A02
Outcrop Investigation of the Lower Palaeozoic Succession of Kufra Basin, SE Libya - First Steps of Targeting Effective Hydrocarbon Plays
K. Tawengi* (Repsol YPF), Y. Ismail (Consultant), S. Shabbo (Repsol YPF), A. Al-Madhuni (Repsol YPF), E. Abushaala (Repsol YPF), J.L. Tornero (Repsol YPF), M. Kresta (National Oil Corporation), Y. Al-Shagruni (Industrial Research Centre) & J. Hernan-Gomez (Repsol YPF)

A03
Kufra, Murzuq and Eastern Sirte Basins a Comparison of the Cambro-Ordovician Sediments and Silurian Source Rock
R. Khalil (Woodside Energy) & F. Belhaj* (TPOC)

A04
A Recipe for Exploration Success in the 21st Century - Exploration Ingredients that Led to BP’s Deep Raven Success Story
T. Afifi (BP International UK) & M.V. Shann* (BP International UK)

A06
An Early Miocene Play Fairway Opener in the Nile Delta, Egypt
J. Siok* (BP Egypt), P. Cook (BP Egypt) & T. Dodd (BP Egypt)

A07
Hydrocarbon Prospectivity and Play Types of the Levantine Basin from Modern Seismic Data
D. Rowlands* (Spectrum Energy and Information Technology), G. Roberts (Spectrum Energy and Information Technology) & D. Peace (SD Exploration Services)

A08
Structural Style Associated Structures on Occidental Saharan Atlas and Petroleum Implications (Algeria) H. Bechiri* (Sonatrach)

A09
Keynote; Exploration in Libya – Opportunities and Frontiers from a Historical Perspective
John Winterman, President and General Manager* (OXY Libya)

A10
Genetic Basin Analysis and Paleoenvironmental Reconstructions of the Mesozoic and Cenozoic Strata of the Libya Region
K.M. Bohacs* (ExxonMobil Upstream Research Co.) & W. Heins (ExxonMobil Upstream Research Co.)

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The Murzuq Basin, Libya - A Proven Petroleum System
I. Sarkawi* (REMSA), G. Abeger (REMSA), J.L. Tornero (REMSA) & E. Abushaala (REMSA)

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Mesozoic Tectonism in Northeast Africa
W. Bosworth* (Apache Egypt Companies)
A14
The Opening of the Eastern Mediterranean and its Impact on the Tectonics of North Africa
J. Hossack* (BP)

A15
Petroleum Geology in the NC41 Area (Western Libyan Offshore)
M. Fornaciari* (ENI S.p.A - E&P Division)

A16
Regional Seismic Attribute Mapping for Nile Delta Deep Water Reservoir Imaging
K.B. Halleland (BP), J. Cotton (BP) & I. Hanbal* (BP Egypt)

A17
Pre-Screening Tectonic Heat Flows for Basin Modelling - Some Implications for Deep Water
Exploration in the Mediterranean
J.D. van Wees* (TNO), G. Bertotti (Vrije Universiteit), P. David (TNO), F. van Bergen (TNO) & S.
Cloetingh (Vrije Universiteit)

A18
Crustal Structure and Early Opening of the Eastern Mediterranean Basin - Key Observations
from Offshore Northern Egypt
P.A. Bentham* (BP Egypt), I. Hanbal (BP Egypt), J. Cotton (BP Egypt), M.B. Longacre (MBL,
Inc.) & R. Edwards (National Oceanography Centre)

A19
The Petroleum System Knowledge Today and Tomorrow
J.J. Biteau* (TOTAL), G. Choppin de Janvry (TOTAL), J.J. Jarrige (TOTAL) & F. Reverdy
(TOTAL)

A20
Regional Hydrocarbon Charge in the Sirte Basin, Libya – Integration of Geochemistry, Basin
Modeling and Regional Geology
G.P.A. Muscio* (Chevron), N.D. Rodriguez (University of Oklahoma) & L. Liu (Chevron)

A21
Looking for Hydrocarbons in Dry Holes - Application of Fluid Inclusion Chemistry in North
Africa/Mediterranean
P.J.R. Nederlof* (Shell Exploration & Production), A. Bell (Shell Exploration & Production) & D.
Hall (Fluid Inclusion Technologies Inc.)

