishes

1:50-2:10  **Benjamin Soto**
Cal Poly Pomona
Analysis of Garlic’s (*Allium sativum*) Effects on Lipopolysaccharide and *Candida albicans* Induced Immune Response in J774A.1 and RAW 264.7 Murine Macrophages

2:10-2:30  **BREAK**

2:30-2:50  **Wren Thompson**
Cal Poly San Luis Obispo
The Broken Wing Display: Evolution of Deception in Class Aves

2:50-3:10  **Michael Carrillo**
CSU Long Beach
The Effects of Aging on the Skeletal and Cardiac Muscles in Mice Bred for Exercise Activity

3:10-3:30  **Karla Gutiérrez**
CSU Fullerton
Evaluating the Importance of Pre-settlement Versus Post-settlement Processes in Determining Adult Population Density of the Olympia Oyster, *Ostrea lurida*, in Newport Bay, CA

3:30-3:50  **Maylin Caldwell**
CSU San Marcos
Characterization of the Internal NAD(P)H Dehydrogenases in *Arabidopsis thaliana*

3:50-4:10  **Char'Mane Robinson**
CSU Monterey Bay
A Statistical and Spatial Analysis of Chemical Contaminants in Cocos Lagoon, Guam

4:10-4:30  **Jesse Argueta, Anel Torres**
CSU San Bernardino
Assessment of Developmental Toxicity Potential of Glyphosate-Based Herbicides Using *Drosophila melanogaster* Primary Embryonic Stem Cell Cultures
Friday, April 28, 2017: Session 2

BIOLOGICAL AND AGRICULTURAL SCIENCES, Graduate
Location: Business 03-104

1:30-1:50  Mitchell Coleman  
CSU Bakersfield  
Factors Affecting Seedling Recruitment of Native *Atriplex polycarpa* Shrubs in the San Joaquin Valley of California  

1:50-2:10  Lan Ma  
San Francisco State  
Shed Light on Tree-Ring Reconstructed Temperatures: Influence of Competition on Growth in a High Sierra Treeline Environment  

2:10-2:30  Jesse Smith  
CSU Chico  
Growth Receptor Bound Protein-2 (GRB2) Overexpression Expands Myeloid Cells and Increases Proliferation in Chronic Myeloid Leukemia (CML)  

2:30-2:50  Cole Frazier  
Cal Poly Pomona  
Effective Treatment of Azole Resistant *Candida albicans* in a Murine Ascending Urinary Tract Infection with Liposomal Amphotericin B  

2:50-3:10  BREAK

3:10-3:30  Hessam Ghanimi  
Cal Poly Pomona  
The Phylogenetic Reconstruction of the Sea Slug Genus *Berthella* using Molecular and Morphological Traits  

3:30-3:50  Michael Vernon  
Humboldt State  
In the Face of Drought: Do Fuel Reduction Treatments Promote Drought Resistance at Whiskeytown National Recreation Area?  

3:50-4:10  Raj Divi  
CSU Fullerton  
Bio-inspired Design – Modeling Vortical Filtration Mechanics of Manta Rays to Develop an Efficient Filtration System  

4:10-4:30  Megan Morris  
San Diego State  
Floral Visitation Influences the Composition of Floral Nectar Microbial Communities
**Friday, April 28, 2017: Session 3**

**BEHAVIORAL AND SOCIAL SCIENCES, Graduate**

*Location: Business 03-111*

12:30-12:50  **Dulce Montiel**  
CSU Los Angeles  
*Media Use: Well-Being, School-Belonging and Academic Performance*

12:50-1:10  **Sarah Mohr**  
CSU East Bay  
*Protective Factors in Muslim Women’s Mental Health in the San Francisco Bay Area*

1:10-1:30  **Sargs Karavardanyan**  
CSU Northridge  
*The Partisan and Ideological Impact on Environmental Policy Among American Voters*

1:30-1:50  **Sarah Ottone**  
CSU Long Beach  
*A Qualitative Examination of Pretrial Decision-Making in Two California Counties*

1:50-2:10  **Jessica Porter-Rodriguez**  
CSU San Bernardino  
*The Impact of the Medieval Climatic Anomaly on the Archaeology at Edwards Air Force Base*

2:10-2:30  **BREAK**

2:30-2:50  **Arthur Castaneda**  
CSU San Marcos  
*Stress and Maternal Behavior: The Effects of Hypocretin-1 Antagonism During the Postpartum Period*

2:50-3:10  **Kristen Morrow**  
San Diego State  
*Risky Business: Causes & Conservation Implications of Human-Moor Macaque (Macaca maura) Interaction in Bantimurung-Bulusaurang National Park, South Sulawesi, Indonesia*

3:10-3:30  **Shannon Clarendon**  
CSU San Bernardino  
*Fire Affected Rock: An Investigation Into Diagnostic Utility*

3:30-3:50  **Jacquelynn Coon**  
CSU Chico  
*Augmenting Reality: Improving Habitat Dioramas through the Use of Augmented Reality Technology*

3:50-4:10  **Kevin Click**  
CSU Chico  
*Turning Risk Into Reward: Resilience, Well-Being, and Early Success Inform Achievement, and Persistence Toward a Bachelor’s Degree for Disadvantaged Students*

4:10-4:30  **Christina Montes**  
CSU Sacramento  
*Using Awareness Training to Reduce College Students’ Speech Disfluencies in Public Speaking*
Friday, April 28, 2017: Session 4

BEHAVIORAL AND SOCIAL SCIENCES, Undergraduate
Location: Education 02-013

12:30-12:50  Fardusa Ismail, Selena Cartznes
CSU Fullerton
“Am I the Only One?”: Personal and Witnessed Cyberbullying Experiences among Latino Middle School Students

12:50-1:10  Kelly Ebeling
CSU Los Angeles
Neuroticism, Smoking, and Health Perceptions in People Living with HIV and AIDS

1:10-1:30  Jordan Garrett
Cal Poly Pomona
Examining the Functional Network Structure of the Frontal Lobes across Domains of Cognition

1:30-1:50  Daniel Raad
Cal Poly Pomona
Do Social Networks Mirror the Ideals of a Deliberative Democracy?

