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# California Space Education & Workforce Institute

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

**Overview of STEM Collaborative Action Plan  
(STEMCAP) WIRED Grant Project  
Outline of Process for STEMCAP Development  
for STEMCAP Steering Committee  
October 5, 2006**

***Presented by: Deborah D. Hirsh, Captain, United States Navy – Ret  
Executive Director***



# Background

## US DOL “WIRED” Project Workforce Innovation through Regional Economic Development

### California Innovation Corridor

“Workforce Transformation: Innovation Support,  
Industrial Rejuvenation, Talent Development”

- 13 county economic regions, 60+ partners and supporters

Project Lead: California Space Authority  
Hon. Andrea Seastrand, Executive Director



## California Innovation Corridor

- From Alameda County in the north
- To San Diego County in the south
- Inland Empire, Antelope Valley and Kern Country



# Talent Development

***Accelerate development of highly skilled 21<sup>st</sup> Century talent pool by creating pilot projects and activities capable of supporting a continuum of mathematics , science and engineering education (K-U) and lifelong learning relevant to the 21<sup>st</sup> Century technical worker***

- ***14 of the 25 WIRED projects focus on Talent Development***
- ***8 projects for CSEWI, leading 3***
- ***Biggest project: [STEM Collaborative Action Plan \(STEMCAP\) – WIRED 3.5](#)***



# Project Goal

***“Develop a collaboration and a strategic action plan to increase the number and support the development of science, technology, engineering and math (STEM) students, graduates, teachers, professors and mentors within the California Innovation Corridor and the State of California, leveraging the resources and efforts not only of education and academia (K-20, public and private), but of industry and the informal science network”***



# Participants

## ***Wired Grant Partners:***

- ***California State Polytechnic University, San Luis Obispo***
- ***El Camino College***
- ***California Council on Science and Technology (CCST)***
- ***Mathematics, Engineering and Science Achievement (MESA – UC President's Office)***
- ***Strategic Vitality, LLC***
- ***California Space Education and Workforce Institute***

## ***+ Collaborators:***

- ***California State University (CSU) Chancellor's Office (Teacher Education Office/Public Schools Program Office)***
- ***California Community College Chancellor's Office***
- ***University of California (UC) President's Office***



## Additional Participants



- **Alliance for Regional Collaboration to Heighten Educational Success (ARCHES)**
- **California Department of Education**
- **Discovery Science Center**
- **American Institute of Aeronautics and Astronautics (AIAA)\***
- **California Manufacturing and Technology Alliance (CMTA)\***
- **California Science Teachers Association (CSTA)**
- **California Math Council (being invited)**
- **Cal TAC (being invited)**
- **NASA Ames Research Center Director of Strategic Communications and Development\***





# Work Done So Far

- **Preliminary Partnership Building Forum July 28, 2006**  
*featuring:*
  - Industry reps
  - Informal Science reps
  - STEM overviews from each of the systems
  - Break out sessions on:
    - Equity and Access Strategies
    - Effective (STEM) recruitment
    - STEM Partnership Barriers and Opportunities
    - Transition Points and Strategies
  
- **Since then CSA has focused getting funded partners on contract**
  
- **Scoping the three year project**



# Three-Year STEM Project Overview



## Year One:

- **Develop an organizing committee and hold a preliminary forum**
- **Develop a steering committee\***
- **Determine elements (main sections) of the STEM Collaborative Action Plan**
- **Align those elements with working groups\*\* to develop Plan content**
- **Develop a schedule of working groups sessions (forums) to do primary Plan development**
- **Design/execute STEM inventory among STEM stakeholders participating in STEMCAP**
- **Recruit Steering and hold orientation/planning meeting**
- **Host kick-off working group forum (Nov 1, 2006)**



# Three-Year STEM Project Overview



## Year Two:

- **Host working group forums**
- **Monitor progress of working groups**
- **Report working group progress to Steering Committee**
- **Develop supplemental sections of Plan (CSEWI)**
- **Identify outreach opportunities for finished Plan within educational systems, academia, industry, informal science**
- **Compile working group information into final draft of Plan**



# Three-Year STEM Project Overview



## Year Three:

- **Present final draft of Plan to Steering Committee;  
Develop Outreach Plan**
- **Release Plan with any Steering Committee revisions**
- **Execute Outreach Plan**



## Next Steps – Upcoming Event



**The next STEMCAP forum will be held November 1, 2006 in Los Angeles and will serve as a kick-off forum for the STEMCAP working groups developing the elements of the Action Plan.**

**Today we will seek the input of the Steering Committee on the DRAFT elements of the plan and the make-up of the working groups...specifically which working groups will be stood up.**

**... and solicit volunteers for working group chairs and co-chairs from Steering Committee membership. Working group chairs should be inter-segmental and selected across sectors of education, industry and informal science**