





CALIFORNIA COUNCIL ON SCIENCE & TECHNOLOGY

CELEBRATING 35 YEARS | 1988 - 2023

The California Council on Science & Technology

Our Story

In 1988, a coalition of policymakers and institutional leaders were seeking ways to catalyze the role of science and technology in California's future direction in research, industry, and policy. The effort resulted in Assembly Concurrent Resolution 162—championed by then-Assemblymember Sam Farr and then-Senator John Garamendi—calling for the creation of CCST.

California has seen great advances and new challenges since then, and CCST has been invited as a voice of counsel at each turn. Over the past 35 years, our approach to partnering and facilitating dialogue across institutions and disciplines has allowed us to create a collective impact that exceeds what any single institution could accomplish on its own.

The pillars of our organizational identity—our core values of **service**, **independence**, and **partnership**—are anchored in our foundational commitments to diversity, equity, and inclusion.

Service

We are driven by a desire to serve and see S&T applied to public policies that provide all Californians with opportunities to participate and prosper. We connect our diverse network of S&T experts with policymakers to help them fulfill their missions.

Independence

As a nongovernmental, nonpartisan institution, we operate independently of organizations and individuals with a stake in the outcome of State policy decisions. We engage inclusively with S&T experts from a broad range of disciplines and lived experiences, serving as honest brokers of their knowledge and perspectives.

Partnership

We work across institutions, partnering with academic, research, governmental, philanthropic, and other communities to leverage their collective expertise and diverse perspectives to fulfill our mission.

OUR PARTNERS







Caltech Stanford USCUniversity of Southern California













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n 2021, we launched CCST's five-year strategic plan, "Toward a Resilient California" – a call to action that outlines three clear, measurable goals to guide our

work in this critical time for our state and the planet. They are ambitious targets that will amplify the Golden State's global leadership, driving urgent change toward a more resilient and equitable future.

We had ample opportunity to put our vision into action in 2022, as we faced the growing consequences of the climate crisis, the need for a more holistic and inclusive public health system, the imperative to build California's disaster resilience, and more. Fortunately, the values that have guided CCST for 35 years – service, independence, and partnership – helped us meet these challenges head-on.

Collaboration was especially key in 2022. By working together across our extraordinary network of partners, researchers, public servants, and philanthropists, CCST paved the way for new and creative solutions to some of our most daunting problems. We made headway on two disaster resilience efforts addressing the impacts of wildfire: our policy accelerator project with the Federation of American Scientists (FAS) to support the work of the Federal Wildland Fire Mitigation and Management Commission; and a joint project with Blue Forest linking public health to forest health via wildfire smoke, which is slated for release in late summer 2023. Assimilating lessons learned from the COVID-19 pandemic, CCST's COVID-19 Steering Committee released "California Policy Actions for Pandemic Preparation, Response, and Recovery" in summer 2022. The White Paper presented 34 recommendations for policymakers to consider in efforts to improve California's resilience to COVID-19 and prepare for future pandemics and other disasters.

Backed by California's continued dedication to policies based on science and technology, we are grateful to have the State's commitment of funding to the CCST S&T Policy Fellowship. This funding bolsters a program that benefits California in so many ways, creating career-boosting pathways to bring some of the nation's top scientific thinkers to California.

As we embark on 35 years of delivering "science at your service" to California policymakers, we have big goals still ahead of us – and it's clear that we cannot achieve these goals alone. It will take more partnerships across sectors and disciplines, as we continue to build bridges between S&T experts and policymakers, cultivating the kind of trust and collaboration that leads to informed action. And, of course, it will take our incredible community of supporters.

Thank you for being part of that community, and for your generous gifts of your time, resources and partnership as, together, we continue growing and ensuring that California leads the way toward a stronger, more resilient future.



Peter Cowhey

Board Chair UC San Diego

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Amber Mace CEO CCST



SCIENCE SERVICES

Making California's Policies Stronger with Science & Technology

We leverage California's leadership and expertise toward longterm, equitable disaster resilience for the state through **Studies**, **Expert Briefings**, **S&T Week**, **Fellows**, and more.

