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شركة البترول الوطنية الكويتية  
إحدى شركات مؤسسة البترول الكويتية  
A Subsidiary of Kuwait Petroleum Corporation



## WORKSHOP 4

# The Lng Value Chain

10 - 11 MARCH 2019 | THE REGENCY HOTEL, STATE OF KUWAIT



## Two Days Workshop

CONDUCTED BY

**PetroSkills®**

ORGANISED BY



## **WORKSHOP DESCRIPTION**

This LNG workshop is designed for delegates interested in an overview of the LNG value chain, with a primary focus on LNG Receiving Terminals. Topics to be discussed include an evaluation of the current status of the industry. This will include an understanding of today's main suppliers, the pros and cons of the available technology, and an understanding of the impact of equipment selection on plant efficiencies, capital costs, delivery schedule, and availability. General factors that must be considered for terminal siting, key Health and Safety and Environment Issues, and LNG safety will be discussed. The details of successful EPC project definition and delivery will be reviewed, including the major contractual errors that lead to project overrun and performance shortfall.

## **WORKSHOP OBJECTIVES**

- Understand the LNG value chain: from wellhead to wire
- Learn and understand the role of LNG as an energy source in the Middle East
- Understand constituents of a successful EPC project definition and delivery
- Know the key economics of LNG terminal projects

## **POTENTIAL PARTICIPANTS**

All technical and managerial staff interested in understanding more about the LNG value chain, with a focus for delegates involved in working LNG projects.

## **WORKSHOP CERTIFICATE**

Gas Processors Association – GCC certificate will be issued to all attendees.

# WORKSHOP PROGRAM

## Understanding the LNG Value Chain: From Wellhead to Wire

### Day 1

#### LNG Value Chain and the Role of LNG in the Middle East

**Module 1 - Natural Gas and World Energy Trends**

**Module 2 - Overview of the LNG Value Chain**

**Module 3 - Main LNG Technologies and Pro's and Con's**

**Module 4 - Impact of equipment selection on plant efficiency, capital cost, delivery and availability – the building blocks of NPV**

**Module 5 - The Role of LNG as an Energy Source in the Middle East**

### Day 2

#### Project Definition and Delivery, LNG Receiving Terminals in the Overall LNG Value Chain

**Module 6 - Constituents of successful EPC project definition and delivery**

**Module 7 - Receiving Terminals and how they fit in the value chain**

- Receiving terminals overall project economics
- Main technical choices and examples
- General siting issues and safety
- Receiving terminals operations – unloading, storage, boil-off gas management, cold energy utilization

# INSTRUCTORS



**Malcolm Harrison**  
CEO, Harisiti Limited

Malcolm Harrison graduated in Chemical Engineering in 1981 and completed an MBA in 1995. He has worked mostly in the areas of oil and gas, cryogenics and gas monetization. Mr. Harrison has worked for BP, BOC, Foster Wheeler and BG. He was Director of Process Engineering for Foster Wheeler and, most recently, was BG's Chief Process Engineer. He has international experience, working on all the continents with the exception of Antarctica. While his foundations are in process engineering, the MBA sparked an interest in corporate strategy, in changing organizations and building high performing teams. Malcolm is a recognised expert in the gas and LNG sector.



**Kindra McGregor**  
Director - Oil and Gas Processing  
PetroSkills | John M Campbell

MRS. KINDRA MCGREGOR is the Technical Director of Oil and Gas Processing with PetroSkills | John M Campbell. She has a master's and bachelor's degree in Chemical Engineering and Petroleum Refining from the Colorado School of Mines, and over 20 years of experience in the oil and gas industry. She has been with the company for over 10 years, and has served in several positions including manager of consulting, senior staff engineer and instructor, and discipline manager for the Oil and Gas Processing Discipline. Prior to joining John M Campbell & Company in 2008, she served in technical manager, process engineering manager, and lead process engineering roles in the oil and gas engineering, procurement and construction business. She has served as the technical lead on several significant projects in the industry for clients such as BP, ExxonMobil, ConocoPhillips, Occidental, QatarGas, and XTO. Mrs. Snow-McGregor has been active in the gas processing / midstream industry for many years, and is on the Board of Directors for the GPSA. In addition, she serves on the GPSA Engineering Data Book Editorial Review Board, and prior to this role, served on the GPA Technical Research Committee, Sub-Group 2, for over 11 years. She has published seven technical papers at international conferences, served as project coordinator for GPA research report 221, and is a coinventor on two technology patents in the gas processing industry

## For more information, Please contact:

### Yaser Al Qashar

GPA Executive Officer  
Gulf Cooperation Council Chapter  
P.O. Box 25094, Awali, Kingdom of Bahrain  
Tel. 973 17752310-17752403, Fax 973 17 008946

+973 3966 9553

yaser.alqashar@banagas.com.bh

tanvi.sagar@banagas.com.bh

naema.ali@banagas.com.bh

[www.gpa-gcc-chapter.org](http://www.gpa-gcc-chapter.org)

## iCONEX

### Mohammad Anwar Ali

Project Head

+973 3200 1991

anwar@iconex.in

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