

PROGRAMME

TECHNICAL COMMITTEE

Mario H Valderrama (Co-Chair)	Aramco
Alejandro Rodriguez (Co-Chair)	ADNOC
Raymond Jellema	ADNOC
Federico Games	Ad Terra
Ahmed Alghamdi	Aramco
Nicolas Foote	Badley Ashton
Carlos Granado	Computer Modelling Group Limited
Ali Alfaraj	DGS
Jonathan Pye	DNV
Syrie Crouch	Independent Consultant
Mohammad Haidar	KOC
Naif AlQahtani	NCVC
Alberto Ortiz	Net Zero Carbon Solutions
Ahmed Sabry	SLB
Wael Abdallah	SLB
Oskar Vidal Royo	Terractiva
Kim Senger	The University Centre in Svalbard
Laurent Fontanelli	UniLaSalle
Liao Kunpeng	Viridien

WORKSHOP OVERVIEW

CCS/CCUS technologies have emerged as critical solutions for mitigating greenhouse gas emissions, particularly in the rapidly industrializing and urbanizing Middle East region. Both the subsurface technical knowledge and related data sets of the petroleum industry are major inputs required for the world to successfully move towards a carbon-neutral and sustainable energy future. The Middle East with its exceptional petroleum systems and wealth of subsurface knowledge is a prime candidate to lead the CCS efforts worldwide.

The goals of the workshop are to promote knowledge sharing on the latest capture, transport and storage advances from renowned experts and industry professionals, focus on subsurface workflows for CCS evaluation through technical presentations, accelerate further consideration of the application of mainstream CCS technologies in the Middle East region, and exchange ideas and issues around CCS technology. The workshop will also shed light on CCUSfocused climate action strategies along with CCUS economic and business models with a view on Carbon market opportunities, to exchange valuable and actionable insights, the First EAGE/ AAPG/ SEG Carbon Capture Utilisation and Storage Workshop (CCUS) will bring together the expertise from subsurface specialists including geologists, geophysicists, geochemists, well design and operations. reservoir engineers, project managers, and petrophysicists, as well as research and academia.



WORKSHOP TOPICS

1. CCS/CCUS in the Context of the Middle East

- The role of the Middle East in global CCS initiatives
- Leveraging petroleum industry expertise for CCS development
- The Middle East's geological suitability for CO2 storage
- Challenges and opportunities for CCS in rapidly urbanizing regions
- International Standards in the Middle East context: ISO and others

2. Subsurface Workflows for CCS Evaluation Reservoir and overburden characterization for CO2 storage

- The role of core in characterizing a CCS storage complex
- Changes in Rock Properties Due to CO2 Injection
- Specific data collection for CCS project: shallow logs, water elemental analysis...
- Modeling and simulation of CO2 injection and storage: from wellhead
- Lessons from EOR (Enhanced Oil Recovery) for CCS
- Role of seismic imaging in evaluating CCS reservoirs
- Dynamic Reservoir Behavior and Long-Term Storage Feasibility
- Geochemistry & Geomechanics workflows
- Interaction between reservoirs and seals

3. Machine Learning/Al for Subsurface / Production for CCS

- Automated baseline data utilization for natural events discrimination
- MMV data feed to digital twin for Automated/assisted Asset Performance and optimization
- MMV data feed for Automated/assisted carbon credits and LCA certification

4. Deployment of CCS Technologies in the Middle East

- Current CCS projects and pilot studies in the region
- Regulatory frameworks and policies for CCS deployment
- Role of national oil companies (NOCs) in advancing CCS
- Public-private partnerships for CCS projects
- Lessons from global CCS projects?



5. Plume migration and Leakage Monitoring for CSS

- Baseline recording: biosphere, atmosphere, hydrosphere, passive seismic and ground elevation – technology selection and strategies
- EM, Seismic, Spot seismic and other imaging techniques
- Monitoring and verification techniques for secure storage
- Detecting CCS induced micro-seismicity
- Full chain Risk Register as input to MMV program

6. Multidisciplinary Collaboration in CCS Projects

- Cross-industry knowledge sharing for successful CCS deployment
- Bridging the gap between academia, research, and industry in CCS: pilots and experimental data
- Contributions of geologists, geophysicists, geochemists, well geomechanics, and petrophysicists, and Well & reservoir engineers in CCS

7. Challenges and Solutions in CCS Deployment

- Addressing technical, financial, and operational challenges
- CO2 product specifications: full chain integrity vs capture cost
- Compositional assurance and metering
- Subsurface implications of the impurity of the CO2 stream
- Building infrastructure to support large-scale CCS operations

8. Future Directions for CCS in the Middle East

- CO2 import: shipping
- Geological Challenges in Multi-Zone Storage Systems
- Emerging trends and research in CCS technologies
- Scaling up CCS to meet global climate goals
- Opportunities for innovation and investment in CCS
- Risks of evolving regulations to CCS projects
- Economics and financing of CCS projects
- Long term liabilities sharing mitigation

