

**2012 PSW American Society for Engineering Education Conference**

Cal Poly • San Luis Obispo, California • Thurs.-Sat., April 19-21, 2012



# 2012 PSW ASEE Conference Program

Cal Poly, San Luis Obispo

Thursday April 19th – Saturday April 21<sup>st</sup>

*“Engagement, Collaboration and Innovation in Engineering Education”*



Conference website: [aseepsw2012.calpoly.edu/](http://aseepsw2012.calpoly.edu/)  
ASEE PSW section website: [csupomona.edu/~sparisay/ASEE/PSW/](http://csupomona.edu/~sparisay/ASEE/PSW/)

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*“Engagement, Collaboration and Innovation in Engineering Education”*

## Conference at a Glance

### Thursday, April 19<sup>th</sup>, 2012

- **8am – 12pm** Workshops
  - **1pm – 5pm** Workshops
  - **6pm – 8pm** Welcome Reception & Registration
- 

### Friday, April 20<sup>th</sup>, 2012

- **9am – 12:30pm** Technical Sessions
  - **10:30am – 4pm** Ongoing Expo
  - **12:30pm – 2pm** Poster Sessions
  - **2pm – 5pm** Technical Sessions
  - **6pm – 9pm** Banquet & Awards (Madonna Inn – Garden Room)
- 

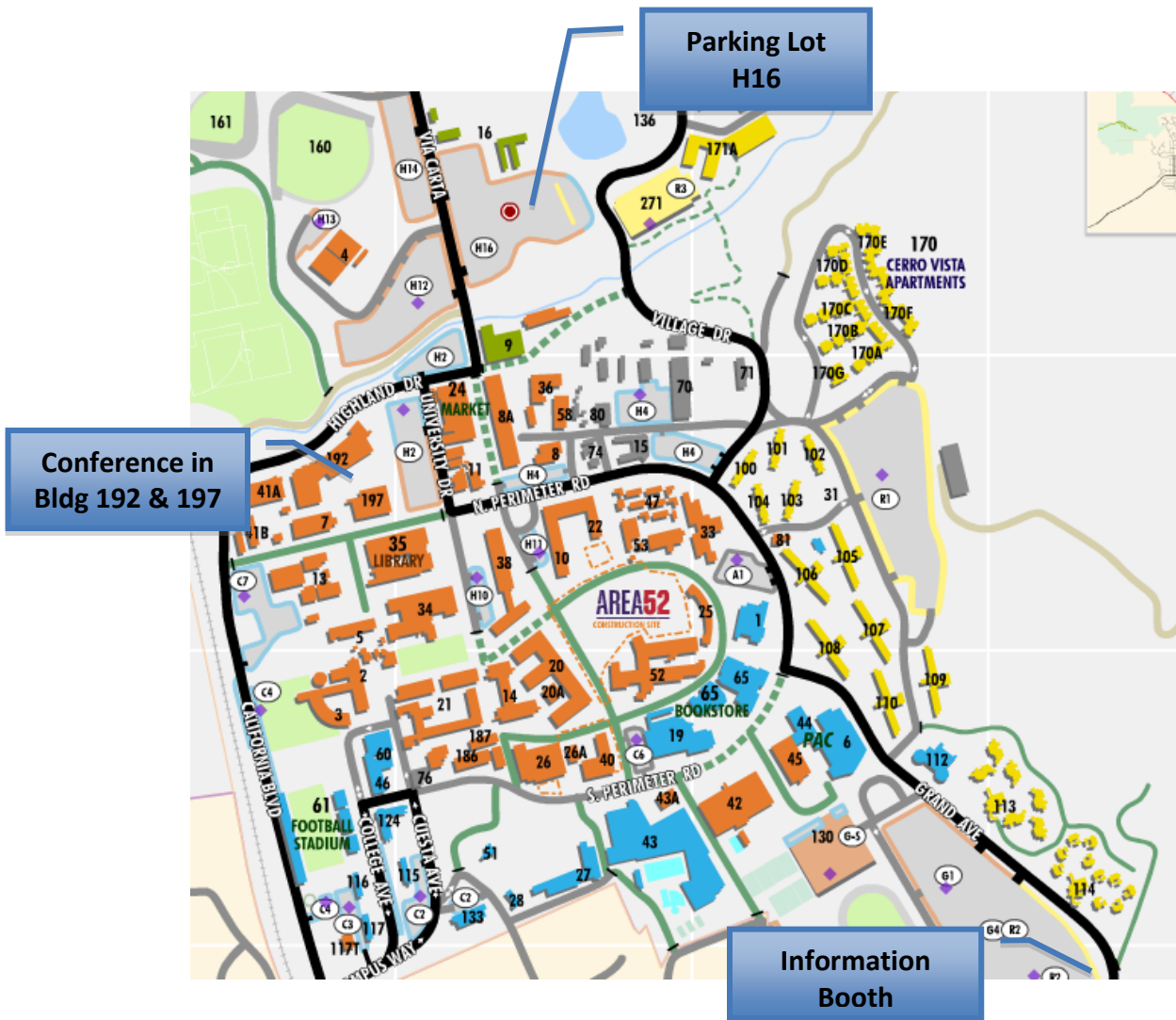
### Saturday, April 21<sup>st</sup>, 2012

- **9am – 1pm** Technical Sessions
- **1pm – 2pm** Closing Remarks
- **2pm – 4pm** ASEE PSW Executive Board Business Meeting
- **2pm – 4pm** Lab Tours

## Maps & Directions

### Cal Poly Information Booth to Parking Lot (H16):

1. Head north on Grand Ave toward Deer Rd (0.4 mi)
2. Turn right onto S. Perimeter Rd (0.4 mi)
3. Turn right onto University Dr (0.1 mi)
4. Turn right onto Highland Dr (266 ft)
5. Take the 1<sup>st</sup> left onto Via Carta (456 ft)
6. Cross the bridge, lot **H16** is your first right

