

### MESSAGE FROM THE CCST BOARD CHAIR



s I look back on a year marked by a global pandemic, powerful social justice movements, turbulent elections, megafires, and a continuing climate crisis, I'm struck by how much CCST adapted - and delivered - in this environment.

With the support of our institutional and philanthropic partners, we teamed with California's leading science and technology experts to deliver actionable advice to California policymakers. As one example, our study of the costs of wildfires, undertaken in partnership with the Gordon and Betty Moore Foundation, highlighted key gaps in how our society accounts for the costs and impacts of wildfires – for

example, the significant and increasingly deadly impacts of wildfire smoke inhalation. The study's findings have the potential to help change the conversation about how the State and federal government can use their resources most effectively to protect Californians.

We know science and technology must be essential components of our recovery from the pandemic and our preparation for future complex disasters.

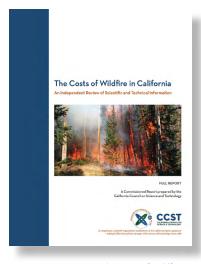
Wildfires are one component of California's increasingly complex disaster landscape. We launched a Disaster Resilience Initiative, "Toward a Resilient California," to strengthen our support to the State's efforts to manage these risks. This will be a five-year public-private partnership that enhances the delivery of actionable science advice from our network of experts to State policymakers.

Last year's calls for racial justice after the killings of George Floyd and Breonna Taylor, and the disparate impacts of California's historic wildfires and the COVID-19 pandemic, brought the consequences of systemic racism into clearer focus. Our Board, and the staff and Fellows of CCST, are passionate about making progress and are working to institutionalize diversity, equity, and inclusion throughout CCST's work. These efforts have informed our new strategic plan. We have taken several initial actions, though we know there is much work yet to be done.

We know science and technology must be essential components of our recovery from the pandemic and our preparation for future complex disasters. CCST looks forward to working with our partners in 2021 and beyond to help build a more sustainable and resilient future for all Californians.

### DISASTER RESPONSE & RESILIENCE

### TOWARD A RESILIENT CALIFORNIA



CCST's report asseses "The Costs of Wildfire in California," published October 2020.

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"Wildfire is a challenge that is not going away for California.
. . . Our report provides an improved framework for the State and recommendations to move toward sound fire management policy for California."

MICHAEL WARA, PHD, JD
CHAIR, STEERING COMMITTEE
DIRECTOR, CLIMATE AND ENERGY POLICY PROGRAM
STANFORD WOODS INSTITUTE FOR THE ENVIRONMENT

### THE COSTS OF WILDFIRE IN CALIFORNIA

Led by authors and a Steering Committee with multidisciplinary expertise, this CCST study suggests opportunities for policymakers to improve the effectiveness of wildfire management in California in several key ways: enabling regional approaches, increasing investments in mitigation and resilience strategies, and accounting for the cumulative public health impacts of exposure to multiple fire events—including the interacting effects of wildfire smoke and COVID-19. Part of CCST's ongoing efforts toward a resilient California.

### A RESILIENT CALIFORNIA

Through expert briefings on COVID-19, wildfire, blue carbon, natural pathways for carbon sequestration, negative emissions, and orphan wells, we are looking at California's long-term future for meeting its resilience and climate goals.



#### **COVID-19 EXPOSURE NOTIFICATION**

A CCST Expert Briefing discussion moderated by: **Assemblymember Jacqui Irwin**.

Dan Boneh, Stanford, Computer Science, Elect. Engineering Brandie Nonnecke, Founding Director, CITRIS Policy Lab Mike Reid, UC San Francisco, School of Medicine



#### NATURAL CARBON PATHWAYS

A CCST Expert Briefing discussion moderated by: **Rob Jackson**, Stanford, Earth System Science.

Asmeret Berhe, UC Merced, Life & Enviro. Sciences Patty Oikawa, CSU East Bay, Earth & Enviro. Sciences Matthew Potts, UC Berkeley, Env. Sci. Policy & Mgmt.



# SCIENCE & TECHNOLOGY POLICY FELLOWS

PROVIDING SCIENTISTS WITH A YEAR OF GOVERNMENT SERVICE AND LEADERSHIP TRAINING FOR A SCIENCE POLICY CAREER.

The 2020 Fellows faced historic and challenging circumstances unlike any class before it—and they rose to the occasion. When the Capitol community shifted to remote work, the Fellows quickly adapted to operating in a virtual environment and continued to make vital contributions to the work of the State, including COVID-19 response and recovery efforts and served as influential voices on antiracism. In 2020, with support from the State of California and the Gordon and Betty Moore Foundation, we increased the number of Fellows from 10 to 15, and expanded our reach to place Fellows in the Executive Branch for the first time.

The 2020 class marked our 11th 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 113 alumni of the program, many of whom serve in positions in legislative offices and agencies. With the arrival of the 2021 class in November, 128 CCST Science Fellows have now been trained to work directly with decision makers as trusted staff.

