

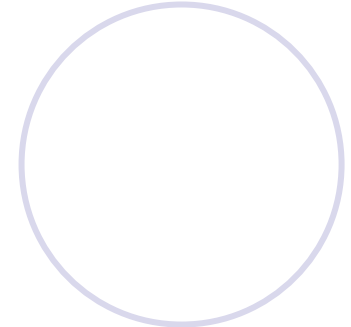
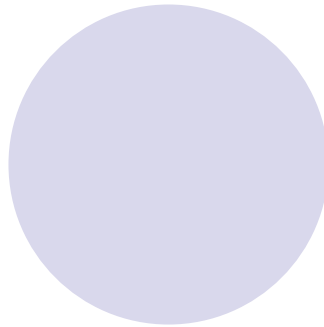
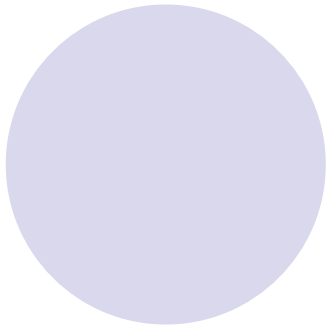


This workforce solution was funded by a grant awarded under Workforce Innovation in Regional Economic Development (WIRED) as implemented by the U.S. Department of Labor's Employment and Training Administration. The solution was created by the grantee and does not necessarily reflect the official position of the U.S. Department of Labor. The Department of Labor makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including any information on linked sites and including, but not limited to, accuracy of the information or its completeness, timeliness, usefulness, adequacy, continued availability, or ownership. This solution is copyrighted by the institution that created it. Internal use by an organization and/or personal use by an individual for non-commercial purposes is permissible. All other uses require the prior authorization of the copyright owner.



Aerospace Community Development Program **Lockheed Martin Presentation**

April 8th, 2008



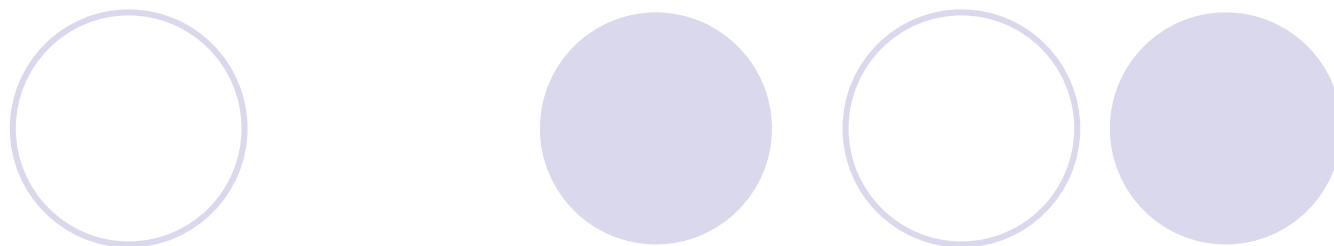
by: Teresa Henderson - Matt Everingham - Randall Echevarria



www.InnovateCalifornia.net



Funding provided by Department of Labor, Employment & Training Administration: WIRED Initiative



California Space Authority

- Governed by a statewide BOD
- Non-profit Corporation
- Commercial, Civil and National Defense/Homeland Security Interest of California Space Enterprise
 - Industry
 - Government
 - Academia
 - Labor/Workforce
- Designated as California's Spaceport Authority
- Member-based "enterprise" association
- Work with stakeholders statewide to facilitate California's competitiveness and space enterprise vitality.



