

MAKING CALIFORNIA'S POLICIES

STRONGER WITHTH SCIENCE



CCST
CALIFORNIA COUNCIL ON
SCIENCE & TECHNOLOGY

2019 ANNUAL REPORT

MESSAGE FROM THE CCST BOARD CHAIR



As we continue to evolve the organization and innovate our approach, I'm proud of CCST's increasing ability to engage its network of experts and deliver actionable science advice to California decision makers. For example, as California faces larger and more destructive wildfires, we are working with our world-class partner institutions to help the state use its resources wisely and efficiently to protect Californians. Last year, we delivered a series of briefings exploring the effects on Californians and potential methods for wildfire mitigation in the state. We'll be continuing these efforts in partnership with the Moore Foundation as we assess the potential costs and losses of wildfires to the state in an upcoming peer-reviewed study.

With our 2019 class, we celebrated 10 years of CCST Science & Technology Policy Fellows, placing PhD scientists directly into State offices with decision makers. Through an innovative public-private partnership and an \$11.5 million investment from the State, we have been able to expand the CCST Science Fellows program in size, scope, and impact—increasing the number of fellows from 10 to 15 and, for the first time, offering placement in the State's Executive Branch. This expansion began with our 2020 fellows, whom we welcomed for training in November 2019. This investment, along with a \$5 million pledge from the Moore Foundation, provides the bedrock for a \$30 million endowment we envision will eventually fund the Fellowship program in perpetuity.

As we look to the future, our society faces a period of unprecedented change and uncertainty. Rapid geopolitical shifts, climate change, and the economic reverberations of a global pandemic are forcing us to reimagine the way we live and work. As decision makers confront new challenges and opportunities, science and technology have arguably never been more important to the security and prosperity of California's citizens. We look forward to helping California's leaders navigate these uncharted waters in 2020 and beyond.

— PETER COWHEY, PhD
Dean, UC San Diego School of Global Policy and Strategy



EXECUTIVE BRANCH

EXPANDING OUR SERVICES

The legislative branch
develops and writes laws.

The executive branch
implements and enforces laws.

Now, CCST Science Fellows
will help with **both**.

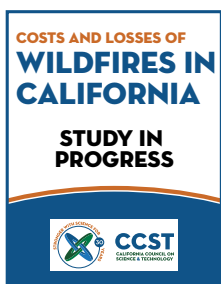
To date, Fellows have been placed in **over 50 legislative offices or committees**. Beginning with the 2020 class who arrived for training in November 2019, CCST Science Fellows will be placed into **Executive Branch** offices as well as Legislative Branch placements, in a major expansion for the program.



WILDFIRES IN CALIFORNIA A CCST EXPERT BRIEFING SERIES

URGENT ISSUES, RAPID RESPONSE

Our state has faced devastating wildfires. Decision makers were moving quickly to determine policies and procedures and needed solid information *fast*. CCST's expertise is *experts*. We convened four wildfire briefings attended by over 200 staff from the Capitol community. Four main topics were covered, including emerging technologies for real-time response, forest management practices, environmental impacts of wildfires, and the uses of woody biomass from wildfire mitigation. The featured experts were adept at communicating and accessible to decision makers.



COMING IN 2020

What are the economic impacts of wildfires in California? Recognizing that wildfires will remain a preeminent challenge for California for the foreseeable future, the **Moore Foundation** has funded CCST to produce a peer-reviewed report on the costs and losses of wildfires in California. The report will highlight key issues and synthesize the current scientific knowledge to help decision makers optimize resources for wildfire prevention, response, and recovery to protect Californians.

GORDON AND BETTY
MOORE
FOUNDATION



Back: Landon Klein, Sydney Chamberlin, Lizeth Perez, Pajau Vangay, Achintya Madduri
Front: Eric Walters, Chanel Matney, Marissa Kraynak, Samantha Tucci, Jared Ferguson

