



Carbon Capture and Sequestration Symposium
September 29, 2022
University Plaza Waterfront Hotel
Stockton, CA

Symposium Goal: To create a space for a diverse group of stakeholders—academics, environmental justice (EJ) stakeholders, and state and federal policymakers to discuss environmental and public health concerns and challenges related to the use of Carbon Capture and Sequestration (CCS) technology to inform current policy and regulatory processes, with a focus on potential impacts on local communities and ideas for health protective measures.

AGENDA

Registration and Arrival	8:30 am (30 min)
Welcome	9:00 am (45 min)
Facilitator	
<ul style="list-style-type: none">Lori Lewis, Chaordic Balance/Eastern Research Group	
Government Agencies	
<ul style="list-style-type: none">Martha Guzman, Regional Administrator, EPA Region 9Liane Randolph, Chair, California Air Resources BoardYana Garcia, Secretary, CalEPA (Virtual)	
Local Hosts	
<ul style="list-style-type: none">Matt Holmes, Environmental Justice Director, Little Manila RisingAnn Rogan, Founder and CEO, Edge Collaborative	
Academic Partner and Co-host	
<ul style="list-style-type: none">Michael Wara, Interim Policy Director, Sustainability Accelerator, Stanford Doerr School of Sustainability & Director, Climate and Energy Policy Program and Senior Research Scholar at the Woods Institute for the Environment	
Opening Keynote	9:45 am (45 min)
Topic: Carbon Capture and Sequestration (CCS) and Carbon Dioxide Removal (CDR) 101	
<ul style="list-style-type: none">Jennifer Wilcox, Principal Deputy Assistant Secretary, Office of Fossil Energy and Carbon Management, US Department of Energy	
Break	10:30 am (15 min)
PANEL 1: Carbon Capture: Issues, Impacts, Risks & Mitigation	10:45 am (60 min)
Moderator: Genevieve Amsalem, Central CA Environmental Justice Network	
Topic: Carbon capture differences between capture at refineries, power plants, bioenergy with CCS (BECCS), and cement (5 min)	
<ul style="list-style-type: none">Meron Tesfaye, Bipartisan Policy Center (Virtual)	
Topic: Energy and water required to run capture technology (parasitic loads) (10 min)	
<ul style="list-style-type: none">Howard Herzog, Senior Research Engineer, MIT (Virtual)	

Topic: Local air quality impacts associated with carbon capture retrofits at industrial and power facilities (5 min each)

- Shaye Wolf, Center for Biological Diversity
- John Thompson, Technology and Markets Director, Clean Air Task Force (Virtual)

Audience Questions and Discussion

Lunch **11:45 am (60 min)**

PANEL 2: CO2 Transportation: Issues, Impacts, Risks & Mitigation **12:45 pm (60 min)**

Moderator: Justin Ong, California Public Utilities Commission

Topic: CO2 pipeline risks including ruptures and leaks (5 min each)

- Chris Ruhl, Director, Accident Investigation Division, Pipeline and Hazardous Materials Safety Administration
- Amanda McKay, Pipeline Safety Trust

Topic: Health impacts of potential massive CO2 leaks related to transportation (5 min)

- Ted Schettler, MD, Science Director, Science and Environmental Health Network (Virtual)

Audience Questions and Discussion

Break **1:45 pm (15 min)**

PANEL 3: Geologic Storage of CO2: Issues, Impacts, Risks & Mitigation **2:00 pm (75 min)**

Moderator: Sarah Saltzer, Managing Director, Stanford Center for Carbon Storage

Topic: Overview of different types of storage including saline, depleted oil and gas with no enhanced oil recovery (EOR), CO2 EOR (5 min)

- Preston Jordan, Principal Scientific Engineering Associate, Lawrence Berkeley National Lab

Topic: Risks of induced seismicity and earthquakes from injection of CO2 (5 min)

- Brian McPherson, Professor, University of Utah

Topic: Risk of leakage to surface through wells, faults, etc. (5 min)

- Julio Friedmann, Chief Scientist, Carbon Direct

Topics: Risks to groundwater from injection of CO2 (5 min)

- Evan Hansen, President, Downstream Strategies (Virtual)

Topic: What do good plume monitoring plans look like? (5 min)

- Julio Friedmann, Chief Scientist, Carbon Direct

Audience Questions and Discussion

PANEL 4: Real World Implications of a CCS Project **3:15 pm (60 min)**

Moderator: Daniela Simunovic, California Air Resources Board

Topic: Public health considerations (5 min)

- Seth Shonkoff, PSE Healthy Energy

Topic: Lifecycle analysis and key considerations for local communities (5 min)

- Emily Grubert, Professor, Notre Dame

Topic: Environmental justice community concerns (5 min each)

- Gustavo Aguirre Jr., Central California Environmental Justice Network
- Connie Cho, Communities for a Better Environment
- Barbara Barrigan-Parrilla, Restore the Delta

Audience Questions and Discussion

Closing Remarks **4:15 pm (15 min)**

Adjourn **4:30 pm**