



Advances in Carbonate Exploration and Reservoir Analysis

4-5 November 2010

PROGRAMME

Thursday 4 November	
8.00	Registration and Coffee
8.45	Welcome
9.00	Keynote Speaker: Trevor Burchette Industry Perspectives on Carbonates
Session One: Carbonates of the Middle East	
9.25	Keynote Speaker: Andrew Horbury Geometries of Carbonate Depositional Systems their Relevance to Petroleum Systems Distribution in Iraq
9.50	Alun Williams Statoil's Entry Into Iraq: Modelling the Mishrif Formation of West Qurna Phase 2
10.10	Gaynor Paton The Use of 3D Seismic Analysis Techniques for Investigating Carbonate Features in Two Offshore UAE Fields
10.30	Giulio Casini Sub-Seismic Fractures in Foreland Fold and Thrust Belts: Insight from the Lurestan Province, Zagros Mountains, Iran
10.50	Fadhil Sadooni Impact of Growing Structures on Carbonate Facies Differentiation: An Example from the Yamama Formation in West Qurna Field, Southern Iraq
11.10	Coffee and Poster Session
Session Two: Emerging Plays and Concepts	
11.30	Keynote Speaker: Paul Wright Microbial Carbonates in Non-Marine Basins: What Models Could We Use for South Atlantic Microbialite Reservoirs?
11.55	Pete Burgess Bump to Prospect: An Empirical Approach to the Recognition and Characterization of Isolated Carbonate Buildups in Frontier Settings
12.15	Mirosław Slowakiewicz Microbial Deposits as Source Rocks for Hydrocarbons in the Polish Zechstein (Upper Permian) Main Dolomite Carbonates, Western Poland



12.35	Peter Winefield Dead & Shed – A Reappraisal of Resedimented Carbonates as a Viable Carbonate Exploration Play
12.55	Steve Jenkins Modeling Pore Pressure Profiles in Carbonates
13.15	Lunch and Poster Session
	Session Three: Advances in Outcrop Studies
14.00	Keynote Speaker: Paul Harris Integrating Outcrop Analogs, Modern Analogs, and Stratigraphic Models to Enhance Subsurface Reservoir Models for Carbonate Ramps
14.25	Denis Palermo Carbonate Shoal Bodies; Part 1: Outcrop Analog Study and 3-D Model (Triassic, Germany)
14.45	Terry Scarrot Integrated Fracture and Matrix Heterogeneity Reservoir Characterisation of the Mid Cretaceous Aged Upper Sarvak Formation, Chenareh River Gorge, Iran: A Virtual Outcrop Display
15.05	Raffaele Di Cuia Geometric Characterisation of the Fracture and Karst Networks in a Cretaceous Platform Carbonate Sequence of the Tethys Using the Ground Penetrating Radar
15.25	Leehee Laronne Ben-Itzhak Upper Bound on Stylolite Roughness as Indicator for the Duration and Amount of Dissolution
15.45	Coffee and Poster Session
	Session Four: Faults/Fractures, Karst and Interaction with Sequence Stratigraphy
16.05	Keynote Speaker: Charlie Kerans Reservoir Compartmentalization and Distribution of Matrix and Super-Permeability Zones in Paleokarst Reservoirs: What can be Predicted from Sequence Framework and Unconformity Rank
16.30	Hans Machel The Grosmont: A Complex Dolomitized and Karstified Heavy Oil Reservoir in Devonian Carbonates, Alberta, Canada
16.50	Mickael Barbier Sedimentary Control on the Diagenetic Imprint: Its Impact on the Fracturation Pattern and Reservoir Properties: The Example of the Madison Formation (Sheep Mountain, Wyoming, USA)
17.10	Zsofia Poros Powderization of Triassic Dolostones in the Buda Hills, Hungary - An Unusual Type of Karstification?
17.30	Carl Jacquemyn (Paleo-)Karstreservoir Analogue Study (Murge Area, Southern Italy)
17.50	Hot Buffet
	Session Five: Carbonate Reservoirs in Rift Settings



