# Workshop: Carbon Management and Community Impacts in the Gulf Region

## *Please register by April 1st*

## by invitation only

**RSVPs Closed**

# About

Federal and state subsidies to advance carbon capture, utilization, and storage (CCUS) have created a boom in construction and planning of CCUS projects and hubs in the Gulf region, with as many as 14 different local CCUS hubs within Texas planned or under construction. The development of this industrial technology has the potential to reduce greenhouse gas emissions substantially from states that produce close to one fifth of total U.S. emissions. However, fenceline communities have long suffered disproportional burden from pollution from industrial zones where CCUS will be deployed, and questions remain about the impact of this transformation on those living there.

The goal of this workshop is to bring together community groups, public and private sector representatives, and academics to discuss the implications of recent buildout of CCUS hubs, recent federal action (IIJA, IRA, and federal regs), and the new federal initiatives and their implications for health, social, and economic impact for communities in the Gulf Region of Texas. Four sessions will distill conversations around questions such as: how can regulators and commercial operators enhance social license around CCUS deployment, and what are community perspectives around equitable approaches to that process? How is CCUS deployment affecting communities economically, and how can they prepare for the future (e.g., through workforce development)? What are the known (and potentially unknown) health impacts of these technologies, and how can communities be better informed and compensated for their damages?

# When

Monday, April 14, 2025
9:15 AM - 4:00 PM CDT

# Where

Reaud Executive Center, The Wayne A. Reaud Building, Lamar University
985 Jim Gilligan Way, Beaumont , TX 77705

# Schedule

**9:15 AM**

## Registration

**9:45 AM**

## Introduction & Overview

**10:00 AM**

## Presentation: Houston CCS Alliance

Scott Castleman, LSG

**10:30 AM**

## Presentation: Low Carbon Solutions with ExxonMob

Marcus Asmann, ExxonMobil

**11:00 AM**

## Break

**11:30 AM**

## Panel 1: Community Voice & Social License

Sergio Castellanos, UT Austin (Moderator)

Yaneth Barton, Houston Advanced Research Center

Jennifer Hadayia, Air Alliance Houston

Erandi Treviño, TX CCS Community Advocacy Coalition

**12:30 PM**

## Lunch

**1:30 PM**

## Panel 2: Jobs, Community Benefits, & Economic Security

Hugh Daigle, UT Austin (Moderator)

Ramón Gil-Egui, UT Austin



Paloma Pareja Fernandez, ExxonMobil

Matt Patton, AngelouEconomics

**2:30 PM**

## Break

**2:45 PM**

## Panel 3: Health & Community Impact

Andrew Waxman, UT Austin (Moderator)

Monika Ehrman, Southern Methodist University

Amy Jordan, Carbon Solutions

**3:45 PM**

## Presentation: Great Plains Institute

Texas Carbon Management Roadmap

**3:50 PM**

## Final Remarks

**4:00 PM**

## Adjourn



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# Panelists & Speakers

## Scott Castleman

Executive Vice President, LSG

Scott Castleman is an executive vice president at LSG, bringing 20-plus years of experience in public affairs, communications, and digital content development. Scott leads LSG's Houston office, supporting clients like the Houston CCS Alliance in advancing their collective communications and community relations priorities.

In his role with the Houston CCS Alliance, Scott leads the organization's engagement and education efforts across the Texas gulf coast and beyond, supporting Alliance member companies as they communicate the larger role carbon capture and storage can play in Texas.

## Marcus Asmann

CCS Venture Lead, ExxonMobil

Marcus is currently CCS Venture Lead responsible for developing ExxonMobil's carbon capture and sequestration projects in Texas. He received his Bachelor of Science degree in Mechanical Engineering from Temple University, Master of Science and Doctor of Philosophy in Mechanical Engineering with a minor in Material Science from the University of Minnesota. Since joining ExxonMobil, he has had a variety of technical, planning and managerial roles in its Upstream Research Company, Development Company and Exploration & Production Romania Limited before joining ExxonMobil Low Carbon Solutions in 2022.

## Sergio Castellanos, PhD

Assistant Professor, UT Austin

Sergio Castellanos is an assistant professor in the Maseeh Department of Civil, Architectural, and Environmental Engineering, where he leads the RESET (Rapid, Equitable & Sustainable Energy Transitions) Lab, analyzing just decarbonization pathways for emerging economies, data-driven sustainable transportation approaches, and equitable local energy transitions. With collaborators, his interdisciplinary projects have been awarded international prizes, won national competitions, and gathered media attention. He has also received recognition from environmental justice organizations in recognition of his leadership and transformative work to help better communities in Austin.

