

The Divisions of Physical & Biological Sciences and Social Sciences are proud to present

THE FOURTH ANNUAL UCSC CLIMATE CONFERENCE

Changing Climate

Acting Now to Secure a Sustainable Future



Friday February 24, 2017 Media Theater 110 7:30pm Keynote Lecture: **Veerabhadran Ramanathan**Climate Change Morphing into
an Existential Threat: Need for a New Approach

Saturday February 25, 2017 Colleges 9/10 Multipurpose Room 10:00AM: Engineering Change

Moderator: Sue Carter Physics, UC Santa Cruz

Panelists: David Auston Institute for Energy Efficiency, UC Santa Barbara

Peter Cartwright Avalon Ecopower, Calpine (formerly)

Daniel Shugar NEXTracker, Fremont

Whendee Silver Environmental Science, Policy & Management, UC Berkeley

1:00PM: Motivating Change

Moderator: **Jeff Bury** Environmental Studies, UC Santa Cruz

Panelists: Mark Jacobson Civil & Environmental Engineering, Stanford

Derek Proudian Daintree Networks, Los Altos

Dylan Sullivan Natural Resources Defense Council, San Francisco Emily Wimberger California Air Resources Board, Sacramento

3:00PM: Communicating Change

Moderator: Rob Irion Science Communication Program, UC Santa Cruz

Panelists: Susan Hassol Climate Communication

Laura Helmuth Washington Post

Jeff Kiehl National Center for Atmospheric Research, UC Santa Cruz

Edward Maibach Center for Climate Change Communication, George Mason University

7:30_{PM}: The Fred Keeley Lecture on Environmental Policy

Climate Change Science and Policy in a President Trump Administration

Moderator: Fred Keeley

Three-term member of California State Assembly and recently retired Treasurer of Santa Cruz County

Panelists: **Ken Alex** Senior Policy Advisor to Governor Brown (Stevenson College, Politics, 1979)

Miriam Greenberg Sociology, UC Santa Cruz

John Laird Secretary of the California Natural Resources Agency (Stevenson College, Politics, 1972)

Erika Zavaleta Ecology & Evolutionary Biology, UC Santa Cruz

For more information visit http://pbsci.ucsc.edu/2017-climate-conference/index.html

Friday Keynote Speaker: Veerabhadran Ramanathan

Veerabhadran discovered the greenhouse effect of halocarbons, particularly CFCs, in 1975. Along with R. Madden, he predicted in 1980 that global warming would be detected by 2000. He has won numerous prestigious awards, including the Tyler Prize, which is the top environmental prize given in the U.S., the Volvo Prize, the Rossby Prize, the Zayed Prize, and the 2013 Champions of Earth for Science and Innovation Award from the United Nations. He currently serves on Pope Francis' Council for the Pontifical Academy of Sciences and chairs an international science team from Asia, Africa, and Latin America under the Atmospheric Brown Clouds Program sponsored by the United Nations Environmental Programme.

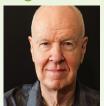


Engineering Change



Sue Carter
Physics, Associate Vice Provost
Division of Graduate Studies
UC Santa Cruz

Sue has expertise in thinfilm, solution-deposited semiconducting films. Her research laboratory focuses on energy-related technology including photovoltaics, solid-state lighting, and luminescent solar concentrators.



David Auston Institute for Energy Efficiency UC Santa Barbara

David's research focuses on climate change mitigation. The University of California President recently designated him the first recipient of the UC System Wide Sustainability Champion award, in recognition of his contributions to the UC Carbon Neutrality Initiative.



Peter Cartwright
Avalon Ecopower
Calpine (formerly)

Pete's career in the domestic and international power markets has included fossil fuels, nuclear, and renewables. He founded Calpine, a leading independent power company, and today acts as a power industry consultant advisor.



Daniel Shugar NEXTracker, Fremont

Dan helped build NEXTracker into one of the fastest growing cleantech companies in the U.S. Before he started NEXTracker, he served as CEO for the innovative cell manufacturer Solaria Corporation.



Whendee Silver
Environmental Science
Policy & Management
UC Berkelev

Whendee studies the biogeochemical effects of climate change and human impacts on the environment, and the potential for mitigating those effects. Her research includes studying the effects of deforestation, reforestation, and land-use on carbon sequestration.

