



UTCCS-5

Texas Carbon Management Program

The University of Texas at Austin

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Introduction

By

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Objectives of the TxCMP

- Train graduate and undergraduate students
- Create understanding, data, and methods to facilitate deployment of CO₂ capture
- Create innovations to enhance performance and reduce cost of CO₂ capture

Strategy

- Apply ChE science to understand and quantify the performance of MEA & PZ absorption/stripping.
- Develop innovative, evolutionary improvements.

Annual Research Funding for Students

- \$350k Texas Carbon Management Program
 - \$220k CCSI² (DOE)
 - \$400k FEED (DOE)
 - \$300k Amine Oxidation (DOE)
 - \$300k State of Texas – Ovhd & faculty salary
-
- \$1570k – Total Annual Program Funding





TxCMP - 13 Sponsors & Collaborators

Oil

Chevron

Exxon

Total

Oxy

Suppliers

Shell/Cansolv

MHI

Utilities

EPRI

(GSEC)

Collaborators

(MTR)

(URS)

(Trimeric)

Government

DOE/NETL

(DOE/CCSI²)

(DOE/LANL)

Others

(Emerson)

Future meetings on amine scrubbing

June 17, 2020 – TxCMP – Austin

October 5-8, 2020 – GHGT-15 – Abu Dhabi

October 9, 2020 – TxCMP++ -- Abu Dhabi

Introduction to Storage Program



Introduction to Storage Program Track

- **Plenary and dinner speaker: Symposium on Integration of Technology and Policy (Exxon-Mobil and UT Energy Institute)**
- **Symposium on Integration of Technology and Policy–Storage focus issues**
- **GCCC 6 research themes**
 - Large volume storage
 - CCSU ecosystem
 - Leakage assessment
 - The U in CCUS
 - Fluid flow modeling
 - **Monitoring lifecycle**
- **CCS projects from Hildebrand Department of Petroleum and Geosystems Engineering and GCCC collaborations**
- **GCCC sponsors closed discussion session**

GCCC Industrial Affiliates



BHP



ExxonMobil

