

# GoMCarb Partnership Annual Meeting

May 18, 2022

New Orleans, Louisiana



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# GoM Carb Team Members / Roles

Organization	Location	Expertise
<b>GCCC</b>	Austin, TX	CCS Project Lead
<b>Gulf of Mexico Basin Synthesis (GBDS)</b>	Austin, TX	GoM Basin Geology
<b>Petroleum &amp; Geosystems Engineering</b>	Austin, TX	Reservoir Simulation
<b>Fugro</b>	Houston, TX	MVA Technologies
<b>TDI-Brooks, Int.</b>	College Station, TX	MVA Technologies
<b>Texas A&amp;M GERG</b>	College Station, TX	MVA Technologies
<b>Lamar University</b>	Beaumont, TX	Risk Assessment; Outreach
<b>Trimeric</b>	Round Rock, TX	Engineering; Infrastructure and Operations
<b>USGS</b>	Reston, VA	Characterization and Capacity Assessment
<b>Louisiana Geologic Survey</b>	Baton Rouge, LA	Characterization; Database Development
<b>LBNL</b>	Berkeley, CA	Risk Assessment; MVA Technologies
<b>Rice University</b>	Houston, TX	MVA Technologies

# Ground Rules

- **Speak into microphones (*for virtual attendees*)**
- **Two session chairs – One monitors virtual meeting**
- **Lunch 12:45 – 2:15 (CDT)**  
Options: Hotel – *or* – Nearby restaurants



# Agenda

- May 18 GoMCarb Annual Meeting Technical Update**
- 9:00 a.m. Introduction and GoMCarb Overview – *Ramon Trevino and Dr. Susan Hovorka, UT-Austin Bureau of Economic Geology*
- Offshore Resource Assessment**
- 9:15 a.m. Learning from Experience: Turning Petroleum Exploration Failures into CCS Success – *Dr. Alex Bump, UT-Austin Bureau of Economic Geology*
- 9:35 a.m. Static Geologic Model of the Upper Texas and Westernmost Louisiana Coasts – *Reinaldo Sabbagh Maciel, UT-Austin Bureau of Economic Geology*
- 9:55 a.m. CCS Potential in the Chandeleur Sound, Offshore Louisiana – *Marcie Purkey Phillips, UT-Austin Bureau of Economic Geology*
- 10:15 a.m. Translating Onshore Experience to the Offshore: AoR, Pressure Space and Implications for Storage Site Selection – *Dr. Alex Bump, UT-Austin Bureau of Economic Geology*
- 10:35 a.m. **Break**
- Offshore Resource Assessment – Thesis Results**
- 10:55 a.m. High-Resolution Reservoir Scale Using Well Logs with Depth-Converted 3D Seismic to Delineate Lithofacies Distribution within a Sequence Stratigraphic and deposition Systems Context – *John Franey, presented by Dr. Tip Meckel, UT-Austin Bureau of Economic Geology*
- 11:05 a.m. Combining Dense, 3D Auto-Tracked Models of Dip-Steered Seismic Data with High Resolution of Well Logs – *Harry Hull, presented by Dr. Tip Meckel, UT-Austin Bureau of Economic Geology*
- 11:15 a.m. Modeling Plume Stabilization by Migration Loss – *Melianna Ulfah, presented by Dr. Susan Hovorka, UT-Austin Bureau of Economic Geology*
- 11:25 a.m. Screening Tool for Cross-Fault Migration Risk – *Maddie Laidlaw, presented by Dr. Alex Bump, UT-Austin Bureau of Economic Geology*
- 11:35 a.m. Optimized Site Screening Process – *Marco Andrés Guirola, presented by Dr. Alex Bump, UT-Austin Bureau of Economic Geology*
- Risk Assessment and Geologic Modelling**
- 11:45 a.m. Determining a Safety Exclusion Zone from Downwind Dispersion of CO<sub>2</sub> from a Major Subsea Blowout in Shallow Offshore Waters – *Dr. Curt Oldenburg, Lawrence Berkley National Laboratory*
- 12:05 p.m. Predicting CO<sub>2</sub> Buoyant Flow Saturation in Heterogenous Geologic Formations with Machine Learning – *Dr. Hailun Ni, UT-Austin Bureau of Economic Geology*
- 12:25 p.m. Pore Scale Migration and Trapping using Micromodel Lab Experiments – *Richard Larson, UT-Austin Bureau of Economic Geology*

## Sessions & Chairs

9:15 – 10:35 (Trevino, Hovorka)

10:55 – 11:35 (Purkey-Phillips, White)

11:35 – 12:45 (Sabbagh, Sachde)

## Lunch

2:15 – 3:15 (Romanak, Bulakh)

3:30 – 4:30 (White, Ni)

4:30 – 5:15 (Trevino, Romanak)