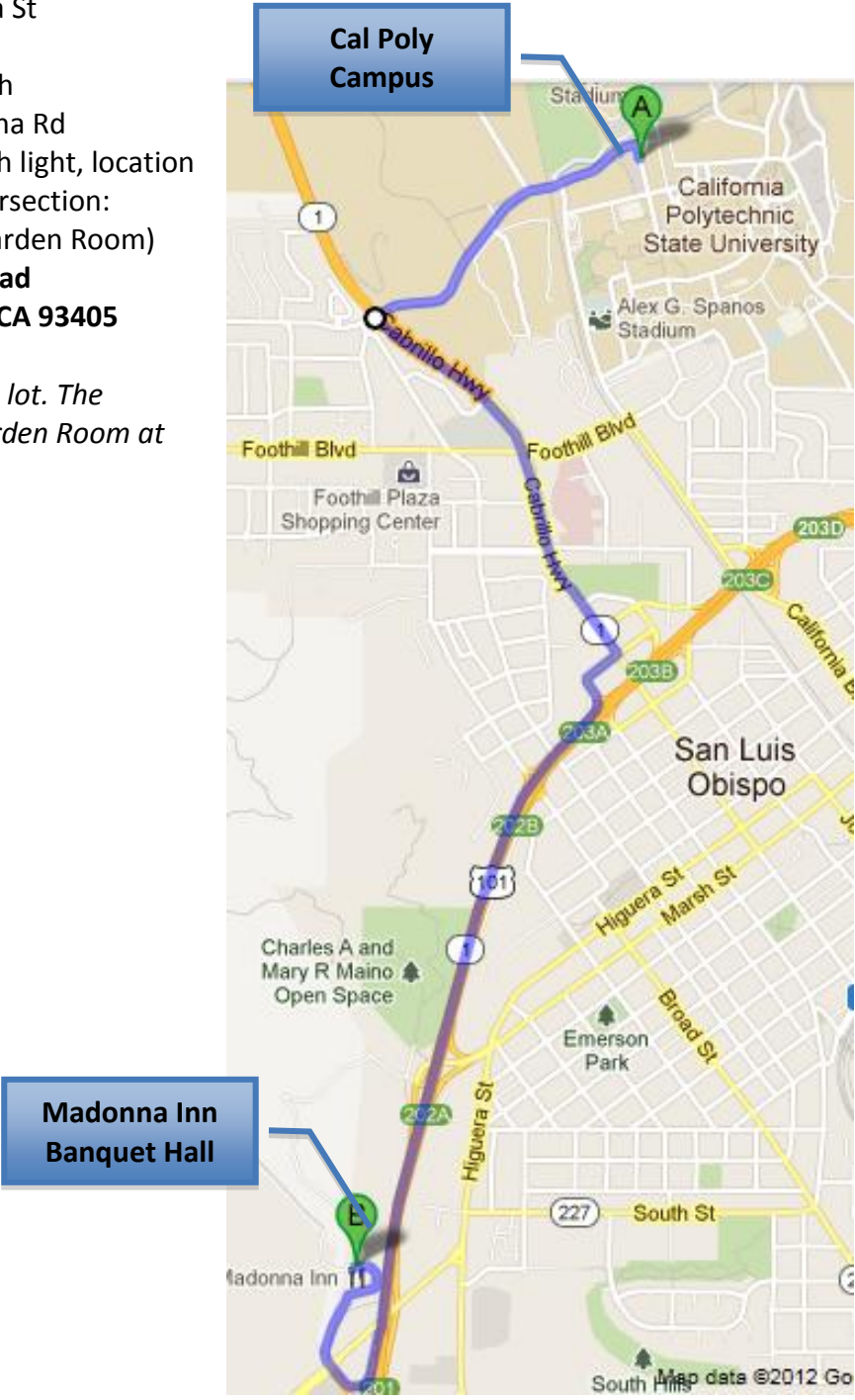


**Cal Poly Campus to Madonna Inn Banquet:**

1. From University Dr, head north on University Dr toward Highland Dr
2. Turn Left onto Highland Dr
3. Turn left onto Santa Rosa St
4. Turn right onto Olive St
5. Merge onto US-101 South
6. Take Exit 201 for Madonna Rd
7. Continue straight through light, location is directly across the intersection:

**Madonna Inn (Garden Room)  
100 Madonna Road  
San Luis Obispo, CA 93405**

*\*Park anywhere in the parking lot. The banquet will be held in the Garden Room at the Madonna Inn.*





**American Society for Engineering Education**  
 Pacific Southwest Section - 2012 Conference  
 April 19-21<sup>st</sup>, 2012  
 California Polytechnic State University, San Luis Obispo, CA



