

# GEOSCIENCE DISCIPLINE GUIDES

Basin Analysis

Carbonates

Clastics

Geophysics and Seismic Interpretation

Petrophysics

Reservoir Development


Stratigraphy

Structure and Tectonics

Unconventional Resources



# BASIN ANALYSIS

General			
<div>N249</div> <div>Advanced Pore Pressure Prediction Workshop: Concepts, Mechanisms, and Workflows</div> <div>Peter Flemings</div> <div>Level: Skilled    Duration: 4 Days</div> <div></div>	<div>N298</div> <div>Reservoir Analogues for the Southwestern Barents Sea: Outcrop Examples from Svalbard (Norway)</div> <div>Erling Siggerud and Andy Thurlow</div> <div>Level: Skilled    Duration: 6 Days</div> <div></div>	<div>N343</div> <div>Depositional Evolution of the GOM Sedimentary Basin</div> <div>John Snedden</div> <div>Level: Skilled    Duration: 3 Days</div> <div></div>	<div>N550</div> <div>North Sea Multiphase Rift Evolution: Outcrop to Subsurface Perspectives on Stratigraphy, Sedimentology &amp; Petroleum Systems (East Coast, UK)</div> <div>David Macdonald and John Howell</div> <div>Level: Skilled    Duration: 5 Days</div> <div></div>
<div>N361</div> <div>Petroleum Geology of Kurdistan</div> <div>Richard Jones</div> <div>Level: Foundation    Duration: 5 Days</div> <div></div>	<div>N467</div> <div>Seismic Stratigraphy of the Permian Basin (W Texas &amp; SE New Mexico, USA)</div> <div>Rene Jonk</div> <div>Level: Foundation    Duration: 5 Days</div> <div></div>	<div>EC022</div> <div>Basin Analysis</div> <div>N/A</div> <div>Level: Foundation    Duration: 8 hours</div> <div></div>	
Petroleum Systems			
<div>N129</div> <div>Hydrocarbon Habitat in Rift Basins</div> <div>Joe Lambiase</div> <div>Level: Skilled    Duration: 5 Days</div> <div></div>	<div>N522</div> <div>Integrated Charge Access Evaluation: The Key to Successful Exploration</div> <div>Leon Dzou and Mark Thompson</div> <div>Level: Skilled    Duration: 3 Days</div> <div></div>	<div>N598</div> <div>Geochemistry, Petroleum Systems Modelling, and Charge Evaluation</div> <div>Leon Dzou and Mark Thompson</div> <div>Level: Skilled    Duration: 5 Days</div> <div></div>	<div>N720</div> <div>Petroleum System and Charge Evaluation</div> <div>Leon Dzou</div> <div>Level: Skilled    Duration: 3 Days</div> <div></div>
<div>N043</div> <div>Gulf of Mexico Petroleum Systems</div> <div>Mark Rowan, John Snedden, Adry Bissada, Lesli Wood</div> <div>Level: Foundation    Duration: 5 Days</div> <div></div>	<div>EC020</div> <div>Petroleum Generation and Migration</div> <div>N/A</div> <div>Level: Foundation    Duration: 5 hours</div> <div></div>		
Play Fairway Analysis, Prospect Analysis			
<div>N087</div> <div>Play Fairway Analysis and Exploration Prospecting</div> <div>Andy Pulham</div> <div>Level: Foundation    Duration: 5 Days</div> <div></div>	<div>N425</div> <div>Play Analysis for Targeted Prospect Identification</div> <div>Mark Thompson or Leon Dzou</div> <div>Level: Foundation    Duration: 4 Days</div> <div></div>	<div>N491</div> <div>Play and Prospect Assessment</div> <div>Leon Dzou and Mark Thompson</div> <div>Level: Foundation    Duration: 5 Days</div> <div></div>	<div>EC021</div> <div>Play Fairway Analysis</div> <div>N/A</div> <div>Level: Foundation    Duration: 6 hours</div> <div></div>

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Classroom



Field



e-Learning

### Skill Level



Skilled



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Awareness

# CARBONATES

General

N059

Carbonate Systems and Facies Architecture: Exploration and Reservoir Implications (Mallorca & Menorca, Spain)