## Yaneth Barton

Community Engagement & Resilience Manager, HARC

Yaneth Barton (formerly Calderon) is HARC's Community Engagement and Resilience Manager. She is responsible for building strong relationships with underrepresented communities, facilitating communication between communities and project sponsors and decision-makers, and collaborating with teams across various industries to create opportunities for meaningful two-way engagement. Yaneth manages HARC's community engagement activities for the HyVelocity Hydrogen Hub, Texas Solar for All Coalition, and community change initiatives.

Yaneth brings over eight years of experiences in program management, commun and crisis response to HARC. She has

successfully led numerous projects aimed at enhancing public health, hazard mitigation, sustainability, and resilience. Before joining HARC, Yaneth worked for the City of Houston Mayor's Office of Resilience and Sustainability as a Senior Staff Analyst and a Community Outreach Coordinator. She also served as the Emergency Public Information Coordinator at the City of Houston's Office of Emergency Management.

Finally, Yaneth was the Public Health Information Specialist at Fort Bend County.
Yaneth holds a Master of Public Administration from the University of Houston, Hobby School of Public Affairs, and a Bachelor of Arts in International and Global Studies – Political and Cultural Affairs from St. Mary's University of San Antonio.

## Erandi Treviño

Co-Founder, The Raíces Collab Project

Erandi is a passionate environmentalist and advocate for equity and inclusion, with years of experience in public policy and community organizing. As a frontline community member, she works closely with local and regional stakeholders to address climate and health challenges posed by the oil and gas industry. Erandi is also a co-founder of the Raices C[illegible] which focuses on comm[illegible] initiatives.

Before attending Fordham School of Law, Erandi served as a government relations policy assistant in Washington, DC, specializing in nutrition policy and financial regulations. Outside of her advocacy work, she enjoys gardening, practicing yoga, and spending quality time with her family, all while cultivating a sustainable lifestyle.

Currently residing in Houston, Texas, Erandi balances her advocacy with her studies, furthering her understanding of the intersections between law, policy, and environmental justice. This unique combination of experiences fuels her commitment to creating lasting change in her community.

## Hugh Daigle, PhD

Associate Professor, UT Austin

Dr. Daigle's research focuses on characterizing physical and transport properties of rocks using a combination of laboratory experiments and numerical simulation. Specific areas of interest include methane hydrate formation and response to marine hydrate systems to external perturbations; petrophysical measurement and assessment techniques; applications of nanoparticles in subsurface

of nanoparticles in subsurface engineering; and geohazard detection and prediction. His work is aimed at improving formation evaluation, completion design and production strategy.

## Ramón Gil-Egui

Research Scientist Associate, UT Austin

Ramon Gil-Egui is an Energy Economist with over 25 years of experience in academia, research, and consulting, designing, implementing, and assessing methodologies for pricing, tariffs, cost analysis, and capital risk in the energy sector. His research, conducted since 2015 at the University of Bureau of Economic Geology, has

focused on the sustainability of carbon management, removal, and clean energy technologies. He developed a methodology for Net Carbon Neutral Oil (NCNO) classification for EOR projects, integrating geoengineering, electricity demand, and its environmental and socioeconomic performances. He has extensively assessed the critical value of CCUS, DAC, and other technologies as part of the portfolio needed to transition to a low-carbon economy. Since 2021, he has been investigating the Societal Considerations and Impacts risk for the CO2 Storage project location and actively promoting the responsible development of the Gulf Coast carbon management and removal ecosystem. More recently, he has become involved in socioeconomic assessments of geothermal power and the production of Critical Minerals and Rare Earth Elements from unconventional sources.

## Paloma Pareja Fernandez

Advanced Environmental, Regulatory & Socioeconomic Advisor, ExxonMobil

Paloma Pareja Fernandez is a Socioeconomic Advisor for ExxonMobil, working cross-functionally to manage socioeconomic risks and benefits to build and maintain social

license to operate across the company's energy transition portfolio. Paloma brings over 16 years of experience in stakeholder engagement, social impact assessment in both industry and consulting supporting project development in oil and gas, renewable energy, infrastructure and most recently CCS, Hydrogen and Lithium across North, Central and South America.

## Matt Patton, PhD

Executive Vice President, AngelouEconomics

Dr. Matt Patton oversees the day-to-day operations of AngelouEconomics. He works with the CEO to coordinate short- and long-term g strategies. Matt utilizes 15+ years'

quantitative, qualitative, and mixed methods research experience. He has ten years' project, program, and community leadership experience.