18.50	Keynote Speaker: Al Fraser Exploration for Carbonate Reservoirs in Rift Settings
19.15	Ian Sharp Mixed Carbonate-Clastic-Evaporite Depositional Systems in Extensional Basins. Insights from the Suez Rift-Red Sea-Gulf of Aqaba
19.35	Cathy Hollis Diagenetic Trends Associated with Syn- and Post-Rift Basin Evolution, Pennine Basin, UK
19.55	End of Day One



Friday 5 November

8.00	Registration and Coffee
8.45	Welcome
Session Six: Impact on Reservoir Quality of Fracture Diagenesis and Burial Karst	
9.00	Keynote Speaker: Susan Agar Deformation Characteristics of Carbonate Reservoirs and Their Significance for Production: Recent Advances & Applications
9.25	John Hooker The Relationship Between Fracture Cement Patterns and Fracture-Set Size Distributions in Carbonate Rocks
9.45	Dave Healy Relative Influence of Depositional and Tectonic Fabrics on the Petrophysical Properties of Carbonate Hosted Faults
10.05	Veerle Vandeginste Fault-Related Dolomitization in Jebel Akhdar (Oman) and its Impact on Reservoir Quality
10.25	Alanna Juerges Fracture Controlled Diagenesis in the Lower Carboniferous (Dinantian) of North Wales: A Case Study for the Evaluation of Fracture-Controlled Diagenesis in Carbonate Reservoirs
10.45	Coffee and Poster Session
Session Seven: Hydrothermal Dolomitisation	
11.05	Hairuo Quing Formation of Hydrothermal vs Non-Hydrothermal Saddle Dolomites in Different Tectonic Settings: Petrographic and Geochemical Constrains
11.25	Julie Dewit Porosity and Permeability of Hydrothermal Dolomite (HTD) Bodies: Distribution and Controlling Parameters (Ranero, Northern Spain)
11.45	Bruno Caline Structurally Controlled Hydrothermal Dolomitisation in the Albian of the Ramales Carbonate Platform (Biscay and Cantabria Provinces, Spain)
12.05	Paola Ronchi Hydrothermal Dolomitization in Platform and Basin Carbonate Successions in Thrust Fold Belt: A Hydrocarbon Reservoir Analogue (Mesozoic of Venetian Southern Alps, Italy)
12.25	Raffaele Di Cuia Genesis and Evolution of Fault Related Dolomitisation in a Jurassic Carbonate Sequence: Impact on 3D Geometries and Reservoir Properties.
12.45	Lunch and Poster Session
Session Eight: Porosity Classification & Evolution	
13.30	Patrick Corbett The Third Porosity: Understanding the Role of Hidden Porosity in Well Test Interpretation in Carbonates



13.50	Rachel Wood Dynamics of Cementation in Response to Oil Charge: Evidence from a Cretaceous Carbonate Field, U.A.E
14.10	Benoit Vincent Acoustic Properties of Ancient Shallow-Marine Carbonates: Effects of Depositional Environments and Diagenetic Processes (Middle Jurassic, Paris Basin, France)
14.30	Peter Gatt Climatic Controls on Porosity in Subtropical Carbonate Platform Reservoirs
14.50	Coffee and Poster Session
	Session Nine: Geomodelling Challenges in Carbonates
15.10	Keynote Speaker: Wolfgang Blendinger Three-Dimensional Modelling of Carbonates: Two Examples from the Permian and the Triassic
15.35	Xavier Janson Geomodeling of Carbonate Mounds Using Two-Point and Multi-Point Statistics
15.55	Florent Lallier Relevance of the Stochastic Sequence Stratigraphic Approach for the Study of Complex Carbonate Settings: Application to the Malampaya
16.15	Andre Jung Carbonate Shoal Bodies, Part 2: Re-Building the 3D Outcrop Analog Model Using Multipoint Statistics
16.35	Chris Wilson Use of Outcrop Observations, Geostatistical Analysis, and Flow Simulation to Investigate Structural Controls on Secondary Hydrocarbon Migration in the Anacacho Limestone, Uvalde, TX
16.55	Closing Comments
17.10	Conference Ends



