



# California Council on Science and Technology

Presentation to the Board of Regents

University of California

March 20, 2008

Est. via ACR 162 in 1988

# Sam Farr and John Garamendi



CA is the leading S&T state  
UC is the greatest S&T resource

CCST is dedicated to:

1. sustaining CA's leadership role by helping policy makers make the right decisions to support S&T
2. providing the best S&T advice to CA policy makers as they try to solve the challenges faced by California

UC given a special role when CCST was created  
agreed to assume the principal financial role  
UC faculty are prominent leaders of most CCST studies

# CCST

- **16 member Governing Board**, representing California public and private institutions of higher education and industry
- Projects overseen by **Council of 30 members**, representing higher education, industry, federal laboratories
- Draw on **131 Fellows** and **12 California Teacher Advisory Council** members who volunteer their time to serve on study panels and committees
- CCST volunteers include
  - **5** Nobel Laureates
  - **81** National Academies' Members
  - **11** National Medals of Science and Technology Recipients



- **Sustaining institutions:** University of California, California State University, California Community Colleges, Stanford University, University of Southern California, California Institute of Technology
- **Affiliate members:** Lawrence Berkeley National Laboratory, Lawrence Livermore National Laboratory, Sandia National Laboratory/California, Stanford Linear Accelerator Center, NASA Ames, NASA Jet Propulsion Laboratory



