

## مؤتمر ومعرض تقنيات النفط والغاز والطاقة المستدامة Technology of Oil & Gas and Sustainable Energy International Conference and Exhibition Tripoli 22-24 April 2024





Workshop Tittle:

## **Carbon Capture in Oil & Gas Operations**

## Dr. Ahmed Aboudheir

#### **SUMMARY**

In the past three years, the world has increased its attention to carbon dioxide emissions by establishing a carbon net-zero short and long goals for 2030 and 2050. This industry is experiencing rapid growth and expansion in several regions around the globe. The captured carbon dioxide has enabled development of many areas to practical uses by converting it to different utilization or products such as: 1- Store CO2 with sequestration or via enhanced oil recovery. 2- Sustainable aviation fuels or low-carbon emission fuels such as methanol or ethanol. 3- Innovation and sustainable products such as carbon nanotubes, graphene/graphite, and injected in cement/concerts. The recent development and implementation of carbon capture processes in many industrial places has highlighted the need for new skills and opportunities for engineers and operating companies. This short workshop provides decision makers, planners, designers, operators, and engineers with basics to better understand the carbon capture processes that could be utilized within Libyan oil and gas sector.



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# Short Curriculum-Vitae Prof. Dr. Ahmed Aboudheir **Aboudheir Consulting Ltd.**



Dr. Ahmed Aboudheir is the Chief Executive Officer of Aboudheir Consulting Ltd (www.aboudheir.ca). Experienced chemical engineer with a demonstrated history of working in the energy industry and research institutions for more than 35 years. Skilled in process design, process optimization, and process troubleshooting in the fields of gas processing, CO2 capture, and chemicals reclaiming and reuse. He has a B.Sc. & M.Sc. in Chemical Engineering, and a Ph.D. in Industrial Systems Engineering. He is a registered professional engineer with APEGA and APEGS. He has

extensive peer reviewed publications in design and optimization of chemical/petrochemical plants, hydrogen production reactors, post combustion capture process, and solvent/glycol reclaiming process. In April 2006, the Government of Saskatchewan, Canada, awarded Dr. Aboudheir the Commemorative Medal for the Centennial of Saskatchewan. The Medal recognizes individuals who have made significant contributions to society and honors their outstanding achievements. Dr. Aboudheir recognized for his significant contributions in the CO2 capture research, hydrogen production research, and community leadership