

**Central Coast STEM Collaborative
General Meeting
Exploration Station, Grover Beach
October 24, 2012
5 – 7:30 pm**

Attendees:

Ayer	Kaly	Exploration Station
Bennett	Margaret	Society of Women Engineers/PG&E
Bergen	Anne Marie	Cal Poly
Cardwell	Judy	Exploration Station
Ceaser	Lisbeth	Cal Poly
Delkeskamp	Rita	San Luis Coastal USD
Foster	Jamie	SLO Classical Academy
Garrett	Patti	SLOCOE
Hartman	Claude	Exploration Station
Hinchman	Dawn	CMFI
Kehler	Tanya	worldschool/F.R.E.E.
Kliewer	Steve	Endeavour Institute/CCSTEM North Coordinator
Lewis	Heather	PG & E
Love	Deborah	Exploration Station
McLaughlin	Pam	Early Intervention
Pudlo	George	DSK Architects
Punches	Tosha	Exploration Station
Rebar	Bryan	Cal Poly
Rickard	Pam	LVMS
Wingert	Linda	SLO YMCA

I. Welcome/Opening Remarks (Tosha Punches and Steve Kliewer)

Tosha welcomed us and invited us to the November 4th Chemistry of Cocktails fundraiser that the Exploration Station is sponsoring, as well as provided information about some of their other activities.

Steve's opening remarks included an update on the activities of our organization, a reminder about the onset of the New Generation Science Standards, and the concept of Collective Impact (cross-sector collaboration). He also shared a handout with information about how to get involved in CCSTEM, Working Groups, and important dates.

II. Pop-ups – STEM success stories (Steve Kliewer)

Everyone introduced themselves and shared information about STEM success stories, their STEM plans, and/or hopes for what our CCSTEM organization can offer.

1. Claude Hartman, E. Station – Competed for a climate change lesson plans. Published in Sept. issue of Popular Science. Involved simple things kids can do with equilibrium temp.
2. Bryan Regar, CESAME. STAR Program. Possible NOAA connections.

3. Judy Cardwell, Board Member at E. Station. Here to learn about you. Has participated in various activities. Loves watching kids get turned on
4. Katy Ayer, Board at E. Station. Has child in Eagle Robotics. This summer helped facilitate math club – intramural math minds.” 6 sessions – hands-on stuff.
5. George Pudlo. Architect. Highlight was presenting at Forum. Compared traditional vs. STEM design facilities. Several interested in our work (Jane Conoley. Carl Bloom in Los Osos).
6. Linda Wingert (SLO YMCA). Have been integrateing STEM into after school programs starting last year. Staff trained. Partnership with Cal Poly and John Keller. LBDL in after school programs. Wind Turbines and Solar Cars. 1,000 kids a day countywide.
7. Ann-Marie Bergen. Teacher in Residence at Cal Poly. Elementary science. Next Gen Science Standards. Roling out a CP course that reflects new standards. Professional Learning Circle – Home for those moving forward in STEM Ed.
8. Jamie Foster. Teaching 5-6 grade at SLOCA. Destination Imagination Team this year.
9. Pam McLaughlin. Parent. Here to learn
10. Marie Delkescamp. SLCUSD. Happy to have conversations on a STEM middle school program starting with 6th grade.
11. Margaret Bennett. Society of Women Engineers. Mission for next year – outreach programs. Work a lot with Cal Poly. We want to work with N. Santa Barbara County.
12. Tanja Lavner. Homeschooling parent. Moving on Foundations for Resources in Experiential Education (FREE); new organization.
13. Patti Garrett. SLOCOE. 58 Counties. Curriculum and Instruction Steering Committee. Regional Lead for Science Sub-Committee. Working with Phil LaFontaine on how to roll out Next Gen Science Standards.
14. Delia Horowitz. Professional Facilitator. 6 ingredients to effective collaboration.
15. Heather Lewis. PG&E. Women Nuclear. Community Outreach. Learning how to connect with students.
16. Mark Turengo. PG&E. Don’t have a teaching degree but like to teach.
17. Lizbeth Caesar. CSU Chancellor’s Office liaison. Guidance in Math/English. Early Assessment Project. Heads-up for higher grade high school students on how to get through college. Here to advertise offering for math teachers (ask Patti for more).

18. Pam Rickard. Lompoc teacher. Bio and elective in engineering. Excited with Next Gen Science standards. Passion now is to teach other teachers.
19. Dawn Hinchman. Moving to Lucia Mar Foundation for Innovation. Likes connecting people to opportunities.
20. Deborah Love. ED at E. Station. Originally conceived of as an ECE play space has converted into to a science experience opportunity for young people. Last year people from Child Development/Mechanical Engineering/Architecture. Curriculum has been developed to develop an outdoor earth science exhibit.
21. E. Station – looking for community science leaders to help us build programs.

III. Website Resources (Jamie Foster)

Jamie provided an update about our new ccstem.org website and its content, including a comprehensive section on resources that Walt Reil has facilitated. Steve provided a brief online tour of the website.

IV. Newly elected Board

Patti explained that we held elections and that we still have room to appoint others to the Board in order to balance out our stakeholder groups. She introduced the Board members. Board can nominate up to 10 others.

Anne Marie Bergen
Seth Bush
Rita Delkeskamp
Patti Garrett
John Keller
Bryan Rebar
Walt Reil
Pam Rickard
Tom Stevens
Paul Turnbull
Steve Kliewer

V. Oct. 12 Forum at UCSB (Steve Kliewer)

Rita and others provided a summary of the day's events, including a variety of speakers, the Partnership in Education panel, and the various exhibits.

VI. CA STEM Summit – San Diego (Dawn Hinchman)

Dawn provided a summary of her experience at this state-level STEM conference where people were able to network and learn about the various statewide efforts.

First Breakouts – Engage, Motivate

“Hole in the Wall” experiment – Kids left in a group with a computer can teach themselves.
Fora.tv.

Second Breakouts -- Disseminate, Equip
Inland Empire Network: Focus on Economic Development.
Linking Education and Economic Development (LEED)

Third Breakouts -- Teach, Learn
Dawn focused on making connections with companies and foundations
Oracle Academy

VII. Forum Discussions

Steve provided a brief explanation of this section of our website that can be accessed for online networking conversations.

VIII. Mini-grants and Work Groups (Steve Kliever)

Steve provided an update on the mini-grants that are available and details of the criteria. He also reminded us of the work groups and encouraged attendees to join or form a group. The Mini-Grant announcement and application is posted on ccstem.org.

IX. Next Generation Science Standards (Steve Kliever)

Steve reviewed the work that has been done on these standards, shared some of the timelines, and the three essential dimensions: practices, crosscutting concepts, and disciplinary core ideas. Many attendees expressed excitement and contributed to the discussion. More about what students can do, not just what they know.

Lots of anxiety.
STEM space will be more integrated

Practices
Crosscutting concepts
Disciplinary Core Ideas

X. Closing

Steve reviewed important dates and upcoming activities/meetings. Rita volunteered to have San Luis Coastal Unified School District host the next CCSTEM General Meeting, on 2/13/13 at 1500 Lizzie Street, room to be confirmed. Anne Marie Bergen volunteered to facilitate the meeting.

Next General Meeting is February 13, 2013, San Luis Coastal Unified School District, 1500 (Room B2 15 Lizzie Street) San Luis Obispo.

Rita Delkeskamp will host and
Anne Marie Bergen will facilitate.