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: Fairmont Hotel Macdonald, Edmonton Canada

Cost: \$795 (includes breakfast, coffee breaks, lunch and workshop materials)

Agenda:

1. Introduction

Introduction to Greenhouse Gas (GHG) Carbon Dioxide (CO_2) 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