

CCSTEM-North Board Meeting

Jan 14, 2013

Agenda

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|---|----|-------|
| 1. Introduction | 5 | Steve |
| 2. Coordinators report | 15 | Steve |
| a. Review Minutes from Dec 12 mtg | | |
| b. Budget update | | |
| c. Mini-Grant update | | |
| d. New Website hosting | | |
| e. CSLNet grant | | |
| 3. Meeting Dates and Venues | 5 | Steve |
| 4. Pub Science Update | 5 | Dawn |
| 5. Update on CSLNet Regional Meeting | 5 | John |
| 6. What's the Focus? | 70 | Delia |
| What are our specific foci prior to Mar 31 and prior to Dec 31? | | |
| 7. Close | 15 | Delia |
| a. What was accomplished, Action list, next meeting | | |

CCSTEM Board Voting Members:

ANNE MARIE BERGEN
SETH BUSH
RITA M DELKESKAMP
PATTI GARRETT
DAWN HINCHMAN
JOHN KELLER
TANJA LATIMER
GEORGE PUDLO
BRYAN REBAR
WALT REIL
JULIE REIL
PAM RICKARD
TOM STEVENS
PAUL TURNBULL
STEVE KLIEWER (ex-officio)

The breakdown of stakeholder group representation is:

K-12	6	
Higher Ed	4	
Informal Ed	2	
Community	5	
Business	2	
Other	1	Industry/Government

Executive Committee Members:

JOHN KELLER	Chair
JULIE REIL	Finance
PATTI GARRETT	Recording
STEVE KLIEWER	Coordinator

Proposed Upcoming Meetings and Events

(please see STEM Event calendar for latest information):

Feb 18	CCSTEM General Mtg; SLOHS, 5:00-7:30 pm
Mar 15	STEM Collaborative workshop, PRHS, 8:00am – 3pm
Mar 18	CCSTEM Board mtg; SLOCOE, 5:30-7:30 pm
Mar 31	CSLNet Grant Final Report due
Apr 15	CCSTEM Board mtg; SLOCOE, 5:30-7:30 pm
Apr 20	Balloon Fest, Paso Robles, 8am-3pm
Apr 23	STEM Focus Meeting, AG, 5-7pm
May 11	SLO Mini-Maker Faire, Mission Plaza
May 20	CCSTEM General mtg; SLOCOE, 5:00-7:30 pm
Jun 17	CCSTEM Board mtg; SLOCOE, 5:30-7:30 pm
Jul 15	CCSTEM Board mtg; SLOCOE, 5:30-7:30 pm
Aug 19	CCSTEM General mtg; SLOCOE, 5:00-7:30 pm
Sep 06	STEM Collaborative workshop, PRHS, 8:00am – 3pm
Sep 16	CCSTEM Board mtg; SLOCOE, 5:30-7:30 pm
Sep 17	STEM Focus Meeting, AG, 5-7pm
Oct 11	CCSTEM Forum, Hancock?
Oct 21	CCSTEM Board mtg; SLOCOE, 5:30-7:30 pm
Nov 18	CCSTEM General mtg; SLOCOE, 5:00-7:30 pm
Nov 22	STEM Collaborative workshop, PRHS, 8:00am – 3pm
Dec 10	STEM Focus Meeting, AG, 5-7pm
Dec 16	CCSTEM Board mtg; SLOCOE, 5:30-7:30 pm

(Board and General Meetings are scheduled on the 3rd Monday of each month)

