

## SEISMIC CHARACTERISATION OF CARBONATE PLATFORMS AND RESERVOIRS

# **CONFERENCE PROGRAMME**

08.50 Wo Jir <b>Session 1:</b> 09.00 KE	Registration, Tea & Coffee  Velcome Address im Hendry, Tullow Oil  : Seismic Investigations of Platform Architecture & Development  XEYNOTE - Platform architecture of the Late Paleozoic Karachaganak buildup,  Xazakhstan: Integrating seismic stratigraphy with image log bed dips ames Bishop, Chevron  Margin-wide 3D seismic imaging of a 2000 km-long barrier reef in Western Australia luring the Oligo-Miocene
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09.00 KE	KEYNOTE – Platform architecture of the Late Paleozoic Karachaganak buildup, Kazakhstan: Integrating seismic stratigraphy with image log bed dips ames Bishop, Chevron Margin-wide 3D seismic imaging of a 2000 km-long barrier reef in Western Australia
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du	ulien Bourget, University of Western Australia
Tr	Mapping the growth and demise of carbonate platforms within an extensional basin: riassic, NW Australia Shelf Cathy Hollis, University of Manchester
pla Ba	More than 1000 km of strike variability of Lower Miocene of shelf edge carbonate latforms and their associated slope and deep water systems, Browse to Carnarvon Basin, NW Shelf Australia Cavier Janson, University of Texas
10.40 <b>Pc</b>	oster Session, Tea & Coffee
Session 2:	: Seismic Data in Frontier Exploration for Carbonate Plays
me Or	Observed link between folded seabed dipping reflectors (SDRs) and large-scaled norphology and architecture of the Early Cretaceous carbonate build-up and platform, Orange Basin
11.50 <b>Se</b>	Seismic carbonate characterization and drilling results, offshore Nicaragua, Caribbean Robb Bunge, Noble Energy
su	Controls on carbonate systems in developing foredeep areas: Insights from integrated ubsurface studies of Miocene reservoirs in the Gulf of Papua Moyra Wilson, University of Western Australia
Ça	Seismic appetite for shallow-water carbonates – a case study from the offshore SE Caribbean Saribbean Serrocoso, Repsol
12.50 <b>G</b> €	General Discussion
13.10 <b>Pc</b>	Poster Session, Lunch
Session 3:	: Extracting Geological Features Using Seismic Attributes and Blends
se	EYNOTE - A journey from seismic to carbonate rocks: Best practices and pitfalls in eismic facies interpretation lanuel Poupon, Shell
Mi	eismic reservoir characterisation of a complex carbonate: a case study from the lishrif Reservoir, Rumaila Field, Iraq plabode Olatoke, BP

	Structure and evolution of two Miocene carbonate platforms, subsurface offshore NW Australia Alberto Riva, GEPlan Consulting
	Deciphering flank geomorphology pattern of Central Luconia carbonate build-ups, NW Borneo: key to unravel paleogeography King King Ting, Shell
16.00	Poster Session, Tea & Coffee
Session	4: Seismic Insights Into Carbonate Diagenesis and Fluid Flow
16.40	Seismic characterisation of karst: Kashagan Field, Kazakhstan Gareth Jones, ExxonMobil
17.00	Seismic characterisation of the Alta Discovery, SW Barents Sea Niels Rameil, Lundin Norway
17.20	Seismic-reflection data reveal Eocene to Pleistocene aggradation to progradation of the shelf and margin of the Southeastern Florida Platform and chimneys as a product of vertical fluid flow Kevin Cunningham, US Geological Survey
17.40	General Discussion
18.00	Drinks reception
18.30	Hot fork buffet (Included in registration fee)
	Thursday 11 <sup>th</sup> October 2018
08.30	Registration, Tea & Coffee
08.50	Announcements
Session	5: Seismic Workflows and Advances in Inversion and Modelling
09.00	KEYNOTE - Getting the most of seismic in carbonate exploration and reservoir characterization: A TOTAL perspective Jeroen Kenter, Total
09.40	Insight through efficient seismic modelling: An extended convolution approach applied to various geological models of carbonate platforms Isabelle Lecomte, University of Bergen
10.00	Reservoir potential of carbonate drowning strata from western New Guinea (eastern Indonesia) revealed using broadband seismic inversion  David Gold, CGG
10.20	The Carbonate Seismic Atlas – seismically constrained database of carbonate reservoirs David Hunt, Equinor
10.40	Poster Session, Tea & Coffee
Session	6: Seismic Characterisation of South Atlantic Pre-Salt Carbonates
11.30	Seismic characterisation and origin of clinoforms in lacustrine depositional environments: a case study from the Cretaceous of the South Atlantic Andrew Barnett, Shell
11.50	Seismic-scale geometries and sequence-stratigraphic architecture of Early Cretaceous syn-post rift carbonate systems, presalt section, Brazil Marcello Minzoni, University of Alabama
12.10	Seismic geometries of non-marine carbonates and the South Atlantic pre-salt problem Paul Wright, PW Carbonate Geoscience
12.30	Distribution of chemogenic lacustrine carbonates by seismic facies analysis – Santos Campos Basin, Brazil Karyna Rodriguez, Spectrum
12.50	General Discussion