1:50-2:10  Emily Matthews
Cal Poly San Luis Obispo
United States’ Failure to Adopt Global Environmental Agreements

2:10-2:30  BREAK

2:30-2:50  Nasseem Alshaif
CSU Bakersfield
Do I Know You? How Verbal Descriptions Can Lead to Mistaken Eyewitness Identifications

2:50-3:10  Sarah Coffin
CSU Monterey Bay
Seeing through the Eyes of an Albatross: Perspective-taking at the Monterey Bay Aquarium

3:10-3:30  Stephanie Price
CSU San Marcos
Refinement of a Self-Report Scale for Measuring Subjective Emptiness

3:30-3:50  Janhavi Dhargalkar
CSU San Bernardino
Effects of Repeated Fluoxetine and Paroxetine Exposure on Hippocampal BDNF Functioning in Adolescent Rats

3:50-4:10  Deirdre Bence
CSU Channel Islands
Indelible Ink: The Ties that Bind American Females through Print Media 1776-1848

4:10-4:30  Jordan Tackett
CSU Chico
Memory for Words Differing in Lexical Confusability
Friday, April 28, 2017: Session 5

ENGINEERING AND COMPUTER SCIENCE, Undergraduate
Location: Business 03-209

12:10-12:30  Gerson Ribas, Jomel Bautista, Jorge L. Gonzalez-Figueroa
Cal Poly Pomona
Bioretention Systems: Stormwater Management Utilizing Low Impact Development Principles
(Bioretention Cells)

12:30-12:50  Katherine Leyba
CSU Long Beach
Improving Gait Symmetry in Post-Stroke Patients via Biofeedback Device

12:50-1:10   Ayad Ahmed
CSU Fresno
Functional Surface Target as Control and Validation of 3-D Laser Scanner Point Cloud

1:10-1:30    Korey Cain
CSU Bakersfield
Low Complexity Design for Universal-Filtered Multi-Carrier Systems

1:30-1:50    Akarsh Rao, Daniel Salazar
CSU East Bay
Virtual Reality Applications For Waste Management

1:50-2:10    Margarita Kovalchuk
CSU Sacramento
Influence of Wind on Hydrodynamics of Constructed Delta Wetlands

2:10-2:30    BREAK

2:30-2:50    Kevin Daley
CSU Dominguez Hills
RTMP Video Streaming: Server Tool Development for Accessibility and Efficiency

2:50-3:10    Julia Roche
Cal Poly San Luis Obispo
Reverse Sprinkler: Solved!

3:10-3:30    Corey Smith, Jesus Bamford
CSU Channel Islands
ciNeuroBot: A Goal-Oriented Autonomous Maze Running Mobile Robot

3:30-3:50    Mostafa Vahidi
Cal Poly Pomona
Distinguishing Music from Advertisement by Using Machine Learning Techniques for Audio Classification

3:50-4:10    Alec Maxwell
San Francisco State
Innovative Mobile Remote Shake Table Laboratory

4:10-4:30    Thomas Ward, Ahmad Alsharhan, Chris Veyna, Hieu Le, Ryan Kean
CSU Fullerton
Building a Low-Cost Atomic Force Microscope
Friday, April 28, 2017: Session 6

EDUCATION, Undergraduate and Graduate
Location: Education 02-203

1:10-1:30  Analisa Brown
San Francisco State
Investigating the Experiences of Black Students Studying Biology at San Francisco State University

1:30-1:50  Soraya Fallah
CSU Northridge
Experiences of Middle Eastern, North African, and Southwest Asian (MENASWA) Families of Children with Disabilities in the United States Special Education System

1:50-2:10  Charlotte Haigh
CSU Long Beach
More Than Skin Deep: The Impact of Self-Esteem, the Desire for Lighter Skin, and Gender on the Mental Health of University Students in Thailand

2:10-2:30  Janae Tovar
CSU Sacramento
Exploring the Benefits of Videoconferencing in Instructional Coaching with Elementary Teachers

2:30-2:50  BREAK

2:50-3:10  Andrew Carhart
CSU Sacramento
School Finance Decisions and Academic Performance: An Analysis of the Impacts of School Expenditures on Student Performance

3:10-3:30  Jacob Chiang
CSU Sacramento
Curricular Activities that Promote Metacognitive Skills Impact Lower-Performing Students in an Introductory Biology Course

3:30-3:50  Zitlali Torres
CSU Sacramento
In the Shadows of Academia: Analyzing the Experiences of Undocumented Female and Male College Students

3:50-4:10  Darielle Blevins
San Diego State
Closeness and Conflict: Teachers’ Perceptions of their Relationships with Kindergarten Girls

4:10-4:30  Vincent Moya, Stacy Musgrave
Cal Poly Pomona
Structure Sense
Friday, April 28, 2017: Session 7

HUMANITIES AND LETTERS, Undergraduate
Location: Business 03-204

12:30-12:50 Rebecca Rooker
CSU Stanislaus
The Myth of Cleopatra: Shrewd Sovereign or Wanton Woman

12:50-1:10 Christina Brown
CSU Channel Islands
Lizard People: Examining a Narrative of Power and Division

1:10-1:30 Mariah Gonsalez
CSU Stanislaus

1:30-1:50 Monica Gudino
CSU Stanislaus
Feminine Fallout: The Horrors of Femaleness in the Post-Apocalyptic Genre

1:50-2:10 Miguel Hernandez
CSU Northridge
“Uncovering the Real”: Gerald Vizenor’s Postindian Warrior

2:10-2:30 BREAK

2:30-2:50 Alexandra Conrad
San Francisco State
Three-Headed Hound of the Moon: A Comparative Look at the Roles of Hecate in the Ancient and Modern Worlds

2:50-3:10 Lawrence Ramirez
CSU Dominguez Hills
Significant Possessions: Altered States of Consciousness in Yoruba Masquerades