CCST Science Services *Projects & Publications*



California Policy Actions for Pandemic Preparation, Response, and Recovery

Knowing what we know now, how can we prepare for future pandemics and other disasters? Experts provide 34 recommendations.

CCST's Pandemic Action Plan is part of a broad effort to bring California's science and technology expertise to bear on some of the state's most critical challenges—and to advise California to emerge from disasters more resilient.

CCST assembled a subset of experts to join the CCST <u>COVID-19 Steering Committee</u>. These six experts, spanning diverse fields including the behavioral, epidemiological, and medical sciences, help drive the direction and scope of the Pandemic Action Plan of CCST's <u>Disaster</u> <u>Resilience Initiative</u>.

The Steering Committee, along with CCST staff, met with policymakers, researchers, and practitioners from across CCST's expert network to understand the challenges faced in responding to the pandemic. Drawing on their diverse expertise and experiences, the Committee developed **34**. **recommendations**, including **6 high-priority recommendations**, for policymakers to consider as a start to addressing some of these challenges. Implementing these actions would improve California's resilience to the current pandemic and to looming future pandemics.

In 2022, the Committee held two facilitated workshops with experts, and published their proceedings:

- <u>Reimagining a 21st Century</u>
 <u>Public Health System</u>
- Designing Operable Privacy Standards for Data Sharing during Public Health Emergencies

Before people move on from COVID-19, we have a narrow window to boldly reimagine and build the resilient public health system that ensures our safety and wellbeing. Climate change is already increasing the frequency and severity of disasters acting as a force multiplier of communicable and chronic disease. This is the moment in our careers to break the historic cycle of panic, lament, and neglect.



— **Dr. Rohan Radhakrishna**, Chief Equity Officer and Deputy Director of the California Department of Public Health Office of Health Equity, speaking at our COVID-19 workshop with public health experts, "Reimagining a 21st Century Public Health System."

CCST Science Services *Projects & Publications*



Graphic: FAS / Day One Project

Finding Wildfire Solutions Informed by Science

CCST is collaborating to understand the links of forest health, wildfire smoke, and public health, and to accelerate policy solutions to wildfire.

In January 2022, we announced a joint project between **CCST** and **Blue Forest Conservation** on studying the connections between forest health, wildfire smoke, and public health – with funding from the National Forest Foundation, US Endowment for Forestry and Communities, and USFS's Innovative Finance for National Forests (IFNF) grant program.

The public health impacts of wildfire smoke are a severely under-represented and under-quantified impact of recent catastrophic wildfires. This ongoing study (Summer 2023) aims to explicitly make the connection between forest management, wildfire smoke, and stakeholders that pay high healthcare costs, to identify potential motivations for investment in activities that reduce wildfire risk.

In September, 2022, CCST joined with the Federation of American Scientist's (FAS) Day One Project, COMPASS, and Conservation X Labs in a call for experts for their <u>Wildland</u> Fire Policy Accelerator. This accelerator seeks to find new policy ideas informed by science, evidence, and Indigenous perspectives. FAS will provide recommendations to the Wildland Fire Mitigation and Management Commission, tasked with providing recommendations to Congress on ways to better prevent, manage, suppress and recover from wildfires. California has been the vanguard for effective climate action in large measure because of its deliberate focus on connecting science and policy with the investments to match.

> — Amber Mace and Jun Bando. Issues in Science and Technology (Jan. 25, 2022).

THE NEXT 75 YEARS States as Laboratories for Science Policy Innovation

In January 2022, Issues in Science and Technology published "States as Laboratories for Science Policy Innovation," by Amber Mace, CCST CEO, and Jun Bando, former Senior Advisor at CCST. The essay is part of Issues in Science and Technology's "The Next 75 Years of Science Policy," available online and in a book compilation.

Read the article.



Anthologized in Issues in Science and Technology



Advancing sound policy solutions to California's major challenges

CCST Expert Briefings, often held in partnership with State leaders of peer organizations, convene leading experts from CCST's Partner Institutions and beyond to address pressing scientific and technical questions facing California policymakers. The one-hour briefings provide insights into long-term, equitable solutions for challenges ranging from climate change and extreme weather events to microgrids and salinity.

