

CCSTEM North Governing Board Election
SAMPLE BALLOT
September 19-28, 2012

INSTRUCTIONS

The CCSTEM North Board is intended to consist of 10-15 representatives from five key STEM Stakeholder Groups (K-12, Informal Education, Higher Education, Industry/Government, and Community). The first ten board members are to be elected. The CCSTEM North Coordinator is an eleventh appointed position. The remaining four positions may be appointed by the elected board to balance representation across stakeholder groups.

For each of the 12 nominees listed below, we have provided the stakeholder affiliation, a brief biography, and either a statement from the nominee or the nominator. Nominees have been listed in alphabetical order by last name.

TO PARTICIPATE IN THE ELECTION OF THE CCSTEM NORTH BOARD, PLEASE REGISTER AS A MEMBER OF CCSTEM AT <http://ccstem.org>. A LINK TO THE ELECTRONIC BALLOT WILL BE EMAILED TO YOU WITHIN 2 DAYS OF RECEIPT OF YOUR REGISTRATION. THE ELECTION WILL CLOSE ON SEPTEMBER 28.

CANDIDATES (listed in alphabetical order, bios on following pages):

- Anne Marie Bergen
- Karl Blum
- Seth Bush
- Rita Delkeskamp
- Patti Garrett
- John Keller
- Bryan Rebar
- Julie Reil
- Walt Reil
- Pam Rickard
- Tom Stevens
- Paul Turnbull

ANNE MARIE BERGEN

K-12, Higher Education

BIOGRAPHY: For 25 years Anne Marie has been involved in education as an elementary teacher, science coordinator, and environmental educator. She has created and implemented elementary science programs to include in-class laboratory experiences, field-work with students, and collaborations with the science community (ie-Dinner with a Scientist, Science Fair, Elementary Science Olympiad, Passport to Science.) Anne Marie has provided professional development for K-12 teachers in the area of science and effective teaching and has served as the chair for the California Teacher Advisory Council for the California Council of Science and Technology. She collaborates with educators locally, regionally and statewide in the area of science and STEM education.

NOMINEE STATEMENT: Currently Anne Marie is Teacher in Residence at Cal Poly working with College of Science and Math (Biology, School of Education, Liberal Studies) to modify science courses for future elementary teachers. Honors Include: Presidential Award for Excellence in Mathematics and Science Education, 2010, Amgen Award for Science Teaching Excellence, 2006, California Teacher of the Year 2003.

KARL BLUM

STAKEHOLDER AFFILIATIONS: K-12

BIOGRAPHY: Karl Blum is the Assistant Principal at Los Osos Middle School. He has 18 years in education at the middle and high school level. Prior to coming to Los Osos Middle School he was a teacher at Nipomo and Arroyo Grande High School. He has experience in integrated curriculum and believes in challenging rigorous curriculum.

SETH BUSH

STAKEHOLDER AFFILIATIONS: Higher Education

BIOGRAPHY: My name is Dr. Seth Bush. I am a faculty member in the Department of Chemistry and Biochemistry at Cal Poly San Luis Obispo specifically hired to address issues in Science Education. I am a proud product of the California educational system, graduating from Watsonville High School in 1990 and earning my Ph.D. in physical chemistry from The University of California, Berkeley in 1999. I joined the faculty at Cal Poly in 2005 because I wanted to positively impact the state of the science education pipeline in my home state. Since returning to California, I have had the good fortune to work on a number of projects that focus on this pipeline.

NOMINEE STATEMENT: I am a co-Director of the Central Coast Science Project (CCSP), a regional hub of the California Science Project. The California Science Project is dedicated to providing in-service teachers with effective professional development in science. Through a California Math and Science Partnership award the CCSP is currently running a three-year professional development program, engaging more than 70 3rd-5th grade teachers in nine local school districts. We focus on coupling high quality hands-on science with language development and literacy. This is our second such award. In each partnership we have been able to document positive impacts on student learning (as evidenced through matched control examination of STAR tests and district benchmark tests) in the classrooms of teachers who participate in our professional development programs. In addition, I have helped establish and run the Cal Poly Learn By Doing Lab (LBDL). The LBDL annually brings more than three thousand 3rd-8th grade students onto the Cal Poly campus to engage in hands-on inquiry-based science and engineering activities with Cal Poly undergraduates. This program gives visiting students a chance to explore science, engineering and the Cal Poly campus. It also gives Cal Poly students an opportunity to give back to their community and give teaching a try without leaving the campus. This project works in concert with the professional development activities of the CCSP and is supported by the College of Science and Mathematics as well as CESaME. Finally, I am engaged in science teacher preparation on the Cal Poly Campus. I am the single subject advisor for students interested in teaching Chemistry and a contributor to our NSF sponsored Noyce Fellows program. I am very excited at the prospect of collaborating with other groups and individuals in the community interested in improving the science education pipeline. I believe that natural synergies exist in the region that will help us better leverage existing resources and better attract new resources.