EAGE COURSE

Effective CO2 subsurface storage and utilisation by understanding coupled thermohydro-chemical-mechanical processes

Instructed by Eric Mackay (Heriot-Watt University)

About the instructor



Eric Mackay holds the Energi Simulation Chair in CCUS and Reactive Flow Simulation in the Institute of GeoEnergy Engineering at Heriot-Watt University, where he has worked since 1990. His research interests include the study of fluid flow in porous media, such as the flow of oil, gas and water in subsurface

geological formations. He has over 100 publications related primarily to maintaining oil production when faced with mineral scale deposition, but since 2005 he has also worked on Carbon Capture and Storage. He is involved in projects identifying methods for calculating secure CO2 storage potential in saline formations and depleted hydrocarbon reservoirs.

SHORT COURSE OVERVIEW

The course discusses the various objectives of subsurface injection of CO2 in hydrocarbon bearing formations, in aguifers, and in combined systems, and how the effectiveness of delivering on these objectives may be assessed. Specifically, the following topics will be covered: CO2 displacement in a porous medium, assessment of pressure management and saturation profiling, the impact of prioritizing hydrocarbon recovery or carbon sequestration, and the trade-offs and potential synergies between the two. Evaluating the risks for CO2 storage is a key aspect in determining the technical viability of such projects. This course will explain coupled phenomena in terms of i) impacts on hydrocarbon displacement, ii) reservoir conformance and iii) storage integrity by discussing the principles of coupled processes affected mainly by changes in pressure, temperature and geochemistry in subsurface formations. These changes will affect flow and transport as well as geochemical integrity and impact the long-term predictability of hydrocarbon recovery and CO2 conformance and containment. Through this course you will learn how coupled processes are implemented in real-world CO2 storage projects to assess related risks. You will gain an understanding of the coupled processes in CO2 storage reservoirs to make your own assessment of short to longterm risks for reservoir performance prediction and CO2 containment, and you will obtain an introduction into the fundamental coupled processes expected to occur in the subsurface.

WORKSHOP COURSE

Navigating the Complexities of Project Delivery in CCUS Projects

Instructed by Dr. Hooman Haghighi & Suhail Diaz Valderrama (Wood)

About the instructors



Dr Hooman Haghighi is a prominent industry leader in engineering and decarbonisation solutions, highly experienced in providing consultancy services across the energy and materials markets to major industrial partners around the globe. Based in the UK, Hooman is the first or co-author of over 40 refereed

journals, publications, and industry guidelines, primarily concerning hydrogen, carbon capture, and storage (CCS) – two of the world's fastest-growing energy transition solutions. With a Ph.D. in petroleum engineering, his career is marked by involvement in energy, energy transition and decarbonisation projects worldwide, serving as the Technical Authority for Carbon Capture and Storage (CCS), Hydrogen, and Flow Assurance. Additionally, as the "UK Expert" at the British Standard Institution (BSi), he is involved in the development of European and British Standards for CCS. Hooman is now responsible for the definition and application of solutions in the decarbonisation and energy transition space, identifying opportunities for clients in the race to achieve net zero.



Suhail is an energy professional with 25 years of extensive experience in oil & gas, strategy, decarbonization, sustainability, and new energies. Suhail has gained rich international and multicultural experience serving in Latin America, the North Sea, and Middle East markets with proven

experience as a business consultant, and successful track record of identifying and executing innovative solutions that encompass the entire energy value chain. She holds an MBA, MSc in Petroleum Production Engineering, Specialization in Reservoir Engineering and a BSc in Chemical Engineering in addition to numerous licenses and certifications relating to her passion in the energy transition domain (EMP, LCA, H2, GRI, etc). Suhail is credited with many publications as part of SPE Board Committees in the UAE, acting as Chair of Gaia and Sustainability communities, leading a MENA Hydrogen Working Group, and actively participating in global and regional events as a paper author, technical committee member, speaker, moderator, and mentor. Suhail has different roles in important companies in the region and recently joined Wood as the Director – Future Energy – Middle East in the Abu Dhabi office, with the role to drive and direct a world class team to help customers deliver their decarbonisation aspirations and goals here in the region.