3:10-3:30 Sayaka Tsugai
Cal Poly San Luis Obispo
Purposeful Memory: Sources, Processes and Solutions

3:30-3:50 Richard DeSantis
San Diego State
Heidegger and the Postmodern Subject

3:50-4:10 Erik Ramirez
CSU Sacramento

4:10-4:30 Meghan Ueland
Humboldt State
A Historical Investigation into the Chinese Expulsion from Eureka, California
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<td>12:30-12:50</td>
<td>Lynn Utley, Jessica Maldonado</td>
<td>CSU Channel Islands</td>
<td>Efficient Synthesis of Nucleoside Analogues for Therapeutic Applications</td>
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<td>12:50-1:10</td>
<td>Natalia da Silva, Hector Salgado</td>
<td>CSU Dominguez Hills</td>
<td>Differences of Harmonic Numbers and the abc-conjecture</td>
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<td>1:10-1:30</td>
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<td>CSU Long Beach</td>
<td>Morphology-Dependent Optical Energy Band Gap in Copper- and Manganese-Phthalocyanine Thin Films</td>
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<td>1:30-1:50</td>
<td>David Bilger</td>
<td>Cal Poly San Luis Obispo</td>
<td>Multi-Scale Assembly of Polythiophene-Surfactant Supramolecular Complexes for Charge Transport Anisotropy</td>
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<td>1:50-2:10</td>
<td>Guadalupe Calvillo</td>
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<td>Electrochemical Characterization of Free-base Corrole Tautomers</td>
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<td>Can All Your Shots Come True? A Comparison of Self-modeling Techniques on Free Throw Performance</td>
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<td>Andrew Hudson</td>
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<tr>
<td>3:10-3:30</td>
<td>Erik Ostlund</td>
<td>CSU Bakersfield</td>
<td>Nanotubes Wrapped Helically by Polymeric Molecules</td>
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<td>3:30-3:50</td>
<td>Stacy Guzman</td>
<td>CSU Fullerton</td>
<td>Small-molecule Inhibitors of Wnt Signaling Pathway: Towards Novel Anticancer Therapeutics</td>
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<td>3:50-4:10</td>
<td>Andres Zumba Quezada</td>
<td>CSU Fresno</td>
<td>Zeros of Polynomials of a Four-term Recurrence</td>
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<td>4:10-4:30</td>
<td>Michael Dobbs</td>
<td>Sonoma State</td>
<td>b-Tagging Algorithm Characterization and Optimization</td>
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</table>
Friday, April 28, 2017: Session 9

PHYSICAL AND MATHEMATICAL SCIENCES, Graduate
Location: Business 03-206

2:50-3:10 Julia Dandurand
CSU Northridge
On Book Crossing Numbers of the Complete Graph

3:10-3:30 Jackson Reeder
San Francisco State
How Ledge Mountain is Changing Adirondack Tectonics

3:30-3:50 Rosetta Lottie
CSU Bakersfield
Synthesis of β-APN Derivatives for Inhibition of the LOX Enzyme

3:50-4:10 Grant Robinson
CSU Los Angeles
Coloring Distance Graphs and the Density of Integer Sequences with Missing Separations

4:10-4:30 Arianna Brown
CSU Los Angeles
Infrared Investigations for Star Formation Suppression in X-ray Selected AGN
Friday, April 28, 2017: Session 10

CREATIVE ARTS AND DESIGN, Undergraduate and Graduate
Location: Business 03-206

12:10-12:30  Lamar Pi  
San Francisco State  
MODU, Design for All

12:30-12:50  Johnny Gonzales, Jon Domingo, Cynthia Gutierrez  
CSU Dominguez Hills  
Surf Photography: The Watermen

12:50-1:10  David Kano  
CSU Northridge  
Concussed: The American Dream

1:10-1:30  Raquel Rojas  
CSU Los Angeles  
Un Camino Nuevo | A New Path: The Transformative Power of Muralism in Low-Income Communities

1:30-1:50  Tiersa Cosaert  
CSU San Marcos  
Curios of the Future (part of Weather on Steroids: the Art of Climate Change Science)

1:50-2:10  Jessica Van Ruiten, Jada Keeran  
San Diego State  
Researching and Replicating 19th Century Puebla Pottery

2:10-2:30  Kimberly King  
San Diego State  
Cultivating Social-Emotional Intelligence through Theatre and Performing Arts: Trolley Dances and Whole Person Education through Creative Human Interaction
Friday, April 28, 2017: Session 11

INTERDISCIPLINARY, Undergraduate and Graduate
Location: Engineering West 21-133

12:50-1:10  Katelyn Tomasello  
Cal Poly San Luis Obispo  
How to Make the Jailhouse Rock: An Evaluation of Effective Music Therapy Among Juvenile Offenders

1:10-1:30  Trevor Lowe  
Cal Poly San Luis Obispo  
Using Eye-Tracking and Task Analyses to Understand Human-Package Interactions

1:30-1:50  Tiffany Darden  
CSU Channel Islands  
Scare Tactics: Do Captive Gibbons Respond Appropriately to Potentially Dangerous Stimuli

1:50-2:10  James Brewer  
CSU Channel Islands  
Historic Archaeology of the Oxnard Plain and the Unheard Voices of America’s Agricultural Landscape: An Analysis of Rural Life during the Interwar Period

2:10-2:30  Leena Jamaleddin  
CSU Stanislaus  
Creating a Critical Edition of 19th Century Nautical Melodramas

2:30-2:50  BREAK

2:50-3:10  Kyle Rocha-Brownell  
CSU Chico  
Artificial Neural Network Training through Simulated Natural Selection

3:10-3:30  Jeland Palicte, Bryan Dang  
San Jose State  
Virtual Reality Telepresence in Healthcare Simulation Training

3:30-3:50  Manee Patanapongpibul  
CSU Fresno  
Optimization of Diarylpentadienones as Chemotherapeutics for Prostate Cancer

3:50-4:10  Petrona Gregorio  
CSU San Marcos  
The Effects of Social Norms and Self-Affirmation on Changes in Sugar-Sweetened Beverage Consumption Intentions and Behaviors