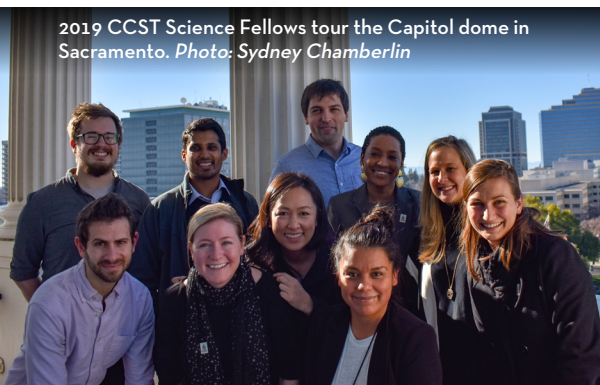
10 YEARS OF CCST SCIENCE FELLOWS

ENGAGING SCIENTISTS WITH DECISION MAKERS

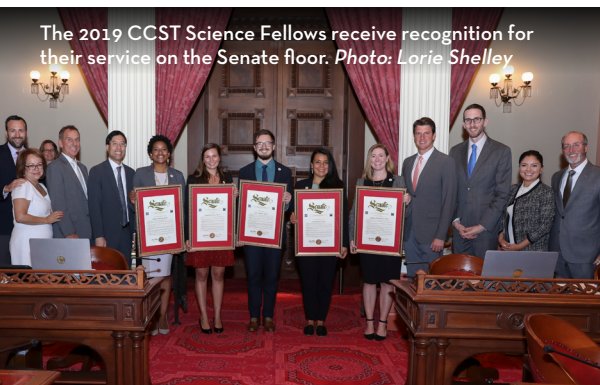
The 2019 class marked our **10th year** of placing PhDs directly into legislative offices and committees. Altogether, CCST Science Fellows have worked on **over 1,000** bills, briefings, hearings, and bill analyses. There are now **98 alumni** of the program, many of whom serve in positions in legislative offices and agencies. With the arrival of the 2020 class in November, **113 CCST Science Fellows** have now been trained to work directly with decision makers as trusted staff.

In 2019, CCST solicited an independent evaluation of the first 10 years of the program. The findings show that the fellowship has been tremendously impactful and has created a very strong reputation among fellows and mentors. Of the fellows surveyed, **88%** report currently working in a position that includes both science and policy.

2019 CCST Science Fellows tour the Capitol dome in Sacramento. Photo: Sydney Chamberlin



The 2019 CCST Science Fellows receive recognition for their service on the Senate floor. Photo: Lorie Shelley



20 CCST IN ACTION 19



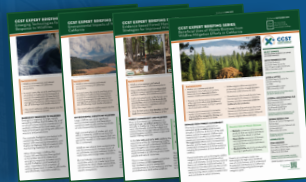
19 WILDFIRE EXPERTS

Brought to the Capitol

MORE THAN
200

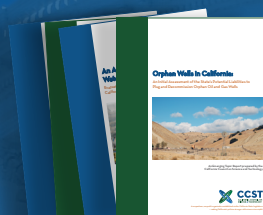
CAPITOL ATTENDEES

at 4 Wildfire Briefings



INTRODUCTORY 'ONE PAGERS'

for each Wildfire Briefing



FOUR IN-DEPTH REPORTS

In Progress



FELLOWSHIP EXPANSION

2020 Class of Fellows



98 FELLOWS ALUMNI

10 Years of Fellows

SUPPORT INTO ACTION

THANK YOU TO OUR MAJOR PARTNERS OVER 30 YEARS:

Gordon and Betty
Moore Foundation

Heising-Simons
Foundation

S.D. Bechtel, Jr.
Foundation

TOSA Family
Foundation

William H. Hurt
Philanthropy

WHH Foundation

Bill Rutter

Doug Koshland

Chan Zuckerberg
Initiative

James & Rebecca
Morgan Charitable
Foundation

Kingfisher

William and
Flora Hewlett
Foundation

Irwin and Joan
Jacobs

Buzz Woolley

Charles F. Kennel

Bruce Alberts

Ted Geballe/
Eucalyptus
Foundation

Pitch and Cathie
Johnson

The Ralph
M. Parsons
Foundation

Stuart Foundation

Corey S.

Goodman

Burton and
Deedee McMurtry

Charles Harper

Gordon Bell

Miriam E. John

Robert Byer

David W. Martin

**WE ARE GRATEFUL TO ALL OF OUR LOYAL SUPPORTERS!
THANK YOU!**

CCST SCIENCE & TECHNOLOGY WEEK

A CELEBRATION OF SCIENCE AT YOUR SERVICE



Board Chair **Peter Cowhey** and Executive Director **Amber Mace** present the CCST Science in Public Service Award to **Assemblymember Bill Quirk** (D-Hayward).