SHORT COURSE OVERVIEW

TBC

Keynote Speakers



Hanan BalalaaSenior Vice President, New Energies & CCUS *ADNOC*



Almohannad Alghamdi EXPEC CO2 Champion *Aramco*

Keynote Title: Carbon Capture, Utilization & Sequestration (CCUS): From R&D to field deployment



Dr. Mohammad Abu Zahra Head of MENA Region *Global CCS Institute*

Keynote Title: MEA Region CCUS Status, Potential and Opportunities



Chiara CavalleriReservoir Performance Petrophysics Domain Champion *SLB*

Keynote Title: The Critical Role of Subsurface Formation Evaluation in CCUS: Technology Application and Case Studies



PANEL DISCUSSIONS

Panel 1: Advances and Challenges in Carbon **Storage Exploration**

Tuesday, 21 October 2025 | 11:00AM - 12:00PM (UTC+3)

Moderator



Suhail Diaz Valderrama Director Future Energies Middle East-Eastern Hemisphere Wood

Panelists



Nabil Al-Bulushi Technology & Innovation Manager PDO



Mostafa Ahmed Manager, Carbon Storage Exploration Division Aramco



Marylena Garcia Managing Senior Vice President- Head of Sustainable Energy Division Ryder Scott



Amir Hermes New Energy Business Development Manager

Panel 2: Challenges and Solutions in **CCS Deployment**

Wednesday, 22 October 2025 | 13:20PM - 14:20PM (UTC+3)

Moderator



Georges Badawi Senior Director - Energy Transition S&P Global

Panelists



Steve Hollingworth Carbon Storage Integration Manager Viridien



Abdulaziz Tubayyeb Manager Reservoir Management Dept/Carbon Capture/Sequestration Division Aramco



Joel Flitton Head of Commercial MENA/APAC/SAM Director Carbon Removals Capturi



TECHNICAL PROGRAMME

Oral Presentations | Monday, 20 October

A1 .L	URALL MEETING BOOM	DAS	TANUDA MEETING DOOM
AL JUBAIL MEETING ROOM Effective CO2 Subsurface Storage and Utilization by Understanding Coupled Thermo- Hydro-Chemical-Mechanical Processes		RAS TANURA MEETING ROOM Navigating the Complexities of Project Delivery in CCUS Projects Suhail Diaz Valderrama & Dr. Hooman Haghighi (Wood)	
08:00	Nackay (Heriot-Watt University) Registration & Welcome Coffee		
08:55			
09:00	Session 1: Introduction to CCUS and Understanding the Fluids	09:00	Safety Track Record of CCS Projects
		09:20	Global & Regional CCS Perspective
		09:40	Industrial Cluster Definition & KSA Locations
		10:00	Complexities in Managing CCUS Projects
10:30	Morning Coffee Break		
11:00	Session 2: Plume Management	11:00	Case Study: Typical Industrial Cluster Schematics / Gas Phase Gathering Pipeline
		11:40	Challenges- CCS Projects & Examples
		12:00	Q&A/ Discussion
12:20	Lunch Break - Horizon Restaurant		
13:20	Session 3: CO2 EOR and Pressure Management	13:20	CCS Hub Projects – The Role of CO2 Specifications for Success Full Project Delivery
14:50	Afternoon Coffee Break	14:50	Afternoon Coffee Break
15:20	Session 4: Introductory Geochemistry and Halite Management	15:20	The Role of Digital Solutions to Accelerate and Enabling CCS Projects
		16:00	Lessons Learned
		16:20	0&A/ Discussion
		16:35	End of Short Course
16:50	End of Short Course		

	Presentations Tuesday, 21 October		
SULT	ANA BALLROOM (PART 3&4)		
07:30	Registration & Welcome Coffee		
08:15	HSSE From Hotel		
08:20	Opening Remarks by Co-Chairs Alejandro Rodriguez (ADNOC) & Mario H Valderrama (Aramco)		
08:30	Opening Address by TBC (Aramco)		
08:45	Management Overview - Hanan Balalaa (ADNOC)		
Midd	Session 1 - CCS/CCUS in the Context of the Middle East		
	on Chairs: Jonathan Pye (DNV)& Abdallah (SLB)		
09:15	Keynote 1 - MEA Region CCUS Status, Potential and Opportunities - Dr. Mohammad Abu Zahra (Global CCS Institute)		
09:45	Interactions of Iron and Associated Minerals with CO2 in Paleozoic Sandstones of Saudi Arabia - C. Munoz Martinez ^{1*} , A. Al-Yaseri ¹ , H. Al-Mukainah ² , K. Al-Ramadan ¹ ¹ Geosciences Department, College of Petroleum Engineering and Geosciences, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia; ² Center for Integrative Petroleum Research (CIPR), College of Petroleum Engineering and Geosciences, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia.		
10:05	Achieving Net Zero Carbon Emissions through CCUS in West Kuwait Fields - M. Alzamanan ^{1,2*} ¹Kuwait Oil Company; ²D&M		
10:25	Morning Coffee Break		
in C	el Session 1 - Advances and Challenges arbon Storage Exploration erator: Suhail Diaz Valderrama, Wood		
11:00	Panelists: • Marylena Garcia, Ryder Scott • Nabil Al-Bulushi, PDO • Mostafa Ahmed, Aramco • Amir Hermes, SLB		
11:50	Audience Q&A		
12:00	Lunch Break - Horizon Restaurant		
Session 2 - Subsurface Workflows for CCS Evaluation Reservoir and Overburden Characterization for CO2 Storage Part 1 Session Chairs: Carlos Granado (CMG) & Raymond Jellema (ADNOC)			
13:00	Keynote 2 - Carbon Capture, Utilization & Sequestration (CCUS): From R&D to Field Deployment - Almohannad Alghamdi (Aramco)		