4:10-4:30  Karina Guadalupe  
CSU San Marcos  
Stability of Hsp60 from Helicobacter pylori: Effect of GTP Binding
Saturday, April 29, 2017: Session 12

BIOLOGICAL AND AGRICULTURAL SCIENCES, Undergraduate

Location: Education 02-203

8:00-8:20  Caitlin Stapp  
CSU Fullerton  
The Structural Properties of Blacktip Poacher (Xeneretmus latifrons) Scales: A Biomechanical Inspiration for Puncture-Resistant Armor

8:20-8:40  Cecilia Garcia  
CSU Monterey Bay  
RNA Interference (RNAi) Control of Whitefly, Bemisia tabaci MEAM1

8:40-9:00  Lizett Gonzalez, Joshua Dimapilis, Marlene Noriega  
CSU San Bernardino  
Detection and Cultivation of Novel Archaea from Great Boiling Spring, NV

9:00-9:20  Kathryn Johnston  
CSU Bakersfield  
Cell Viability Studies of Breast Cancer Cells Using Lysyl Oxidase Inhibitors

9:20-9:40  Jimmy Monge  
CSU Chico  
Native vs. Non-native Riparian Inputs to California Stream Communities: A Comparative Leaf Decomposition Analysis

9:40-10:00  BREAK

10:00-10:20  Anthony Luu, Levi Sigua  
CSU East Bay  
Development of an Aptamer-based Sensor for Galactosemia

10:20-10:40  John Stepanek  
Cal Poly San Luis Obispo  
Stress-Induced Color Change In Southern Pacific Rattlesnakes (Crotalus helleri)

10:40-11:00  Erika Lytle  
CSU Dominguez Hills  
Using Population Genetic Analyses to Distinguish between Two Morphologically Similar Species of Rush Lilies (Hastingsia)

11:00-11:20  Brandon Trafton  
CSU Sacramento  
Developing Drosophila melanogaster as a Model for the Identification of Environmental Chemicals that Confer Risk of Autism

11:20-11:40  Francisco Fernandez, Oscar Davalos, Miguel Rosas  
CSU San Marcos  
Defining the Expression Domains of the Arabidopsis glutaredoxin Genes AtGRXS5, AtGRXS6, and AtGRXS8
Saturday, April 29, 2017: Session 13

BIOLOGICAL AND AGRICULTURAL SCIENCES, Graduate
Location: Education 02-204

8:20-8:40  Arturo Berrun  
CSU Chico  
ism-1’s Role in Hematopoietic Differentiation and Proliferation

8:40-9:00  Pablo Diaz  
CSU Chico  
MicroRNA-375 has Different Effects in Different Cell Lines in Type II Diabetes

9:00-9:20  Don Clarke  
CSU Los Angeles  
Development of a Stem Cell/Gene Therapy for Sanfilippo syndrome B

9:20-9:40  Lauren Smith  
Humboldt State  
Seasonal Comparison of Environmental DNA and Traditional Sampling Techniques for Detecting Coastal Tailed Frogs

9:40-10:00  BREAK

10:00-10:20  Laura Morgan  
Humboldt State  
Spatial Vegetation Modeling Suggests a Novel Transmission Pathway of the Invasive Forest Pathogen Phytophthora ramorum

10:20-10:40  Nidhi Nagar  
CSU East Bay  
Role of Bacteria and Bacterial Metabolites in Development of Nonalcoholic Steatohepatitis (NASH)

10:40-11:00  Ryan T. Scott  
San Jose State  
Zoledronate Prevents Simulated Weightlessness-Induced Bone Loss in the Cancellous Compartment While Blunting the Efficacy of a Mechanical Loading Countermeasure

11:00-11:20  Harmony Saunders  
San Diego State  
The Impact of Estrogen on Anti-tumor Immunity and Its Role in the Racial Disparity in Prostate Cancer
Saturday, April 29, 2017: Session 14

HUMANITIES AND LETTERS, Graduate
Location: Education 02-212

8:00-8:20 Mary Ryan
San Jose State
A Functional Explanation of Word-final [s] Lenition in Spanish: Comparing Corpus Data from Western Andalusian and Castilian

8:20-8:40 Sarah Lysgaard
San Jose State
Ballet de la Nuit: Staging the Absolute Monarchy of Louis XIV

8:40-9:00 Emily Farris
San Francisco State
“This we prescribe though no physician”: Embodying History in Shakespeare’s Second Tetralogy

9:00-9:20 Paloma Duran
CSU Dominguez Hills
It’s About Bloody Time

9:20-9:40 Desmond Hassing
San Diego State
The Child Assimilation Agenda: The Connections between Federal Indian Policy and Indian Representations in DC Comic Books

9:40-10:00 Nick Gomez
CSU Fullerton
Ornette Coleman in 1959: Redefining the Form and Function of Jazz

10:00-10:20 BREAK

10:20-10:40 Katherine Mishler
CSU Los Angeles
Concepts of Gender Sensationalized: Women and Their Industrial Injuries in Newspapers During World War I

10:40-11:00 Vanessa Malabanan
CSU Long Beach
Rule-Following Paradox Unanswerable, but We Still Get on Anyway

11:00-11:20 Jonathan Byron
CSU Stanislaus
The Catholicism of Poison in Christopher Marlowe’s The Jew of Malta

11:20-11:40 Jacqueline Hollcraft
CSU Stanislaus
The Forbidden Fruit of The Duchess of Malfi

11:40-12:00 Andre Adame
CSU San Bernardino
The Developments and Applications of Uses and Gratifications to Video Games

12:00-12:20 Nicholas Heitkamp
Sonoma State
The Hills Always Know: Perception, Production, and Place on the Modini Ranch (1935-2005)
Saturday, April 29, 2017: Session 15

BEHAVIORAL AND SOCIAL SCIENCES, Undergraduate
Location: Business 03-204

8:00-8:20  Jeannette Herrera  
CSU Channel Islands  
What are the Psychological Predictors of Academic Success in First Generation University Students?