SLAC



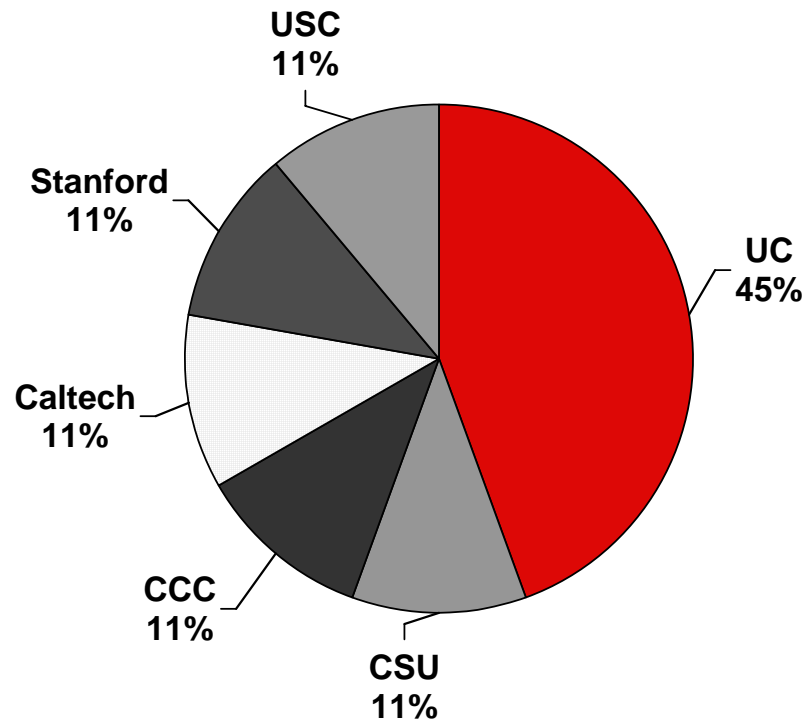
JPL

# CCST is Unique in the Nation

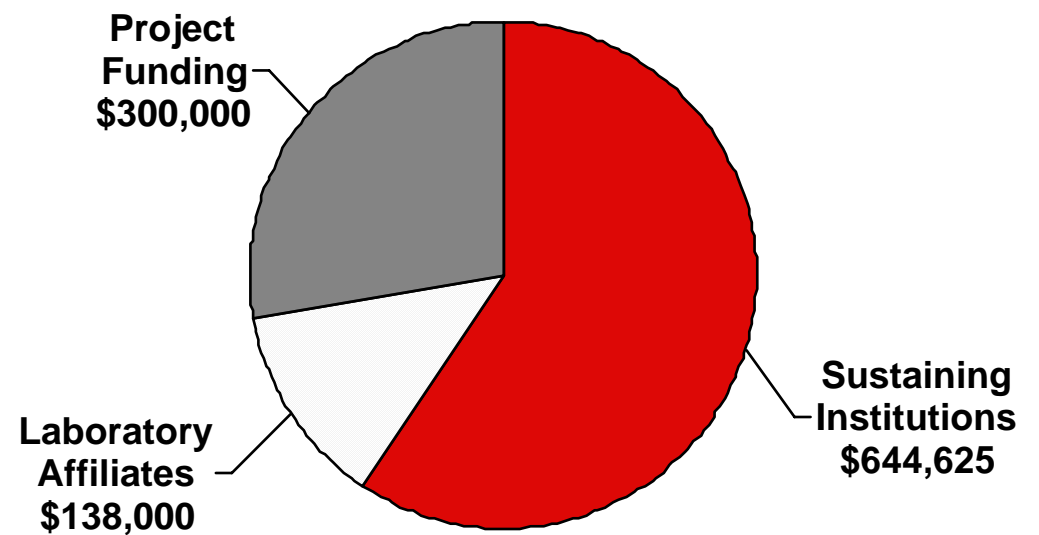
- Only organization that exists to provide S&T public policy advice to state policymakers
- At the forefront in working with other states, and national and international groups
  - National Academy of Sciences, National Academy of Engineering, and Institute of Medicine
  - The Royal Society (UK)

# UC Financial Contributions

45% of CCST Sustaining  
Institution Core Funding



25% of Total Budget



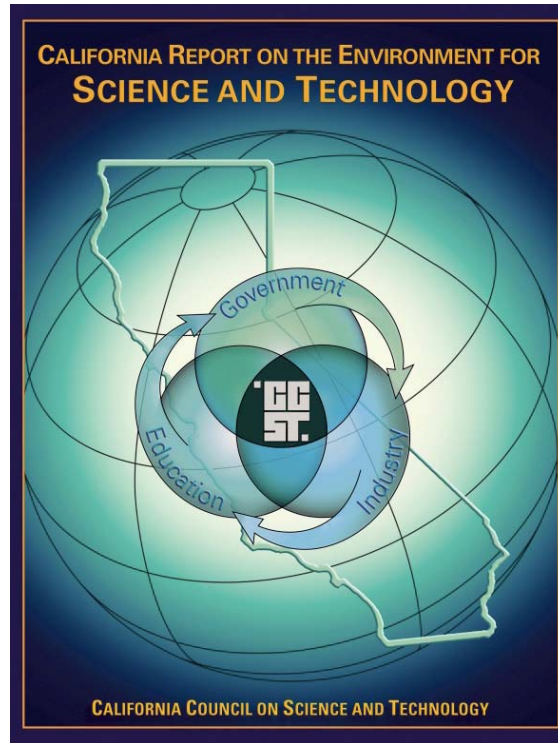
# Recent Accomplishments

All involve UC faculty and administrative leaders

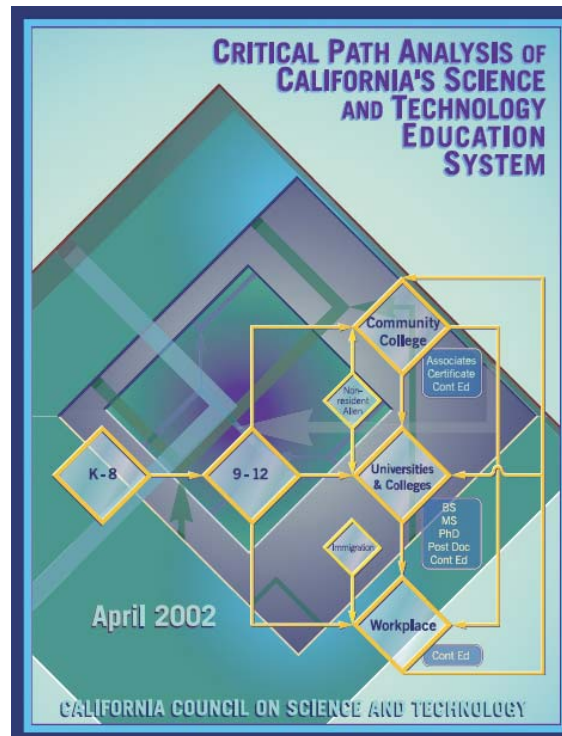
- Reviews of state Public Interest Research Program (PIER)
- Policy frameworks for IP derived from stem cell research and state funded research in California
- California's Federal Laboratories: A State Resource
- Interactions with state agency officials enabled UC to take lead on FCC proposal for telemedicine