Digital Integration in CCS: A Game-Changing Pilot in the **Middle East Region -** S. Diaz¹, J. Henriksson¹, A. Rodriguez², H. Haghighi1*, R. Jellema², M. Aneke¹, L. Calderon²

Lessons Learned from Brazilian Technical Evolution: CO2 WAG EOR that has Delivered 50Mt of CO2 Storage -

CCS Challenges in Heterogeneous Carbonates: Identification

De-risking Geochemical/Mechanical Impacts of the Injection

and Storage of Impure CO2 in a Carbonate Reservoir - R. Van

and Characterization of Microporosity Facies as Barriers for CO2 Injectivity - R. Jordan Leite1*, Y.E. Jing1, H.M. Jubran1,

13:30

13:50

14:10

14:30

¹Wood: ²ADNOC

P.T. Madeira Pinto¹ ¹Saudi Aramco

P. Gusmão¹*, E. Mackay²¹Petrobras; ²Heriot-Watt University

Noort1*, A. Rodriguez-Martinez2

¹IFE Institute for Energy Technology; ²ADNOC

Poster Session 1 Lightning Session - Presenters introducing their posters Enhancing Carbon Storage Simulation Models for Regulatory Purposes: An Adaptive Multiscale Coarsening Grid -G. Oliveira^{1*}, D. Mercado², S. Singh³, V. Lara⁴ ¹ Computer Modelling Group; ²Computer Modelling Group; ³Computer Modelling Group; ⁴Computer Modelling Group Reactive Transport Simulation of CO2 Injection Effects on the Hith Caprock Integrity - A Preliminary Analysis. - M. Maigana^{1*}, A. Alshuhail¹ ¹King Fahd University of Petroleum and Minerals **Geomechanical Charaterization of Montney Turbidites** for Secondary Carbon Storage in the Western Canada Sedimentary Basin - A. Mascarenhas¹, E. Muniz^{2*} ¹University Of Toronto; ²SLB Advanced 4D Seismic Quantification of a Saline Aquifer Carbon Storage: Insights from Sleipner, Norway. -E. Omonigho1* ¹ADNOC HQ. Upstream Directorate 15:00 Poster Presentations at the Coffee Break Area **Session 3 - Deployment of CCS Technologies** in the Middle East Session Chairs: Wael Abdallah (SLB) **Acoustic Velocity Characterization for CO2 Storage in Saline Aquifer Carbonates: An Experimental Study** - M. Janssen^{1*}, O. Kirstetter¹, S. Nizamuddin¹, I. Mohammed Ismail¹, R. Farmer¹, S. Shah¹, A. Rodriguez Martinez¹ ¹Abu Dhabi National Oil Company **DAS-VSP Application to Monitor CO2 Injection Within a** 15:50 Carbonate Saline Aquifer Onshore UAE: a Quantitative Approach - O.H. Kirstetter^{1*}, G. Cambois¹, J. Mason¹, J. Cowell¹, M. Waqas¹, M. Mahgoub¹ ¹ADNOC **Automated CO2 Detection by Focused Seismic Monitoring** using Optical Fiber DAS-VSP Data - J. Mari¹, H. Al Khatib¹, J.A. Cowell², G. Cambois², O.H. Kirstetter², J. Mason², C. Cosson^{1*} ¹SpotLight; ²ADNOC 16:30 **Closing Remarks by Chairs**