DR. RITA M DELKESKAMP

STAKEHOLDER AFFILIATIONS: K-12, Community

BIOGRAPHY: Rita M. Delkeskamp has served as a California teacher and administrator for the past twenty-four years. Although she taught English, her administrative roles have included supervision of science, technology, and mathematics courses. In her current position as Director of Secondary Learning and Achievement for San Luis Coastal Unified School District, she is helping to facilitate the implementation of a STEM and project-based learning instructional program. Rita and her family have resided in San Luis Obispo since 1993, raising three sons, one who attends a local public high school and two who attend Cal Poly. Providing the best education for all students has been her passion, and she seeks opportunities to serve in that capacity.

NOMINEE STATEMENT: Thank you for taking the time to vote and to support the education of our community.

PATTI GARRETT

STAKEHOLDER AFFILIATIONS: K-12

BIOGRAPHY: Patti Garrett is currently Director of Curriculum, Instruction and Educational Technology for the San Luis Obispo County Office of Education and has been in the position for 5 years. She has experience as a K-8 and Middle School Principal, Educational Technology Senior Coordinator for 5 years and a 1st - 6th grade elementary school teacher for 12 years. The majority of her classroom years were spent teaching math and science. Patti was co-chair of the P-16 STEM Steering Committee and has been a CCSTEM Advisory Committee member since its formation.

NOMINATOR ENDORSEMENT: Patti was chair of the SLO P-16 STEM Initiative that was the catalyst for the CCSTEM Education Collaborative. She was a member of the planning committee that established the first countywide STEM stakeholder conference that has evolved into the CCSTEM Education Collaborative. She is currently a member of the following CCSTEM committees: Advisory, Organization/Structure, Grants/Funding. She is a regional lead on our State Curriculum Instruction Steering Committee representing SLO, Kern, Ventura, and Santa Barbara Counties.

JOHN KELLER

STAKEHOLDER AFFILIATIONS: Higher Education

BIOGRAPHY: John Keller is an Assistant Professor in the Cal Poly Physics Department and Director of the Cal Poly Center for Excellence in Science and Mathematics Education (CESaME), which focuses on STEM teacher preparation and enhancement of STEM education for all ages. Prior to pursuing his PhD in Planetary Science, he also served as a high school science teacher and as director of a residential astronomy education center.

NOMINEE STATEMENT: As Director for CESaME, I am committed to building sustainable collaborations between Cal Poly and our community to promote STEM education for all on the Central Coast. As an example, thousands of local elementary and middle school students have participated in our Learn By Doing Lab, which offers hands on experiences taught by Cal Poly undergraduates. I am a strong believer in collaborative engagement to collectively drive systemic change and appreciate the potential that CCSTEM holds to enhance connections focused on STEM across both SLO and Santa Barbara Counties.

BRYAN REBAR

STAKEHOLDER AFFILIATIONS: Higher Education, Informal Education

BIOGRAPHY: Bryan Rebar has a variety of experience working in STEM education including roles as a: Director, STEM Teacher and Researcher (STAR) Program, Cal Poly; Lecturer, Cal Poly School of Education Single-Subject Credential Program; Researcher, Formal and Informal Science & Math Education, Cal Poly & Oregon State University; Evaluator, NOAA Oregon Coast Education Program, Charleston, OR; Consultant, SLO Children's Museum Exhibits Committee; Program Director, Desert Sun Science Center-Astrocamp, Idyllwild, CA; Naturalist, Wolf Ridge Environmental Learning Center, Finland, MN. Bryan earned Ph.D. and Master's degrees in Environmental Science at Oregon State University specializing in Science Education and studying out-of-school teaching and learning.

NOMINEE STATEMENT: As someone involved in STEM education with multiple partners (including NASA, NOAA, Department of Energy) and stakeholders (including CSU students and faculty, museums and aquariums), I bring unique perspective regarding the needs and opportunities for supporting STEM initiatives. I am especially interested in supporting afterschool STEM activities. I offer my skills to help in developing programs and partnerships with a focus on serving underrepresented groups in STEM. I have experience grant writing and can help identify and pursue opportunities for our community. With your support, I look forward to serving on the CCSTEM Board.

JULIE REIL

STAKEHOLDER AFFILIATIONS: Community

BIOGRAPHY: Education: BS in Business Administration with Concentration in Accounting. Paid work experience: Bechtel Power Corp.--Administrative Assistant, Subcontract Administration, and Accounts Payable. Non-profit experience: PTA, AHS (Atascadero) Robotics, AHS Band Boosters, Beta Sigma Phi, etc. Held most offices: primarily Treasurer, Auditor, Rec. Sec. and Newsletter Editor. Interest in Science, Math, Music and Art. Parent of an artist and a scientist/engineer.

