

**DISTRICT D**  
**2007 STUDENT PROFESSIONAL DEVELOPMENT CONFERENCE (SPDC)**  
**Host: University of Nevada, Reno, NV – March 30 – April 1, 2007**

<b>OLD GUARD ORAL PRESENTATION COMPETITION</b>			
PLACE	PRIZE	NAME / SCHOOL	PRESENTATION TITLE
FIRST	\$500*	Andrew Gustafson California State University / Chico	Rescue Line Launcher
SECOND	\$150	Leon Goss Cal Poly / San Luis Obispo	Mobile Antenna Mast
THIRD	\$100	Tyler Trumbly California State University / Chico	Automated Tomato Transplanter
FOURTH	\$50	Andrew Tranovich California Polytechnic State University / San Luis Obispo	Density Variation Behavior of Water at Near Freezing Conditions
FIFTH	\$25 (Optional) Certificate	Bryan Young University of Nevada / Reno	Designing Composite Tricycle Frames
BEST TECHNICAL	\$50	Tyler Trumbly California State University / Chico	Automated Tomato Transplanter
ALL CONTESTANTS	FIRST YEAR UPGRADE DUES PAYMENT AND CERTIFICATE OF PARTICIPATION		
*CERTIFICATE FOR WINNER AND CERTIFICATE FOR SCHOOL OF WINNER PLUS SUBSIDY TO ATTEND ASME MECHANICAL ENGINEERING CONGRESS & EXPOSITION (IMECE OR CONGRESS), NOVEMBER 4 10-17, 2007 IN SEATTLE, WASHINGTON, TO COMPETE IN THE INTERNATIONAL COMPETITION			

<b>OLD GUARD ORAL PRESENTATION COMPETITION</b>		
<b>California Polytechnic State University/San Luis Obispo</b> <b>Andrew Tranovich</b> Density Variation Behavior of Water at Near Freezing Conditions	<b>California Polytechnic State University/San Luis Obispo</b> <b>Leon Goss</b> Mobile Antenna Mast	<b>California State University/Chico</b> <b>Andrew Gustafson</b> Rescue Line Launcher
<b>California State University/Chico</b> <b>Tyler Trumbly</b> Automated Tomato Transplanter	<b>San Jose State University</b> <b>Harpreet Johal</b> Portable Power Generation System	<b>University of Nevada – Reno</b> <b>James Pettit</b> Wingman Laptop Stand
<b>University of Nevada – Reno</b> <b>Bryan Young</b> Designing Composite Tricycle Frames	<b>University of San Diego</b> <b>Colin Porterfield</b> Modeling the Shear Dependence of Blood Viscosity and its Impact on Microcirculation	

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<b>OLD GUARD TECHNICAL POSTER COMPETITION</b>			
PLACE	PRIZE	NAME / SCHOOL	POSTER TITLE
FIRST	\$200*	Patrick Landrum San Jose State University	LiteWater
ALL CONTESTANTS	FIRST YEAR UPGRADE DUES PAYMENT AND CERTIFICATE OF PARTICIPATION		
*CERTIFICATE FOR WINNER AND CERTIFICATE FOR SCHOOL OF WINNER			

<b>OLD GUARD TECHNICAL POSTER COMPETITION</b>		
<b>California Polytechnic State University/San Luis Obispo</b> <b>Dylan Ross</b> Mobile Telescoping Antenna Mast	<b>California State University/Chico</b> <b>Christopher Corder</b> Mechanical Systems of the Net-Zero-Energy Skyscraper	<b>California State University, Fresno</b> <b>Steven Cory W. Steele</b> Steam Power Plant Design
<b>San Jose State University</b> <b>Patrick Landrum</b> LiteWater	<b>University of Nevada/Reno</b> <b>Kevin Tibbs</b> 2Phase Technologies - Reconfigurable Tooling System	<b>University of San Diego</b> <b>Ian Metzger</b> Fluid Mechanics of Baseball