“California Space Enterprise”

- Space-related companies
- Entrepreneurs
- Government Agencies
- Academic Research Programs
- \$21.85B Business
- Represent 19% of the Global Space Market
- Represent 31% of the U.S. Space Market
- Provide over 265,000 Jobs Statewide

Medicine

- Distance diagnosis
- Rural medicine
- Teaching & professional development
- Telemedicine

Entertainment

- Satellite digital audio radio
- Satellite direct-to-home television
- In-flight entertainment
- News
- Sports

Business/Telephony

- Digital voice, fax & paging
- High-speed data transfers
- Satellite internet
- Videoconferencing

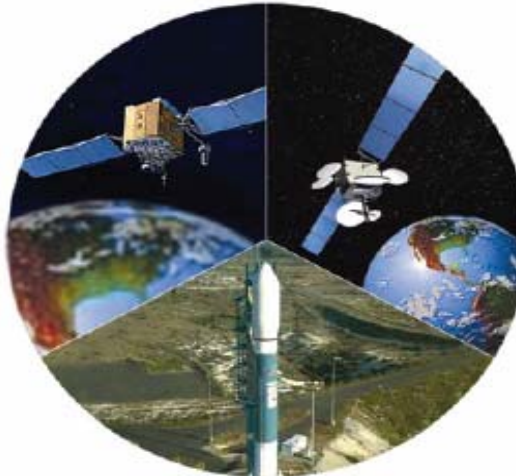


Agriculture

- Soil analysis
- Crop moisture sensing
- Pest infestation monitoring
- Herd management

Environmental Monitoring

- Reforestation
- Watershed & vegetation management
- River & stream control
- Air pollution management
- Weather/climate



Energy Management

- Oil pipeline monitoring
- Remote meter reading
- Infrastructure management
- Resource prospecting

Transportation

- Marine & land navigational services
- Rail management
- Infrastructure planning
- Logistics management
- Freight security



Education

- Distance learning
- Satellite-linked classrooms and schools
- Participatory "real-time science"

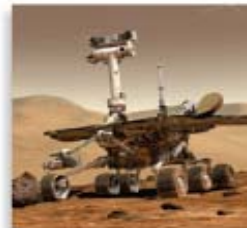
Navigation

- Land, sea, air and space navigational services



National/Homeland Security

- Intelligence data delivery & collection systems
- Diverse database linkage



Space Exploration

- Robotic missions
- Planetary missions
- Future manned missions
- Astrobiology
- Flight testing



Local Government

- Flood & storm watches
- Forest fire prevention
- Disaster management
- Public safety
- Crime control
- Urban planning



Space Enterprise Advisory Council

- A representative body of statewide space enterprise stakeholders.
- Provide direction and support to CSA BOD's and staff on updating/implementing the California Space Enterprise Strategic Plan and on issues impacting California space development

California Space Enterprise Strategic Plan

- A collaborative effort of the California Space Enterprise Community
- Includes 6 collaborative working groups
 - Space Business Development, Retention and Growth
 - California Space Industrial Base Vitality
 - Science, Research and Technology Development
 - Public and Policymaker Awareness
 - **Education and Workforce Development**
 - New Space Professionals Working Group



Education and Workforce Development

- Goal:
 - Enhance space-related education and ensure appropriate 21st Century space workforce
- New Space Professionals Working Group
 - Generate Insight into recruiting, integrating and retaining new space professionals
 - Provide a line of communication between current space enterprise leadership and the new workforce
 - Engage new space professionals in a state-wide interorganizational network of their peers and space enterprise leaders



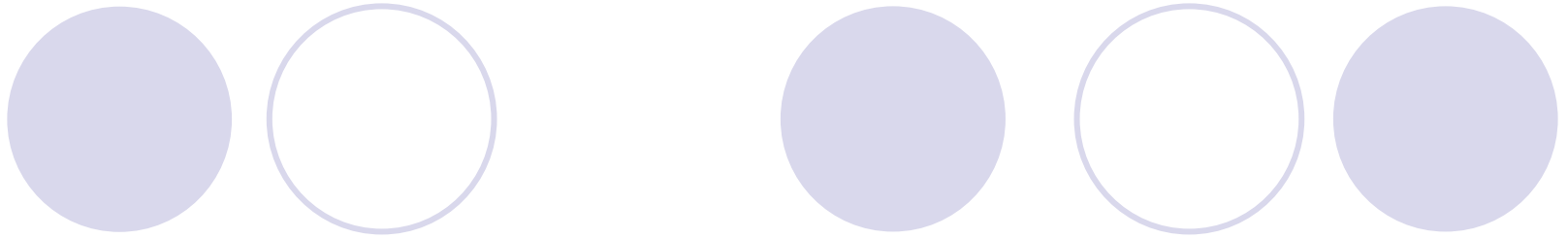
California Space Education & Workforce Institute

