



SUCCESSFUL INDUSTRY-ACADEMIA COLLABORATION IN THE **ADVANCEMENT OF CO**₂ **UTILIZATION AND LOW CARBON PROCESSES**

10 - 11 MAY 2022



Gas & Fuels Research Center

TAMUQ-TotalEnergies Workshop

Successful Industry-Academia Collaboration in the Advancement of CO₂ Utilization & Low Carbon Processes

Tuesday, 10 May 2022

12 – 1 p.m.	Lunch in VIP Majlis (invited visitors) Texas A&M University at Qatar
1 – 2:30 p.m.	Tour of TAMUQ Labs
Workshop Technice Room: Al Mukhtassar	a l Program 2, The Ritz-Carlton, Doha
4 – 4:10 p.m.	Welcome from Dr. Hassan S. Bazzi
4:10 - 4:50 p.m.	Plenary Speaker
	Dr. Tobin Marks Vladimir N. Ipatieff Professor of Catalytic Chemistry and Professor of Materials Science and Engineering, Northwestern University
	"Attacking Key Challenges in the Catalytic Dry Reforming of Methane"

5 – 6 p.m.	Panel Discussion
	"CO2 Utilization vs. Sequestration: Potentials and Challenges"
	Prof. Muammer Koc Hamad Bin Khalifa University
	Dr. Dhabia Al-Mohannadi Texas A&M University at Qatar
	Dr. Abdulkarem Amhamed Qatar Environment and Energy Research Institute
6:15 – 7:15 p.m.	Poster Session and Networking
7:30 – 9 p.m.	Dinner Room: Al Mukhtassar 1

Wednesday, 11 May 2022

8:30 – 9 a.m.	Registration and Coffee Room: Al Mukhtassar Foyer
9 – 9:30 a.m.	Opening and Welcome Remarks
	Dr. César Malavé Dean, Texas A&M University at Qatar
	Mr. Matthieu Bouyer Managing Director and Country Chair, TotalEnergies Qatar
9:30 – 10 a.m.	Keynote 1
	"CO ₂ Utilization in Natural Gas Processing: Technology Development from Micro to Macro Scale"
	Dr. Nimir Elbashir Project Leader Professor of Chemical Engineering and Petroleum Engineering, Texas A&M University at Qatar TEES Gas and Fuels Research Center Director



TEXAS A&M UNIVERSITY at QATAR

10 – 10:30 a.m.	Keynote 2
	"TotalEnergies Contribution in Gas Conversion and CO ₂ Utilization through NPREP Project"
	Dr. Olivier Miserque Low Carbon Processes R&D Manager, TotalEnergies OneTech Belgium
10: 3 0 – 10:45 a.m.	Videos/Award and Recognition Ceremony
10:45 – 11:45 a.m.	Coffee Break: Poster Session and Networking Room: Al Mukhtassar Foyer
11:45 a.m. –	Talk 1
12:20 p.m.	"CO ₂ Capture by Adsorption on Engineered Molecular Sieves"
	Dr. Gilson Jean-Pierre Emeritus Distinguished Professor Laboratoire Catalyse and Spectrochimie, Normandie University, ENSICAEN, UNICAEN, CNRS ENSICAEN
12:20 – 1:30 p.m.	Lunch Room: Al Mukhtassar Foyer
1:30 – 2 p.m.	Talk 2
	"The Future of Zeolites in Net Carbon Zero- Transitioning Economies"
	Dr. Valentin Valtchev Directeur de Recherche Laboratoire Catalyse & Spectrochimie, ENSICAEN – Université de Caen – CNRS
2 – 2:30 p.m.	Talk 3
	"Unlocking the Decarbonization Potential of Gas to Chemical for the Industry"
	Dr. Nikolay Nesterenko Head Technology Commercialization, Gas Solutions GTB SULZER

2:30 – 3 p.m.	Talk 4
	"A Computational Insight of Guest Exchange Mechanism between CH ₄ and CO ₂ in SI Clathrate: CH ₄ Recovery and CO ₂ Storage Opportunities"
	Ahmed Omran Texas A&M University at Qatar and ENSICAEN
3:15 – 5 p.m.	Roundtable Discussion
	"Industry and Academia – Potential Collaboration in CO ₂ Utilization Research and Project"
5 p.m.	Workshop Closing Note



