



GCC Chapter

Gas Processors Association  
GCC Chapter

Hosted by



شركة تنمية نفط عُمان  
Petroleum Development Oman

Under the patronage of



وزارة الطاقة والمعادن  
Ministry of Energy and Minerals

21 - 25 MAY 2023 | OMAN CONVENTION & EXHIBITION CENTRE, MUSCAT

## GPA-GCC CHAPTER

# 29<sup>th</sup> ANNUAL TECHNICAL CONFERENCE, EXHIBITION & WORKSHOP



## CONFERENCE AGENDA ▶

Managed by



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

## GENERAL INFORMATION

### Event Dates

Workshops	21 - 22 MAY 2023
Conference Registration	22 & 23 MAY 2023
Opening Ceremony	23 MAY 2023
Conference, Exhibition & Poster Sessions	23 - 25 MAY 2023

Opening Hours	Day 1	Day 2	Day 3	Day 4	Day 5
Particular	21 MAY 2023	22 MAY 2023	23 MAY 2023	24 MAY 2023	25 MAY 2023
Registration	07:30 – 08:30	08:00 – 08:30	07:30 – 09:00	07:30 – 08:00	07:30 – 08:00
Conference Inauguration	—	—	09:00 – 11:30	—	—
Exhibition Inauguration	—	—	11:30 – 12:00	—	—
Conference	—	—	13:00 – 15:00	08:00 – 15:00	08:00 – 14:00
Poster Session	—	—	14:20 – 14:35	09:20 – 09:50	09:20 – 09:50
Exhibition	—	—	08:00 – 15:30	08:00 – 15:30	08:00 – 14:30
Workshops	08:30 – 15:00	08:30 – 15:00	—	—	—

### Raffle Draws

There will be 3 mega raffle draws conducted at GPA-GCC Conference 2023. The mega winners shall be announced at the closing functions of 23 - 25 May 2023. It is mandatory that the winner be present during the raffle draw. In the instance the winner is not present during the announcement, the selection shall be disqualified, and a fresh draw will be held.

### Dress Code

Business Formals or National Dress | Omani Khanjar

### Conference Language

The language of the conference is English

TUESDAY, 23 MAY 2023

DAY 1 - MORNING SESSION

07:30 - 09:00

CONFERENCE REGISTRATION & WELCOME COFFEE BREAK



09:00 - 09:20

OPENING REMARKS



**Hamad Al-Zuwayer**

*Chairman, Gas Processors Association  
– GCC Chapter*

09:20 - 09:30

KEYNOTE SPEECH



**Moutaz Al-Riyami**

*Gas Director  
Petroleum Development Oman*

09:30 - 10:30

## PANEL DISCUSSION

### Theme: The Future of Gas in Energy Transition



#### MODERATOR

**Mansoor Al-Shaaily**

*Environment Manager, Oman LNG*

#### PANELIST



**Dr. Anwar Al-Kharusi**

*Vice President - Business  
Development,  
OQ*

#### PANELIST



**Walid Al-Naeem**

*Director - Process & Control  
Systems Department,  
Saudi Aramco*

#### PANELIST



**Ahmed Al-Zaabi**

*Acting Vice President (Plant Operations -  
Habshan), ADNOC Gas*

#### PANELIST



**Loukas Ziomas**

*Partner,  
McKinsey&Company*

10:30 - 11:30

## AWARDS CEREMONY

11:30 - 12:00

## EXHIBITION OPENING

12:00 - 13:00

PRAYER  & LUNCH BREAK 

## DAY 1 - AFTERNOON SESSION

### DIGITALIZATION

Session Chair:  
**Mossab Al-Ghanmi**



#### 13:00 - 13:20

Smart Advisory Dashboard: A Leap for  
Digitalizing Site Energy Optimization and  
Decarbonization Campaign

Presenter:

**Dedik Rahmat Ermawan**



#### 13:20 - 13:40

Foaming Prevention using Artificial  
Intelligence FPAS

Presenter:

**Eisa Al-Hammadi**



#### 13:40 - 14:00

Predictive Smart Signal Technology to  
Prevent Damaging of the Critical  
Equipment at an Earlier Stage to Avoid  
Unplanned Shutdown in Oil and Gas  
Industry

Presenter:

**Kailash Kumar Khandelwal**



#### 14:00 - 14:20

Defining Plant Maximum Capacities  
and Effectively Managing Gap to  
Potential

Presenter:

**Sultan Al-Busaidi**



## TUESDAY, 23 MAY 2023

### DIGITALIZATION

Session Chair:  
**Talal Al Hadhrami**



#### 13:00 - 13:20

Computerized Performance Monitoring  
System for Compressor (CPMS)