- Fostering California Space/Science Literacy
- Enhancing California Space-Related Education K-U
- Ensuring 21st Century California Space Workforce

Dr. Jack Gregg, Executive Director



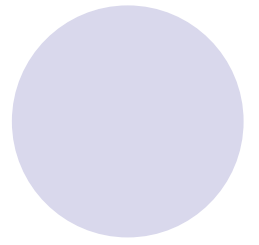
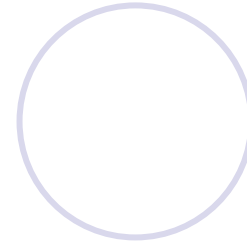
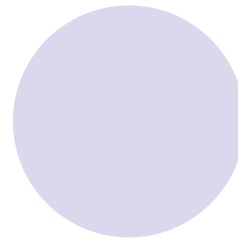
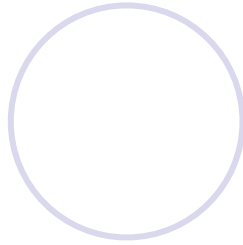
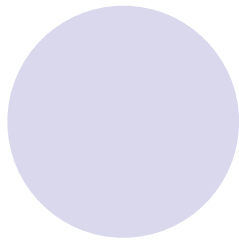
- The California Space Education and Workforce Institute, Inc. is a nonprofit 501(c)(3) corporation formed to:
 - Create understanding, enthusiasm and appreciation for space enterprise and space technology
 - Inspire parents, educators and students to engage in California-based space-related education and enrichment activities
 - Stimulate greater awareness, understanding of the California space enterprise workforce and research needs throughout academia
 - Attract, integrate and retain a robust California space workforce



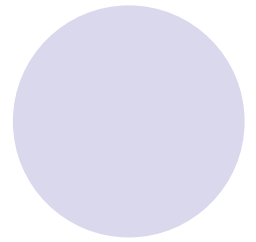
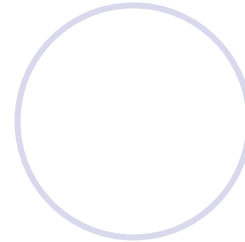
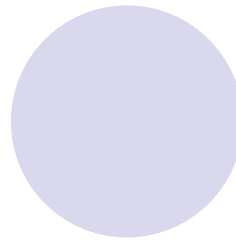
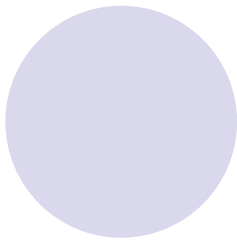
Sphere of Interest

- Programs
- Studies and Reports
- Nexus for California Space Education/Workforce Development
- Information and Referral

Working closely with the California Space Authority, the State of California, appropriate Federal agencies and other space education and workforce stakeholders, the California Space Education and Workforce Institute utilizes the California Space Enterprise Strategic Plan and other industry/government studies to determine its appropriate scope of work and priority programs and activities.