Mini Grant Status

Total grant funds allocated for Mini-Grants = \$7500

Recd	Name	Req	Auth	Paid	Status
9/21	Construction Zone Club	\$1000	\$1000	\$1000	
9/5	Mini Maker Faire (Kathy Chen)	\$2000	\$1500	\$1500	Mission Plaza, May 11
9/21	SLOHS Robotics Team	\$882	\$882	\$882	
10/2	Make and Learn (Pam Rickard)	\$2000	\$1000	\$1000	
10/13	Do the Math	\$2000	\$600	\$600	
10/30	Digital Media Arts (SLO YMCA)	\$2000	\$600	\$0	Pending receipt of contract
11/2	HOWL Literacy	\$600	\$0	\$0	Declined
?	Living Science Day	?	\$500	\$0	Pending receipt of contract
11/13	VMS Aerospace Modeling	\$2000	\$700	\$0	Pending receipt of contract
12/9	Robotics/Mechanics Club	\$2051	\$700	\$0	Pending receipt of contract

Grants Closed 11/20

12/6	AP Biology Oxygen Gas Lab	\$2000	\$0	\$0	Declined

Totals		\$16533	\$7482	\$4982	

Technical Services Status:

Domain Name registration for CCSTEM.org
 Website hosting for CCSTEM.org
 Tal.ki
 Survey Monkey

Paid through

Jun 2013
 Dec 2014
 Aug 2013
 Aug 2013

Addendum A:

Draft Goals from CCSTEM Advisory Council meeting on Mar 16, 2012

Fund proposals

- Secure sustainable funds to support collaborative (admin, hosting)
- Attract at least \$500,000
- Work with other organizations to fund collaborative grants

Facilitate STEM events – annual and other

- Student showcase
- Annual STEM EXPO for public

Educator professional development

- Implement STEM curriculum
- Identify a STEM Ed coordinator in each school (e-mail contact)
- Identify a dedicated STEM teacher in every elementary school

Connect and build effective STEM relationships (government/schools/businesses/other providers)

- Seek greater industry/business involvement
- Develop business community STEM Ed support teams
- Encourage STEM in out-of-school time
- Identify Lab schools in Santa Maria
- Encourage AVID (Advancement Via Individual Determination) enrollment in Santa Maria
- Develop strong business partners
- Find K-16 STEM internships
- Increase Community college connections
- Partner with CA Math Council for a county-wide math festival or north county and south county

Be a recognized, respected, and valued collaborative

- Publicize CCSTEM accomplishments

Be a visible resource to support increased and quality STEM activities by developing:

- Equipment and loaning library
- Funding/micro grants to the community
- Functional, current website
- Consolidated directory of all activities
- Demonstration STEM spaces
- Identify STEM teaching architectural spaces
- Advisory team to identify expectation of a STEM facility
- Identify a team to support development of a STEM module

Facilitate Community STEM Activities

- Engineering activities for elementary and out-of-school time
- STEM events funded by mini-grants
- Summer STEM camps

- Cal Poly students in out-of-school time settings

Addendum B:

STEM Group Discussions from STEM Forum on May 24, 2011

Pressing issues were identified and then Breakout groups formed to resolve these issues and propose possible actions. These groups are expected to form the beginning of standing committees in the ongoing SEC Collaborative.

Group 1 – Structure for Collaborative Partnerships across Sectors

Goal: Convene stakeholders to partner and collaborate in order to provide high-quality STEM programs.

Participants: Dawn Hinchman, Michael Emrich, Marty Waldman, Chris Roe, Mark Seiberlich, Marcella Klein Williams, Rita M. Delkeskamp.

Stakeholders: County Office of Education, Pre-K Educators, Colleges/Universities, Businesses, Publishers/Textbook companies.

Actions:

- Field trips to Vandenberg Air Force Base, Diablo Canyon Nuclear Power Plant, oil platforms, Local Maker Faire, Solarponics and architectural firms.
- Organize partners and resources to provide students with real-world opportunities.
- Mentorship programs.
- Organize “cooperation” for students to create projects that impact community stewardship.
- Collaborate with agriculture community to develop the idea that farming is science.
- Reach out to at-risk/low income families.
- Collaborate on Pre-K-16 curriculum, projects, facilities.
- Use current structure (i.e. Curriculum Education Council) to identify 1 common “project” to develop collaboratively with universities/colleges, businesses and publishers and then implement county-wide.