**Conference Program**

Registration Opens at 7:30 am in the lobby of Bld. 192

**Thursday April 19<sup>th</sup>: Workshops**

*(Workshops are free to those registered for the conference)*

**Concurrent Workshop Presentations**

	Room 192-131	Room 192-329	
8:00 – 12:00	<ul style="list-style-type: none"> <li>▪ <b>1A.</b> Fred DePiero, <i>Sustainable and Effective Practices for ABET Assessment</i></li> <li>▪ <b>2A.</b> Kate Disney, <i>Facilitating the Transfer of Community College Engineering Students through Model Transfer Curricula</i></li> </ul>	<ul style="list-style-type: none"> <li>▪ <b>1B.</b> Dave Alpert, <i>SolidWorks Hands-On: 3D Design, Documentation, Simulation, and Sustainability</i></li> <li>▪ <b>2B.</b> Dave Alpert, <i>SolidWorks Hands-On: 3D Design, Documentation, Simulation, and Sustainability</i></li> </ul>	
12:00 – 1:00	Lunch		192-220
	Room 192-131	Room 41-106	
1:00 – 5:00	<ul style="list-style-type: none"> <li>▪ <b>3A.</b> Eniko Enikov &amp; Estelle Eke, <i>Personalized Experimentation in Classical Controls with Matlab Real-Time Windows Target and Portable Aeropendulum Kit</i></li> </ul>	<ul style="list-style-type: none"> <li>▪ <b>3B.</b> Martin Koch, <i>From Art to Part: Rapid Part Realization from CAD to CNC Machining to Cast Metal, Plastic or Chocolate</i></li> </ul>	
	Room 192-131	Room 192-329	
	<ul style="list-style-type: none"> <li>▪ <b>4A.</b> Odesma Dalrymple, Maria Diaz, Jay Fernandez &amp; Shawn Jordan, <i>Teaching Engineering Design to Middle and High School Students using Rube Goldbergengineering</i></li> </ul>	<ul style="list-style-type: none"> <li>▪ <b>4B.</b> Gary Cruz &amp; Lupe Munoz-Alvarado, <i>Breaking New Ground From The STEM-Up</i></li> </ul>	
5:00 – 6:00	Break		
6:00 – 8:00	Welcome Reception and Registration		Bonderson 197-104

**Additional Notes:**

- Workshops have limited capacity (approximately 24 per workshop)
- To attend a workshop, register online or when you arrive at the conference

**Friday April 20<sup>th</sup>: Technical Sessions**

Registration Opens at 7:30 am in the lobby of Bld. 192

8:00 – 9:00

**5A. Breakfast & Opening Remarks**

- Welcome Address: Dr. Debra Larson, *College of Engineering Dean*
- Address by ASEE Zone IV Chair: Marilyn Dyrud, *Professor Oregon Institute of Technology, "Year of Dialogue"*.

Bonderson  
197-104

**Concurrent Technical Sessions**

9:00 – 10:30

192-131	192-221	192-329
<p><b>6A. Collaboration Through Team Teaching</b></p> <ul style="list-style-type: none"> <li>▪ James Helbling &amp; Angela Beck, <i>Evolution and Evaluation of Team Teaching in Senior Capstone Courses Through Curricular Change and Alumni Feedback</i></li> <li>▪ Seema Shah-Fairbank &amp; Kenneth Lamb, <i>Addressing Student Dissatisfaction through Group Advising</i></li> <li>▪ Manoochehr Zoghi, <i>Collaborative Learning Opportunities via Forensic Engineering and Case Studies in Construction Failure</i></li> </ul>	<p><b>6B. Technology in the Classroom</b></p> <ul style="list-style-type: none"> <li>▪ Eric Lara &amp; Victor Okhuysen, <i>Improving a traditional Engineering Lab Through Conversion Into a Hybrid Course</i></li> <li>▪ Gustavo Menzes, <i>Assessing The Use of a Web-Based Interactive Response System in Engineering Courses at CSULA</i></li> <li>▪ Vladimir Prodanov, <i>In-Class Lecture Recording: What Lecture Capture has to Offer to the Instructor</i></li> </ul>	<p><b>6C. Project Innovation</b></p> <ul style="list-style-type: none"> <li>▪ Eric Gustafson &amp; Phillip Nico, <i>Towards Robust Programming for the Masses</i></li> <li>▪ Kiran George, <i>Integration of Low-cost Classroom Technologies into Engineering Classrooms</i></li> <li>▪ Hao Jiang, David Carrillo, Andrew Preciado, Esther Chan, Enrique Raygozo, Di Lan, Amelito Enriquez, Cheng Chen, Hamid Mahmoodi, Wenshen Pong, Hamid Shahnasser, <i>Engaging Underrepresented Community College Students in Interdisciplinary Learning and Research</i></li> </ul>

10:30 – 11:00

- Break & Snacks
- Expo Opens (*will remain open until 4pm*)

192-220

**Concurrent Session Presentations**

11:00 – 12:30

192-131	192-221	192-329
<p><b>7A. STEM Education &amp; Retention</b></p> <ul style="list-style-type: none"> <li>▪ Kiran George, <i>A STEM Scholarship Program Model to Reverse High School Student Attrition</i></li> <li>▪ Kamyar Khashayar, <i>Creating Models in Pathways to Engineering Education</i></li> <li>▪ John Tester &amp; Rand Decker, <i>A Collaborative Examination of Engineering Education and STEM Issues by the Engineering Schools of the West Initiative (ESWI)</i></li> </ul>	<p><b>7B. Technology and Students</b></p> <ul style="list-style-type: none"> <li>▪ Amelito Enriquez, <i>Strengthening the Community College Engineering Pipeline Using Tablet PCs and Online Instruction</i></li> <li>▪ Jay Fernandez, Maria Diaz, Odesma Dalrymple and Shawn Jordan, <i>Swapping Designs between Geographically-distributed Engineering Design Teams: A Mechanism for Facilitating Critical Thinking</i></li> <li>▪ Manoochehr Zoghi, Allen McGrew, Ming Xiao, <i>Seamless Integrations of the Undergraduate Engineering Geology and Geotechnical Engineering Courses</i></li> </ul>	<p><b>7C. Class Design Innovation</b></p> <ul style="list-style-type: none"> <li>▪ Paul Flikkema, <i>Approaching the Design of Complex Engineering Systems: A Model-Based Approach Informed by Systems Thinking</i></li> <li>▪ Thomas Korman, <i>Design and Implementation of Experiential Learning Exercises for Commercial Building Construction Education</i></li> <li>▪ Matthew Salveson &amp; Ed Dammel, <i>Focused Technical Design and Global Project Planning in a Capstone Engineering project</i></li> </ul>