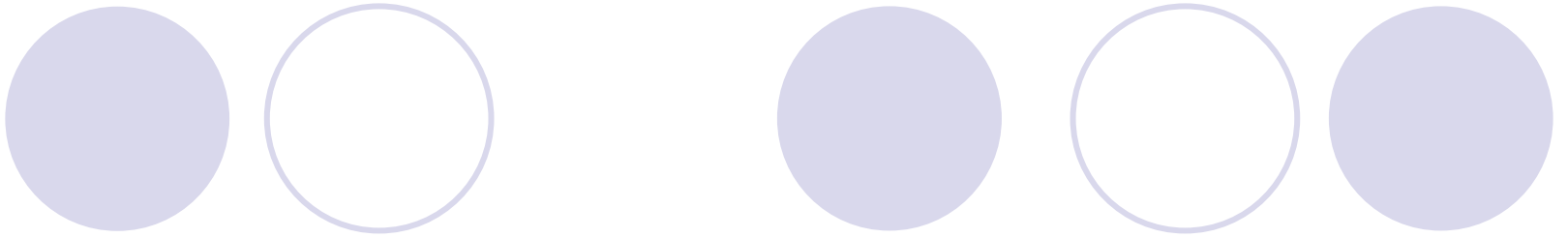


- **U.S. Dept. of Labor Award Feb. 2006**
- **Economic Region:**
 - California Innovation Corridor
- **Program Lead:**
 - California Space Authority
- **Partners**
 - 13 County Economic Region with 60+ Partners



Stretching from Alameda County in the North to San Diego County in the South and Eastward to include Kern County and the Inland Empire of Riverside and San Bernardino Counties

California Innovation Corridor



CIC WIRED PROGRAM

**TRANSFORMATIONAL INTENTION:
Optimize the Corridor for Innovation**

Strategic Goals

**1.0
Innovation
Support**

**2.0
Industrial
Rejuvenation**

**3.0
Talent
Development**

SUSTAINABILITY PROJECTS*

Project Goals

- 1.1
- 1.2
- 1.3
- 1.4
- 1.5
- 1.6
- 1.7

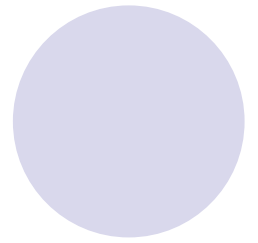
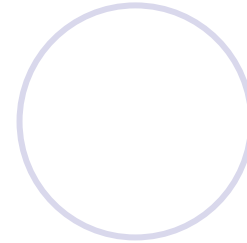
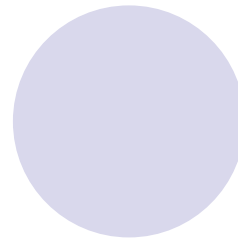
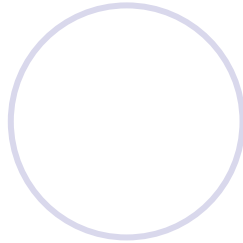
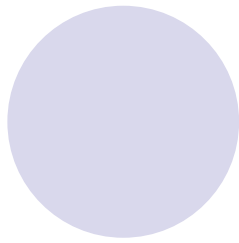
Project Goals

- 2.1
- 2.2
- 2.3
- 2.4

Project Goals

- 3.1
- 3.2
- 3.3
- 3.4
- 3.5
- 3.6
- 3.7
- 3.8
- 3.9
- 3.10
- 3.11
- 3.12
- 3.13
- 3.14

**PARTNER OBJECTIVE(S)
Tasks/Activities**



● **Wired 3.8**

○ Identify 3 Target Universities in the CIC

- *Cal Poly San Luis Obispo*
- *Cal Poly Pomona*
- *UC Irvine*

○ Identify 3 Student Advocates

- *Mathematics Engineering Science Achievement (MESA)*
- *Maximizing Engineering Potential (MEP)*
- *Center for Opportunities and Diversity in Engineering (CODE)*

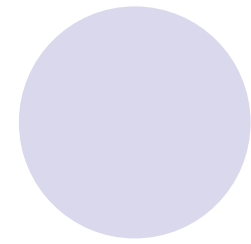
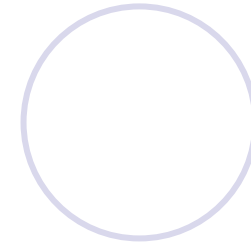
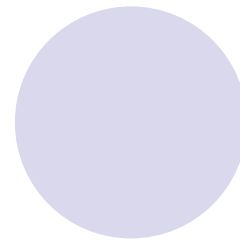
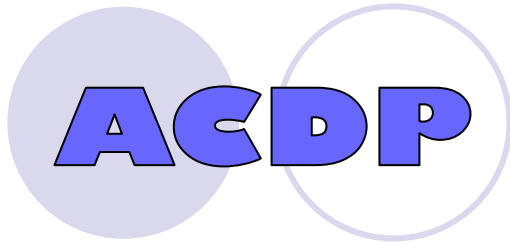
Aerospace Community Development Program