16:40

End of Day 1

Oral	Presentations Wednesday, 22 October				
SULTANA BALLROOM (PART 3&4)		11:40			
07:30	Registration & Welcome Coffee		A. Dugstad ^{1*} , B. Morland ¹ , G. Svenningsen ¹ , A. Raju ² , W. Al Shouly ² I. Ismail ² , A. Rodriguez Martinez ²		
08:00	Welcome by Co-Chairs Alejandro Rodriguez (ADNOC) & Mario H Valderrama (Aramco)	12:00	¹ Institute For Energy Technology; ² ADNOC		
Session 4 - Subsurface Workflows for CCS Evaluation Reservoir and Overburden		12.00	Challenges of Mid-Stream Operators in CCUS Value Chain - R. Gopinath ^{1*} , V.M. Kapuria ¹ ¹ ADNOC		
	racterization for CO2 Storage Part 2	12:20	Lunch Break - Horizon Restaurant		
Session	on Chairs: Laurent Fontanelli (UniLaSalle)	Pane	el Session 2 - Challenges and Solutions in		
08:10	Keynote 3 - The Critical Role of Subsurface Formation Evaluation in CCUS: Technology Application and Case Studies - Chiara Cavalleri (SLB)		Deployment erator: Georges Badawi (S&P Global)		
08:40	Utilization of Downhole Fiber Optics to Monitor Injection Within a Carbonate Saline Aquifer Onshore Abu Dhabi - J. Mason ^{1*} , G. Cambois ¹ , J. Cowell ¹ , O. Kirstetter ¹ , A. Martinez ¹	13:20	Panelists: • Abdulaziz Al Tubayye, Aramco • Steve Hollingworth, Viridien • Joel Flitton, Capturi		
00.00	ADNOC	14:10	Audience Q&A		
09:00	Aquifer Size, Seal Strength Effects on CO2 Storage Capacity, a Case Study in the Middle East - M. Valderrama ^{1*} , A. Ghamdi ¹ 'Aramco	Mon	ion 6 - Plume Migration and Leakage itoring for CSS		
09:20	Integrated Simulation of Multiphase CO2 Flow in CCS: A Field-Validated Approach - R. Malakooti ² , J. Villar ^{1*} ,		Session Chairs: Kunpeng Liao (Viridien) & Ahmed S. Ghamdi (Aramco)		
	K. Morgensen ³ , A. Rodriguez ³ , M. Aikman ³ ¹ CMG Middle East; ² Computer Modelling Group; ³ ADNOC	14:20	The Impact of Depositional Environment on the Fate of CO2 Plume: Case Study from Saudi Arabia - J. Zhou¹*, S. Egbeni,		
09:40	Thermo-Mechanical Coupled Modeling to Assess CO2 Storage Integrity in a Depleted Gas Reservoir - J. Guerra ^{1*}		A. Ghamdi, H. Daif ¹Saudi Aramco		
Post	er Session 2	14:40	CCS Monitoring Using Time-Lapse Walkaway VSP in the West of China - G. Yu ^{1*} , J. Huang ¹ , Y. Wang ¹ , Y. Chen ¹ 1BGP Inc. CNPC		
10:00	Lightning Session - Presenters introducing their posters	15:00			
	Advanced Mineralization of CO2 in Basaltic formations: Implication for CO2 storage - J. Mouallem ^{1*} , M. Arif ¹ , M. Mahmoud ² , A. Raza ²	13.00	A Real-time, Cost-effect and Integrated MMV Solution for Real-time and Continuous Carbon Storage Monitoring - M. Hedefa*, T. Chen 'Arabian Geophysical and Surveying Co. (ARGAS); ² SensorEra Inc		
	¹ Khalifa University; ² King Fahd University of Petroleum and Minerals	15:20	Afternoon Coffee Break		
	Challenges and Solutions in CCS Deployment: Overcoming Technical, Financial, and Operational Barriers - N. Boppana ^{1*} ¹The University Of Texas Permian Basin	15:50	Tracer-based MMV Technology – Qualification and Results from One Year of Monitoring of Middle-East Storage Project - S.K. Hartvig¹*, T.I. Aarhus¹, Ø. Dugstad¹, J.A. Cowell², J. Mason²		
	Conceptual Plan to Remediate and Abandon Legacy Wells within a CCS Storage Complex - H. Graterol Donaire1*, T. Magalhaes1 'Slb		¹RESMAN Energy technology; ²ADNOC Upstream		
		16:10	Cross-well Imaging for Monitoring CO2 Plumes at Svelvik CO2 Field Lab - Y. Yang ^{1*} , D. Urozayev ² , N. Barbosa ² , A. Ghaderi ² O.M. Saad ¹ , T. Alkhalifah ¹		
10:10	Poster Presentations at the Coffee Break Area		¹ King Abdullah University of Science and Technology; ² SINTEF Industry		
	ion 5 - Challenges and Solutions in Deployment	16:30	Closing Remarks by Chairs		
	on Chairs: TBC	16:40	End of Day 2		
10:40	Subsurface Constraints for CO2 Specifications in	18:00	Workshop Dinner at Local Restaurant		
	Geological CCS: A Focus on the Middle East - V. Yarushina ^{1*} , Y. Podladchikov ² , L. Khakimova ² , I.M. Ismail ³ , T. Koksalan ³ ¹Institute for Energy Technology; ²University of Lausanne; ³ADNOC				
11:00	An Efficient CCS Development Strategy that Optimizes Costs whilst Decreasing Subsurface Uncertainty - P. Zapico¹*, A. Clark¹, R. Jordan Leite¹, D. Shaukry¹¹Saudi Aramco				

Pertamina's CCS Hub Development in Indonesia: Driving Net Zero and Regional Carbon Storage Leadership - D. Ardiyanta^{1*}, D. Mersitarini¹, A. Widowati¹, I. Mahendra¹, A.F. Farabi¹, M.A. Fauzi¹ ¹PT. Pertamina (Persero)