12:30 – 2:00

<b>Lunch &amp; Poster Session</b>		<b>192-220</b>
<b>8A. Poster Session</b>		
<ul style="list-style-type: none"> <li>▪ Robert Rumer, <i>Enhancing Introduction to Engineering with 3D Printing</i></li> <li>▪ Jose Carillo, <i>Summer Research Internship on Embedded Systems for Community College Students</i></li> <li>▪ Esther Chan, David Carillo, Andrew Preciado, &amp; Enrique Raygoza, <i>Developing a Temperature and Pressure Datalogger for Biomedical Applications</i></li> <li>▪ John Oliver, <i>Using Sifteos in the Classroom</i></li> <li>▪ John Louie Paulino, <i>Professional and Academic Enrichment Through NASA CIPAIR Internship</i></li> </ul>	<ul style="list-style-type: none"> <li>▪ Roger Lo, Aaron M. Joffe, Thuyoanh Truong, &amp; Oanh H. Dinh, <i>Microfluidics @ The Beach: An Inexpensive Imaging System for Microfluidics Labs</i></li> <li>▪ Bob Rumer, <i>Active Learning in Digital Design</i></li> </ul>	

2:00 – 3:00

**Concurrent Session Presentations**

192-131	192-221	192-329
<p><b>9A. Development At Community Colleges</b></p> <ul style="list-style-type: none"> <li>▪ Cheng Chen, Andrew Chan, John Louie Paulino, Moises Quiroz, Jose Valdovinos, Qiming Zeng, Amelito G. Enriquez, Hao Jiang, Hamid Mahmoodi, Wenshen Pong, &amp; Hamid Shanasser, <i>Professional Development for Community College Students Through Design and Seismic Evaluation of Three-Story Moment Resisting Frame</i></li> <li>▪ Nilgun Ozer, Amelito G. Enriquez, Wenshen Pong, <i>Fostering Participation and Achievement Among Educationally Disadvantaged Students in Engineering</i></li> </ul>	<p><b>9B. Technology and Distance</b></p> <ul style="list-style-type: none"> <li>▪ Richard Jones, Steve Hsiung, &amp; Reza Raeisi, <i>Introduction to a Microcontroller Training Platform for Distance Education &amp; Project Implementation</i></li> <li>▪ Kenneth Santarelli, <i>Utilizing a Unique Academic orientation for Satellite Campus Students to Improve Student Efficiency</i></li> </ul>	<p><b>9C. Sustaining Innovation</b></p> <ul style="list-style-type: none"> <li>▪ David Braun, <i>Teaching Sustainability Analysis in Electrical and Computer Engineering Courses</i></li> <li>▪ Lizabeth Schlemer, <i>SUSTAIN SLO: A New Learn by Doing</i></li> </ul>

3:00 – 3:30

<ul style="list-style-type: none"> <li>▪ Break &amp; Snacks</li> <li>▪ Expo Open (<i>will remain open until 4pm</i>)</li> </ul>	<b>192-220</b>
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### Concurrent Session Presentations

	192-131	192-221	192-329
3:30 – 5:00	<p><b>10A. Student Engagement</b></p> <ul style="list-style-type: none"> <li>▪ Daniel T. Flynn, <i>Baccalaureate Attainment as a Function of Student Engagement: Comparing the Impact of Engagement on Engineering / ICS Degree Attainment to Other majors at 4-Year Institutions</i></li> <li>▪ Jane Lehr, Helene Finger, &amp; Beverly Kwang, <i>When, Why, How, Who – Lessons from First Year Female Engineering Students at Cal Poly for Efforts to Increase Recruitment</i></li> </ul>	<p><b>10B. Technology Integrated Styles</b></p> <ul style="list-style-type: none"> <li>▪ Dale Dolan &amp; Taufik, <i>Use of Online Review to Increase Student Performance on Online and In-Class Evaluations in Power Electronics</i></li> <li>▪ Daniel Waldorf, <i>iLearnIt: An On-Line Wiki for Equipment Maintenance and Laboratory Instruction in Engineering Education</i></li> <li>▪ Nancy Warter-Perez &amp; Jianyu Dong, <i>Flipping the Classroom: How to Embed Inquiry and Design Projects into a Digital Engineering Lecture</i></li> </ul>	<p><b>10C. Energy Conversion, Innovation and Intellectual Property</b></p> <ul style="list-style-type: none"> <li>▪ Matthew DeVost, Daniel Forgette, Ryan Okerson, Trent Wells, &amp; Kevin Anderson, <i>Butte Industries, Inc./Cal Poly Pomona Waste-to-Renewable Energy Entrepreneurial Project</i></li> <li>▪ Bruno Osorno, <i>Project and Simulation Oriented Electrical Machines and Energy Conversion Course at CSUN</i></li> <li>▪ Robert Kuntz, <i>Engineering Schools Can Help Rescue Our Intellectual Capital</i></li> </ul>

5:00 – 6:00	Break
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6:00 – 9:00	<p><b>11A. 2012 ASEE PSW Section Banquet &amp; Awards Ceremony</b></p> <ul style="list-style-type: none"> <li>▪ Keynote speaker: Beth Anderson, Vice President Supplier Management, <i>The Boeing Company</i></li> <li>▪ Awards:             <ul style="list-style-type: none"> <li>○ <b>ASEE PSW Outstanding Teaching Award</b> <i>Professor Taufik, Electrical Engineering Professor at Cal Poly San Luis Obispo</i></li> <li>○ <b>ASEE PSW Outstanding Community College Educator Award</b> <i>Professor Dominic J. Dal Bello, Allan Hancock College</i></li> <li>○ <b>ASEE PSW Best Paper</b> <i>2012 Conference, TBA</i></li> <li>○ <b>ASEE PSW Outstanding Student of the year Award</b> <i>Andrea Ferris, Mechanical Engineering Student at Cal Poly Pomona</i></li> </ul> </li> </ul>
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Madonna Inn  
(Garden Room)

**Saturday, April 21<sup>st</sup> Technical Sessions**

8:00 – 9:00

**12A. Continental Breakfast**

- Keynote Speaker: Dr. Clive Dym, *Professor Harvey Mudd College, Co-Recipient of the 2012 NAE Bernard M. Gordon Prize for “Innovation in Engineering and Technology Education”*.