<b>OLD GUARD TECHNICAL WEB PAGE COMPETITION</b>			
PLACE	PRIZE	NAME / SCHOOL	WEB PAGE TITLE
FIRST	\$200*	Ivan Cho San Jose State University	Solar Powered Water Filtration and Purification System for Third World Countries
ALL CONTESTANTS	CERTIFICATE OF PARTICIPATION		
*CERTIFICATE FOR WINNER AND CERTIFICATE FOR SCHOOL OF WINNER			

<b>OLD GUARD TECHNICAL WEB PAGE COMPETITION</b>		
<b>California State University, Fresno</b> <b>Adam G. Lloyd</b> Fresno State ASME Web Page	<b>San Jose State University</b> <b>Ivan Cho</b> Solar Powered Water Filtration and Purification System for Third World Countries	<b>San Jose State University</b> <b>Panduka Marambe</b> Robots and Manufacturing

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<b>STUDENT DESIGN COMPETITION</b>			
PLACE	PRIZE	NAME	SCHOOL
FIRST	\$200* + TROPHY	Karl Schulz, Scott Waters, Nathan Labrosse, Ian Chase	Bicycle Boiler University of Nevada / Reno
SECOND	\$100 + PLAQUE	Benjamin Montgomery, Dan Schmidt, Dylan Botham	Cal Poly Steamer California Polytechnic State University / San Luis Obispo
THIRD	\$50 + PLAQUE	Ruey Hwu, Kevin Fujimoto	University of Hawaii / Minoa
ALL CONTESTANTS	CERTIFICATE OF PARTICIPATION		
*PLUS SUBSIDY TO ATTEND ASME MECHANICAL ENGINEERING CONGRESS & EXPOSITION (IMECE OR CONGRESS), NOVEMBER 10-17, 2007 IN SEATTLE, WASHINGTON, TO COMPETE IN THE INTERNATIONAL COMPETITION			

<b>STUDENT DESIGN CONTEST</b>		
<b>California Polytechnic State University/San Luis Obispo</b> <b>Cal Poly steamer</b> Benjamin Montgomery, Dan Schmidt, Dylan Botham	<b>California State University.Fresno</b> <b>The Rankine Riders</b> Matthew Condie, Leslie Perryman, John Pocock, Tavis Gordon Mason	<b>Santa Clara University</b> <b>Metallic Monster</b> Arturo Alvarez-Ramirez, Carlos Barrera, Rafael Ramirez, Oscar Lopez
<b>San Jose State University</b> <b>SPARTANious Boiler</b> Victor Wong, Kevin Booker, John Hendrickse Evgeni Marinovski	<b>University of California, Santa Barbara</b> <b>ALLEN</b> Kelly Ierson, David Grishaber, Adam Shipley, Lisa Val Verde	<b>University of California/Santa Barbara</b> <b>Steve</b> Jonathan Berger, Chance Holland, Ryan Degrazier Justin Sadler
<b>University of Hawaii Manoa</b> <b>The Scullion</b> Ruey Hwu, Kevin Fujimoto	<b>University of Nevada/Reno</b> <b>Bicycle Boiler</b> Karl Schulz, Scott Waters, Nathan Labrosse, Ian Chase	<b>University of San Diego</b> <b>COOL Water Purification System</b> Cheryn Engebrech, Ian Metzger, Matthew Petrucci, Colin Porterfield

<b>STUDENT SECTION WITH MOST STUDENTS IN ATTENDANCE</b>			
PLACE	PRIZE	NAME	SCHOOL
FIRST	\$100	N/A	CALIFORNIA STATE UNIVERSITY, FRESNO

<b>KM AWARD</b>			
PLACE	PRIZE	NAME	SCHOOL
FIRST	PLAQUE	N/A	UNIVERSITY OF CALIFORNIA, SANTA BARBARA

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<b>INGERSOLL-RAND CONTEST</b>		
PLACE	PRIZE	SCHOOL
FIRST	\$300 + Plaque	California Polytechnic State University, San Luis Obispo
SECOND	\$200 + Plaque	California State University / Chico
THIRD	\$100	California State University / Fresno