8:20-8:40  Aisling Kelly  
Cal Poly Pomona  
Do Fact Checks Matter? An Assessment on the Impact of Fact-Checking in “Post-Truth” Politics

8:40-9:00  Gredma Casasola  
CSU Los Angeles  
Fueron los Subversivos: Reconstructing Guatemala’s Conflict through Oral History

9:00-9:20  Ricardo Cueva  
Humboldt State  
“A Culturally Bankrupt Society”: Jazz Students and Academic Capitalism

9:20-9:40  Mutsumi Ogaki  
CSU Fresno  
Pornography and Public Acceptance: A Step Toward Effective Regulation

9:40-10:00  Michelle Varni  
CSU Stanislaus  
Eroticizing Entertainment: How “Gal*Gun: Double Peace” Affects the Female Image

10:00-10:20  BREAK

10:20-10:40  Katrina Conen, Jayme Luna  
CSU Monterey Bay  
Impact of Using Raw Versus Uniform T Scores in MMPI-2-RF Descriptive and Inferential Research

10:40-11:00  Jennifer Huffman  
CSU East Bay  
The Relationship Between Working Memory and Executive Function (Specifically Inhibition) among Spanish/English Bilingual College Students

11:00-11:20  Vanessa Huebner  
Sonoma State  
“Parental Leave” -- Or the Lack Thereof: A Comparison between Germany and the U.S.

11:20-11:40  Matthew Argame  
CSU Long Beach  
Assessing the Effectiveness of a Peer-to-Peer Model of QPR (Question, Persuade, Refer) for Suicide Prevention Trainings to Premedical and Science Undergraduate Students

11:40-12:00  Andrea Flores  
CSU San Marcos  
Mindfulness Induction After Encoding Decreases False Memory
Saturday, April 29, 2017: Session 16

BEHAVIORAL AND SOCIAL SCIENCES, Graduate
Location: Business 03-205

8:20-8:40 Shelby Elia
CSU Fresno
Public Perceptions of Exonerees from the Criminal Justice System

8:40-9:00 Hedaya Rizeq
San Diego State
Let’s Talk about Secs: Are There Gender Differences in Young Distracted Drivers?

9:00-9:20 Erika Anderson
CSU Chico
Are You Listening to Me? The Influence of Community and Family Communication on Political Expression

9:20-9:40 Gabriela Cedre
CSU Los Angeles
False Memories for Evidence Presented at Trial

9:40-10:00 Valerie Sgheiza
CSU Chico
An Age-based Approach to Establishing Minimum Number of Individuals in Commingled Juvenile Skeletal Material

10:00-10:20 BREAK

10:20-10:40 Matthew McClellan
CSU Bakersfield
Supporting LGBTQ+ Students: Evaluating CSUB’s Campus Resources

10:40-11:00 Maya Wax Cavallaro
CSU Northridge
Verbal Arts and Internet Technology in Unangam Tunuu Revitalization

11:00-11:20 Kathryn Layton
CSU San Marcos
Day-to-Day Associations Between Anxiety and Impairment in Preschool-Aged Children

11:20-11:40 Daniel Pearlstone
San Francisco State
The Effect of Guided Participation on Social Performance of Children on the Autism Spectrum in Inclusive Sports Activities

11:40-12:00 Oddessey Tapia, Ryan Ylanan
CSU East Bay
#Motivation: Examining Motivational Aspects of, and Physical Activity Associations with, Fitness-related Social Media Activity
Saturday, April 29, 2017: Session 17

BUSINESS, ECONOMICS, AND PUBLIC ADMINISTRATION, Undergraduate and Graduate
Location: Business 03-206

10:20-10:40  Josephine Hazelton  
CSU Stanislaus  
Public Administrators’ Selective Hearing in Active Transportation Decision-Making

10:40-11:00  Visakha Som  
San Francisco State  
Aging in America and Meals on Wheels: Exploring Impacts on Food Insecurity, Health Outcomes, and Hospitalizations

11:00-11:20  F. Michael Chua  
CSU East Bay  
Effects of Import Competition on Job Satisfaction

11:20-11:40  Dhanushka Kumarasinghe  
CSU Dominguez Hills  
Come Catch Pokemon at the Celadon City Department Store!: Player Perceptions toward Businesses within Pokemon Go Hotspots

11:40-12:00  Nicholas Jenkins  
CSU Long Beach  
Becoming an Entrepreneur: The Role of Employment History and Risk
Saturday, April 29, 2017: Session 18

ENGINEERING AND COMPUTER SCIENCE, Graduate
Location: Business 03-209

9:00-9:20 Bijay K C
CSU Fresno
Simulating Groundwater Flow: A Case Study at Fresno's Leaky Acres Recharge

9:20-9:40 Mayur Parmar
CSU Fullerton
Experimental Study on Liquid-assisted Laser Beam Micro-Machining of Smart Materials

9:40-10:00 Kunal Goswami
San Jose State
Reinforcement Learning Based Adaptive Threat Response in Software Defined Networks

10:00-10:20 Maryam Runiassy
San Jose State
Modeling Cloud Computing Threats and Vulnerabilities

10:20-10:40 BREAK

10:40-11:00 Jacob Rada
Humboldt State
Comparison of PV Module Performance Before and After 11, 20, and 25.5 Years of Field Exposure

11:00-11:20 Galen OToole
Humboldt State
Pressure Retarded Osmosis: Energy Recovery for Seawater Desalination

11:20-11:40 Shahin Jahanbanifar, Puneet Kaur
CSU East Bay
Construction Workers' Injury Prevention Using Smartphone Based Activity Recognition System

11:40-12:00 Ardalan Raisi Sofi
CSU Northridge
Explicit Tangent Stiffness Matrix for the Geometrically Nonlinear Analysis of Laminated Composite Space Frame Structures
Saturday, April 29, 2017: Session 19

HEALTH, NUTRITION, AND CLINICAL SCIENCES, Undergraduate
Location: Business 03-113