In 2022, CCST held a series of seven briefings, focused on identifying and addressing the key issues on the California policy landscape critical to ensuring long-term disaster resilience.

In the fall, we also partnered with the **Governor's Office of Planning and Research** on a series of six public roundtables for **California's Fifth Climate Change Assessment**. The series helped to identify how future research can incorporate equity, traditional knowledges, governance, economic impacts, and climate financing.

CCST Science Services Expert Briefings



Download <u>CCST's One Pager</u> documents for each briefing to learn more about the topic, discover additional resources, and connect with relevant experts.

2022 BRIEFINGS:

Climate Change Impacts on Renewable Energy

As part of CCST's **Science and Technology Week**, CCST brought together a team of experts to discuss how renewable energy sources can be impacted by extreme weather events and changing environmental conditions such as cloud cover, smoke plumes, wind speeds, and precipitation levels.

Learn More



Susan Wilhelm California Energy Commission Ranjit Deshmukh UC Santa Barbara

David Liebman Santa Rosa Community College **Melissa Lott** Columbia University

CCST Science Services *Expert Briefings*

Establishing a Data Infrastructure to Effectively Respond to the Next Disaster

In the fight against COVID-19, the scientific community worked to provide answers to policymakers and the public as quickly as possible, yet difficulties sharing data complicated their efforts. How can we support a faster, more coordinated response to future crises?

Learn More



Michael Kleeman (Mod.) COVID-19 Steering Cmte. Chair UC San Diego

Jesus Alvelo Maurosa COVID-19 Steering Committee National Science Foundation Maxine Savitz Former Vice President, Nat. Academy of Engineering

Cathleen Jones NASA JPL

The Role of Microgrids in Providing Reliable and Equitable Access to Electricity

What are microgrids and how can they improve communities' resilience during disasters, meet climate change and environmental justice goals, and help ensure all Californians have access to reliable electricity?

Learn More



Patrick Saxton (Mod.) California Public Utilities Commission Alexandra von Meier UC Berkeley **Yu Zhang** UC Santa Cruz

David Carter, P.E. Cal Poly Humboldt **Robert Flores** UC Irvine Brie Lindsey CCST

Managing Salinity in the California Delta in a Changing Climate

The Delta supplies freshwater to two-thirds of all Californians, a \$50 billion agricultural industry, and critical habitat for many protected species. Drought and sea level rise make it more difficult for water managers to meet the freshwater needs of all who rely on the Delta.

Learn More



Jay Lund UC Davis **Nigel Quinn** Berkeley Lab **Karen Kayfetz** (Mod.) Delta Stewardship Council

Amber Mace CCST Brett Milligan UC Davis

CCST Science Services Expert Briefings

Decarbonizing with Hydrogen: Challenges and Opportunities

California has made significant strides in reducing its greenhouse gas emissions, but there remain many challenges to achieving carbon neutrality by 2045. As California seeks to decarbonize its economy, how can hydrogen help to meet our renewable goals?

Learn More



Joshua White LLNL Lewis Fulton UC Davis ITS Naomi Boness (Mod.) Stanford Office of Senator Skinner

Luca Mastropasqua UC Irvine

Arun Raju UC Riverside

Decarbonizing Transportation with Hydrogen

How can hydrogen help to specifically decarbonize long haul trucking and transit? Experts discuss the functionality of hydrogen fuel cells, how they are being improved, and how hydrogen safety is being evaluated for use in transportation.

Learn More



Iryna Zenyuk UC Irvine Brian Ehrhart Sandia National Labs **Ahmet Kusoglu** Berkeley Lab

Gia Vacin (Mod.) Go-Biz Sarah Brady CCST

Jimmy Chen Stanford

Cultivating Data Security Practices in Precision Agriculture

To feed a growing population affordably and with minimal greenhouse gas production, the farming industry will need to utilize innovative technologies such as precision agriculture. What are the data security implications of using precision agriculture and how can we protect against vulnerabilities?

