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STEM Collaborative Action Plan (STEMCAP)

STEMCAP Steering Committee Webinar February 26, 2007

Recap

1. Attendees:

Christine Bertrand, California Science Teachers Assn.
Steve Bruckman, California Community College
Caleb Cheung, Teacher
Brenda Collins, NASA
Victoria Conner, Strategic Vitality, LLC
Dean Davis, The Boeing Company
Matt Everingham, CSA
Jamie Foster, CSA
Dennis Galligani, ARCHES
LeeAnne Haworth, CSA
Deborah Hirsh, CSEWI
Phil Lafontaine, California Department of Education
Melanie Sharp, El Camino College
Diane Siri, ARCHES
Jane Zinner, ARCHES

2. WELCOME

Deborah Hirsh, California Space Education and Workforce Institute (CSEWI) Executive Director welcomed the group, reminding them of the overall 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"

3. Technical Notes

Jamie Foster, California Space Authority (CSA) Chief Operations Officer shared the webinar rules of etiquette (silence is concurrence, avoid the "hold" button, frame questions for a minimum number of responses)

4. ARCHES STEMCAP Support

Dennis Galligani, who, with Diane Siri serves as Executive Director of ARCHES (Alliance of Regional Collaboration for Heightened Education Success), gave a brief overview of ARCHES:

The Alliance for Regional Collaboration to Heighten Educational Success (ARCHES) is meant to enhance the effectiveness of regional partnerships through a statewide network, creating a community of learners who can leverage the work of the individual collaborations. It is a "voluntary confederation of collaboratives whose sole purpose is to improve student success and close the achievement gap among groups of students." ARCHES requires targeted stakeholder participants in each collaborative in its network and also requires a project and a plan, guidelines designed to foster focus and collaboration.

Galligani also described the working group facilitation principals/assignments as they will be going forward:

- Jane Zinner would be joining the two ARCHES representatives in facilitating the working group effort supporting content development for the STEMCAP.
- Zinner will be facilitating the Curriculum Relevancy group
- Galligani will stay with the Seamless Transitioning group
- Siri will take over the Recruitment/Retention group
- Victoria Conner (Strategic Vitality, LLC; WIRED partner) will focus on integration of the working group content inputs.

Galligani emphasized the potential leveraging possible through implementing STEMCAP best practices and model programs through the ARCHES network of collaborations.

Dean Davis, K-12 Chairman, American Institute of Aeronautics and Astronautics (AIAA), expressed a desire to discuss with ARCHES how industry partners could connect with the regional collaborations to partner on key projects. Both committed to an offline discussion.

5. STEMCAP Process Overview – STATUS

CSEWI Executive Director Hirsh described the Year One, Two and Three STEMCAP process:

Year One

- Develop organizing committee/host introductory forum
- Recruit Steering Committee/hold orientation/planning mtg
- Design electronic STEM inventory tool
- Determine working groups/outline schedule for WG activity
- Host kick-off working group forum
- Determine elements of STEM Collaborative Action Plan
 - Inventory, Collaborative Action Plan, Dissemination Plan
 - Organizing Principle/Infrastructure
 - Inspire, Engage, Educate, Employ
 - Recruitment/Retention, Curriculum, Seamless Transitioning

Year One (crossing into Year Two):

- Populate STEM inventory

Year Two:

- Host working group fora
- Monitor progress of working groups
- Report working group progress to Steering Committee
- Identify outreach opportunities for dissemination
- Compile working group/supplemental info into final draft

Year Three:

- Present final draft of Plan/Dissem Plan to Steering Comm
- Execute outreach activities

6. Review of Working Group Goals

Victoria Conner led a discussion around the three draft working group goals

- Recruitment/Retention

Possible revision based on Steering Committee input: *Increase number of STEM graduates and educators by creating a positive image of the STEM worker and, using all available resources (public and private), build awareness of all California students, teachers and parents of the breadth, scope and quality of life benefits of STEM-related careers.*

Important points brought up by the original working group for inclusion in the goal statement can be included in the body text or forwarded to another group for inclusion as appropriate.

- Curriculum Relevancy
Create, fund, train and integrate relevant and inspiring STEM curriculum, activities, materials and courses into both formal and informal education, beginning at pre-school.
Comments for consideration: “Beef up ‘activities, materials, courses’, perhaps with some of the ‘hands-on, experiential, project-based learning’ phrases from Goal #1 (Recruitment/Retention) to ensure that it is not implied that activities, materials and courses are not to be ordinary, but extraordinary, rigorous”; it was brought up that the goal may need to include the other end of the spectrum from pre-school, but consensus seemed to be that the far end was implied and need not be included
- Seamless Transitioning
Every student in the corridor/State will be motivated, academically prepared and realize potential in STEM academic areas and will have the opportunity to participate in the STEM professional workforce upon completion of elementary, middle, high school, certificate, AA, transfer, BS and graduate degree.
Comments included whether or not all levels need mention (consensus was “yes”), whether there was duplication or overlap here with Goal #1’s intention (consensus seemed to be “no”).

7. Upcoming Working Group Webinars and Common Agenda

Working Group Forum follow-up webinars

- Retention/Recruitment
 - i. Wednesday, March 7, 2007 10 am – noon
- Curriculum
 - i. Wednesday, March 7, 2007 1:30 pm – 3:30 p
- Transitions
 - i. Thursday, March 8, 2007 10 am – noon

Common Agenda

- Review of all three goal statements/refine working group goal
- Review working group notes from two perspectives
 - i. “Hve we properly identified the ‘who’”?
 - ii. “Have we got the conditions right?”
- Revisit criteria for best practices/model programs – encourage nominations
- Measures/outcomes, short and long-term

8. Steering Committee Feedback on Working Group Inputs Distributed

Galligani mentioned that most of the “Transitions” group work on webinar would be to determine criteria for best practices/programs

Siri explained that her group, too, (curriculum) would need to articulate the criteria

Conner shared that the Recruitment/Retention group would need to finalize the goal, but could share some of the criteria identified with the other two groups, while also drawing on those groups’ formats for the goal articulation.

9. May 19 Forum

Hirsh shared details about the May 19th Forum and follow-on working group session:
LAX Westin

8:00 a.m. – 9:30 a.m. Steering Committee/Spkr breakfast

9:30 a.m. – 3:30 p.m. Forum/Working Group session

Confirmed Speakers:

- State Superintendent of Public Instruction – Jack O’Connell
- President CAL Poly SLO – Warren Baker
 - System Lead for Math and Science Teacher initiative

Invited:

- Rick Stephens – Sr. VP, The Boeing Company

Galligani noted that the working groups would hopefully be finalizing their inputs on the questions from the December 9th session and the fall session would be quite different
Working Group Session – Same three break-outs

10. Next Steps

Hirsh shared next steps for Steering Committee

- Register for working group if not assigned
- Cancel hold on April 3
- Calendar May 19th
- Encourage POPULATION of the INVENTORY!

Steering Committee feedback:

Inventory pages populated cannot be printed...

Keith Thompson, DOD STEM contact will be talking to Dean Davis, AIAA, next week regarding follow-on to his December 9th California appearance and commitment to work with California

CSEWI has also been working the DOD STEM issue, having one meeting in DC, another with the Space and Missile Systems Center (SMC) contact and a follow-on telecon

Davis indicated some feedback from industry/informal science about whether the STEMCAP would really generate actual progress or just a report; he has assured skeptics that actual progress would result from their support and participation.