A22
An Overview of North African Petroleum Systems as Revealed by Petroleum Geochemistry
J.E. Zumberge* (GeoMark Research Ltd)

A23
Geochemical Evaluation of Source Rocks in Block NC98, and the Relationship between
Petroleum Habitat in Block NC98
I.D.R.S Belkhir* (Waha Oil Company of Libya)
A24
Global Neoproterozoic Petroleum Systems - Snowballs, Source Rocks and the search for “Old Oil” in North Africa and Middle East
J. Craig* (Eni Spa - Eni E&P Division)

A26
The Eocene Ramp Complex of Al Jabal al Akhdar, Cyrenaica, NE Libya - A Surface Analogue for Nummulite Reservoirs
A.S. El-Hawat* (Gariesous University), S. Jorry (University of Geneva), O. Hammuda (El Fateh University), A. Obeidi (Woodside Energy Ltd), H. Barghathi (Total E&P) & B. Caline (Total E&P)

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Large-Scale Physiography of the Murzuq Basin Shelf during Hirnantian Ice-Sheet Final Retreat and Silurian Transgression
J. Moreau* (CNRS), L. Degermann (TOTAL), J.F. Ghienne (CNRS) & J.L. Rubino (TOTAL)

A28
The Upper Miocene Melquart Fm.- A Reefal Barrier South of the Gabes Gulf (Libya)
J.L. Rubino* (TOTAL), J. Camy-Peyret (TOTAL) & P. Lapointe (TOTAL)

A29
Keynote; Sedimentology and Depositional Environments from Image Logs and Cores. Examples from the Gargaf Gp. and the Sarir Sandstone of the Eastern Sirte Basin
Dr Christian E. Derer* (Wintershall), Kamal Abushaala (Wintershall), Stefano Dellepiane (Wintershall), Bernd Frommherz (Wintershall) & Leendert van Veen (Wintershall)

A30
The Numidian Flysch Complex of Onshore Tunisia (Southern Kroumirie Range) - Facies Analysis and Stratigraphic Review
S. Riahi* (Faculté des Sciences de Tunis), K. Bou Khalfa (Faculté des Sciences de Tunis), M. Soussi (Faculté des Sciences de Tunis) & K. Ben Ismail-Lattrache (Faculté des Siences de Tunis)

A31
Coastal Plain Depositional Systems of the “Trias Carbonate” in the Berkine Basin, Algeria
N. Sabaou* (BHPBilliton)

A32
Sedimentary Evolution of Late Ordovician Sequence in El-Feel Field – An Example of Integrated Sedimentologic, Stratigraphic and 3D Seismic Data
G. Serafini* (ENI Spa - E&P Division) & E. Trincianti (ENI E&P S.p.A.)

A33
El Feel Field – An Innovative Approach to Control Prior Model & PetroAcoustic Data for Seismic Reservoir Characterization
A.I. Marini* (ENI - E&P Division), E.L. Della Rossa (ENI E&P) & F. Owaina (ENI E&P)

A34
Synthesis of the Stratigraphic Architecture of the Siluro-Devonian Succession in Algeria and Libya
R. Eschard* (IFP), K. Boumendjel (Sonatrach) & M. Ben Rahuma (P.R.C. Libya)
A35
New Concepts in Stratigraphy for Near-Synchronous Correlation of the Paleocene- Eocene Interval of the Se Sirte Basin
M.G.G. de Jong* (Enres International) & S.D. Nio (Enres International)

A36
Comparative Anatomy of Cretaceous Carbonate Ramps - An Outcrop-Driven Interpretation for a Sirte Basin Field
J. Rush* (Occidental Petroleum of Qatar Ltd)

A37
Chemostratigraphy of Cambro-Ordovician to Silurian Sequences from Block NC186 in the Murzuq Basin, Western Libya
O. Kaabar* (Repsol YPF), J.L. Algibez (Repsol YPF), T. Pearce (Chemostrat) & A. Khoja (National Oil Corporation)

A38
Climate Sequence Stratigraphy Unraveled by the Analysis of the Clay Content Evolution
M.K. Kerdjidj* (Sonatrach)

A39
Stratigraphic Architecture of the Devonian Succession in Awaynat Wanin Area - Ghadamis Basin, Western Libya
M.M. Rahuma* (Libyan Petroleum Institute LPI), J.N. Proust (University of Rennes 1, CNRS) & R. Eschard (Institut Français du Petrole (IFP))