NOMINEE STATEMENT: Wants STEM and art education in California and America to be a high priority, through education of the public AND government officials. Wants CCSTEM to have an accurate accounting system and complete communication of financial information to members. Researching possible non-profit status for CCSTEM. Wants to connect CCSTEM with school principals, science teachers and PTA's (and their newsletters, which reach parents).

WALT REIL

STAKEHOLDER AFFILIATIONS: Community, Business, Informal Education

BIOGRAPHY: Walt has worked in the power generation industry for 34 years. Over the past 20 years he has actively supported STEM education and the performing arts in Atascadero schools, designed and chaired the installation of a hands-on STEM lab at Monterey Road Elementary School, was president of the Central Coast Astronomical Society and has been a volunteer education outreach representative for NASA's Jet Propulsion Laboratory over the past seven years. Walt helped with initial development of the new CCSTEM organization.

NOMINATOR ENDORSEMENT: Mr. Reil has great passion for promoting STEM education at all age levels. He serves as an Ambassador for the NASA/JPL Solar System Program and is very knowledgeable in STEM related subjects. Walt is a willing volunteer in our schools and loves to speak and write about the need to improve STEM education in CA and the nation. Walt Reil has been an active member of the CCSTEM Advisory and Communication Committees since the founding of the organization.

PAM RICKARD

STAKEHOLDER AFFILIATIONS: K-12

BIOGRAPHY: Pam Rickard has been a science and math teacher on the Central Coast for 14 years. She is a member of the National Science Teachers Association, the Computer Science Teacher Association, and the Society of Women Engineers. She is an active member of the San Luis Obispo and Santa Barbara chapters of CUE (Computer Using Educators). She has designed a middle School STEM elective class that focuses on the engineering design process and computer science. She is a teacher member of NASA Explorer Schools. She has developed an inquiry-based, student centered biology classroom. The focus of this inquiry is constructing explanations as described in a Framework for K-12 Science Education: Practices, Crosscutting, and Core Ideas. She believes the essential elements of STEM education is eliciting student prior beliefs about science and math, challenging those beliefs with engaging projects, and giving students an authentic audience as they develop reasoning and reflection. She is developing a Mini Maker Faire (<http://makerfaire.com/mini>) for community outreach. Her resume includes Executive Producer of News for KSBY-TV and custom home designer for Crizer Design in Los Osos. She brings this design and media experience to the classroom and to CCSTEM.

NOMINEE STATEMENT: My participation in CCSTEM is to build bridges between education and community and to bring STEM support and resources to all Central Coast classrooms.

TOM STEVENS

STAKEHOLDER AFFILIATIONS: Industry/Government

BIOGRAPHY: Current Engineer with Aerospace Masters and am the 30th Launch Group Technical Director at Vandenberg Air Force Base. Volunteered to be the Vandenberg AFB STEM Point of Contact. Have been 25-year member and Associate Fellow of the American Institute of Aeronautics and Astronautics. As current AIAA Vandenberg Section Honors and Awards Chair, I've Co-chaired the Central Coast Science Fair for over 15 years. I also was part of the team that built the Endeavour Center's Get Away Special (GAS) canister that flew on the NASA Shuttle Endeavour.

NOMINEE STATEMENT: I am passionate about STEM outreach. I volunteered to be the Vandenberg Air Force Base STEM Center Point of Contact. The Air Force is interested in partnering with existing local STEM initiatives, so when I found out about CCSTEM naturally it seemed the best way to get involved. I look forward to participating with CCSTEM in the future.

PAUL TURNBULL, PHD

STAKEHOLDER AFFILIATIONS: K-12

BIOGRAPHY: Paul is the Superintendent of the Santa Ynez Valley Union High School District, which is a leader in STEM education. A former junior high and high school principal, Paul has been involved in the development of academies, innovative college partnerships, and pioneering uses of technology. His school is the only high school in the world using 3D scanning for digital preservation of historic treasures. He was the subject of a Harvard case study focusing on innovative practices in high schools, and he is a member of the University of California Santa Barbara P-20 STEM Council as well as other non-profit boards.

NOMINEE STATEMENT: I am interested in increasing access to innovative and high-quality forms of STEM instruction for all students, K - 12. To accomplish this goal, I believe that a coordinated focus on increasing the number of math, science, and engineering professionals in the educational ranks is key. I believe other key components to improving STEM opportunities for students include: high-level professional development for teachers, improving the quality of hardware and software available for teachers every day, and a comprehensive support system from private industry firms who can donate funds and area-experts on a more frequent basis.