



CCST

**CALIFORNIA COUNCIL ON
SCIENCE & TECHNOLOGY**

SUSAN HACKWOOD
CCST EXECUTIVE DIRECTOR

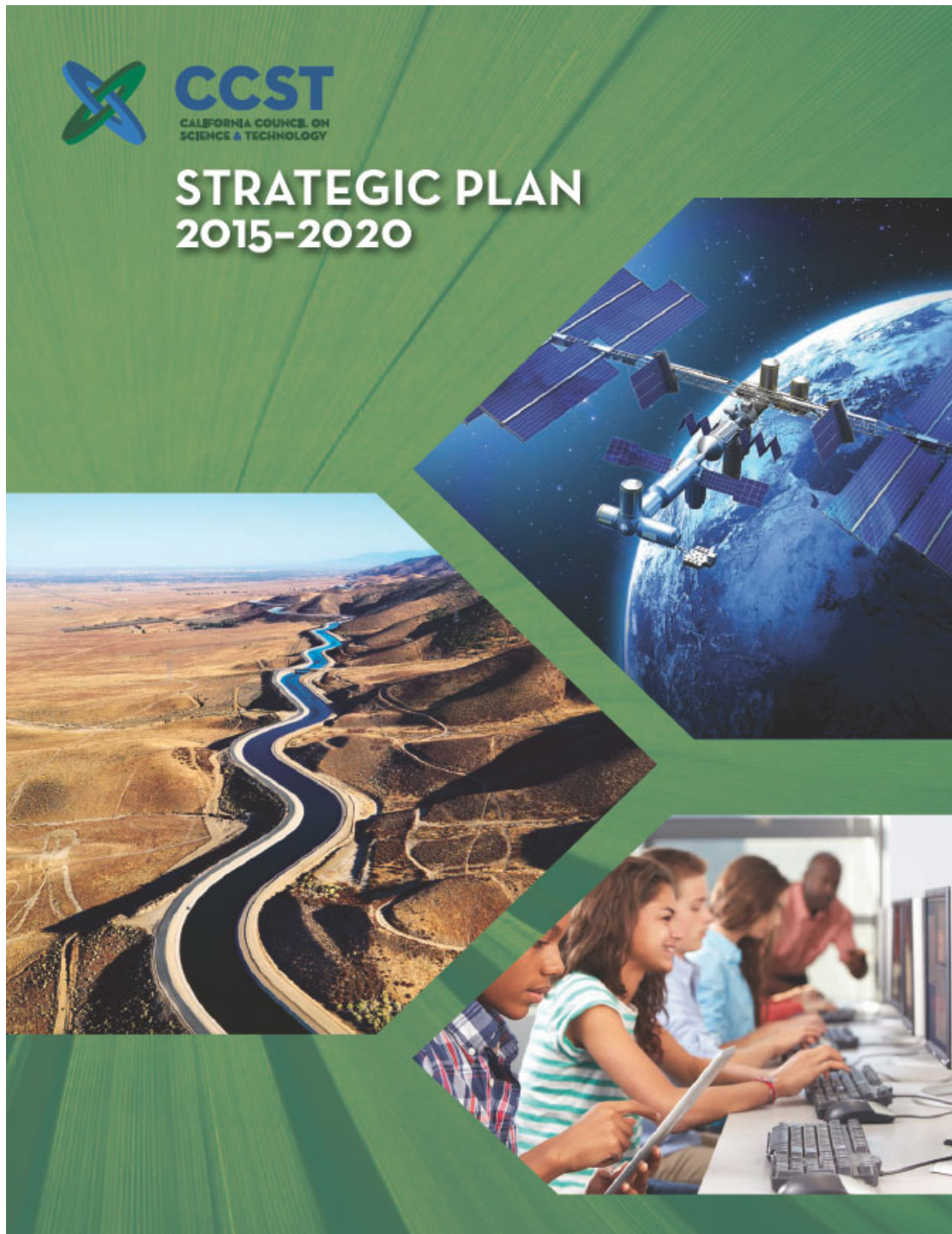
COUNCIL MEETING
OCTOBER 26, 2015

Recent Actions

- ✧ CCST Governance and Operations
- ✧ S&T Committee Progress
- ✧ CCST Projects
 - ✧ Education
 - ✧ Community College project
 - ✧ Baccalaureate modeling project
 - ✧ Well Stimulation Technologies
 - ✧ SB4 reports completed
 - ✧ DC trip
- ✧ S&T Policy Fellows
 - ✧ Alumni active
 - ✧ 7th class begins training on November 2
 - ✧ Fundraising

The CCST Strategic Plan is continuing to be implemented.