A40
High-Resolution Chronostratigraphy of Varied Biostratigraphic Data from Sirt Basin Wells – An Example of Graphic Correlation and Discussion of Other Methodologies
T.D. Demchuk* (ConocoPhillips) & W.N. Krebs (Petronas Cairgali)
B01
Keynote; Wide Azimuth Seismic in BP – Off the Shelf Business Solutions
Ian M. Smale, President and CEO* (BP North Africa), B. Barley (BP) & T.P. Summers (BP)

B02
OBC Systems for Imaging in Challenged Environments - Results and Remaining Challenges
M.L. Johnson* (ExxonMobil Upstream Research Company) & M.W. Norris (ExxonMobil Upstream Research Company)

B03
Azimuthal Seismic Fracture Detection in a Carbonate Reservoir - Integrated Seismic P-Wave Study
J.M. DeGraff* (ExxonMobil Upstream Research Company), M.K. Johns (ExxonMobil Upstream Research Company), D.Y. Wang (ExxonMobil Upstream Research Company), C.P. Lu (ExxonMobil Upstream Research Company), S.Z. Sun (ExxonMobil Upstream Research Company), S. Xu (ExxonMobil Upstream Research Company) & D. Zhou (ExxonMobil Production Company)

B04
Predicting Fractures Using Wide Azimuth Seismic Data in Tiguentourine Field, Algeria
S.R. Tod* (BP), D. Sawyer (BP), B. Taylor (BP), R.G. Johnston (BP), T.J. Allen (BP), D. Buddery (BP), A. Hutchison (BP), A.M. Malik (Sonatrach) & D. Abdelouafi (Sonatrach)

B05
Multi Azimuth 3D Bringing Clarity to Pre- Messinian Reservoir Imaging
J. Keggin* (BP), M. Benson (BP), W. Rietveld (BP), T. Manning (BP), B. Barley (BP), P. Cook (BP), E. Jones (BP), C. Page (PGS) & M. Widmaier (PGS)

B06
Velocity Model Building for Pre-Stack Depth Migration - An Onshore Libya Case Study
L. Auchterlonie* (CGG), V. Vinje (CGG) & R. Taylor (CGG)

B07
A Fast-Cycle Volumetric Approach for PSDM Velocity Model Building Applied to a Major Fault in Western Desert - Egypt
M. Emile (CGG Cairo), A. Ramadan* (CGG Cairo), S. Zimine (CGG France), C. Pinson (CGG France), P. Mitouard (CGG France), V. Vinje (CGG Norge), R. Saba (Shell Egypt), A. El-Fiki (Shell Egypt) & G. Bakry (Bapetco)

B08
Petrophysical Seismic Inversion Applied to the Troll Field
A.J. van Wijngaarden* (Norsk Hydro AS), T. Couleou (CGG), A.N. Haaland (Norsk Hydro), J.L. Formento (CGG) & R. Ona (Norsk Hydro)

B09
Keynote; Exploring the Subsurface Using Marin Electromagnetic Seabed Logging Technology
Erik Gundersen* (Statoil ASA), Tage Røsten (Statoil ASA), Ketil Hokstad (Statoil ASA) & Andreas Brecht (Statoil ASA)

B10
EM Seabed Logging on the Troll Field
S. Johnstad* (Hydro), B.A. Farrelly (Hydro) & C. Ringstad (EMGS)
B11
Mapping Offshore Facies and Structures Using CSEM
L.J. Srnka* (ExxonMobil Upstream Research Company) & L.A. Wahrmund (ExxonMobil Upstream Research Company)

B12
Gravity and Magnetic Data Interpretation in the Sirte Basin
S. Witte* (Shell International), M. Porter (Shell International) & G. Karman (Shell International)

B14
HFVS Optimization for Land Operations – Shake and Go
M.L. Johnson* (ExxonMobil Upstream Research Company) & C.E. Krohn (ExxonMobil Upstream Research Company)

B15
“Sparse 3D” Acquisition – An Efficient Exploration Technique
C. Webb (BG-Group), M. Millington (BG-Group), H. Crook (BG-Group) & R. Heath* (BG-Group)

B16
Desert Sparse 3D as an Alternative to 2D Exploration
B. Pagliccia (TOTAL E&P Libye) & P.L. Pichon* (TOTAL E&P Libya)

B17
Fit-for-Purpose Seismic Technology - A Case Study in the Use of Point-Receiver Recording for Exploration in the Western Desert of Egypt
P.V. Baaren* (WesternGeco) & J. Quigley (WesternGeco)