● Wired 3.8

○ Development of 3 programs to align with 3 Universities to orient Undergraduates Advisors with space-related STEM careers

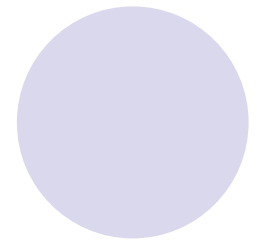
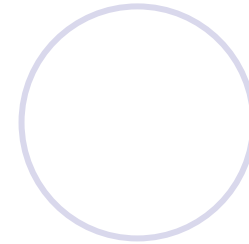
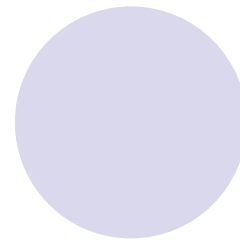
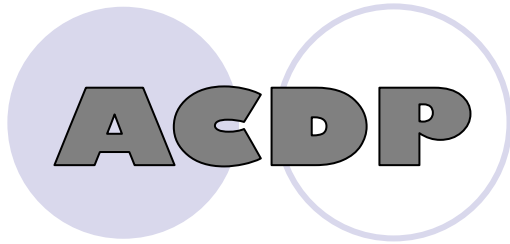
● Aerospace Community Development Program

- Mentor Match Program
- California Space Enterprise Speakers Bureau
- New Space Professional Survey
- *Space Space* Blog
- www.csewi.org/programs/aerospace_community.html



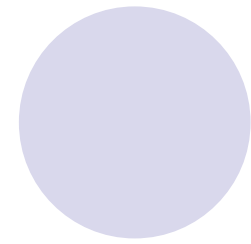
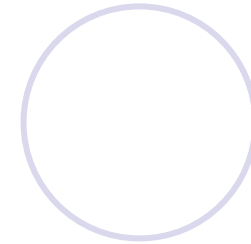
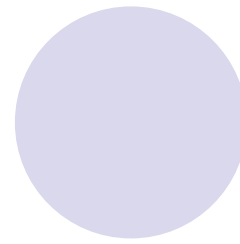
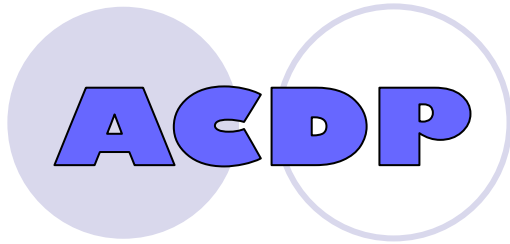
● **Mentor Match Program**

- Correspond with a student aspiring to work in the aerospace industry using an Internet-based matching service.
- Currently 33 students signed up to be mentored from your universities
- Currently 19 professionals signed up as mentors
- Still in Development: Our partnership with the internet based mentoring site with a goal of being finalized by May 31, 2008
- www.csewi.org/mentoring



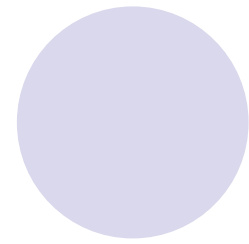
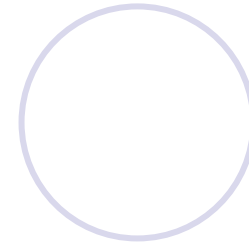
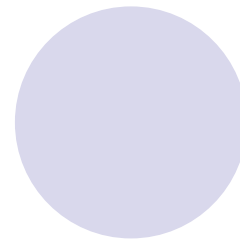
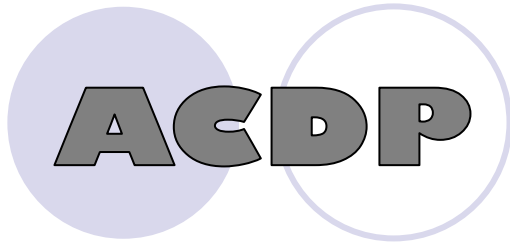
● **CA Space Enterprise Speakers Bureau**