Learn More



Lisa Yeo UC Merced **Pramod Khargonekar** (Mod.) UC Irvine **Tiffany Drape** Virginia Tech

Chandra Krintz UC Santa Barbara **Alireza Pourreza** UC Davis

2022 Science In PUBLIC SERVICE

Recognizing public servants with a clear track record of championing science and technology issues.

Held as part of CCST's annual **Science & Technology Week**, a celebration of "Science at Your Service," CCST's Leadership Awards recognize California's champions for science and technology issues.

The **CCST Science in Public Service Award** is given to public servants with a clear track record of championing science and technology issues and who value efforts to connect science to policy. The 2022 awardees, **California Natural Resources Secretary Wade Crowfoot** and **California State Senator Lena Gonzalez**, were recognized for their career leadership on implementing science-informed solutions in California. The awardees were recognized during CCST's annual S&T Week Leadership Roundtable, bringing together leaders from our Board and Partner Institutions to connect directly with California's thought leaders to identify issues of import for CCST and California.

Watch and Subscribe:

Be sure to subscribe to CCST's YouTube channel, where you can watch Secretary Crowfoot and Senator Gonzalez receive the CCST Science in Public Service award, as well as catch all of our latest CCST Expert Briefings and other CCST events.

View the 2022 Awards (YouTube)



2022 CCST SCIENCE IN PUBLIC SERVICE AWARD

2022 CCST Leadership Award for Science in Public Service: Given to a public servant with a clear track record of championing science and technology issues and who values efforts to connect science to policy. 2022 recipients: **California Natural Resources Secretary Wade Crowfoot** and **California State Senator Lena Gonzalez**.

Wade Crowfoot California Natural Resources Secretary

During his career, Secretary Crowfoot has demonstrated an ongoing commitment to promoting policies that advance science and technology in California, while protecting its people and natural resources from the growing impacts of climate change.

As California's Natural Resources Secretary, he has made climate resilience a central priority for the state, and his tireless efforts resulted in a massive investment in addressing the effects of climate change in California's budget. Under his leadership, California has made great strides in expanding its proactive wildfire management actions while facing unprecedented challenges.

Secretary Crowfoot has been a strong advocate for the use of science in decision-making, as well as an ardent supporter of CCST. His office has also been an invaluable mentor to many CCST Science & Technology Policy Fellows, providing foundational experiences that prepare these alumni to continue working in the science policy arena.

Lena Gonzalez California State Senator

Over the course of her career, Senator Gonzalez has demonstrated an ongoing commitment to promoting policies that advance science and technology in the state — especially in her roles as Chair of the Senate Transportation Committee and the Senate Special Committee on Pandemic Emergency Response.

During the COVID-19 pandemic, her thoughtful leadership helped strengthen the state's resilience, protect vulnerable workers and communities, and ensure that California's K-12 students received much-needed support. She has worked to promote science-based policy surrounding environmental justice, transportation, and water quality, while remaining a steadfast champion in pursuing equity for all Californians, as evident in her signed Broadband for All legislation.

Additionally, Senator Gonzalez has served as a dedicated mentor to future policy professionals, including the CCST Science & Technology Policy Fellows. Tower Bridge in Sacramento, Calif. / Will Bucquoy for CCST

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18 CCST Annual Report 2022



'm amazed by all we were able to accomplish together in 2022 — a year of major growth for CCST, for our expanding team,

and for the depth and reach of our impact.

It was a year of deeper listening and broader outreach as we strengthened relationships and built new ones within the Sacramento policy community. CCST gained a wider reputation as a dynamic and responsive resource to partners and policymakers, delivering on our organizational values of service, independence, and partnership as we stayed nimble to the changing landscape and evolving priorities.

Our passionate and hardworking team stepped up to lead our Science Services and our CCST Science and Technology Policy Fellowship, drawing upon the diverse experience of CCST's expert network to address some of the state's most pressing challenges, from climate change to COVID-19.

Utilizing the skills honed by our Science Services team, we partnered with the California Governor's Office of Planning and Research to <u>identify critical research gaps</u> to study

for California's 5th Climate Change Assessment—bringing together experts and practitioners through a series of public roundtable discussions. Collaborations like this one can catalyze innovative and effective policy solutions to society's most complex problems. As CCST CEO Amber Mace and former CCST Senior Advisor Jun Bando wrote in their *Issues in Science and Technology* article:

"When crises strike, the activation of existing partnerships, together with engagement by boundary organizations, can facilitate collaboration at the speed of relevance."