B18
Environmental Impact Limitation during Exploration Activities in a Highly Sensitive Environment
R.W.C. Koemans* (Repsol YPF)

B19
Enhanced Understanding of the Krechba Field, Algeria by Using Modern Processing and Depth Conversion Techniques
C. Reiser* (CGG), J. Sinden (CGG), A. Castoro (CGG), H. Sognnes (In Salah Gas), S. Omri (In Salah Gas), S. Brown (In Salah Gas), A.M. Malik (Sonatrach) & D. Abdelouafi (Sonatrach)

B20
Formation Evaluation and Reservoir Monitoring behind Dual Casings - A First Libya’s Case Study
R.G. Gauchet* (CPTL), C.R. Robert (CPTL), M.A. Attayeb (CPTL) & L.W. Wihardjo (Schlumberger)

B22
Opportunities and Challenges for Improved Oil Recovery
G.F. Teletzke (ExxonMobil Upstream Research Company), J.R. Wilkinson* (ExxonMobil Production Company) & K.C. King (ExxonMobil Exploration Company)
B23
IOR/EOR in Hydro
H. Tonne (Hydro ASA) & R. Nygaard* (Hydro ASA)

B24
Integrated Processing and F3 Reservoir Sand Interpretation Study, Wafa Field, Onshore Libya
A.N. Fogg* (Veritas DGC Ltd), T.H. Larsen (Veritas DGC Ltd), D.R. Sallis (Veritas DGC Ltd), H. Fares (EniGas B.V. Libya), F. Ghrouda (EniGas B.V. Libya) & H. Zbeda (EniGas B.V. Libya)

B25
Characterization and Modelling of a Reservoir with Multiple Scales of Fracturing
F. Gouth* (TOTAL), A. Toublanc (TOTAL) & M. Mresah (CPTL)

B26
Well Test Analysis and Modeling of a Multi-Scale Fractured Reservoir – The in Amenas Field, Algeria
R. Basquet* (Statoil ASA), O.P. Wennberg (Statoil ASA), H.H. Veire (Statoil ASA), P. Ingsøy (Statoil ASA) & A. Draou (Sonatrach)

B27
Fracture Network Modeling and Dual Permeability Simulation of Carbonate Reservoirs
J.M. DeGraff* (ExxonMobil Upstream Research Company), M.E. Meurer (ExxonMobil Upstream Research Company), L.H. Landis (ExxonMobil Upstream Research Company) & S. Lyons (ExxonMobil Upstream Research Company)

B28
Rock-Fabric Facies and Diagenetic Controls on Carbonate Reservoirs
H. Fakhfakh Bankemia* (ETAP)

B30
Effective Simulation of Thick Carbonate Reservoirs
C.E. Shuchart* (ExxonMobil) & I.S. Abou-Sayed (ExxonMobil)

B31
Physics Limit Drilling
S.R. Keller (ExxonMobil Upstream Research Company) & F.E. Dupriest* (ExxonMobil Development Company)

B32
Acid's Behavior and Performance on the Matrix with Time - Hassi R'mel Field, Algeria
M. Boussa* (Sonatrach), D. Bencherif (Sonatrach) & M. Khodja (Sonatrach)

B33
Porosity and Permeability from Drill Cuttings
R. Lenormand* (Institut Français du Petrole), P. Egermann (Institut Français du Petrole) & J. Bouillot (Institut Français du Petrole)
B34
Determining Reservoir Connectivity in Producing Fields – Examples from Eastern Canada and the Gulf of Mexico
M.L. Sweet* (ExxonMobil Upstream Research Company), P. Vrolijk (ExxonMobil Upstream Research Company), L.T. Sumpter (ExxonMobil Upstream Research Company), J.W. Snedden (ExxonMobil Upstream Research Company), R. Myers (ExxonMobil Upstream Research Company), B. James (ExxonMobil Retired), E. Meurer (ExxonMobil Upstream Research Company) & A. Mosola (ExxonMobil Upstream Research Company)

B35
3D Seismic Data Attribute Analysis for Predicting Wara Reservoir Qualities in the Al-Khafji Field, Middle East
K. Chakraborty* (KGOC), S.L. Nimmagadda (KGOC) & M. Al-Hajeri (KGOC)

B36
Constraining Reservoir Models by their Diagenetic Overprints - Impact on Reservoir Connectivity
R. Labourdette* (TOTAL), A. Meyer (TOTAL), M. Sudrie (TOTAL), F. Walgenwitz (TOTAL) & C. Javaux (TOTAL)