<b>MISCELLANEOUS INFORMATION</b>
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**REGISTRATION**

SCHOOLS	10	California Polytechnic State University/San Luis Obispo, California State University, Fresno, California State University/Chico, California State University/Long Beach, San Jose State University, Santa Clara University, University of California/Santa Barbara, University of Hawaii, University of Nevada/Reno, University of San Diego
STUDENTS	62	Includes 13 from Host School
SSA	5	California State University, Fresno, California State University/Chico, San Jose State University, University of California/Santa Barbara, University of San Diego, Note: UNR does not have a SSA.
OTHER (District Leader, Judges, Speakers)	16	

**TOTAL** **83**

COMPETITIONS	Schools	Entries	# Persons	
Oral	5	8	8	California Polytechnic State University/San Luis Obispo, California State University/Chico , San Jose State University , University of California/San Diego , University of Nevada/Reno
Poster	6	6	6	California Polytechnic State University/San Luis Obispo, California State University/Chico , California State University/Fresno , San Jose State University , University of Nevada/Reno , University of San Diego
Web	2	3	3	California State University/Fresno, San Jose State University
Design	8	9	33	California Polytechnic State University/San Luis Obispo, California State University/Fresno , San Jose State University , Santa Clara University , University of California/Santa Barbara, University of Hawaii, University of Nevada/Reno , University of San Diego

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## Preliminary Schedule of Events

### FRIDAY, March 30, 2007

3:00 PM - 5:30 PM	Registration and Graduate Student Poster Session
5:30 PM - 6:30 PM	Dinner and Welcome
6:30 PM - 7:00 PM	Student Design competition Set-up
7:00 PM - 8:00 PM	Peer Review and Judging
8:00 PM - 9:00 PM	Competition
9:00 PM - 9:30 PM	Judge Deliberation and Clean-up

### SATURDAY, March 31, 2007

7:00 AM - 8:00 AM	Old Guard Oral, Poster, and Web Competition Set-up
8:00 AM - 12:00 Noon	Old Guard Oral Presentation Competition
12:00 PM - 1:00 PM	Lunch, SSC Candidate Statements, and Open Viewing of Posters and Web Sites
1:00 PM - 4:00 PM	Old Guard Oral Presentation Competition
4:00 PM - 6:00 PM	Exposition (See Note Below)
7:30 PM - 9:00 PM	Awards Banquet

### SUNDAY, April 1, 2007

9:00 AM - 10:00 AM	Voting for SSC Candidate and Student District Operating Board Meeting (SDOB)(Unconference Style) (See Notes Below)
10:00 AM - 12:00 Noon	Special Insider/Engineering Tour of the National Automobile Museum (See Note Below)

**Notes:**

**Exposition:** The following companies will be hosting product demonstrations, workshops, and engineering panels at the SPDC.

- ? IGT (foremost supplier of gaming machines and gaming monitoring systems in the world),
- ? Abaris (composite material),
- ? SNC (defense contractors)(tentative),
- ? Ormat (geothermal) (tentative).

**SDOB**

All current and future student officers are invited to attend and become part of the SDOB. The meeting will be run "unconference" style to learn about the operation of ASME and to participate in a live demonstration of how to plan a conference. Unconference style is where nothing is planned. This is a fun way to learn what needs to be done by trial and error without the consequences.

**Student Section Committee (SSC)** Election Information [Click Here](#)

**National Automobile Museum (The Harrah Collection)**

Like people, every car has a story, a little tale about who and where and why. Especially at the National Automobile Museum in Reno where antique, classic and one-of-a-kind wonders coexist in an automotive time warp. Plan your departure from Reno late enough that you can join us on our Special Insider / Engineering Tour on Sunday morning.