S&T Policy Fellows and CalTAC's strategic plans were completed in July.





CCST has created the five subject-matter committees to drive CCST projects. All committees have met on a regular basis. Several have held meetings with state officials and are beginning to identify areas to focus attention.

Board to deliberate on how projects are selected/funded on Oct. 26 and Council will pick up discussion.



EDUCATION PROJECTS

CALIFORNIA COMMUNITY COLLEGES

How California Community Colleges can engage in the maker/hacker space movement as a means of preparing their students for careers in STEM fields and a new opportunity for supporting entrepreneurship.

CCST producing a white paper and case studies, and this spring will begin planning a series of meetings.



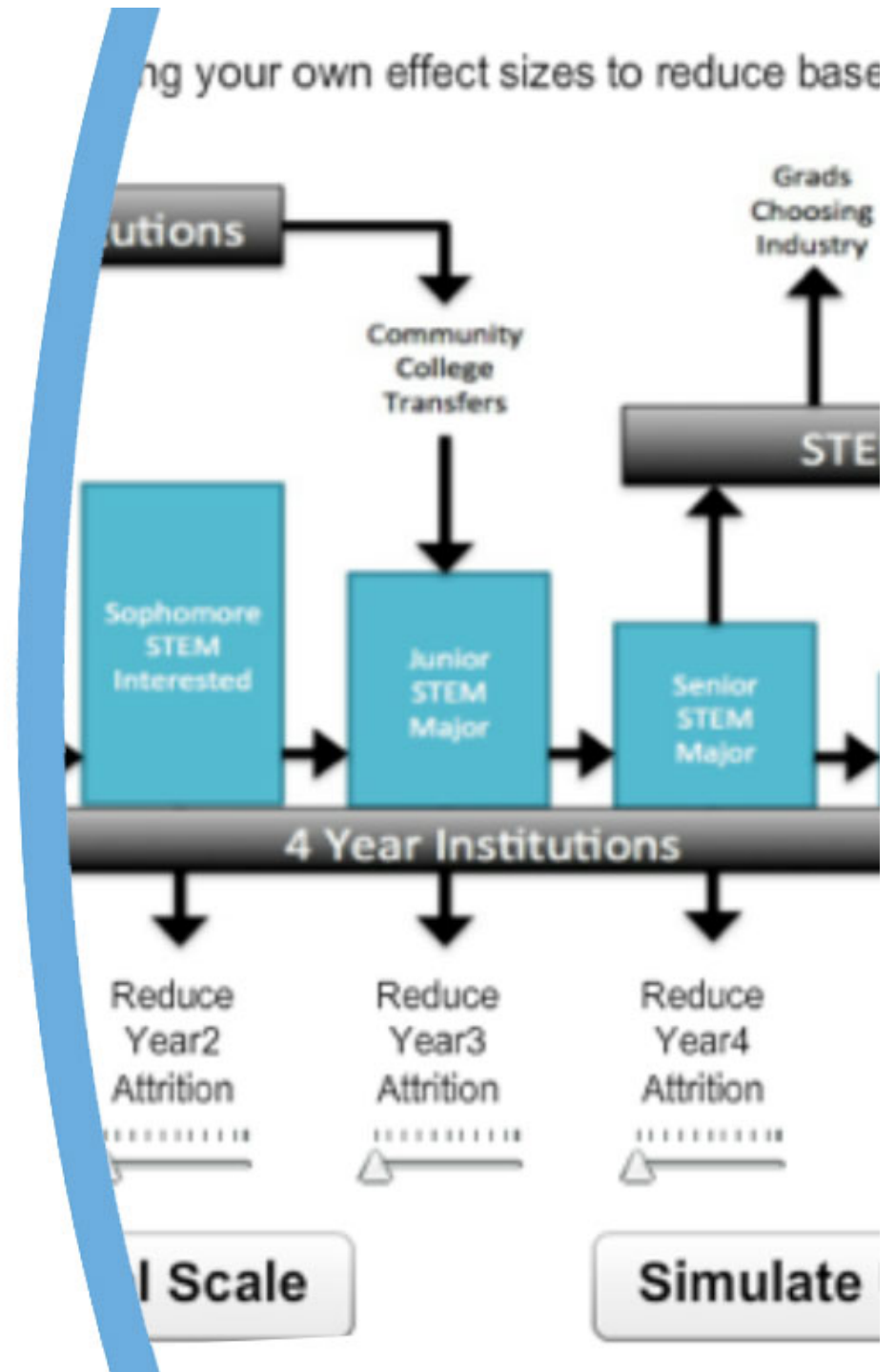
EDUCATION PROJECTS

BACCALAUREATE MODELING

Phase I is a collaboration with Cal Poly – San Luis Obispo to perform statistical analysis of student data to identify factors predicting student success.