Juan Ignacio Baceta and Guillem Mateu

Level: Skilled    Duration: 5 Days

N073

Integration of Sedimentology, Petrophysics and Seismic Interpretation for Exploration and Production of Carbonate Systems

Gregor Eberli

Level: Skilled    Duration: 4 Days

N091

Carbonate Reservoir Architecture and Applied Carbonate Sequence Stratigraphy (West Texas and SE New Mexico, USA)

Art Saller and Steve Bachtel

Level: Skilled    Duration: 5 Days

N143

Advanced Concepts in Carbonate Exploration and Reservoir Characterisation (Northern Spain)

Paul Wright, Giovanna Della Porta, Juan Ignacio Baceta, Juan Bahamonde and Mikel Lopez-Horgue

Level: Skilled    Duration: 6 Days

N186

Complex Carbonate Reservoirs: Influence of Facies and Tectonic Processes on Porosity Development (Southern Italy)

Rafaella Di Cuia and Davide Casabianca

Level: Skilled    Duration: 6 Days

N310

Carbonate Reservoir Characterisation and Modelling (Provence, France)

Mark Bentley and Richard Oxlade / Ed Stephens

Level: Skilled    Duration: 5 Days

N329

Improved Models for Exploration and Production Scale Heterogeneity on Isolated Carbonate Platforms: Crooked-Acklins Platform (Southern Bahamas)

Gene Rankey

Level: Skilled    Duration: 5 Days

N358

Fine-Grained Carbonate Reservoirs (Etretat, Northern France)

Andy Gale

Level: Skilled    Duration: 4 Days

N416

Southeast Asian Carbonate Systems and Reservoirs

Moyra E. J. Wilson

Level: Skilled    Duration: 4 Days

N588

Facies, Processes, and Stratigraphic Architecture of Carbonate Slope Channels, Sediment Waves, and MTDs, Mississippian Fort Payne Fm (Kentucky-Tennessee, USA)

C. Robertson Handford

Level: Skilled    Duration: 4 Days

W006

Depositional Systems of the South Atlantic Pre-Salt: refining models for exploration and development

Paul Wright

Level: Skilled    Duration: 2 Days

N020

Carbonate Depositional Systems: Reservoir Sedimentology and Diagenesis

Paul Wright

Level: Foundation    Duration: 5 Days

N494

Controls on Carbonate Depositional Systems and Reservoir Characterisation (Oligo-Miocene - Apulia, Italy)