Group 2 – Funding

- STEM grant and other funding repository
- Establish partners and funding needs
- Put together a-team-load and partners to give best chance to be competitive and successful
- Post grant success and lessons learned (if not successful with grant)
- Sources of funding—Corporate foundations, non-profit education, state and federal grants.

- Product of grant produces measurable outcomes to compete—some require proven results and research

Group 3 – Teacher Training and Support

Goal: Sustained STEM professional development

Participants: Sarah Cameron, Tina L., Kathie M., Stacey Russell

Ideas and Possible Actions:

- Communication of STEM professional development opportunities to teachers in SLO/SB Counties
- Encouragement of in-class training and support
- Integration of STEM curriculum into other content areas
- Recommended next steps: Creak Website, List professional development resources available

Group 4 – Student Mentoring/Apprenticeship

Goal: STEM Social Network—Interactive Network Tool—linking experts and opportunities to students and teachers.

Participants: Dan Howard-Greene, Larry Price, Anne Marie Bergen, Ray Weymann, Christine Reed, Debbie Guardado

Possible Actions:

- County Office of Education could be the facilitator (list of mentors, apprenticeships and internships)
- Apprenticeship Certification—Courses—develop a skill set—earn certification—student electronic portfolio built

Group 5 – Project-Based Learning

Goal:

Participants: Dominic Dal Bello, Richard Fryer, Megan J, Mary Jo Nordyke, Eric Doster, Dynia Valdovinos, Kari Mattina

Ideas:

- Online database for project-based learning: resources and projects with reviews, a virtual repository.
- Tips for running projects—how to facilitate.
- Teacher training—real life experience.
- Next steps:
- Project email group
- Sample projects search
- Connect with communication group
- Allen Hancock College Friday Night Science—connect with contact person, Eric Doster.

Group 6 – Out-of-Classroom Learning

Goal: Integrate STEM into out-of-classroom learning

Participants: CREEC (Teresa Lees), Cal Poly, SLCUSD, Santa Maria Discovery Museum (Kelly White O’Neal), YMCA (Linda Wingert) Exploration Station (Deborah Love and/or Claude Hartman)

- Idea: Form a partnership between resources and programs.
 - Possible actions:
Identify/inventory resources and programs on the central coast.
 - Define needs of out-of-classroom sites.
- Idea: Increase STEM-oriented out-of-classroom learning, focusing on after school programs, events (camps, fairs, Passport) and museums.
 - Possible actions:
Identify STEM-qualified teachers and leaders.
 - Adopt greener schools initiatives in out-of-classroom learning.

Group 7 – Promoting STEM Image

Participants: Brad Schultz?, Marco Chang, Derrick Lavoie, Scott Hollister

Chart with “STEM” in the center surrounded by interconnecting arrows with Government, Media, Education, Business and Community.

Internet—Facebook Links

Group 8 – Communication

Goal: Connect stakeholders (students, parents, organizations, businesses, research and development, educators, interns and volunteers) via a clearinghouse to facilitate local access and coordination of STEM opportunities.

Participants: Steve Kliewer, Jamie Foster, Tammy B., Patti Garrett, Kevin Drafinski, Emilia S., Tanja Kehler, Lisa F.

How to: website including database, calendar, newsletters, email subscription, personal contact, phone calls, etc.

Group 9 – Improving STEM Instruction for K-12

Participants: Allen Bailey, Darla Batistic, MaryLou Gooden, Tom Harrington, Joyce Hunter, Claire P., Teresa Terry, Dustin Wyke

Goal: Inspire K-12 students and teachers to embrace STEM education.

Ideas and Possible Actions:

- After/in school enrichment
- Subject integration
- Articulated K-12 standards and curriculum (advocate at state level)
- Professional development for teachers
- STEM specialists in elementary schools

- Utilize local projects/groups/ experts (example: FIRST Robotics Team 973) to inspire students