B37
Geologic Modeling and History Matching of Production Fields Using an Integrated Geologic/Engineering Approach (RETR)
L.H. Landis* (ExxonMobil Upstream Research Company), B.A. Proett (ExxonMobil Upstream Research Company), J.J. Lawrence (ExxonMobil Upstream Research Company) & C.J. Lyttle (ExxonMobil Upstream Research Company)

B38
Optimal Reservoir Management and Field Rejuvenation – Key Geoscience Technologies and Trends
K. Rudolph* (ExxonMobil)

B39
Qualitative Characterization of Silurian
R. Perona* (Repsol YPF), J. Dessay (Repsol YPF), J.L. Algibeze (Repsol YPF), J.M. Gonzalez Muñoz (Repsol YPF), M. Sweed (Repsol YPF) & J.J. Martin (Repsol YPF)

B40
A New Workflow for Better 4D Seismic Interpretation
P. Anno* (ConocoPhillips) & P. Routh (ConocoPhillips)
Contributions of the Seismic 3D in the Interpretation and Comprehension of Geometry of the Paleovallees of the Ordovician
S.S. Saib* (Sonatrach)

Imaging Vertical Boundaries Using Duplex Wave Migration
B.H. Link* (Kelman Technologies Inc.)

Palaeozoic Sequence Development and Stacking Patterns - A Tale of Moving Continents and Changing Climates
P. Spaak* (Shell International Exploration & Production BV), D. Middleton (Shell E&P) & S. Murfitt (Shell E&P)

Review of Recent Satellite Image Analyses of the Ghadames Basin (Libya) and the Tassili Region of S Algeria
R.N. Diggens* (BP) & J.N. Diggens (Infoterra Ltd)

Hydrodynamism Implication in Exploration: Triassic Sandstones Reservoirs (Tagi Fm.) in Southern Tunisia
A. Maazaoui* (ETAP)

Maturity Modelling and Hydrocarbon Charge In South-Western Berkine Basin, Eastern Algeria
M. Arab* (Sonatrach) & R. Soulali (Sonatrach)

Trap and Petroleum Models of Gara Gara South Fields Illizi Basin South East Sahara, Algeria
M.D. Mebbani* (Sonatrach)

Production Optimization of Gas Wells - Problem of Water Influx
M. Boussa* (Sonatrach)

Evolution of Glaciogenic Stratigraphic Interpretation with Improved Seismic Data in Tiguentourine Field, Algeria
A.R. Hutchison* (BP), D.E. Sawyer (BP), S.R. Tod (BP), B. Taylor (BP), D. Buddery (BP), I. Alstadsaeter (Statoil) & D. Abdelouafi (Sonatrach)

FMI Characterisation of Late Ordovician Facies & Surfaces (Murzuq Basin)
J. Joubert (TOTAL), J. Moreau (CNRS), J.L. Ghienne (CNRS) & J.B. Ros* (TOTAL)

Architecture and Petrophysics of Active Faults in Platform Carbonates, Italy
F. Agosta* (University of Camerino) & E. Tondi (University of Camerino)
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E. Tondi* (University of Camerino), F. Agosta (University of Camerino) & M. Alessandroni (University of Camerino)

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P.O. Lys* (TOTAL) & J. Marrauld (TOTAL)

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Optimizing Production Gas Wells by Using a Dual Completion Hassi R’mel Field, Algeria
M. Boussa* (Sonatrach) & H. Hebbel (Sonatrach)

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Survey Performances of the Polymers in the Water Based Systems Used to Drill Deep Wells
N.H.K. Haddoum-Kherfellah* (Sonatrach)

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N.H.K. Haddoum-Kherfellah* (Sonatrach)

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K.D. Mahrer* (Weatherford), R.J. Zinno (Weatherford) & J.R. Bailey (ExxonMobil Upstream Research Co.)

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A. Muftah* (Garyounis University), A. El Mehaghag (AGOCO) & A. Addaloush (AGOCO)

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S. Gaci* (Sonatrach-Division Exploration)

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M. Boussa* (Sonatrach), D. Bencherif (Sonatrach) & M. Khodja (Sonatrach)

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3D Modelling of (Upper Triassic) Continental Mixed Fluvial Systems Integrating “Lidar” Digital Outcrop Images with High-
I. Fabuel-Perez* (University of Manchester), J. Redfern (University of Manchester) & D. Hodgetts (University of Manchester)