Presenter:

**Mohammad Al-Musaiteer  
Abdulrahman Takrouni**



#### 13:20 - 13:40

Empowering Gas Flow Measurement with  
Digital Twin

Presenter:

**Munther Al-Bahri**



#### 13:40 - 14:00

Advanced LBTU Fuel Gas Pressure  
Regulator

Presenter:

**Bassam Al Gahtani**



#### 14:00 - 14:20

The New Innovative In-house Approach for  
Cost Effective Development of a Digital  
Twin Application for Sour Gas Process  
Plant Monitoring & Troubleshooting

Presenter:

**Aysha Alghailani  
Piyush Sheth**



## POSTER SESSION

TUESDAY, 23 MAY 2023

### 14:20 -14:35 GRAND BALLROOM

Progressing Gas Value Chain Economy in Carbon Neutral and Net Zero Scenarios

Presenter:

**Salem Al-Ajmi**

**Mohamed Rizwan**



### 14:20 -14:35 JUNIOR BALLROOM

Plant Capacity De-Bottlenecking through Molecular Sieve 3A Deployment

Presenter:

**Diki Andrian**



Advanced Process Control, APC, Upstream Process in Saih Rawl Central Production Plant

Presenter:

**Ahmed Al-Hamer**



Advanced Process Control (APC)

Presenter:

**Jawad Al Khaburi**



Smart Flange Integrity Management System (FIMS)

Presenter:

**Khaled Al-Hamadi**



Empowering Innovation and Accelerating Digital Transformation

Presenter:

**Doaa Murad**



### 14:35 -14:50 EXHIBITORS RECOGNITION

### 14:50 -15:00 CLOSING REMARKS & RAFFLE DRAW

### 15:00 -15:30 COFFEE BREAK ☕ & EXPO VISIT

## WEDNESDAY, 24 MAY 2023

### DAY 2 - MORNING SESSION

#### DECARBONIZATION

Session Chair:  
**Jaffar Al Tamimi**



شركة تنمية نفط عُمان  
Petroleum Development Oman

**08:00 - 08:20**

Carbon Capture Utilization & Storage (CCUS) Feasibility Study

Presenter:  
**Abeer Al-Wahaibi**



شركة تنمية نفط عُمان  
Petroleum Development Oman

**08:20 - 08:40**

Feasibility Study on Hydrogen Blending in Existing Natural Gas Network

Presenter:  
**Dr. Qahtan Al Yarubi**



**08:40 - 09:00**

Carbon Dioxide Removal Process Evaluation Using Novel Amine-Based Eutectic Solvents

Presenter:  
**Aisha Al-Harathi**



شركة تنمية نفط عُمان  
Petroleum Development Oman

**09:00 - 09:20**

A Pathway to Carbon Neutral LNG: Challenges, Opportunities, Costs and a Way Forward

Presenter:  
**Nafisa El-Samani**



#### GAS CONDITIONING & PROCESSING

Session Chair:  
**Abdullah Kindi**



شركة تنمية نفط عُمان  
Petroleum Development Oman

**08:00 - 08:20**

Excessive Solid Contamination in C2+ NGL Feed-Lessons Learned

Presenter:  
**Mohammad Boobaid**



**08:20 - 08:40**

Debottlenecking of Existing Gas Treatment Plant - Right Approach for the Capacity Enhancement

Presenter:  
**Saravanavel Muthiah Ponnusamy**



**08:40 - 09:00**

A Multi-Layered Strategy to manage Foaming in Ultra-Sour Gas Sweetening Units

Presenter:  
**Eman Al-Ali Jawwad Kaleem**



**09:00 - 09:20**

How Glycols affect the Acid Gas Removal Process

Presenter:  
**Philip le Grange**



## POSTER SESSION

### 09:20 - 09:40 GRAND BALLROOM

Success Story of Sour Gas Flaring Reduction at West of Kuwait

Presenter:

**AbdulAziz Al-Owaish**  
**Dr. Mohammad Sabti**



### 09:20 - 09:40 JUNIOR BALLROOM

C3 Unloading in Jazan Refinery Complex Utilizing Whole Naphtha Line

Presenter:

**Abdullah Al-Awadhi**



Decarbonizing Oil & Gas Production – A Holistic Solution

Presenter:

**Divya Mathur**  
**Gary Sams**



Gas Directorate (GD) Challenges and Improvements in Newly Commissioned Khulud facility to Achieve Stable Operation

Presenter:

**Firas Al Ajmi**



KNPC's efforts for Decarbonation at Mina Al-Ahmadi Refinery, Gas Plant

Presenter:

**Hosam Ali-Jamal**



Hydraulic Power Recovery Application in Gas Treatment Plant

Presenter:

**Mohammed AL-Qahtani**



### 09:40 - 10:10

### COFFEE BREAK ☕ & EXPO VISIT





## DAY 2 - MORNING SESSION

### DECARBONIZATION

Session Chair:  
**As'ad Al-Mashrafi**



شركة تنمية نفط عمان  
Petroleum Development Oman

#### 10:10 - 10:30

Maximizing Green Cash Flow by Optimizing the Gas Grid: 3% Higher Condensate Production with Lower Energy Consumption

Presenter:  
**Mazin Al-Qasmi**



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Petroleum Development Oman

#### 10:30 - 10:50

Green Hydrogen – Challenges & Practical Aspects

Presenter:  
**Ron Frend  
Conrad Dziobon**

**PetroSkills**

#### 10:50 - 11:10

Solar Energy Integration Assessment with Gas Engine Generators

Presenter:  
**Sourav Bairagi**



الهيئة العامة للغازات المسالة  
Oman LNG

#### 11:10 - 11:30

Integrated Modularized Carbon Dioxide Liquefaction Facilities for Low Carbon Economy

Presenter:  
**Wayne Youngs**

**ENERFLEX**

#### 11:30 - 11:50

Energy Efficiency Surveillance Tool (EEST) / Case Study

Presenter:  
**Jamal Al-Rumhi**



شركة تنمية نفط عمان  
Petroleum Development Oman

## WEDNESDAY, 24 MAY 2023

### GAS CONDITIONING & PROCESSING

Session Chair:  
**Tim Riley**



#### 10:10 - 10:30

Processing Sweet Associated Gas in Non-Associated Processing

Presenter:  
**Abdulsalam Al-Ali**

**aramco**



#### 10:30 - 10:50

Mercaptan Closure Around the Gas Sweetening Unit SRE

Presenter:  
**Inshan Mhoammed**



#### 10:50 - 11:10

A Novel Approach in Molecular Sieve Regeneration to Reduce CAPEX and OPEX

Presenter:  
**Gaurav Bhartiya**



#### 11:10 - 11:30

Optimization of Desiccant Based Natural Gas Dryers

Presenter:  
**Francois-Xavier Chiron**

**Axens**  
Powering integrated solutions

#### 11:30 - 11:50

Innovative Kinetic Optimizer for Thermal Oxidizers Decarbonization

Presenter:  
**Makky Al-Hassan**

**aramco**



## POSTER SESSION

### 11:50 - 12:10 GRAND BALLROOM

Revenue Maximization by Unlocking Refrigeration System Limitations

Presenter:

**Maryam Al-Marzooqi**



### 11:50 - 12:10 JUNIOR BALLROOM

Modularization Approach to CCS for Fast Deployments.

Presenter:

**Fahd Fathi**



Practical Cleaning Method for NGL Liquefaction Unit BAHes

Presenter:

**Mohammed Al-Rumaih**



Commissioning of AGRP II in KNPC-MAA Refinery

Presenter:

**Saad Al-Mutairi**



Optimizing The Flare Gas Recovery System Through Advanced Design Practice and Dynamic Simulation

Presenter:

**Sumaiya Hamadani**



Process Safety Rounds at OLNG For Regenerative PS Culture

Presenter:

**Ahmed Al-Naabi  
Saaed Al-Shehhi**



### 12:10 - 13:10 PRAYER & LUNCH BREAK



## DAY 2 - AFTERNOON SESSION

### LNG & NGL

Session Chair:

**Khalid Al Busaidi**



شركة الغاز الطبيعي عمان  
Oman LNG

**13:10 - 13:30**

CPP Stabilization Process Improvement

Presenter:

**Abdullah Al-Sabri**



شركة تنمية نفط عمان  
Petroleum Development Oman

**13:30 - 13:50**

Sulphur Deposition in NGL Section

Presenter:

**Kanagasabai Rathina Sabapathi**



**13:50 - 14:10**

Key Considerations to Establish Safe Operating Envelope for Hydrocarbon Condensate Stripper Systems

Presenter:

**Taib Abang**

aramco



**14:10 - 14:30**

Stabilizer Column Flooding Problem in bp Oman

Presenter:

**Ahmed Al-Maimani**



**14:30 - 14:50**

Liquefied Natural Gas Reload Operations Opportunities, Obstacles and Challenges

Presenter:

**Abdullah Al-Ajmi**

**Talal Hamadah**



**14:50 - 15:00**

**CLOSING REMARKS & RAFFLE DRAW**

**15:00 - 15:30**

**COFFEE BREAK & EXPO VISIT**

## WEDNESDAY, 24 MAY 2023

### OE

Session Chair:

**Badar AL-Shekaili**



شركة تنمية نفط عمان  
Petroleum Development Oman

**13:00 - 13:20**

Optimizing Boiler Fuel Gas Consumption By Implementing Advanced Process Control In-house Using DMC3®

Presenter:

**Alexander Emil Mavarez Colmenarez**  
**Hussain Hasan Al-Salman**



**13:30 - 13:50**

An Optimum Design for Controlling Piggling Slug to Achieve Cost-Effective Solution

Presenter:

**Mohamed Al-Qasmi**



شركة تنمية نفط عمان  
Petroleum Development Oman

**13:50 - 14:10**

Managing Operational Challenges Linked to Low Demand Limitations for LNG Regasification Terminals

Presenter:

**Hasan Jaafar**



**14:10 - 14:30**

LP Steam Recovery From De-Heptanizer Reboiler LP Condensate - Case Study

Presenter:

**Mi Al-Ghailani**



**14:30 - 14:50**

Troubleshooting Frequent Trip in the 4K-Compressor of Existing Trains

Presenter:

**Naser Al-Hajiya**  
**Ahamed Rashed**



THURSDAY, 25 MAY 2023

## DAY 3 - MORNING SESSION

### TECHNOLOGY

Session Chair:

Dr. Qahtan Al Yarubi



08:00 - 08:20

New SRU Process – SSRIM

Presenter:

John P. O'Connell



08:20 - 08:40

New Technology Application of Thermal Metal Spray (TMS) on Regenerator (C-1102) at Oman LNG

Presenter:

Ahmed Al-Bimani



08:40 - 09:00

Condensate Yield Optimizer Technology

Presenter:

Eman Al-Ali

Jawwad Kaleem



09:00 - 09:20

Innovative Zero Flaring Turnaround Activity for NGL Recovery Unit

Presenter:

Abdullah Al-Oraifi



### ASSET INTEGRITY

Session Chair:

Ahmed Al-Hadhrami



08:00 - 08:20

LPG4 NGL Fractionation Unit Advanced Process Control Implementation and Commissioning Challenges



Presenter:

Hussain Hasan Al-Salman

Alexander Emil Mavarez Colmenarez

08:20 - 08:40

Subsurface Flaring Reduction\_ Green Completion

Presenter:

Sultan Al-Ismaili



08:40 - 09:00

Root Cause Analysis on Propane Compressors failure

Presenter:

Hessa Al-Ali



09:00 - 09:20

Asset Record Management System- ARMS

Presenter:

Abdulrahman Al-taweel





## POSTER SESSION

### 09:20 - 09:40 GRAND BALLROOM

Management of Change (MoC)  
Digitalization

Presenter:

**Maryam Al-Buraidi**



### 09:20 - 09:40 JUNIOR BALLROOM

RMS & Well Hook Up Standardization

Presenter:

**Shiriam Pande**



شركة تنمية نفط عمان  
Petroleum Development Oman

Energy Optimization in Production  
Operations

Presenter:

**Latifah Al-Temeemi**



Developing an Optimized Integrity  
Operating Window (IOW)

Presenter:

**Fatima Al-khunaizi**

aramco



Contamination Control in NGL and HC  
Condensate

Presenter:

**Hassan Al-Saood**



Case Study: Re-alignment of 42"  
Unloading Line

Presenter:

**Nasser Al-Bouss**



### 09:40 - 10:10

### COFFEE BREAK ☕ & EXPO VISIT

## DAY 3 - MORNING SESSION

### TECHNOLOGY

Session Chair:  
**Salem M Al-Qahtani**



**10:10 - 10:30**

Acid Gas Virtual Flowmeter

Presenter:  
**Faisal Al-Boqami**



**10:30 - 10:50**

Satellite-Based, AI-Enabled  
Measurement of Oilfield Methane  
Emissions

Presenter:  
**Sean Donegan**



**10:50 - 11:10**

Flare Gas Reduction Through Steam  
Target Settings and Casing Vents Control

Presenter:  
**Al-Yaqdhan Al-Rashidi**



**11:10 - 11:30**

Slug Catcher Liquid Droplet Size  
Determination using Unisim

Presenter:  
**Yousef Al-Adsani**



## THURSDAY, 25 MAY 2023

### ASSET INTEGRITY

Session Chair:  
**Faisal Al-Yahyaai**



**10:10 - 10:30**

Oman LNG Sustainable Leak  
Management Journey

Presenter:  
**Rahma Al-Muqbali**



**10:30 - 10:50**

Sour Gas and Acid Gas compression: What  
Could Go Wrong from the Chemist Point  
of View?