ATL

**Concurrent Session Presentations**

9:15 – 11:15

192-131	192-221	192-329
<p><b>13A. K-12 Engagement in Engineering</b></p> <ul style="list-style-type: none"> <li>▪ Gypsy Denzine, <i>Trends in K-12 Education: Implications for the Future of Engineering Education</i></li> <li>▪ Gregg L. Fiegel &amp; Daniel C. Jansen, <i>Look Ma, Concrete Hands!</i></li> <li>▪ Mariappan Jawaharial, Bettina Casad, Tanya Faltens, Winny Dong &amp; Victor Okhuysen, <i>Robotics Education through Active Learning (REAL) - An effective engineering service learning initiative to inspire K-12 students and training teachers</i></li> <li>▪ David Porush, <i>Mentoring and Recruitment Millennials Minorities in Engineering</i></li> </ul>	<p><b>13B. Standards in Grading</b></p> <ul style="list-style-type: none"> <li>▪ Dianne DeTurris, <i>Assessment Rubric for Global Competency in Engineering Education</i></li> <li>▪ Matthew Siniawski, Adam Carberry &amp; John Dionisio, <i>Standards-based Grading: An Alternative to Score-based Assessment</i></li> <li>▪ George Youssef &amp; Robert Ryan, <i>Relationship Between Exam Format and Learning Effectiveness</i></li> <li>▪ Xi Wu, <i>Incorporation of Research and Modern Tools in Upper Division Technical Elective</i></li> </ul>	<p><b>13C. Integration and Student Success</b></p> <ul style="list-style-type: none"> <li>▪ Lizabeth Schlemer, Sema Alptekin &amp; Karen Bangs, <i>Integrating Courses Through Project Based Learning</i></li> <li>▪ Ketaki Andhare, Odesma Dalrymple &amp; Srividya Bansal, <i>Learning Objectives Feature for the Instructional Module Design System</i></li> <li>▪ M. Sanchez, M. Zoghi, and W. Mizuno, <i>Mechanical Engineering Undergraduate Curricula Revisions in Accordance with the CDIO Initiative</i></li> </ul>

11:15 – 11:30

**Break & Snacks**

192-220

## Concurrent Session Presentations

	192-131	192-221	192-329
11:30 – 1:00	<b>14A. Project Learning</b> <ul style="list-style-type: none"> <li>▪ Lily Gossage, Panadda Marayong &amp; Hemalatha Ramachandran, <i>On Using ASEE PRISM Articles in Blending Information Literacy Skills &amp; Project-Based Learning in a Freshman Engineering Course Model</i></li> <li>▪ Jane Lehr, <i>The International Computer Engineering Experience Program at Cal Poly: Global Engineering Education in an Interdisciplinary “Learn by Doing” Context</i></li> </ul>	<b>14B. Establishing New Standards Through Learning</b> <ul style="list-style-type: none"> <li>▪ Trent Wells, Matthew DeVost &amp; Kevin Anderson, <i>Using OPTO22 PAC Learning System in the Mechanical Engineering Design of Machine Controls Lab</i></li> <li>▪ Manoochehr Zoghi, L. Crask, B. Hyatt &amp; Y. Luo, <i>Curriculum Innovation with Leadership Opportunities to Engage Students at All Levels</i></li> </ul>	<b>14C. Industry Interaction</b> <ul style="list-style-type: none"> <li>▪ Kurt Colvin, <i>Virtual Presentations in Pursuit of Industry Academia Interaction</i></li> <li>▪ Amelito Enriquez, <i>Engaging Underrepresented Community College Engineering Students Through the Integration of Research in Curricular Improvements</i></li> <li>▪ Jose Macedo, <i>A Model to Offer Courses Led by Industry Advisory Boards</i></li> </ul>
1:00 – 2:00	<b>Lunch &amp; Closing Remarks</b> <ul style="list-style-type: none"> <li>▪ Dr. Jose Macedo, <i>Conference Chair &amp; Industrial and Manufacturing Engineering Department Chair</i></li> </ul>		192-220
1:00 – 4:00	<b>15A. ASEE PSW Executive Board Business Meeting</b> <ul style="list-style-type: none"> <li>▪ Eric Wang, Chair</li> <li>▪ Open to all ASEE Members</li> </ul>		Bonderson 197-204
2:00 – 4:00	<b>Optional Tours of Cal Poly Engineering Labs &amp; Facilities</b> <b>Labs Available for Tours:</b> <ul style="list-style-type: none"> <li>▪ Aerospace (AERO)</li> <li>▪ Electrical (EE)</li> <li>▪ Industrial/Manufacturing (IME)</li> <li>▪ Materials (MATE)</li> <li>▪ Mechanical (ME)</li> </ul>		

**Additional Notes:**

- ATL: Advanced Technology Laboratories
- Tours have limited capacity
- Tour registration will be available when you arrive to the conference

## Conference Vendors & Exhibitors

Below is a list of the ASEE PSW 2012 Vendors and Exhibitors.  
*The EXPO will be held in bldg. 192-220 from 10:30am – 4pm on Friday, April 20<sup>th</sup>*