POSTER PROGRAMME

Day One
Moutaz Al-Dabbas Sedimentological and Depositional Environment Studies of the Mauddud Formation, Central and Southern Iraq
Basim Al-Qayim Reservoir Characterization of an Intra-Orogenic Platform Carbonates of the Pila SPI Formation, Taq Taq Oil Field, Kurdistan, NE Iraq
Ian Sharp Facies, Sequence Stratigraphic and Reservoir Framework for Albian-Turonian Carbonate Depositional Systems of the Middle East, Iran
Alberto Riva Active Intraplatform Depressions in Mesozoic Carbonate Platforms: Evidences and Impact on Exploration and Production
Adam Styles Exploring Shaikan: Early Evaluation of a Billion Barrel Supergiant Field in Kurdistan
Pete Burgess Investigating Carbonate Platform Types: Multiple Controls and a Continuum of Geometries
Cedric John Timing and Mechanism of Sea-Level Changes on the Marion Plateau (NE Australia): Implications for Miocene Eustasy
Alex Sharples A Paleogene Barrier Reef Offshore Southern Australia?
Paul Montgomery An Integrated Approach to Developing a High Resolution Chronostratigraphy in Carbonate Platforms
Claire Sena Facies Control on Early Diagenesis: An Outcrop-Based Study of the Lower Cretaceous Jurf and Qishn Formations, Haushi-Huqf Area, Oman
Sebastien Dirner Heterogeneity of Holocene Coastal Facies: A Modern Production-Scale Analogue for an Arid Monsoon Dominated Carbonate Ramp (Bar Al Hikman, Oman)
Xavier Jansen An Ultra-Deep Paleokarst System in Ordovician, North-Central Tarim Basin, China: High-Resolution 3D Seismic Interpretation

Day Two
Janine Lahr Fracture-Related Diagenesis in the Carbonate Carapace of a Salt Dome, Jebel Madar, Oman



Juan Carlos Laya Bedding, Facies and Fractures in Zechstein (Permian) Carbonates, NE England: Reservoir Implications
Zvi Kul Karcz The Formation and Propagation of Stylo-Fractures
Anne-Lise Jourdan The Carbonate Clumped Isotope Paleothermometer: A New Tool for the Characterization of Diagenesis in Carbonate Reservoirs
Aisha Al Hajri The Distribution and Origin of Porosity Enhancement at the Aptian-Albian Unconformity, Oman
Norman Oxtoby Diagenetic Reactions Occurring in Carbonate Reservoirs During Petroleum Emplacement
Ibrahim Elkanouni Role of Facies and Dolomitisation in Porosity Generation in the Dahra Formation, Middle - Late Paleocene, Western Sirt Basin, Libya
Moyra Wilson Depositional and Diagenetic Evolution of a Papua New Guinean Onshore Carbonate Reservoir: A Combined FMI and Petrographic Evaluation
Paola Ronchi Diagenetic Processes and their Impact on the Petrophysical Properties in Kashagan Carbonate Platform Reservoir (Carboniferous, Kazakhstan).
Peter Fitch Quantifying Numerical Heterogeneity in Carbonate Petrophysical Properties: Application to Geological and Fluid Flow Unit Characterisation
Ali Omid New Approach to Solving the Problems of Petrophysical Evaluation in Carbonate Gas Reservoirs with Isolated Vuggy Porosities
Hassan Mohseni Modeling of Carbonate Reservoirs Using Geostatistics: A Case Study For Estimating of Porosity in "A" Oil Field in Zagros Basin (Iran)
Arnaud Fournillion Characterisation of Karstic Networks by Automatic Extraction of Geometrical and Topological Parameters: Comparison between Stochastically Simulated Networks and Observed Ones
Pauline Collon-Drouaillet Constrained Stochastic Simulation of 3D Branchwork Karsts