**Lunch**

**12:45 – 2:15 (CDT)**

**Options: *Hotel or Restaurants***



# Agenda

- 12:45 p.m. **Lunch**
- 2:15 p.m. Progress on the Compositional Poromechanics Simulation of HI24L – *Dr. Josh White, Lawrence Livermore National Laboratory*
- Monitoring Verification, and Assessment (MVA)**
- 2:35 p.m. Environmental Monitoring Considerations for the Gulf of Mexico – *Dr. Katherine Romanak, UT-Austin Bureau of Economic Geology and Dr. Tony Knap, Texas A&M University*
- 2:55 p.m. A Hypothetical CO<sub>2</sub> Release at High Island 10L using Ansys Fluent – *Dr. Daniel Chen, Lamar University*
- 3:15 p.m. **Break**
- Infrastructure, Operations, and Permitting**
- 3:30 p.m. Status Update on Offshore Oil and Gas Infrastructure (pipelines, platforms, and wells) – *Dr. Darshan Sachde and Katherine Dombrowski, Trimeric Corporation*
- 3:50 p.m. Effect of Monoethanolamine on the Viscosity and CO<sub>2</sub> Absorption of Aprotic Heterocyclic Anion Ionic – *Dr. Tracy Benson and Adhish Chandra Saketh Madugula, Lamar University*
- 4:10 p.m. Summary of Recent Discussions between Aker Solutions, LLC, and Trimer – *Maria Bulakh, Aker Solutions, LLC*
- Knowledge Dissemination**
- 4:30 p.m. Training, Students, Workshops, Education Progress – *Dr. Susan Hovorka, UT-Austin Bureau of Economic Geology*
- 4:40 p.m. Increased Inquiries About CCS from Stakeholders – a Status Update (Industry/Business, NGOs, Public, etc.) – *Dr. Tip Meckel, UT-Austin Bureau of Economic Geology*
- 5:00 p.m. Discussion and Next Steps
- 5:15 p.m. **Adjourn**

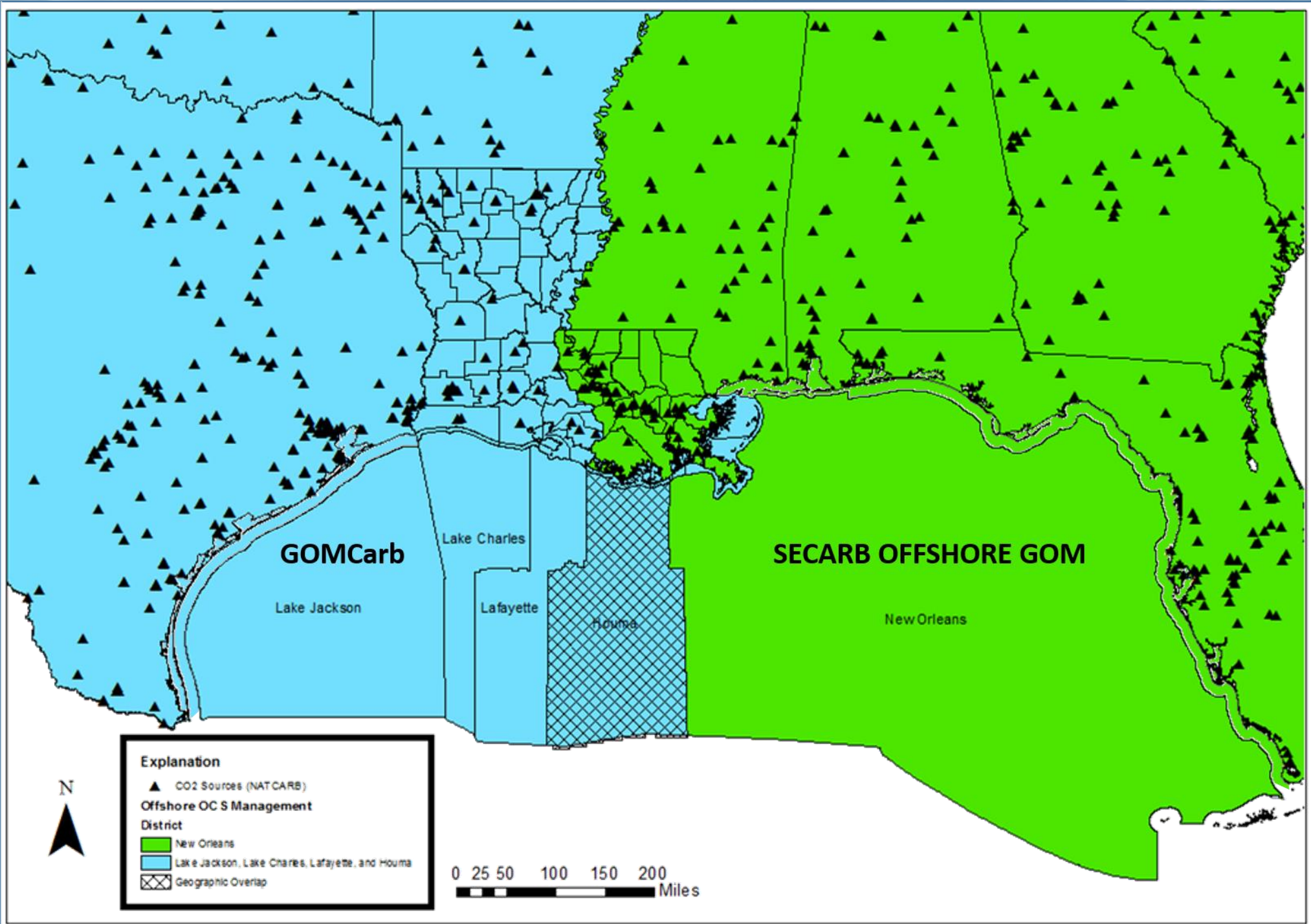




**Welcome Kyle Smith – NETL PM**

*(attending virtually)*







***Onward...***