**goEngineer**



**Lab  
Corporation**



**McGraw Hill**



**Pasco Scientific**



**Pearson**



**EXPO will be held in  
Bldg 192, Room 220**

## ASEE PSW Executive Board

Position	Name	University/Company
<b>Chair</b>	Eric Wang	University of Nevada Reno
<b>Past Chair</b>	Jose Macedo	Cal Poly San Luis Obispo
<b>Chair Elect</b>	Amelito Enriquez	Cañada College, Redwood City, CA
<b>VC Faculty Awards</b>	Stacey Breitenbach	Cal Poly San Luis Obispo
<b>VC Student Awards</b>	John Tester	Northern Arizona University
<b>VC New Faculty</b>	David Lanning	Embry-Riddle Aeronautical University, Prescott, AZ
<b>VC Membership</b>	Lizabeth Schlemer	Cal Poly San Luis Obispo
<b>VC Community Colleges</b>	Amelito Enriquez	Cañada College, Redwood City, CA
<b>Treasurer</b>	Allen Plotkin	San Diego State University
<b>Executive Secretary</b>	J. Richard Phillips	Harvey Mudd College, Claremont, CA
<b>Director</b>	Reza Raeisi	California State University Fresno
<b>Director</b>	Walt Loscutoff	California State University Fresno
<b>Director</b>	Reza Abbaschian	University of California Riverside
<b>Director</b>	Thomas Impelluso	San Diego State University
<b>Director</b>	Jesa Kreiner	California State University Fullerton
<b>Director</b>	Amir Rezaei	California State University Pomona
<b>Director</b>	Elizabeth J. Orwin	Harvey Mudd College, Claremont, CA
<b>Director/Webmaster</b>	Sima Parisay	California State University Pomona
<b>Relations w/Industry South</b>	Sean Gallagher	UVP LLC, Upland, CA
<b>Relations w/Industry East</b>	Emmanuel (Manno) Siméus	Raytheon
<b>Relations w/Industry North</b>	Jim Vanides	Hewlett Packard, Palo Alto, CA

## Conference Committee and Reviewers

Name	Discipline	Institution/Affiliation	Involvement
<b>Amelito Enriquez</b>	Eng & Math	Cañada College	Committee & Reviewer
<b>Amir Rezaei</b>	ME	Cal Poly Pomona	Committee & Reviewer
<b>Brian Self</b>	ME	Cal Poly, San Luis Obispo	Committee & Reviewer
<b>Bruno Osorno</b>	EE & CPE	Cal State University, Northridge	Reviewer
<b>Dale Dolan</b>	EE	Cal Poly, San Luis Obispo	Reviewer
<b>David Braun</b>	EE	Cal Poly, San Luis Obispo	Reviewer
<b>David Porush</b>		MentorNet	Reviewer
<b>Elizabeth Schlemer</b>	IME	Cal Poly, San Luis Obispo	Committee & Reviewer
<b>Eric L. Wang</b>	ME	University of Nevada, Reno	Committee & Reviewer
<b>Gary Cruz</b>		Great Minds In Stem	Reviewer
<b>Greg Fiegel</b>	CE	Cal Poly, San Luis Obispo	Committee & Reviewer
<b>John Oliver</b>	CPE	Cal Poly, San Luis Obispo	Reviewer
<b>John Tester</b>	ME	Northern Arizona University	Reviewer
<b>Jose Macedo</b>	IME	Cal Poly, San Luis Obispo	Committee & Reviewer
<b>Kamyar Khashayar</b>	Eng & Tech	East Los Angeles College	Reviewer
<b>Karen Bangs</b>	IME	Cal Poly, San Luis Obispo	Committee & Reviewer
<b>Kevin Anderson</b>	ME	Cal Poly, Pomona	Reviewer
<b>Lizabeth Schlemer</b>	IME	Cal Poly, San Luis Obispo	Committee
<b>Lynne Slivovsky</b>	EE	Cal Poly, San Luis Obispo	Committee & Reviewer
<b>Mariappan Jawaharlal</b>	ME	Cal Poly, Pomona	Reviewer
<b>Mohammad Amin</b>	EE	National University	Committee & Reviewer
<b>Odesma Dalrymple</b>	Tech & Innovation	Arizona State University	Reviewer
<b>Paul Flikkema</b>	EE & CSC	Northern Arizona University	Reviewer
<b>Reza Raeisi</b>	CPE	Cal State University, Fresno	Committee & Reviewer
<b>Richard Jones</b>	Eng & Techn	Old Dominion University	Reviewer
<b>Sergio Mendez</b>	CHEME	Cal State University, Long Beach	Reviewer
<b>Shannon Ciston</b>	CHEME	University of California Berkeley	Committee & Reviewer
<b>Stacey Brietenbach</b>	Assistant Dean Engineering	Cal Poly, San Luis Obispo	Committee
<b>Trevor Harding</b>	MATE	Cal Poly, San Luis Obispo	Committee & Reviewer
<b>Vladimir Prodanov</b>	EE	Cal Poly, San Luis Obispo	Committee & Reviewer
<b>Walter Loscutoff</b>	ME	Cal State University, Fresno	Committee & Reviewer
<b>Xi Wu</b>	ME	Cal Poly, San Luis Obispo	Reviewer