14.20 KEYNOT lowstand Lars Reul	ic Geomorphology and Seismic Facies Applied to Carbonate Depositional roducts  E - The Quaternary carbonate system of the North West Shelf of Australia: I wedge and highstand bulge ning, RWTH Aachen University  facies, stratigraphy, geomorphology, and seismic modelling of a Lower ous carbonate platform istophe Embry, Equinor
lowstand Lars Reul 15.00 Seismic f Cretaceo	I wedge and highstand bulge ning, RWTH Aachen University facies, stratigraphy, geomorphology, and seismic modelling of a Lower bus carbonate platform
Cretaceo	ous carbonate platform
Cretaceo	mic challenge of unlocking the complexity and potential of the Middle Eastern ous carbonate platforms: a case study from the western area of the UAE rrotta, Shell
case-stu	geomorphology of isolated carbonate build-ups from initiation to demise: A dy from offshore NW Australia an Tuyl, Cardiff University
16.00 Poster S	ession, Tea & Coffee
	characterisation of current-controlled sedimentation in the Straits of Florida hah, University of Miami
growth a Complex	nrough seismic imaging provided new insights into geomorphology and rchitecture of the Ørn Formation (Gipsdalen Group) in the Hoop Fault, SW Barents Sea onio, Lundin Norway
17.20 Summary	y and Way Forward
17.50 Closing F	Remarks
18.00 <b>Close of</b>	conference

#### **POSTER PROGRAMME**

## Wednesday 10th October 2018

Challenges in characterising a subsurface platform-to-basin system in a thrust belt setting: The Bagnolo Carbonate Platform (Northern Italy)

Raffaele Di Cuia, Delta Energy

Can carbonate productivity override vertical propagation rates over faults? A case study of carbonate build-ups from the Timor Sea

Roberto Loza Espejel, Cardiff University

Upper Paleozoic carbonate buildups and spiculites deposition on the Eastern Finnmark Platform, the influence of climate, ocean currents, and sea level changes

Xiaoxia Huang, University of Potsdam

Seismic characterisation of carbonate systems and reservoirs in Western Offshore Libya Nabil Laswad Khalifa, RWTH Aachen University

The Upper Jurassic high-relief carbonate platform of the Agadir Basin (Offshore Morocco): seismic and depositional facies

Alessandro Lanfranchi, Oolithica Geoscience

Seismic attribute characterisation of the fault and fracture network within carbonate reservoirs in a sector of the Loppa High (SW Barents Sea)

Paolo Pace, GEPlan Consulting

Submerged karst landscapes and their significance to exploration of the Tempelfjørden Group in the Hoop Fault Complex, SW Barents Sea

Israel Polonio, Lundin Norway

A kilometric diagenetic front in dolomitized mudstones? (Carnarvon Basin, Western Australia) Rosine Riera, University of Western Australia

Seismic sequence stratigraphy of the Paleocene-Eocene carbonate platforms in the offshore Indus Basin, Pakistan

Khurram Shahzad, University of Hamburg

Mega pockmarks within the Upper Cretaceous Chalk Group in the Danish Central Graben: evidence for large-scale outburst of fluids

Florian Smit. Technical University of Denmark

Quantification of lateral variability in prograding carbonate margin trajectory analysis – adding value to the sequence stratigraphic method

Philipp Tesch, Texas A&M University

Seismic exploration of a carbonate hydrogeothermal reservoir

Hartwig von Hartmann, Leibniz Institute for Applied Geophysics

Milankovitch and sub-Milankovitch forcing records during the Late Pleistocene carbonate sequence: Evidences from the borehole SSZK1 at Xisha carbonate platform, South China Sea Shiguo Wu, Sanya Institute of Deep-sea Science and Engineering

### Thursday 11th October 2018

Improved carbonate reservoir characterisation using seismic facies classification techniques in Cretaceous Mishrif Reservoir, West Qurna/1 Oil Field, Southern Iraq

Ali Al-Ali, Heriot-Watt University

Seismic reflectors in carbonate stratigraphy

George Antonatos, Royal Holloway, University of London

A Seismic Carbonate Scorecard: How to recognize carbonate buildups/platforms from deceiving structures

Marcello Badali, Repsol

Facies model of the modern Xuande atoll through integration of sediment sampling and new single channel seismic data in the Xisha Archipelago, the South China Sea

Wanli Chen, Sanya Institute of Deep-sea Science and Engineering

Seismic expression of karstification on carbonate build-ups: Insights from synthetic seismic Arnaud Fournillon, Beicip-Franlab

Upper Permian Zechstein Supergroup carbonate-evaporite platform palaeomorphology in the UK Southern North Sea

Ross Grant, Heriot-Watt University

The role of mineralogy and sedimentology for the creation of seismic reflectors and sequence boundaries on the Northwest Shelf of Australia

Max Hallenberger, RWTH Aachen University

Is the modern really the key to the past? Comparative morphometrics of the Modern Alacran Platform and a Lower Cretaceous Platform

David Hunt, Equinor

Synthetic seismic modelling of the platform-to-basin transition in the Maiella Mt. (Central Apennines): An analogue for subsurface Mesozoic carbonate targets

Valentina Mascolo, Delta Energy

Evaluating the structural control over carbonate platforms developed in syn-rift settings using stratigraphic and seismic forward models

Isabella Masiero, University of Liverpool

Carbonate seismic facies analysis: New classification scheme and workflow for exploration of carbonate plays

Marcello Minzoni, University of Alabama

3D seismic characterisation of the architecture and controls on a Miocene carbonate buildup: Central Luconia Province, Malaysia

Eugene Rankey, University of Kansas

From reefs to drifts: Miocene/Pliocene sedimentary change in the Browse Basin, NW Australia Sebastian Thronberens, RWTH Aachen University