## 2020 CCST S&T POLICY FELLOWS



LA'SHAYE Cobley

PhD: Biology, University of Utah **BA:** Biology and Africana Studies, Bowdoin College



**BRYNN** Cook

PhD: Ecology, Univ. of Virginia BS: Enviro. Sciences, UC Berkeley



SIERRA Cook

PhD: Applied Physics, Cornell Univ. BA: Physics, UC Berkeley



MAY **Dobosiewicz** 

PhD: Neuroscience, The Rockefeller Univ. BSc: Pharmacology, McGill Univ.



**GRAYSON** Doucette

PhD: Materials Science, Penn State BS: Materials Science, Virginia Tech



RAE **Eaton** 

PhD: Chemistry, Univ. of Washington BA: Chem. & Biochem., Oberlin College



**CRISTINA Echeverria** 

PhD: Civil and Environmental Engineering, UCLA BS: Chem. & Biomol. Eng., UCLA



**GEOFF Hollett** 

PhD: Genetics, UC Davis BASc: Nanotechnology Engineering, Univ. of Waterloo, Canada



**JACY** Hyde

PhD: Forest Resources & Conservation, Univ. of Florida BS: Biology, Cal Poly San Luis Obispo



**KEN** McCullough

PhD: Neuroscience, Emory Univ. BA: Molecular & Cellular Biology, Lewis and Clark College



MARIA **Montchal** 

PhD: Biological Sciences, UC Irvine BA: Psychology & French, Drew Univ.



**RACHEL** Silvern

PhD: Earth & Planetary Sciences, Harvard University

BA: Enviro. Sciences, Barnard College



NIKKI Soltis

PhD: Plant Biology, UC Davis BS: Integrative Biology, UC Berkeley



MERON Tesfaye

PhD: Chemical Engineering, UC Berkeley BS: Chem. Eng., Univ. of Maryland



**EMILY** Wonder

PhD: Materials, UC Santa Barbara BA: Physics, Univ. of Chicago

February 3 - 6, 2020

# **CCST SCIENCE & TECHNOLOGY WEEK**

SCIENCE AT YOUR SERVICE: ACHIEVING CALIFORNIA'S CARBON NEUTRALITY GOALS













# **BOARD OF DIRECTORS**





**GANESH RAMAN** Chair, Diversity, Equity, and Inclusion Committee

"CCST is STRONGLY COMMITTED to making progress in diversity,

equity, and inclusion - using our immense talent and passion to create a more just environment and impact for all."

"CCST continues to develop INNOVATIVE WORK in service to California, providing analyses and recommendations on pressing issues like wildfire from a range of leading experts — with much more to come."



LISA POSSBACHER Chair, Governance & Nominations Cmte



Chair, Finance Committee

\$2,751,281

landscape but CCST has an **AMBITIOUS** and forward-thinking LONG-TERM FINANCIAL PLAN – including a \$30 million endowment for the Fellows program."

"This year presented a challenging

\* New in 2020 \*\* Term Ended in 2020 ^Non-voting Member

### **REVENUES** (2019)

| TOTAL Revenue        | \$10,278,880 |
|----------------------|--------------|
| Investment Income    | \$118,897    |
| Donations            | \$194,911    |
| Govt. Contracts      | \$392,011    |
| Partner Institutions | \$632,725    |
| Program Grants       | \$8,940,336  |

### **EXPENSES** (2019)

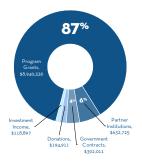
| Program Services<br>& Projects | \$1,520,791 |
|--------------------------------|-------------|
| Outreach &<br>Administration   | \$1,076,310 |
| Fundraising                    | \$154,180   |
|                                |             |

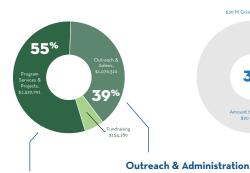
**TOTAL Expenses** 

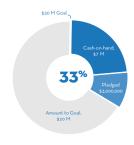
### ENDOWMENT (2019)

| TOTAL        | \$ 10,000,000 |
|--------------|---------------|
| Pledged      | \$ 3,000,000  |
| Cash on Hand | \$ 7,000,000  |

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







### **Program Services & Projects** Briefings, access to experts,

Outreach includes relationship building with decision makers and experts around the state. and other science services.

# **OUR PARTNERS**







# Caltech Stanford













### HANK YOU TO OUR

### MAJOR PARTNERS OVER 30 YEARS:

The State of California

Gordon and Betty Moore Foundation

S.D. Bechtel, Jr. Foundation

Heising-Simons Foundation

TOSA Family Foundation

William H. Hurt Philanthropy

WHH Foundation

Chan Zuckerberg Initiative

Bill Rutter

Doug Koshland

James & Rebecca Morgan Charitable

Foundation

Kingfisher

William and Flora Hewlett

Foundation

Buzz Woolley

Irwin and Joan Jacobs

Pitch and Cathie Johnson

Charles F. Kennel

Bruce Alberts

Ted Geballe/ Eucalyptus

Foundation

The Ralph M. Parsons Foundation

Stuart Foundation

Corey S. Goodman

Burton and

Deedee McMurtry

Gordon Bell

Miriam E. John

Charles Harper

Robert Byer

David W. Martin

Joseph Walkush

G CCSTorg GCSTfellows