## Conference Index/ List of Authors & Presenters

Last Name	First Name	University or Institution	TimeSlot	Day
<b>Alpert</b>	Dave	goEngineer	2B	Thursday
<b>Alpert</b>	Dave	goEngineer	1B	Thursday
<b>Alptekin</b>	Sema	Cal Poly SLO	13C	Saturday
<b>Anderson</b>	Beth	Boeing	11A	Friday
<b>Anderson</b>	Kevin	Cal Poly Pomona	10C	Friday
<b>Anderson</b>	Kevin	Cal Poly Pomona	14B	Saturday
<b>Andhare</b>	Ketaki	Arizona State University	13C	Saturday
<b>Bangs</b>	Karen	Cal Poly SLO	13C	Saturday
<b>Bansal</b>	Srividya	Arizona State University	13C	Saturday
<b>Beck</b>	Angela	Embry-Riddle Aeronautical University	6A	Friday
<b>Braun</b>	David	Cal Poly SLO	9C	Friday
<b>Carberry</b>	Adam	Loyola Marymount University	13B	Saturday
<b>Carillo</b>	David	Cañada College	8A	Friday
<b>Carillo</b>	Jose	Cañada College	8A	Friday
<b>Carillo</b>	David	Cañada College	6C	Friday
<b>Casad</b>	Bettina	Cal Poly Pomona	13A	Saturday
<b>Chan</b>	Esther	Cañada College	6C	Friday
<b>Chan</b>	Esther	Cañada College	8A	Friday
<b>Chan</b>	Andrew	San Francisco State University	9A	Friday
<b>Chen</b>	Cheng	San Francisco State University	9A	Friday
<b>Chen</b>	Cheng	San Francisco State University	6C	Friday
<b>Colvin</b>	Kurt	Cal Poly SLO	14C	Saturday
<b>Crask</b>	L.	California State University, Fresno	14B	Saturday
<b>Cruz</b>	Gary	Great Minds in STEM	4B	Thursday
<b>Dalrymple</b>	Odesma	Arizona State University	7B	Friday
<b>Dalrymple</b>	Odesma	Arizona State University	4A	Thursday
<b>Dalrymple</b>	Odesma	Arizona State University	13C	Saturday
<b>Dammell</b>	Ed	California State University, Sacramento	7C	Friday
<b>Decker</b>	Rand	Northern Arizona University	7A	Friday
<b>Denzine</b>	Gypsy	Northern Arizona University	13A	Saturday
<b>DePiero</b>	Fred	Cal Poly SLO	1A	Thursday
<b>DeTurris</b>	Dianne	Cal Poly SLO	13B	Saturday
<b>DeVost</b>	Matthew	Cal Poly Pomona	14B	Saturday
<b>DeVost</b>	Matthew	Cal Poly Pomona	10C	Friday
<b>Diaz</b>	Maria	Arizona State University	7B	Friday
<b>Dinh</b>	Oanh H.	California State University, Long Beach	8A	Friday
<b>Dionisio</b>	John	Loyola Marymount University	13B	Saturday
<b>Disney</b>	Kate	Cañada College	2A	Thursday
<b>Dolan</b>	Dale	Cal Poly SLO	10B	Friday
<b>Dong</b>	Jianyu	California State University, LA	10B	Friday
<b>Dong</b>	Winny	Cal Poly Pomona	13A	Saturday
<b>Dym</b>	Clive	Harvey Mudd	12A	Saturday
<b>Dyrud</b>	Marilyn	ASEE Zone IV Chair	5A	Friday
<b>Eke</b>	Estelle	University of Arizona	3A	Thursday
<b>Enikov</b>	Eniko	University of Arizona	3A	Thursday

<b>Enriquez</b>	Amelito	Cañada College	14C	Saturday
<b>Enriquez</b>	Amelito	Cañada College	9A	Friday
<b>Enriquez</b>	Amelito	Cañada College	7B	Friday
<b>Enriquez</b>	Amelito	Cañada College	9A	Friday
<b>Enriquez</b>	Amelito	Cañada College	6C	Friday
<b>Faltens</b>	Tanya	Cal Poly Pomona	13A	Saturday
<b>Fernandez</b>	Jay	Arizona State University Polytechnic	7B	Friday
<b>Fiegel</b>	Gregg	Cal Poly SLO	13A	Saturday
<b>Finger</b>	Helene	Cal Poly SLO	10A	Friday
<b>Flikkema</b>	Paul	Northern Arizona University	7C	Friday
<b>Flynn</b>	David T.	University of California, Irvine	10A	Friday
<b>Forgette</b>	Daniel	Cal Poly Pomona	10C	Friday
<b>George</b>	Kiran	California State University, Fullerton	6C	Friday
<b>George</b>	Kiran	California State University, Fullerton	7A	Friday
<b>Gossage</b>	Lily	California State University, Long Beach	14A	Saturday
<b>Gustafson</b>	Eric	Cal Poly SLO	6C	Friday
<b>Helbling</b>	James	Embry-Riddle Aeronautical University	6A	Friday
<b>Hsiung</b>	Steve	Old Dominion University, Norfolk Va.	9B	Friday
<b>Hyatt</b>	B.	California State University, Fresno	14B	Saturday
<b>Jansen</b>	Daniel C.	Cal Poly SLO	13A	Saturday
<b>Jawaharial</b>	Mariappan	Cal Poly Pomona	13A	Saturday
<b>Jiang</b>	Hao	San Francisco State University	6C	Friday
<b>Jiang</b>	Hao	San Francisco State University	9A	Friday
<b>Joffe</b>	Aaron M.	California State University, Long Beach	8A	Friday
<b>Jones</b>	Richard	Old Dominion University, Norfolk Va.	9B	Friday
<b>Jordan</b>	Shawn	Arizona State University	7B	Friday
<b>Khashayar</b>	Kamyar	East LA College	7A	Friday
<b>Koch</b>	Martin	Cal Poly SLO	3B	Thursday
<b>Korman</b>	Thomas	Cal Poly SLO	7C	Friday
<b>Kuntz</b>	Robert	California Engineering Foundation	10C	Friday
<b>Kwang</b>	Beverly	Cal Poly SLO	10A	Friday
<b>Lamb</b>	Kenneth	Cal Poly Pomona	6A	Friday
<b>Lan</b>	Di	Cañada College	6C	Friday
<b>Lara</b>	Eric	University of California, San Diego	6B	Friday
<b>Larson</b>	Debra	Cal Poly SLO	5A	Friday
<b>Lehr</b>	Jane	Cal Poly SLO	14A	Saturday
<b>Lehr</b>	Jane	Cal Poly SLO	10A	Friday
<b>Lo</b>	Roger	California State University, Long Beach	8A	Friday
<b>Luo</b>	Y.	California State University, Fresno	14B	Saturday
<b>Macedo</b>	Jose	Cal Poly SLO	14C	Saturday
<b>Mahmoodi</b>	Hamid	Cañada College	6C	Friday
<b>Mahmoodi</b>	Hamid	Cañada College	9A	Friday
<b>Marayong</b>	Panadda	California State University, Long Beach	14A	Saturday
<b>McGrew</b>	Allen	California State University, Fresno	7B	Friday
<b>Menezes</b>	Gustavo	California State University, LA	6B	Friday
<b>Munoz-Alvarado</b>	Lupe	Great Minds in STEM	4B	Thursday
<b>Nico</b>	Phillip	Cal Poly SLO	6C	Friday
<b>Okerson</b>	Ryan	Cal Poly Pomona	10C	Friday



