

# Decarbonization of Oil & Gas Operations

**Date:** Monday, September 9, 2024

**Time:** 8:00 am – 4:30 pm

Breakfast: 8:00 am – 9:00 am

Workshop Begins: 9:00 am

Coffee Break: 10:30 am

Lunch Break: 12:00 pm – 1:00 pm

Coffee Break: 3:00 pm

Workshop Concludes: 4:30 pm

**Location:**

Edmonton Convention Centre, Salon 1 – Edmonton, Canada

9797 Jasper Ave, Edmonton, AB T5J 1N9

+1 (780) 421-9797

**Cost: \$695** (includes breakfast, coffee breaks, lunch and workshop materials)

**Agenda:**

**1. Introduction**

Introduction to Greenhouse Gas (GHG) Carbon Dioxide (CO<sub>2</sub>) emission, impact and control Methods

**2. Engineering and Project Management**

- a) Introduction and type of engineering projects
- b) Project management basics
- c) Carbon capture project phases: from the technology evaluation and selection to EPC phase and Operation

**3. Process Simulation with ProTreat®**

- a) Introduction of OGT and its software (ProTreat®, SulphurPro®, & ProBot™)
- b) ProTreat®, Rate-Based Process Simulator for carbon capture applications

**4. Acid gas removal technology**

- a) Process Design & Configurations
- b) Case study # 1 – natural gas conditioning

**5. Post-combustion carbon capture technology**

- a) Process Design & Configurations
- b) Case study # 2 – Steam Generator in Heavy Oil Operations

**6. Pre-Combustion carbon capture technology**

- a) Process Design & Configurations
- b) Case study # 3 – Hydrogen Plant - Steam Methane Reformer

**7. Plant Performance & Evaluation**

**8. Carbon Capture Plant Simulation with ProTreat® Hands-on**

**9. Discussion**