- An elite group of seasoned and new space professionals with a desire and passion to inform and inspire the public on space activities in California.
- Seeking recruits to act as ambassadors for California Space Enterprise
 - History of California Space Enterprise
 - Generation Gap, Professional Development, Recruitment and Retention Issues, Generation Y Perspectives
- www.csewi.org/speakersbureau
- www.csewi.org/speakersbureau/join



- **Space *Space* Blog**

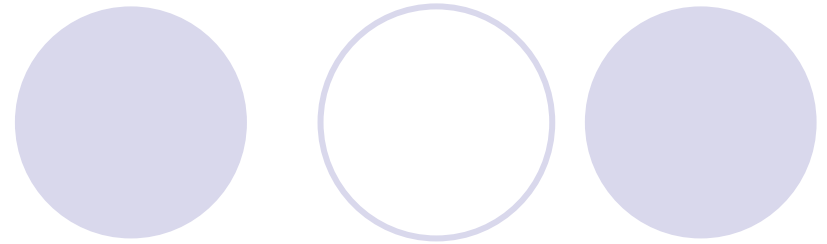
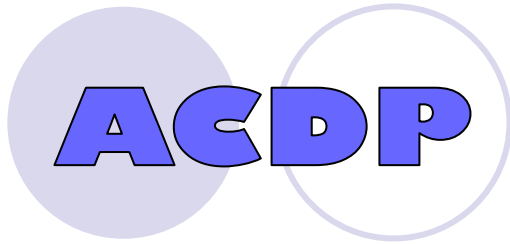
- A fun, quirky, creative and smart blog series that provides the opportunity for students and new space professionals to network and discuss areas of importance and interest to the aerospace industry.
- Blog section in SpaceBound!
- Recognition on the California Space Education Center website.
- www.csewi.org/blog



● **New Space Professional Survey**

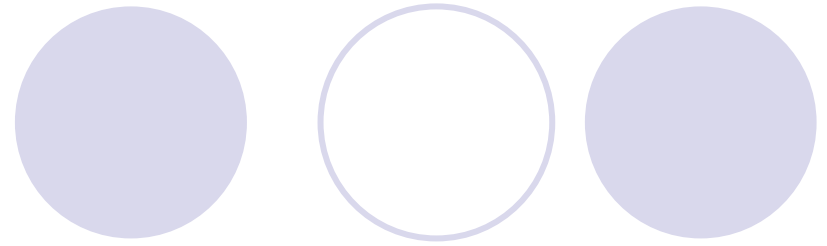
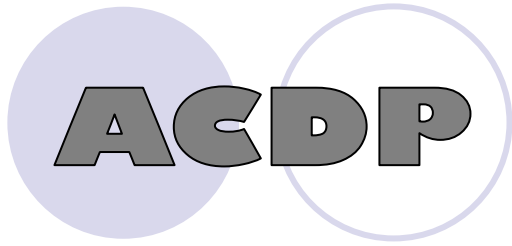
○ Participants in this survey will contribute to a national study being done on recruitment, retention and integration to inspire the next generation of the aerospace workforce.

○ www.csewi.org/nsp/survey



● **Wired 3.8**

- Schedule and execute one innovation tour for each University to participate
 - WESTEC- March 31st- LA Convention Center
 - Northrop Grumman- Being Developed
 - Lockheed Martin- Being Developed



Please fill out your informational card
indicating your interest in our programs

ACDP

Questions???



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