11:20



Oral Presentations | Thursday, 23 October

07.20	LROOM (PART 3&4)		ion 7 Con't - Subsurface Workflows for Evaluation Reservoir and Overburden	
07:30	Registration & Welcome Coffee	Characterization for CO2 Storage Part 4		
08:00	Welcome by Co-Chairs Alejandro Rodriguez (ADNOC) & Mario H Valderrama (Aramco)	Session Chairs: Nicolas Foote (Badley Ashton)		
Eval Cha	sion 7 - Subsurface Workflows for CCS uation Reservoir and Overburden racterization for CO2 Storage Part 3 on Chairs: TBC	10:20	CCS Plume Dynamics History Matching and Uncertainty Assessment through Integrated Numerical Simulation and 4D Seismic Interpretation - R. Solatpour ^{1*} , G. Oliveria ¹ , F. Yatte ¹ A. Alvarez ¹ , S. Fernandes ² ¹ CMG; ² Bluware	
08:10	MATLAB Carbon Sequestration Model: Simulating Vertical Equilibrium for CO2 Storage in Geological Formations - A. Yaseri¹*, F. Pol¹, C. Wells², K. Andreas³ ¹CES - MATLAB in the Middle East; ²MathWorks; ³SINTEF	10:40	Rock Permeability Effect on Residual CO2 Trapping Efficiency in Carbonate Formations - J. Mouallem¹*, M. Arif¹, M. Mahmoud², A. Raza²¹'Khalifa University; ²King Fahd University of Petroleum and Mineral	
08:30	Chalk as a Strategic CO2 Storage Medium: Experimental Insights into Reactivity and Flow Dynamics - W. Al-Masri¹*, B. Rostami¹, K. Blinkenberg¹, S. Johansson², U. Kakemem², S. Mohammadkhani¹, P. Frykman¹, K. Anderskouv², H. Petersen¹	11:00	Assessing the Potential of Open Saline Aquifer for Carbon Storage in Kuwait - M. Al-Awadhi ^{1*} , M. Huuse ² , C. Hollis ² 'Kuwait Oil Company / University of Manchester; ² University of Manchester	
08:50	¹Geological Survey of Denmark and Greenland; ²University of Copenhagen Enhancing Data Acquisition to Improve Static Modeling of	11:20	Subsurface Characterization of Sandy Reservoirs for CO2 Sequestration - F.O. Escosa ¹ , O. Vidal ^{1*} , A. Amilibia ¹ ¹ Terractiva Consulting	
	Carbon Sinks - Z. Alabdulmohsen ^{1*} , E. Elsherif ¹Saudi Aramco	11:40	Using Play-based Exploration to High Grade Areas for CO2 Storage - R. Siddiqui ^{1*} , J. Ismail ¹	
9:10	Thermal Dynamic Simulation for modelling Carbon Dioxide Storage in Depleted Gas Reservoirs - Workflow and Advantages - A.R. Shah¹, C. Golaco², V. Stashevsky¹*, C. Rat¹,		¹Saudi Aramco	
		12:00	Lunch Break - Horizon Restaurant	
	H. Hasan ¹ , M. Povstyanova ¹ , M. Shaykhattarov ¹ , M. Robert ² ,	5000		
Post	J. Guerra ¹ , M. Shady ¹ , A. Bentaher ² 'SLB; ² SNOC er Session 3	CCS Cha	ion 7 Con't - Subsurface Workflows for Evaluation Reservoir and Overburden racterization for CO2 Storage Part 5 on Chair: Jonathan Pye (DNV)	
	¹SLB; ²SNOC er Session 3 Lightning Session - Presenters introducing their posters	CCS Cha	Evaluation Reservoir and Overburden racterization for CO2 Storage Part 5 on Chair: Jonathan Pye (DNV) Independent Third Party Integrated Multi-disciplinary CCUS Characterization and Evaluations - R. Decesaril*, M. Garcia ¹	
	¹SLB; ²SNOC er Session 3	CCS Cha Sessio	Evaluation Reservoir and Overburden racterization for CO2 Storage Part 5 on Chair: Jonathan Pye (DNV) Independent Third Party Integrated Multi-disciplinary CCUS Characterization and Evaluations - R. Decesari ^{1*} , M. Garcia ¹ 'Ryder Scott Company A Multidisciplinary Subsurface Evaluation of the CO2	
	¹SLB; ²SNOC er Session 3 Lightning Session - Presenters introducing their posters An Integrated Deep Learning Framework for Predictive CO2 Storage Modelling - J. Ali¹*, W.K. Mohanty¹, S. Sarkar¹ ¹Indian Institute of Technology Kharagpur Assessing Fault Reactivation Risk in CO2 Storage Using the Slip Tendency Method and Coupled Geomechanical	CCS Cha Session 13:00	Evaluation Reservoir and Overburden racterization for CO2 Storage Part 5 on Chair: Jonathan Pye (DNV) Independent Third Party Integrated Multi-disciplinary CCUS Characterization and Evaluations - R. Decesari ^{1*} , M. Garcia ¹ 'Ryder Scott Company A Multidisciplinary Subsurface Evaluation of the CO2	
	Presenters introducing their posters An Integrated Deep Learning Framework for Predictive CO2 Storage Modelling - J. Ali ^{1*} , W.K. Mohanty ¹ , S. Sarkar ¹ Indian Institute of Technology Kharagpur Assessing Fault Reactivation Risk in CO2 Storage Using	CCS Cha Session 13:00	Evaluation Reservoir and Overburden racterization for CO2 Storage Part 5 on Chair: Jonathan Pye (DNV) Independent Third Party Integrated Multi-disciplinary CCUS Characterization and Evaluations - R. Decesaril*, M. Garcia¹¹Ryder Scott Company A Multidisciplinary Subsurface Evaluation of the CO2 Sequestration Potential and Risks Associated with Rift Basi Settings - A. Clark¹*, P. Zapico Palmero¹, J. Cherdasa¹, J. Fedorik¹	