Previously, Matt was faculty in the University Honors Program and Department of Geography and Geology at the University of Nebraska at Omaha. Among his specializations, Matt excelled in service learning which bridged Omaha's private sector with university students. Prior to that, he was a researcher and project coordinator at the University of Nebraska-Lincoln.

Matt's research focuses on the regional aspects of economic development, GIS analysis, and workforce development. His academic contributions include over fifty invited talks, conference presentations, and publications. He earned his Doctor of Philosophy in Geography at Texas State University, his Master of Science in Geographic Information Sciences from Central Michigan University, and his Bachelor of Arts in History and Political Science from Ashland University (OH). Matt blends each of these experiences to gain a holistic understanding of the economics of various regions. Community and people-driven, he is a mentor to current Texas State undergrad and graduate student and serves on Texas State's College of Liberal Arts Advisory Board.

## Andrew Waxm

Assistant Professor, UT Austin

Andrew Waxman is an applied microeconomist examining the relationship between environmental outcomes, urban policies and inequality. Much of his work consists in trying to think about how household location decisions of place of work and residence have implications for levels of emissions from home electricity usage as well as from commuting using personal vehicles. The link between these sectors has important implications for the design of cities and for understanding the full effects of policies targeting housing or transportation. Dr. Waxman has also studied real-time pricing of congested freeways in Los Angeles and has worked on research exploring how public transportation capacity in cities affects the welfare of high- and low-skilled workers.



## Monika Ehrman

## Monika Ehrman

Professor of Law, Southern Methodist University

Monika U. Ehrman is Professor of Law at SMU Dedman School of Law and Professor of Engineering (by courtesy) in the Department of Civil and Environmental Engineering at SMU's Bobby B. Lyle School of Engineering. Professor Ehrman began her academic career at the University of Oklahoma, where she earned tenure and full promotion. At OU, she served as the Faculty Director of the Oil & Gas, Natural Resources, and Energy Center at the College of Law.

Prior to teaching, she served as general counsel of a privately held energy company; senior counsel with Pioneer Natural Resources (now Exxon Mobil); and associate attorney at Locke Lord LLP (now Troutman Pepper Locke). Before law school, Professor Ehrman worked as a petroleum engineer in the upstream, midstream, and pipeline sectors of the energy industry. In addition to her experience with the technical aspects of the industry, she also worked as an analyst in the areas of commodity risk management and energy trading. She is currently Chair of the AALS Section on Natural Resources & Energy and on the editorial board of the Journal of World Energy Law & Business (published by Oxford University Press).



Her scholarly interests are in the areas of natural resources, energy

areas of natural resources, energy, mining, property, and environmental law & policy. She is principal investigator of a multi-year team grant awarded in 2021 from the Alfred P. Sloan Foundation to study the impact of the clean energy transition on Native American communities. Professor Ehrman earned a B.Sc. in Petroleum Engineering from the University of Alberta; J.D. from SMU Law; and LL.M. from Yale Law School.

## Amy Jordan, PhD

Research Scientist, Carbon Solutions

Amy Jordan is a hydrologist with professional experience in astrophysical, planetary, and earth sciences with a focus on numerical modeling of complex systems. Applications of her work have included groundwater remediation, nuclear waste repository performance, geologic carbon sequestration, and nuclear nonproliferation. At Carbon Solutions, Amy leads the Local Air Emissions Tracking Atlas project, which helps quantify air quality co-benefits to decarbonization.

## Jennifer Hadayia

Executive Director, Air Alliance Houston

Jennifer (“Jen”) Hadayia, MPA has been the Executive Director of Air Alliance Houston since 2021. AAH is the longest running advocacy non-profit singularly focused on the public health impacts of air pollution in Houston and Harris County. Jen has worked for over 25 years in public health and health equity with state and county health departments and non-profit organizations in five states and the District of Columbia. Prior to leading Air Alliance Houston, Jen was senior staff at Legacy Community Health Services, Inc., the largest FQHC in the state of Texas, where she ran the public health department. She was also Harris County’s first-ever Health Equity Coordinator and developed their first Health Equity Framework still in use t
born and raised in Houston and is a

proud resident of Houston's Near Northside, where she lives with her husband and a variety of rescue pets, including a 37-year-old box turtle. Jen holds an MPA from Columbia University and a BA from Yale University.

# Venue

## Reaud Executive Center, The Wayne A. Reaud Building, Lamar University

**985 Jim Gilligan Way**
**Reaud Executive Cente**
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**Beaumont, TX, 77705**