 <u>"States as Laboratories for Science Policy Innovation."</u> Issues in Science and Technology (Jan. 25, 2022).

CCST is proud to be a boundary organization available to help when and where we're needed most, ensuring that science has a seat at the table during critical decision making.

Thank you for helping to make our work possible. We look forward to celebrating our 35th anniversary with you!



Sarah E. Brady

Sarah Brady PhD Deputy Director

CCST S&T POLICY FELLOWS





2022 CCST Science & Technology Policy Fellows in front of the Sacramento State Capitol / Gurleen Roberts for CCST



State and other government, trade association/ advocacy, nonprofit policy, research institutes, private industry/consulting

CCST Science & Technology Policy Fellowship

Providing scientists with a year of government service and leadership training for a science policy career.

The **2022 class of Fellows** marked our **13th year** of placing PhD-level scientists, engineers, and social scientists directly into legislative offices, policy committees, and more recently State Agencies and Offices of the Governor. The 2022 class of 16 Fellows applied their diverse technical research backgrounds in the biological sciences, materials science, sociology, developmental psychology, and oceanography, to name a few, to their work with the State of California's leading and priority-setting policy institutions.

Working in placements that included the California Governor's Office of Emergency Services, California Natural Resources Agency, Assembly Utilities and Energy Committee, Assembly Judiciary Committee, Senate Environmental Quality Committee, California Air Resources Board, and more, CCST S&T Policy Fellows made an impact across a range of policy and regulatory fields.

This year, the 2022 class began their Fellowship training at CCST's Sacramento headquarters, returning in person after last year's virtual training program. For many of them, this was their first time living in California. During their training, the Fellows dove into California's rich political history and learned how California's policymaking process works, from idea to implementation.

Altogether, CCST S&T Policy Fellows have worked on **over 1,300** bills, briefings, hearings, and bill analyses. There are now <u>144 alumni</u> of the program, many of whom serve in positions in legislative offices and agencies.

With the arrival of the 2023 class in November, **158 Fellows** have now been trained to work directly with policymakers as trusted staff. Further, **96%** of fellows recently surveyed were likely to recommend CCST to other scientists and engineers.

2022 CCST S&T Policy Fellows

Assembly Senate Executive Branch



Javier A. Garcia PhD: Biochem., Molecular, Cellular, and Developm. Biology, UC Davis BS: Bio. & Animal Sci., CSU Fresno



Manar Zaghlula

PhD: Translational Bio. and Molec. Medicine, Baylor College of Medicine BS: Bio. and Chem., George Wash. U.



Zoe R. Guttman PhD: Neuroscience, UCLA BS: Neural Science & Psych., NYU



Michael Karavolias

PhD: Chem. Engin., Univ. of Minnesota **BS:** Chem. Engin., Univ. of Delaware



Aaron Kurz

PhD: Environmental Biogeochemistry, University of Michigan **BS:** Earth and Enviro. Sciences, Univ. of Michigan



Stephen Cutie PhD: Bioengineering, UCSF - UC Berkeley BS: Biology, University of Miami



Jacob O'Connor PhD: Biochemistry, Univ. of Washington

BA: Biochem., Biophys. and Molec. Bio., Whitman College



Montrai A. Spikes

PhD: Ecology and Evolutionary Biology, University of OklahomaBS: Biological Sciences, University of Missouri-Columbia



Natalie Seitzman PhD: Materials Science, Colorado School of Mines BS: Chemistry, Trinity University



Andrew Dawson PhD: Chemistry, UCLA BS: Chemistry, UC Santa Barbara



Alexandra Colón-Rodríguez

PhD: Neuro. & Enviro. Tox., Michigan State U. BS: Univ. Ana G Méndez, Recinto de Carolina



Agnes Varghese

PhD: Developmental Psych., UC Riverside BA: Broadcast Journalism BS: Psych., Univ. of Maryland, College Park



Alec Watts PhD: Sociology, Stanford BA: Political Science & Sociology, Univ. of Georgia



Hannah E. Frye

PhD: Neuroscience, Wash. U. in St. Louis BS: Chemistry w/ Biochem. emphasis, Missouri Univ. of Sci. & Tech.