	Physicochemical interactions between Carbonates/Brine/CO2 and their impact on Residual Trapping: Application for CO2 geo-storage - J. Mouallem ^{1*} , M. Arif ¹ , M. Mahmoud ² ,	13:20	Evaluation Reservoir and Overburden racterization for CO2 Storage Part 5 on Chair: Jonathan Pye (DNV) Independent Third Party Integrated Multi-disciplinary CCUS Characterization and Evaluations - R. Decesari ^{1*} , M. Garcia ^{1*} 'Ryder Scott Company A Multidisciplinary Subsurface Evaluation of the CO2 Sequestration Potential and Risks Associated with Rift Basi Settings - A. Clark ^{1*} , P. Zapico Palmero ¹ , J. Cherdasa ¹ , J. Fedorik ^{1*} 'Saudi Aramco Afternoon Coffee Break Dissolved CO2 Storage: A Novel Solution for CCS in the Red	
	Physicochemical interactions between Carbonates/Brine/CO2 and their impact on Residual Trapping: Application	13:20	Evaluation Reservoir and Overburden racterization for CO2 Storage Part 5 on Chair: Jonathan Pye (DNV) Independent Third Party Integrated Multi-disciplinary CCUS Characterization and Evaluations - R. Decesaril*, M. Garcia¹¹Ryder Scott Company A Multidisciplinary Subsurface Evaluation of the CO2 Sequestration Potential and Risks Associated with Rift Basi Settings - A. Clark¹*, P. Zapico Palmero¹, J. Cherdasa¹, J. Fedorik¹¹Saudi Aramco Afternoon Coffee Break Dissolved CO2 Storage: A Novel Solution for CCS in the Red Sea Rift Basins - J. Ye¹*, P. Lu¹, J. Almeida De Carvalho¹, W. Wei¹Saudi Aramco; ²Aramco Asia A Subsurface Scenario Modelling Approach for Evaluating CO2 Storage Potential in Saline Aquifers N. Din¹*, H. Daif¹,	
	Physicochemical interactions between Carbonates/Brine/CO2 and their impact on Residual Trapping: Application for CO2 geo-storage - J. Mouallem ^{1*} , M. Arif ¹ , M. Mahmoud ² , A. Raza ² 'Khalifa University; ² King Fahd University of Petroleum and Minerals Managing Multi-Disciplinary Risks Across the CCS Value Chain: Integrating Surface and Subsurface Assurance -	13:20 13:40 14:10	Evaluation Reservoir and Overburden racterization for CO2 Storage Part 5 on Chair: Jonathan Pye (DNV) Independent Third Party Integrated Multi-disciplinary CCUS Characterization and Evaluations - R. Decesari ^{1*} , M. Garcia ^{1*} 'Ryder Scott Company A Multidisciplinary Subsurface Evaluation of the CO2 Sequestration Potential and Risks Associated with Rift Bas Settings - A. Clark ^{1*} , P. Zapico Palmero ¹ , J. Cherdasa ¹ , J. Fedorik ^{1*} 'Saudi Aramco Afternoon Coffee Break Dissolved CO2 Storage: A Novel Solution for CCS in the Red Sea Rift Basins - J. Ye ^{1*} , P. Lu ¹ , J. Almeida De Carvalho ¹ , W. We 'Saudi Aramco; ² Aramco Asia A Subsurface Scenario Modelling Approach for Evaluating	
	Physicochemical interactions between Carbonates/Brine/CO2 and their impact on Residual Trapping: Application for CO2 geo-storage - J. Mouallem ^{1*} , M. Arif ¹ , M. Mahmoud ² , A. Raza ² 'Khalifa University; ² King Fahd University of Petroleum and Minerals Managing Multi-Disciplinary Risks Across the CCS Value Chain: Integrating Surface and Subsurface Assurance - M. Garcia ^{1*} , R. Jellema ²	13:20 13:40 14:10	Evaluation Reservoir and Overburden racterization for CO2 Storage Part 5 on Chair: Jonathan Pye (DNV) Independent Third Party Integrated Multi-disciplinary CCUS Characterization and Evaluations - R. Decesari ^{1*} , M. Garcia ¹ 'Ryder Scott Company A Multidisciplinary Subsurface Evaluation of the CO2 Sequestration Potential and Risks Associated with Rift Basi Settings - A. Clark ^{1*} , P. Zapico Palmero ¹ , J. Cherdasa ¹ , J. Fedorik ¹ 'Saudi Aramco Afternoon Coffee Break Dissolved CO2 Storage: A Novel Solution for CCS in the Red Sea Rift Basins - J. Ye ^{1*} , P. Lu ¹ , J. Almeida De Carvalho ¹ , W. We 'Saudi Aramco; 'Aramco Asia A Subsurface Scenario Modelling Approach for Evaluating CO2 Storage Potential in Saline Aquifers N. Din ^{1*} , H. Daif ¹ , M. Valderrama ¹ , M. Bakri ¹	
Post 09:30	Physicochemical interactions between Carbonates/Brine/CO2 and their impact on Residual Trapping: Application for CO2 geo-storage - J. Mouallem ^{1*} , M. Arif ¹ , M. Mahmoud ² , A. Raza ² 'Khalifa University; ² King Fahd University of Petroleum and Minerals Managing Multi-Disciplinary Risks Across the CCS Value Chain: Integrating Surface and Subsurface Assurance -	13:20 13:40 14:10	Evaluation Reservoir and Overburden racterization for CO2 Storage Part 5 on Chair: Jonathan Pye (DNV) Independent Third Party Integrated Multi-disciplinary CCUS Characterization and Evaluations - R. Decesari ^{1*} , M. Garcia ^{1*} Ryder Scott Company A Multidisciplinary Subsurface Evaluation of the CO2 Sequestration Potential and Risks Associated with Rift Basi Settings - A. Clark ^{1*} , P. Zapico Palmero ¹ , J. Cherdasa ¹ , J. Fedorik ^{1*} Saudi Aramco Afternoon Coffee Break Dissolved CO2 Storage: A Novel Solution for CCS in the Red Sea Rift Basins - J. Ye ^{1*} , P. Lu ¹ , J. Almeida De Carvalho ¹ , W. Wei 'Saudi Aramco; 'Aramco Asia A Subsurface Scenario Modelling Approach for Evaluating CO2 Storage Potential in Saline Aquifers N. Din ^{1*} , H. Daif ¹ , M. Valderrama ¹ , M. Bakri ¹	