<b>Okhuysen</b>	Victor	University of California, San Diego	13A	Saturday
<b>Okhuysen</b>	Victor	University of California, San Diego	6B	Friday
<b>Oliver</b>	John	Cal Poly SLO	8A	Friday
<b>Osorno</b>	Bruno	California State University, Northridge	10C	Friday
<b>Ozer</b>	Nilgun	San Francisco State University	9A	Friday
<b>Paulino</b>	John Louie	Cañada College	9A	Friday
<b>Paulino</b>	John Louie	Cañada College	8A	Friday
<b>Pong</b>	Wenshen	Cañada College	9A	Friday
<b>Pong</b>	Wenshen	Cañada College	6C	Friday
<b>Pong</b>	Wenshen	Cañada College	9A	Friday
<b>Porush</b>	David	MentorNet	13A	Saturday
<b>Preciado</b>	Andrew	Cañada College	8A	Friday
<b>Preciado</b>	Andrew	Cañada College	6C	Friday
<b>Prodanov</b>	Vladimir	Cal Poly SLO	6B	Friday
<b>Quiroz</b>	Moises	San Francisco State University	9A	Friday
<b>Raeisi</b>	Reza	Old Dominion University, Norfolk Va.	9B	Friday
<b>Ramachandran</b>	Hemalatha	California State University, Long Beach	14A	Saturday
<b>Raygoza</b>	Enrique	Cañada College	8A	Friday
<b>Raygoza</b>	Enrique	Cañada College	6C	Friday
<b>Rumer</b>	Robert	California Lutheran University	8A	Friday
<b>Rumer</b>	Robert	California Lutheran University	8A	Friday
<b>Ryan</b>	Robert	California State University, Northridge	13B	Saturday
<b>Salveson</b>	Matthew	California State University, Sacramento	7C	Friday
<b>Santarelli</b>	Kenneth	California State University, Long Beach	9B	Friday
<b>Schlemer</b>	Lizabeth	Cal Poly SLO	13C	Saturday
<b>Schlemer</b>	Lizabeth	Cal Poly SLO	9C	Friday
<b>Shah-Fairbank</b>	Seema	Cal Poly Pomona	6A	Friday
<b>Shahnasser</b>	Hamid	Cañada College	6C	Friday
<b>Shahnasser</b>	Hamid	Cañada College	9A	Friday
<b>Siniawski</b>	Matthew	Loyola Marymount University	13B	Saturday
<b>Taufik</b>		Cal Poly SLO	10B	Friday
<b>Tester</b>	John	Northern Arizona University	7A	Friday
<b>Truong</b>	Thuyoanh	California State University, Long Beach	8A	Friday
<b>Valdovinos</b>	Jose	San Francisco State University	9A	Friday
<b>Waldorf</b>	Daniel	Cal Poly SLO	10B	Friday
<b>Wang</b>	Eric	University of Nevada, Reno	15A	Saturday
<b>Warter-Perez</b>	Nancy	California State University, LA	10B	Friday
<b>Wells</b>	Trent	Cal Poly Pomona	10C	Friday
<b>Wells</b>	Trent	Cal Poly Pomona	14B	Saturday
<b>Wu</b>	Xi	Cal Poly SLO	13B	Saturday
<b>Xiao</b>	Ming	California State University, Fresno	7B	Friday
<b>Youssef</b>	George	California State University, Northridge	13B	Saturday
<b>Zeng</b>	Qiming	San Francisco State University	9A	Friday
<b>Zoghi</b>	Manoochehr	California State University, Fresno	7B	Friday
<b>Zoghi</b>	Manoochehr	California State University, Fresno	13C	Saturday
<b>Zoghi</b>	Manoochehr	California State University, Fresno	6A	Friday
<b>Zoghi</b>	Manoochehr	California State University, Fresno	14B	Saturday

## Awards & Thanks

### ASEE PSW Outstanding Teaching Award

*Professor Taufik, Electrical Engineering Professor at Cal Poly San Luis Obispo*

### ASEE PSW Outstanding Community College Educator Award

*Professor Dominic J. Dal Bello, Allan Hancock College*

### ASEE PSW Best Paper

*2012 Conference, TBA*

### ASEE PSW Outstanding Student of the Year Award

*Andrea Ferris, Mechanical Engineering student at Cal Poly Pomona*

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