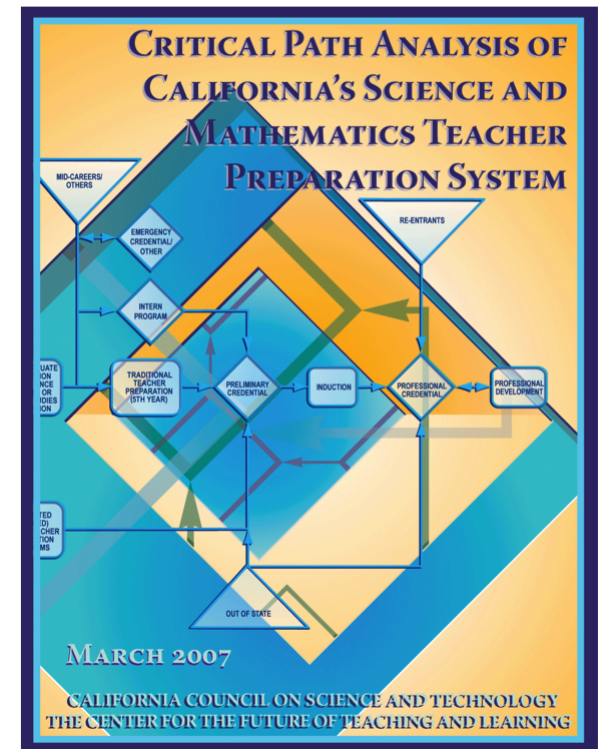
# Mapping California's science and technology education system: drilling down to details



CREST  
(1999)

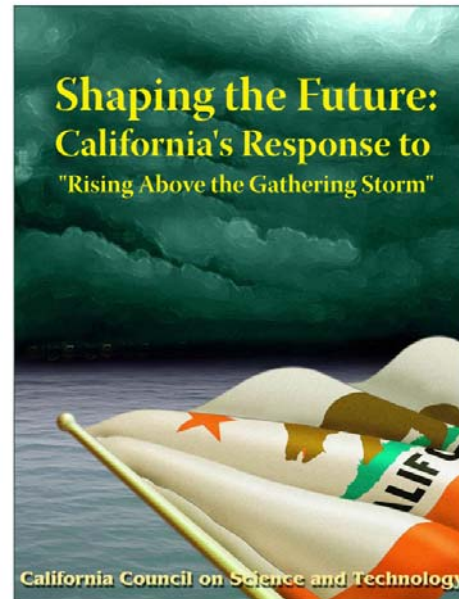
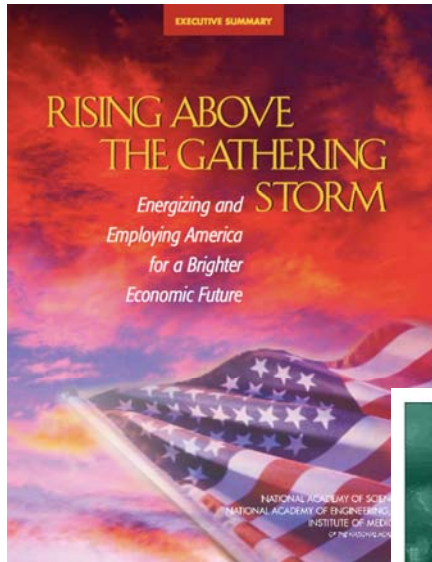


Critical Path Analysis  
(2002)



Teacher CPA  
(2007)

# CA Response to National Academies' "Rising Above the Gathering Storm"



"I would like to request that CCST use its resources - and report back to me on how the State can better understand and use the assets at its disposal to build the infrastructure needed to lead the economy of the future."

-Governor Arnold Schwarzenegger

# Current and Future Work

- Public support of proposal to CPUC for “California Institute for Climate Solutions”
- California’s physical infrastructure
  - HIT, oceans, water, energy, transportation, Regional climate change
- Biodiversity and land use management
- Science and math education

## In Summary

- UC's 20 years of support has enabled CCST to gain maturity in its responsiveness to growing state needs
- UC is a reservoir of talent to draw on to provide objective S&T advice to policymakers in the legislature and executive agencies
- Need for such advice to propose regional solutions to complex problems is increasing dramatically