15:35 End of Workshop

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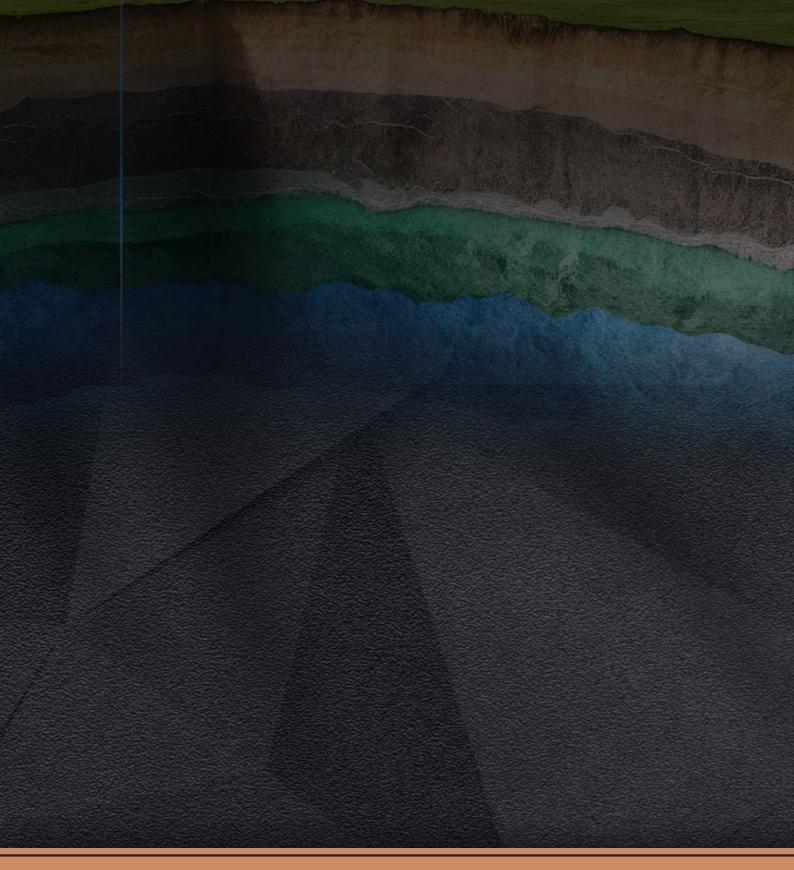
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