



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.



STEM Partnership-Building Forum

June 28, 2006

Renaissance Montura LAX Hotel

Los Angeles

Project Goal

*Science, Technology, Engineering and Mathematics Partnership
Action Plan (STEMPAP)*

Develop a partnership 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 (Kindergarten through University) within the California Innovation Corridor and the State of California, leveraging the resources and efforts of not only education and academia, but of industry and the informal science network.



AGENDA

STEM Partnership-Building Forum - June 28, 2006
Renaissance Montura LAX Hotel, 9620 Airport Boulevard, Los Angeles

8:00 a.m.

Welcome/Forum Overview

The Honorable Andrea Seastrand, Executive Director, California Space Authority (CSA)
Paula Arvedson, PhD, President, California Space Education & Workforce Institute (CSEWI)
Bruce Gardner, PhD, Co-Chair, CSEWI Education/Workforce Collaborative;
Principal Director, Learning Systems Center, The Aerospace Institute, The Aerospace Corporation

8:15 a.m.

Industry-Driven Workforce Development and STEM Education The WIRED Initiative

Tom Hooper, Industry Lead/WIRED California Team
Business Relations Group, US Department of Labor

8:35 a.m.

Development of a Technical Workforce: The Employer Perspective

Moderator: Michael Aldaco, Assistant Vice President, University of California, Office of the President
Laura Gilliom, PhD, Director, University Relations, Lawrence Livermore National Laboratory
Ray Haynes, PhD, Director, University Relations, Northrop Grumman Space Technology
Susan Johnson, College Relations, Southern California Edison
Edward Taylor, Google, Inc.

9:35 a.m.

California STEM Education and the American Competitiveness Agenda

Susan Hackwood, PhD, Executive Director, California Council on Science & Technology (CCST)

9:55 a.m.

CSU STEM Strategy: A Successful Federal Lab Partnership

Moderator: Beverly Young, PhD, Assistant Vice Chancellor
Teacher Education/Public School Programs, California State University
Jeff Gold, Associate Director, Academic Technology, California State University Chancellor's Office
Art Hammon, Jet Propulsion Laboratory
Ron Hughes, Professor/Faculty Coordinator, California State University/NASA Collaborative

10:50 a.m. – 11:05 a.m.

BREAK

11:05 a.m.

Community Colleges as STEM Assets

Steve Bruckman, Executive Vice Chancellor, California Community College



AGENDA

STEM Partnership-Building Forum - June 28, 2006
Renaissance Montura LAX Hotel, 9620 Airport Boulevard, Los Angeles

11:25 a.m.

Industry Associations and the Informal Science Network: Hardworking STEM Supporters

Moderator: Jordi Puig-Suari, PhD, Chairman, Aerospace Engineering, Cal Poly San Luis Obispo
Joe Adams, President, Discovery Science Center
Paula Arvedson, PhD, President, Satellite Educators Association (President, CSEWI Board)
Dean E. Davis, PhD, Chairman, AIAA K-12 Strategy; Principal Scientist/Engineer, Boeing Integrated Systems

12:20

Luncheon Program Critical Issues in STEM K12 Education and Teacher Preparation

Introducing Dr. Brunkhorst:
Kathy Norman, President, National Association of Science Teacher Education (ASTE)
Herbert K. Brunkhorst, PhD, Professor and Chair
Department of Science, Mathematics, and Technology Education, CSU San Bernardino;
Committee on Science, Mathematics and Teacher Preparation, National Academy of Sciences

K-12 STEM Education – the Teacher Perspective

Peter Arvedson, Cal TAC/Lead Teacher, Academy of Science, La Puente High School
Barbara Shannon, PhD, Cal TAC/Faculty, Westridge School

1:45 p.m.

Session I Break-Out

Option One: Effective Recruitment: Strategies and Outcomes
Option Two: Access and Equity Strategies

2:30 p.m.

BREAK

2:45 p.m.

Session II

Option One: Transition Points and Strategies
Option Two: A Successful STEM Partnership: Barriers, Opportunities & Outcomes

3:30 p.m.

What Are the Needs? Insights from the New 21st Century Technical Workforce

Emily Chi, Engineer/Chair, CONNECT, Northrop Grumman Space Technology
Matt Everingham, Special Projects Manager, California Space Authority

4:15 p.m.

Closing Remarks

Background

On February 1, 2006, the California Innovation Corridor (CIC - California's Alameda County in the north to San Diego County in the south, plus Antelope Valley and the Inland Empire) was named as one of 13 regions nationwide awarded a Department of Labor (DOL) grant under the DOL "Workforce Innovation in Regional Economic Development (WIRED)" Initiative. Grant awardee was the California Space Authority (CSA), with over 60+ partners – industry and small business, State of California, workforce, economic development and venture capital entities, educational and academic institutions and other nonprofits are among the partners, as is the California Space Education and Workforce Institute (CSEWI), which is the lead on two of the 25 projects within the CIC WIRED grant initiative.

Science, Technology, Engineering and Mathematics (STEM) Partnership-Building Forum

Forum Purpose:

- To identify and engage stakeholders critical to STEMPAP success
- To orient key partners to each other's STEM activities and to begin building a collaboration culture around a consensus-based STEM strategy
- To identify early opportunities to demonstrate partnership effectiveness

Forum Outcomes:

- Consensus on "high pay-off" STEM activities
- "Inventory" of current "high pay-off" STEM activities in the Corridor and California, especially those affording academia and education partnership opportunities leveraging the resources of industry and the informal science network
- Identification of issues creating barriers to STEM partnership success
- Identification of potential 2006-07 demonstrations, labs, other early opportunities for STEM partnership success
- STEM Partnership Action Plan/Blueprint

Partial List of Supporters:

California Space Education and Workforce Institute (CSEWI) – WIRED Project Lead
Mathematics, Engineering and Science Achievement (MESA) – WIRED Project Partner

American Institute of Aeronautics and Astronautics (AIAA)

California Council on Science and Technology (CCST)

California Community Colleges (CCC)

California Space Enterprise Employers (space-related industry, small business, nonprofits, National Aeronautics and Space Administration (NASA) and other government space agencies)

California State University (CSU)

University of California (UC)