10:40-11:00 Natalia Ukhlivanova
CSU Los Angeles
Inhibition of the Amyloid Beta Aggregation by Natural Polyphenolic Compounds in Treatment of Alzheimer’s Disease

11:00-11:20 Lauren Bell, Sarah Quon, Camille Tolleshaug, Elaina Gates
Cal Poly San Luis Obispo
Impact of Education, Age and Other Factors on Food Insecurity in Pregnant Malawian Women with Moderate Malnutrition

11:20-11:40 Jonathan Aquino, Nelly Isidoro, Priscilla Galindo
CSU San Bernardino
Comparing Smart Apparel Muscle Activity Measurements to Surface Electromyography During Exercise

11:40-12:00 James Vongsaroj
CSU Monterey Bay
Examining Temperament in Exercise Dependence and Eating Disorders

12:00-12:20 Kellen Murray
CSU Monterey Bay
Inspiration or Thinspiration: Examining Prevalence and Associations among Problematic Internet Use, Exercise Dependence, and Eating Disorder Risk in Women
Saturday, April 29, 2017: Session 20

HEALTH, NUTRITION, AND CLINICAL SCIENCES, Graduate
Location: Business 03-114

8:00-8:20  Yea Ji Lee, Jessica Lontayo
CSU Dominguez Hills
Musical Interventions for Children with Autism: Parents’ Perspectives

8:20-8:40  Kevin Sun, Lauren Santiago, Daniella Tarankow
CSU Dominguez Hills
Living with Crohn’s Disease: A Phenomenological Study

8:40-9:00  Hugo Sanchez
CSU Long Beach
The Moderating Effect of Social Support on the Association between Pregnant Women’s Mindfulness and Perceived Stress Reactivity

9:00-9:20  Sheena Cruz
CSU Long Beach
Racial/Ethnic and Gender Differences in Characteristics of Prescription Stimulant Misuse

9:20-9:40  Jingyun (Theresa) Yao
CSU East Bay
The Effectiveness of Saline Injection in the Treatment of Vocal Fold Scarring

9:40-10:00  Gelareh Jahangiri
CSU Northridge
A Proactive Risk Assessment Framework to Enhance Patient Safety in Operating Rooms

10:00-10:20  BREAK

10:20-10:40  Allison Paff
CSU Fullerton
Investigation of Feedback Schedules on Speech Motor Learning in Healthy Younger and Older Adults

10:40-11:00  Megan Self
CSU Sacramento
Physical Therapy Treatment for a Patient with Myasthenia Gravis in the Acute Care Setting: A Case Report

11:00-11:20  Kelly Hood
San Francisco State
Validity and Reliability of Body Composition Techniques in Healthy Adults

11:20-11:40  Dennis Hernandez
Humboldt State
The Effect of Rest Interval Duration on the Volume Completed during a High Intensity Bench Press Exercise

11:40-12:00  Aileen Chau, Samantha Chow, Ashley Carey, Sherry Chau
CSU Dominguez Hills
Occupational Changes after Death of a Long-Term Spouse: The Widow’s Experience
PHYSICAL AND MATHEMATICAL SCIENCES, Undergraduate
Location: Business 03-112

8:00-8:20  James Oakley
CSU San Marcos
Gold(I)-Catalyzed Friedel–Crafts-Like Arylation of Benzylic Alcohols to Afford 1,1-Diarylmethanes

8:20-8:40  Laura Fleischman
Cal Poly San Luis Obispo
Black Holes Stuck on Black Strings: Saving Cosmic Censorship

8:40-9:00  Trini Nguyen
CSU Fullerton
Mathematical Model to Detect Dry-Eye Diseases

9:00-9:20  Hadil Shalan
San Jose State
Improved Photocatalytic Activity of Hybrid P450 Biocatalysts by Substituent Variation in the Ru(II)-
Polypyridyl Photosensitizer

9:20-9:40  Areli Castrejon
CSU Northridge
The Photoelectric Instability in Debris Disks: Planets or Just Gas?

9:40-10:00  Nick Belgau, Monique Montague, Garret Engen, Zach Walsh, Jonathan Hatamoff, Austin
Lee
Cal Poly Pomona
Free Surface Electrospun Polyvinylidene Fluoride Membranes for Direct Contact Membrane Distillation

10:00-10:20  BREAK

10:20-10:40  Sean Haas
Humboldt State
Searching for a Connection Between Radio Emission and UV/optical Absorption in Quasars

10:40-11:00  Alex Rinaldi
CSU Bakersfield
Super Resolution of Infrared Thermography

11:00-11:20  Alexander Cabot, Irene Lin
San Jose State
Search for O[1-] Earthquake-like Precursors: An MEµSR MgO Study

11:20-11:40  Joseph Granados, Jake Probst, Nick Armour, Jeff Bahns
Sonoma State
Recognizing Phases from Supercomputing Power Consumption Traces

11:40-12:00  Patricia De La Torre, Anne Nelson
Sonoma State
Mechanistic Investigation of Photochemical Products from Iron-Iron Hydrogenase Model Compounds

12:00-12:20  Ka Chan
CSU Stanislaus
Synthesis of Suberadamine A
## Campus Delegations

### California State University, Bakersfield

**Friday, April 28**

<table>
<thead>
<tr>
<th>PRESENTER(S)</th>
<th>LOCATION</th>
<th>TIME</th>
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<tr>
<td>Jaycie Fickle</td>
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<tr>
<td>Korey Cain</td>
<td>03-209</td>
<td>1:10-1:30</td>
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<tr>
<td>Mitchell Coleman</td>
<td>03-104</td>
<td>1:30-1:50</td>
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<td>Nasseem Alshaif</td>
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<tr>
<td>Andrew Hudson</td>
<td>03-205</td>
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<td>Erik Ostlund</td>
<td>03-205</td>
<td>3:10-3:30</td>
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<tr>
<td>Rosetta Lottie</td>
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<tr>
<td>Kathryn Johnston</td>
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<td>Matthew McClellan</td>
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<tr>
<td>Alex Rinaldi</td>
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### California State University, Channel Islands