Presenter:  
**Dr. Robert A Marriott**



**10:50 - 11:10**

Single Pack Moisture Cured Urethane for  
Rehabilitation of Steel Structures in Urea  
Export Gallery

Presenter:  
**Manaf Al-Muataz**



**11:10 - 11:30**

Cost Optimization with Improved Safety  
for Projects and Turnarounds using a  
Novel Radiography Method-CPR (Close  
Proximity Radiography)

Presenter:  
**Moath Al-Wasmi**



## POSTER SESSION

### 11:30 - 11:50 GRAND BALLROOM

Replacement of 33KV AIS TO GIS

Presenter:

**Arwa AL-Mukhaini**



### 11:30 - 11:50 JUNIOR BALLROOM

Exploring Eastman's Digital Platform for Heat Transfer Fluid Management

Presenter:

**Ankur Verma**



BS-150 CCC Turbine Control System - Simplex to Duplex Upgrade

Presenter:

**Amine Al-Kandari**



Evolution of Johnson Matthey's PURASPEC absorbents

Presenter:

**Adnan Ghani  
Farah Al-Attal**



Integrating a Heat Exchanger in a Debutanizer System

Presenter:

**Osamah Al-Moabade  
Hae Yong Noh**



Pilot Study for Predicting Emissions from Boilers and Fired Heaters in MAA Refinery

Presenter:

**Ahmed Maslough**



### 11:50 - 13:00 PRAYER & LUNCH BREAK

## DAY 3 - AFTERNOON SESSION

### HSE

Session Chair:

**Khalid Al Farraji**



**13:00 - 13:20**

A Zero-Flare Approach to Sustainable Small Field Development: Sadad North a Case Study

Presenter:

**Mustafa Al-Lawati**



**13:20 - 13:40**

Air Quality Improvement and Emission Minimization

Presenter:

**Abdulaziz Al-Mashabi**



**13:40 - 14:00**

Advanced Technologies for Recovering Flared Gas Towards Zero Routine Flaring

Presenter:

**Saif Al-Humaimi**



## THURSDAY, 25 MAY 2023

### HSE

Session Chair:

**Khalid Hooti**



**13:00 - 13:20**

Mitigating Corrosion of Processing High CO<sub>2</sub> Gas streams in Amine Systems

Presenter:

**Benjamin Spooner**



**13:20 - 13:40**

pH Online Analyzer

Presenter:

**Abdulrahman Al-Hashm**

**Ahmed Al-Ameri**



**13:40 - 14:00**

Novel Production Enhancement Approach – Multi-Stage Acid Frac to Improve Gas Production and Maximize Reserve of the Tight Dolomite Layers in the Bahrain Field

Presenter:

**Mohamed Shamlooh**



**14:00 - 14:30**

**CLOSING REMARKS & RAFFLE DRAW**



## 21 - 22 MAY 2023 | PRE - CONFERENCE WORKSHOPS

07:30 - 08:30

**Registration**

08:30 - 15:00

**Workshops Timing**

**Workshop 1**

**Amine Treating**

**Benjamin Spooner**  
Process Engineer



**Workshop 2**

**Basic Principals of Acid Gas Treatment and Carbon Capture Technologies, Digitalization**

**Ashraf Abu Faris**  
Senior Technical Marketing Manager

**Philip Le Grange**  
Technical Marketing Manager

**Elena Petriaeva**  
Technical Marketing Manager

**Feras Kordi**  
Process Engineer



**Workshop 3**

**The Energy Transition – Key Opportunities and Challenges for the Middle East**

**Ron Frend**  
Council Manager

**Conrad Dziobon**  
Human Resource Management & Development

**PetroSkills**

#### Workshop 4

### LNG Liquefaction Plants Optimization Strategies

**Malcolm Harrison**

Chief Process Engineering

**Andy Gibbins**

Chemical Engineer

**PetroSkills®**

#### Workshop 5

### Gas Processing

**Ganank Srivastava**

ProMax® Engineering Consultant – Middle East & South Asia

**Mostafa Shehata**

ProMax® Engineering Consultan – Africa & Middle East



#### Workshop 6

### Filtration and Separation

**Pavlos Papadopoulos**

Market Development Manager



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EXPERTS  
Member of the SGS Group








**For more information, please contact:**

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