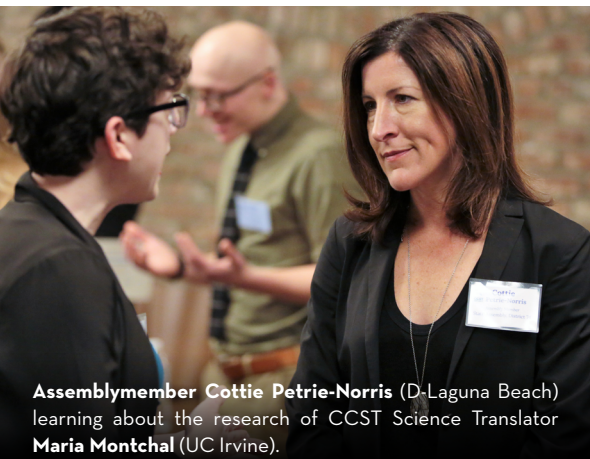
CalEPA Secretary **Jared Blumenfeld** and **Wade Crowfoot**, Secretary of Natural Resources Agency, at the CCST Leadership Roundtable.



Science Fellows Alumni **Teresa Feo** ('18), **Julianne McCall** ('17), and **Renita Polk** ('16) reunite at the S&T Week Reception.



CCST Science Translator **Stephanie Nitopi** (Stanford) presents her research to **Senator Jerry Hill** (D-San Mateo).



Assemblymember Cottie Petrie-Norris (D-Laguna Beach) learning about the research of CCST Science Translator **Maria Montchal** (UC Irvine).



Board Chair **Peter Cowhey** celebrates S&T Week with Board Members **Lisa Rossbacher** and **Eugene Tu**.



BOARD OF DIRECTORS

Peter Cowhey
Board Chair
UC SAN DIEGO

Albert Carnesale
UC LOS ANGELES

Bruce B. Darling
NATIONAL ACADEMIES

Richard C. Flagan
CALTECH

Charles E. Harper
JARIET TECHNOLOGIES

Amber Mace
Executive Director
CCST

Andrew McIlroy*
SANDIA NATIONAL LABORATORIES

Kathryn Moler
STANFORD

Ganesh Raman*
CALIFORNIA STATE UNIVERSITY

Lisa A. Rossbacher
HUMBOLDT STATE UNIVERSITY

Judith L. Swain**
Council Vice Chair
PHYSIOWAVE, INC.

James L. Sweeney**
Council Chair
STANFORD

Samuel Traina
UC MERCED

Eugene Tu
NASA AMES RESEARCH CENTER

Sheneui Weber*
CALIFORNIA COMMUNITY COLLEGES

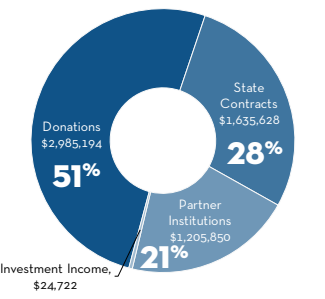
* New in 2019 ** Term Ended in 2019

REVENUES (2018)	
Donations	\$ 2,985,194
State Contracts	\$ 1,635,628
Partner Institutions	\$ 1,205,850
Investment Income	\$ 24,722
TOTAL Revenue	\$ 5,851,394

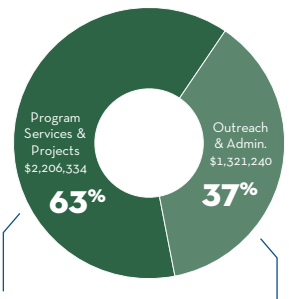
EXPENSES (2018)	
Program Services & Projects	\$ 2,206,334
Outreach & Administration	\$ 1,321,240
TOTAL Expenses	\$ 3,527,574

ENDOWMENT (2018)	
Cash on Hand	\$ 1,000,000
Pledged	\$ 4,000,000
TOTAL	\$ 5,000,000

Goal: Building a \$30 M endowment to permanently fund the CCST Science Fellows.



Program Services & Projects
 Briefings, access to experts, and other science services.



Outreach & Administration
 Outreach includes relationship building with decision makers and experts around the state.



Full financial statements, audited annually by the Cook CPA Group, are available upon request. CCST receives financial support from our partners, the State of California, and private philanthropists.

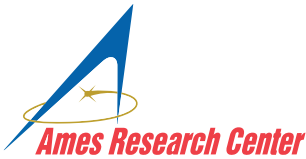
OUR PARTNERS



California
Community
Colleges

Caltech

Stanford



LEADERSHIP



BOARD CHAIR
Peter Cowhey, PhD
UC San Diego



COUNCIL CHAIR
James L. Sweeney, PhD
Stanford University



COUNCIL VICE CHAIR
Judith Swain, MD
Physiowave, Inc.



EXECUTIVE DIRECTOR
Amber Mace, PhD
CCST

For a full roster of CCST Board, Council, and Staff visit CCST.us



CCSTorg



CCSTfellows

1130 K Street, Suite 280, Sacramento, CA 95814-3965 | (916) 492-0996 | www.ccst.us

Cover Photo: California State Capitol by Will Bucquoy for CCST.