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<tr>
<td>Lynn Utley, Jessica Maldonado</td>
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<td>Christina Brown</td>
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<td>Tiffany Darden</td>
<td>21-133</td>
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<td>James Brewer</td>
<td>21-133</td>
<td>1:50-2:10</td>
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<tr>
<td>Corey Smith, Jesus Bamford</td>
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<td>Deirdre Bence</td>
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<tr>
<td>Jeannette Herrera</td>
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### California State University, Chico

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<tr>
<td>Jesse Smith</td>
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<td>Kyle Rocha-Brownell</td>
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<td>Jacquelynn Coon</td>
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<td>Kevin Click</td>
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<td>Valerie Sgheiza</td>
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### California State University, Dominguez Hills

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<td>Johnny Gonzales, Jon Domingo, Cynthia Gutierrez</td>
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<td>Natalia da Silva, Hector Salgado</td>
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<td>Kevin Daley</td>
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## Campus Delegations

### California State University, East Bay

**Friday, April 28**

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**Saturday, April 29**

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### California State University, Fresno

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**Saturday, April 29**

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### California State University, Fullerton

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**Saturday, April 29**

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### Humboldt State University

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# Campus Delegations

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**California State University, Long Beach**

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## Campus Delegations

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### San Diego State University

**Friday, April 28**
10 Jessica Van Ruiten, Kimberly King, Kristen Morrow, Richard DeSantis, Megan Morris  
10 Jessica Van Ruiten, 03-206 1:50-2:10  
10 Kimberly King 03-206 2:10-2:30  
3 Kristen Morrow 03-111 2:50-3:10  
7 Richard DeSantis 03-204 3:30-3:50  
6 Darielle Blevins 02-203 3:50-4:10  
2 Megan Morris 03-104 4:10-4:30

**Saturday, April 29**
16 Hedaya Rizeq 03-205 8:40-9:00  
14 Desmond Hassing 02-212 9:20-9:40  
13 Harmony Saunders 02-204 11:00-11:20

### San Francisco State University

**Friday, April 28**
10 Lamar Pi, Analisa Brown, Lan Ma, Alexandra Conrad, Jackson Reeder, Alec Maxwell  
10 Lamar Pi 03-206 12:10-12:30  
6 Analisa Brown 02-203 1:10-1:30  
2 Lan Ma 03-104 1:50-2:10  
7 Alexandra Conrad 03-204 2:30-2:50  
9 Jackson Reeder 03-206 3:10-3:30  
5 Alec Maxwell 03-209 3:50-4:10

**Saturday, April 29**
14 Emily Farris 02-212 8:40-9:00  
17 Visakha Som 03-206 10:40-11:00  
20 Kelly Hood 03-114 11:00-11:20  
16 Daniel Pearlstone 03-205 11:20-11:40

### San Jose State University

**Friday, April 28**
11 Jeland Palicte, Bryan Dang  
11 Jeland Palicte, Bryan Dang 21-133 3:10-3:30

**Saturday, April 29**
14 Mary Ryan 02-212 8:00-8:20  
14 Sarah Lysgaard 02-212 8:20-8:40  
21 Hadil Shalan 03-112 9:00-9:20  
18 Kunal Goswami 03-209 9:40-10:00  
18 Maryam Runiassy 03-209 10:00-10:20  
13 Ryan T. Scott 02-204 10:40-11:00  
21 Alexander Cabot, Irene Lin 03-112 11:00-11:20
### Campus Delegations

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<td>Michael Dobbs</td>
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<td>Laura Fleischman</td>
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<td>Nicholas Heitkamp</td>
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<td>Michelle Varni</td>
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<td>Josephine Hazelton</td>
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<td>Ka Chan</td>
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The California State University System

California State University is a leader in high quality, accessible, student-focused higher education. With 23 campuses, 474,600 students, and 49,000 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 • http://www.csub.edu
This campus is on the semester 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, CSU CI is known for its interdisciplinary, multicultural, service learning, 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. Erika D. Beck, 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. Gayle E. Hutchinson, President  
(530) 898-4636  •  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

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. In 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)

California State University, Fullerton (CSUF) 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 Garcia, President
(657) 278-2011 • www.fullerton.edu
This campus is on the semester system.

Humboldt State University (1913)

Humboldt State University is a comprehensive, residential campus located on California’s pristine north coast. The campus is distinguished by its emphasis on real-world learning. Opportunities abound for undergraduate fieldwork in both the natural and social sciences. With annual enrollment just over 8,000, Humboldt State is large enough to offer a lively campus with major research facilities, but small enough that students are not lost in a crowd. It is a tight-knit community where professors and staff are known for getting to know their students. Humboldt State 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. Lisa Rossbacher, 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 more than 37,500 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 82 baccalaureate degrees, 16 credentials, 65 master’s degrees, and four doctoral degrees in engineering, physical therapy, nursing and educational leadership. CSULB has been consistently 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 price.
- A ‘Best College Value’ (Kiplinger’s Personal Finance)
- Sixth in the nation in conferring bachelor’s degrees to minority students (Diverse Issues in Higher Education)
- One of the top universities nationally in freshmen applications

1250 Bellflower Boulevard, Long Beach, CA 90840
Dr. Jane Close Conoley, President
(562) 985-4111 • www.csulb.edu
This campus is on the semester system.

California State University, Los Angeles (1947)

California State University, Los Angeles is the premier public comprehensive university in the heart of Los Angeles. The University is part of the 23-campus California State University system, which is the largest public university system in the nation. Cal State LA promotes academic excellence, achievement, leadership and well-being to more than 28,600 students. The student population reflects the rich diversity of the Los Angeles region. The majority of students—23,440—are undergraduates who are taking courses in more than 60 majors, often in small classes where professors know them by name. The University has eight colleges that are recognized for outstanding programs and professors who are accomplished mentors and researchers. Cal State LA strives to provide a small-campus feel at a public university in a global city.

5151 State University Drive, Los Angeles, CA 90032
William A. Covino, President
(323) 343-3000 • www.calstatela.edu
This campus is on the semester system.