Natalie Gasca

PhD: Biostatistics, Univ. of Washington **BS:** Mathematics, Cal Poly Pomona



Kara Voss

PhD: Oceanography, UC San Diego **BS:** Marine and Atmospheric Science, University of Miami

Fellows Perspectives

Fellows share their journey from science research to California State policy on our blog.

•	Making the Move (Lite Science Policy in Sacra Hannah Frye, PhD ('22)	erally): From Science to mento
•	The Keyword? Adapta Transition from Science Montrai Spikes, PhD ('22)	bility. Making the Career e to Policy
•	Building Bridges: From Science Policy Stephen Cutie, PhD ('22)	Bioengineering to
•	From Biostatistics to P with Natalie Gasca Natalie Gasca, PhD ('22)	esticide Policy: Q&A
•	Assessing Climate Risk Like An 'Inverted Delt Kara Voss, PhD ('22)	a – My Fellowship Year: a'
•	Plugging In: Finding M Energy and Utilities Po Natalie Seitzman, PhD ('22)	y Space in California dicy
•	The Many California Ex Golden State Through Agnes Varghese, PhD ('22)	xperiences: Understanding the Disaster Recovery and Mitigation
	California Policymakers Signify Enduring Value of CCST to the State by	Alumni Encourage Future Science Policy Talents on Fellowship

Celebration Day

Investing in Fellows

In The News:

As important as research is, its successful translation into public messaging and policy is vital to tangibly improving the health and wellbeing of others.



NATALIE GASCA, PhD '22 Placed with the California Department of Pesticide Regulation within the California Environmental Protection Agency.

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Theresa Maldonado UC Office of the President Vice President for Research & Innovation



Eugene Tu NASA's Ames Research Center Center Director

AUDITED FINANCIALS (2022)

Revenues		
State Contributions	\$10,000,000	
Partner Institutions	\$873,708	
Donations	\$470,217	
Program Grants	\$17,333	
Sum Positive Rev.	\$11,361,258	
Investment Loss	\$(2,782,204)	
TOTAL Revenue	\$8,579,054	



ExpensesProgram Services
& Projects\$2,604,365Outreach &
Administration\$1,089,246Fundraising\$262,473TOTAL Expenses\$3,956,084

Full financial statements, audited annually, are available <u>upon request</u>. CCST receives financial support from our partners, the State of California, and private philanthropists.





Program Services & Projects

Fellows, studies, briefings, workshops, & more.



Outreach & Administration

Relationship building with policymakers and experts.



Fundraising

Donor relationships and opportunity management.

Fellows Endowment

Goal:

Building a \$30 M endowment to permanently fund the CCST S&T Policy Fellows program.



Making Progress:

As of December 2022, we are now two thirds of the way to our endowment goal for the Fellowship with \$20 M on hand.

Thank you to our major supporters over the last 10 years:

The State of California Gordon and Betty Moore Foundation S.D. Bechtel, Jr. Foundation WHH Foundation **TOSA** Family Foundation Heising-Simons Foundation Chan Zuckerberg Initiative The Koshland Foundation / Doug Koshland & Mary Porter Buzz Woolley James & Rebecca Morgan Charitable Foundation The Rutter Foundation Jewish Community Foundation / Irwin and Joan Jacobs William and Flora Hewlett Foundation Pitch and Cathie Johnson Alan G. Lehman & Jane A. Lehman Foundation / Charles Kennel

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Loring & Beverly Wyllie

Alan & Annamarie Louie

Now More Than Ever

California is playing a leading role in creating and implementing effective policy that is informed by science. CCST is a unique, trusted, and impartial resource for science and policy partnerships with California policymakers. Learn how you can support us at **CCST.us/Donate**.



Making California's Policies Stronger with Science and Technology Since 1988.

G S in @CCSTorg / G S @CCSTfellows

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