Motivating Change



Jeff Bury Associate Professor Environmental Studies, UC Santa Cruz

Jeff's research is concerned with the transformation of natural and social environments in Latin America, recently focusing on new frontiers of extractive industries in the Andes and the political economy of climate change and glacier recession in the Cordillera Blanca (Peru).



Mark Jacobson
Civil & Environmental Engineering
Stanford

Mark directs the Atmosphere/Energy Program at Stanford University. His areas of research include renewable energy and developing state and country energy plans for 100% wind, water, and solar energy. In that work he co-founded The Solutions Project.



Derek Proudian
Daintree Networks
Los Altos

Derek has three decades of experience in high-tech finance, marketing and engineering leadership. Before joining Daintree, he held CEO roles at five venture-capital backed companies, including Zip2 (Elon Musk's first company).



Dylan SullivanNatural Resources Defense Council,
San Francisco

Dylan works to reduce carbon emissions in the electricity sector, engaging collaboratively with electric utilities, big energy users, trade associations, and consumer advocates to implement clean energy policies and programs.



Emily WimbergerCalifornia Air Resources Board,
Sacramento

Emily is the chief economist at the California Air Resources Board, where she advises the Executive Office and Chairman on economic issues and leads a team of economists working to support ARB's economic analyses.

Communicating Change



Rob Irion Science Communication Program UC Santa Cruz

Rob is a journalist who has written for a range of publications including Science, National Geographic, Smithsonian, Scientific American, Discover, New Scientist, and Slate. He directed the UC Santa Cruz Science Communication Program for ten years.



Susan Hassol Climate Communication

Susan is a climate change communicator, analyst, and author known for her ability to make complex issues accessible to a wide variety of audiences. Among her work, she edited all three U.S. National Climate



Laura Helmuth Washington Post

Laura is the editor of the Washington Post's health, science and environment team and is president of the National Association of Science Writers. She was previously an editor at National Geographic and Slate.



Jeff KiehlNational Center for
Atmospheric Research
UC Santa Cruz

Jeff's research focuses on a range of topics about climate change, including the Earth's deep past climates and what they can tell us about future climate change, effects on biodiversity, and the hydrologic cycle



Edward Maibach
Center for Climate Change
Communication
George Mason University
Edward directs the
Center for Climate Change

Center for Climate Change Communication at George Mason University. He recently co-chaired the Engagement & Communication Working Group for the 3rd National Climate Assessment.

The Fred Keeley Lecture on Environmental Policy

Moderator: Fred Keeley

Three-term member of California State Assembly and recently retired Treasurer of Santa Cruz County

Fred is a state and national ocean policy leader. As a California legislator, Fred authored the Marine Life Management Act and California Ocean Science Trust Act, co-authored the Marine Life Protection Act, and authored the two largest environmental protection bonds in the nation's history. Fred serves on the board of Ocean Champions, a national non-profit organization that supports pro-ocean protection candidates for election to the House of Representatives and the United States Senate. Recently, Fred led the effort that resulted in President Obama designating the Cotoni-Coast Dairies property in Santa Cruz County as the nation's newest National Monument. Fred is on faculty in the graduate program of public administration at San Jose State University, and at the Panetta Institute for Public Policy.





Ken AlexSenior Policy Advisor to Jerry Brown
Stevenson College, Politics

Ken is a Senior Policy
Advisor to Governor
Jerry Brown and the
Director of the Governor's
Office of Planning and
Research, focusing on
energy, environment,
and land-use. He is a
graduate of Harvard
Law School and
UC Santa Cruz.



Miriam Greenberg Professor, Sociology UC Santa Cruz

Miriam's research interests include urban studies, environmental studies, and crisis and sustainability. She has studied how forms of inequality and risk have helped turn discrete disasters into longer-term crises in major cities.



John Laird Secretary of the California Natural Resources Agency Stevenson College, Politics

John was appointed
California Secretary for
Natural Resources by
Governor Jerry Brown in
2011. In nearly 40 years
of public service he has
also served as an elected
official, including on the
Santa Cruz City Council,
two terms as Santa Cruz
Mayor, and three terms in
the California Assembly.



Erika Zavaleta
Professor, Ecology
and Evolutionary Biology
UC Santa Cruz

Erika studies the drivers and consequences of changing biological diversity and the role of ecology in guiding effective conservation practices. She strives to bridge ecological theory, training, and research, with sound conservation and management practice.