California State University Maritime Academy (1929)

Cal Maritime, 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 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. Thomas A. Cropper, President
(707) 654-1000 • www.csun.edu
This campus is on the semester system.
California State University, Monterey Bay (1994)

Cal State Monterey Bay provides more than 7,600 students an extraordinary opportunity to learn on a residential campus on the beautiful Monterey Peninsula. The diverse student body receives personal attention in small classes while pursuing degrees in 25 undergraduate and 7 graduate majors. Founded in 1994 on the former site of Fort Ord by educators and community leaders, Cal State Monterey Bay faculty and staff build on that legacy to 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)

One of the largest universities in the country, California State University, Northridge (CSUN) is an urban, comprehensive university that delivers award-winning undergraduate and graduate programs to nearly 40,000 students annually and counts more than 330,000 alumni who elevate Southern California and beyond. Since its founding in 1958, CSUN has made a significant and long-term economic impact on California, generating nearly $1.9 billion in economic impact and more than 11,700 jobs each year. The LAEDC recognized CSUN as its 2015 Eddy Award winner for its positive economic impact. Serving more students on Pell Grants than any other institution in California, CSUN is also a social elevator and one of the most diverse universities in the country. CSUN ranks 13th in awarding bachelor’s degrees to underrepresented minority students and seventh in bachelor’s degrees to Latino students, serves the 13th largest Jewish student population, and enrolls the largest number of deaf and hard-of-hearing students of any U.S. state university. The journal Nature recently named CSUN a Rising Star for scientific research, and the NSF ranks CSUN in the top five nationally among similar institutions for graduates who go on to earn doctorates in the sciences. CSUN is where individuals rise. And through them, so does Greater Los Angeles and beyond.

1811 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. Soraya M. Coley, President
(909) 869-7659 • www.cpp.edu
This campus is on the quarter system.
California State University, Sacramento (1947)

Sacramento State is California’s capital university and a recognized leader in education, innovation, and engagement, dedicated to transforming lives by preparing students for leadership, service, and success. Located in a 3,500-tree urban forest just six miles from the State Capitol, our diverse student body of 30,000 enjoys unique opportunities to live, work, and learn in the political, cultural, and economic heart of California. Founded in 1947, the University has grown to offer 58 undergraduate majors, 41 master’s degrees, 20 credential programs, two independent doctorates, and a joint doctorate. Our passionate students, dedicated faculty, and more than 235,000 alumni shape the landscape of California, providing valuable insight and community leadership in one of the nation’s fastest-growing and most innovative regions.

6000 J Street, Sacramento, CA 95819
Dr. Robert S. Nelsen, President
(916) 278-6011 • www.csus.edu

This campus is on a 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.

5500 Campanile, San Diego, CA 92182
Dr. Elliot Hirshman, President
(619) 594-5200 • www.sdsu.edu

The 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 community. The programs of study at SF State also address regional needs for advanced-placed professionals in the 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), a metropolitan university, has a long and proud history as a supplier of excellent higher education, a contributor to the skilled workforce in the Bay Area, and an incubator for innovations that have local and global impacts. Through the decades, the key mission of the university has remained the same — to offer an exceptional and affordable education to all students so they find success in their careers and become engaged citizens of California. SJSU is committed to providing rigorous course work, along with research, scholarship, and creative activity (RSCA) opportunities, to a diverse population of nearly 33,000 undergraduate and graduate students in seven colleges. The university is especially dedicated to enhancing the connection between RSCA and classroom activities to provide context and relevance for the curriculum while also engaging and inspiring students. These opportunities combine learning with discovery, mentoring with teaching and knowledge with application. SJSU also recognizes the importance of RSCA to move disciplines forward, improve quality of life on local and global levels, provide experiences for students that support retention, build the reputation of our institution and bring in resources from outside agencies. SJSU is situated in a region known for innovation with extensive global connections that leads the United States and the world in many industries. The university is proud to be a partner with Silicon Valley through engagement and intellectual contributions with industry leaders, government agencies and nonprofits.

One Washington Square, San José, CA 95192-0001
Dr. Mary A. Papazian, 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 and 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 a recent completion of Poly Canyon Village, a spectacular sustainable living environment with a host of amenities, the primarily residential campus houses more than 6,300 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, California State University, San Marcos (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. Judy Sakaki, President
(707) 664-2880 • www.sonoma.edu
This campus is on the semester system.

Stanislaus State University (1960)

As the only public four-year university in the Northern San Joaquin Valley, Stanislaus State University serves a diverse student body of more than 9,200 on a beautiful 228-acre campus that is the region's largest urban forest. It has top programs in four colleges offering 42 undergraduate major programs, 23 master's programs, a doctoral program, seven credential programs, and eight certificate programs as well as an acclaimed executive MBA program. It is a federally-designated Hispanic-Serving Institution (HSI) that helps meet the workforce needs of the region with partnership programs in nursing, teacher education, business, and agriculture. The University is one of only two CSUs to offer cognitive studies and the forensic science concentration within the bachelor's degree in criminal justice. Stanislaus State was ranked the No. 1 public university in the nation for helping its students exceed expectations by Money. The University is designated with the Carnegie Foundation’s Community Engagement Classification and has been named to the national President’s Higher Education Community Service Honor Roll each year since its 2006 inception.

One University Circle, Turlock, CA 95382-0299
Dr. Ellen N. Junn, President
(209) 667-3122 • www.csustan.edu
This campus is on the semester system.
Acknowledgments

This event would not have been possible without the collaboration and cooperation of many Cal Poly staff, faculty, students, and community members. A special thank you to Allie Walter and Debbie Hart for leading the coordinating of the competition, and to Kristi Hogue, in Conference and Event Planning, for her help in planning and pulling together the details and logistics. Thank you also to Dean Wendt for his support, advising, and input.

Thank you to Ganesh Raman and Polly Huggins in the CSU Chancellor’s Office for their continued support of this event.

Thank you to Julie Salyer and last year’s host, CSU Bakersfield, for providing information and advice.

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