Phases II and III have the goal of designing a systems dynamics model and adapting the model to other California undergraduate institutions.

Phase I is funded and should be completed in winter 2015/2016.





CalTAC
TEACHER ADVISORY COUNCIL

10th ANNIVERSARY





Members have spent the past year developing a strategy for moving the organization forward on four major dimensions:

1. Strengthening and increasing membership
2. Hosting three symposia, two regional and one statewide, focusing on using technology to enhance student success in Common Core Math and the Next Generation Science Standards
3. Shaping STEM education policy in California
4. Establishing the CCST Distinguished Educator Policy Fellows, modeled after the S&T Policy Fellows



This work reflects CalTAC's continuing commitment to:

- *Increase the number of fully qualified and effective STEM teachers who are enthusiastic and willing to teach in challenging schools*
- *Strengthen the teacher development pipeline to ensure the workforce is fully able to implement the Common Core State Standards and Next Generation Science Standards*
- *Boost retention rates by providing a venue for California's most accomplished teachers to grow professionally*



Partnerships/collaborations



- ✧ A significant feature of CaTAC's work continues to center on partnerships with likeminded organizations



WELL STIMULATION IN CALIFORNIA

SB4

SB4 Well Stimulation Assessment

✧ Report laid out in three volumes:

- I. Past, Present and Future Applications of Well Stimulation Technology in California
(released January 14, 2015)*
- II. Environmental Impacts of Well Stimulation Technology in California (released July 15, 2015)*
- III. Case Studies with Selected Evaluations of Environmental and Public Health Risk
(released July 15, 2015)*

There were many wide-reaching rollout activities and broad interest from policymakers and journalists. CCST briefed the Governor, Lt. Governor, Legislature, staff of the California delegation of Congress, and executives in the Natural Resources Agency and the Environmental Protection Agency.

The report has been the focus of numerous articles in the media. The Governor called for an interagency group to address the report recommendations and the state is developing an implementation plan.

Amber Mace, Jane Long, and Laura Feinstein visited DC earlier in October and briefed congressional staff on the findings and recommendations of the report.



2014-2015 FELLOWS



SCIENCE & TECHNOLOGY POLICY FELLOWS

SCIENCE & TECHNOLOGY INFORMING POLICY



SCIENCE & TECHNOLOGY POLICY FELLOWS ALUMNI

- ✧ Continue to excel in their careers
- ✧ Many still actively engaged with CCST and have representatives serving on the CCST Development Committee, Fellows Advisory Committee, and Fellows Selection Committee



2014-15 Class of Fellows ending

- ✧ The Year 6 Fellows have staffed and analyzed over 100 bills and hearings
- ✧ All have decided to stay in policy one way or another
 - ✧ Six have accepted employment in new positions:
 - ✧ Debra Cooper – Senate Office of Research
 - ✧ Angee Doerr – Center for Ocean Solutions, Stanford
 - ✧ Vivian Ericson – Office of Assembly Member Garcia
 - ✧ Christine Hochmuth – California Dept. of Finance
 - ✧ Andrew Kosydar – Office of Assembly Member Daly
 - ✧ Estevan Santana – Office of Assembly Member Bonilla
 - ✧ Scott Sellars – Scripps Institution of Oceanography

2015-16 Class of Fellows (Year Seven)



✧ Erin Arms	UCD	Genetics
✧ Emily Berry	UCSF	Cell Biology
✧ Daniel Brumbaugh	U Washington	Marine Ecology
✧ Sarah Carvill	UCSC	Environmental Studies
✧ Matthew Dumlao	UCD	Soils and Biogeochemistry
✧ Diana Lin	Stanford	Environmental Engineering
✧ Esha Mathew	U Michigan	Cell and Molecular Biology
✧ Gabriella Nepaomuceno	UCD	Chemistry
✧ Renita Polk	Johns Hopkins	Human Genetics
✧ John Thompson	Northwestern	Materials Science



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FOR MORE INFORMATION:
[HTTP://CCST.US](http://ccst.us)

UPCOMING MEETINGS:

FEBRUARY 17-18, 2016, BOARD & COUNCIL, SACRAMENTO

MAY 25-26, 2016, COUNCIL, SACRAMENTO

OCTOBER 26-27, 2016, BOARD & COUNCIL, LOCATION
TBD