Michele Morsilli

Level: Foundation    Duration: 5 Days

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# CLASTICS

General			
<div>N195</div> <div>Deltaic to Deepwater Depositional Systems of NW Borneo - Concepts and Models for Reservoir Prediction (NW Borneo, Malaysia)</div> <div>Howard Johnson</div> <div>Level: Skilled    Duration: 6 Days</div> <div></div>	<div>N309</div> <div>Fluvial Reservoir Architecture From Modern and Ancient Systems (Nebraska, USA)</div> <div>Chris Fielding and Matt Joeckel</div> <div>Level: Skilled    Duration: 5 Days</div> <div></div>	<div>N451</div> <div>Practical Oil-Finders Guide to Siliciclastic Sequence Stratigraphy (Wyoming, USA)</div> <div>Lee Krystinik and Randi Martinsen</div> <div>Level: Skilled    Duration: 6 Days</div> <div></div>	<div>N492</div> <div>Clastic Depositional Systems in SE Asia: Concepts and Models for Reservoir Characterisation and Prediction</div> <div>Joseph Lambiase</div> <div>Level: Skilled    Duration: 5 Days</div> <div></div>
<div>N514</div> <div>Clastic Reservoirs from Source to Sink: Low-Accommodation versus High-Accommodation Basin Settings (Wyoming, USA)</div> <div>Ron Steel and Cornel Olariu</div> <div>Level: Skilled    Duration: 5 Days</div> <div></div>	<div>N523</div> <div>Sandstone Diagenesis and Reservoir Quality</div> <div>Richard Worden</div> <div>Level: Skilled    Duration: 3 Days</div> <div></div>	<div>N544</div> <div>Source to Sink: Provenance, Sediment Routing and Reservoir Characterisation (Southern Pyrenees, Spain)</div> <div>Philip Hirst and Gary Nichols</div> <div>Level: Skilled    Duration: 5 Days</div> <div></div>	<div>N155</div> <div>Introduction to Clastic Depositional Systems: a Petroleum Perspective</div> <div>John Howell / Gary Nichols / Adrian Hartley</div> <div>Level: Foundation    Duration: 5 Days</div> <div></div>
<div>N156</div> <div>Clastic Depositional Systems in a Basinal Framework: Exploration and Reservoir Implications (Pyrenees, Spain)</div> <div>Miguel Lopez and Pau Arbues</div> <div>Level: Foundation    Duration: 6 Days</div> <div></div>	<div>N450</div> <div>Clastic Reservoir Characterization: The Importance of Recent Sand Models to Aid Subsurface Interpretations</div> <div>Larry Meckel</div> <div>Level: Foundation    Duration: 3 Days</div> <div></div>		
Continental and Shallow Marine			
<div>N027</div> <div>Reservoir Sedimentology and Stratigraphy of Continental Clastic Systems (Wyoming, USA)</div> <div>Lee Krystinik and Beverley Blakeney DeJarnett / Randi Martinsen</div> <div>Level: Skilled    Duration: 6 Days</div> <div></div>	<div>N042</div> <div>Reservoir Sedimentology and Stratigraphy of Coastal and Shelfal Successions: Deltas, Shorelines and Origins of Isolated Sandstones (NW Colorado, USA)</div> <div>Andy Pulham and Lee Krystinik / Kathryn Sementelli</div> <div>Level: Skilled    Duration: 5 Days</div> <div></div>	<div>N115</div> <div>High Resolution Sequence Stratigraphy: Application to Deltaic Systems and Reservoirs (County Clare, Ireland)</div> <div>Andy Pulham and Sarah Davies</div> <div>Level: Skilled    Duration: 6 Days</div> <div></div>	<div>N359</div> <div>Sedimentology and Sequence Stratigraphy of Aeolian and Mixed Fluvial-Aeolian Depositional Systems: Implications for Hydrocarbon Exploration and Reservoir Development (Utah, USA)</div> <div>Nigel Mountney</div> <div>Level: Skilled    Duration: 5 Days</div> <div></div>
<div>N387</div> <div>Exploration and Development in Fluvio-Lacustrine Systems</div> <div>Gary Nichols &amp; Philip Hirst</div> <div>Level: Skilled    Duration: 3 Days</div> <div></div>	<div>N403</div> <div>Reservoir Sedimentology of Fluvial - Shallow Marine Facies (Isle of Wight, UK)</div> <div>Gary Nichols</div> <div>Level: Skilled    Duration: 3 Days</div> <div></div>	<div>N499</div> <div>Shallow Marine Reservoir Analogues and their Application to the Jurassic of the North Sea (Isle of Skye and Raasay, UK)</div> <div>Ronald Steel and Uisdean Nicholson</div> <div>Level: Skilled    Duration: 5 Days</div> <div></div>	<div>N530</div> <div>Shore to Shelf Edge Depositional Systems (Virtual Outcrops)</div> <div>Philip Hirst</div> <div>Level: Skilled    Duration: 3 Days</div> <div></div>
<div>N532</div> <div>Aeolian and Dryland Fluvial Reservoirs: Field and Virtual Outcrop (Elgin, UK)</div> <div>John Howell</div> <div>Level: Skilled    Duration: 3 Days</div> <div></div>	<div>N684</div> <div>Coastal and Shallow Marine Clastic Reservoir Facies (East Yorkshire, UK)</div> <div>John Howell and Adrian Hartley</div> <div>Level: Skilled    Duration: 3 Days</div> <div></div>	<div>N669</div> <div>Continental and Shallow Marine Depositional Environments Sampler (Utah, USA)</div> <div>Anton Wroblewski</div> <div>Level: Foundation    Duration: 5 Days</div> <div></div>	<div>N670</div> <div>Fluvial and Coastal Clastic Depositional Environments (Texas Gulf Coast, USA)</div> <div>Anton Wroblewski</div> <div>Level: Foundation    Duration: 5 Days</div> <div></div>

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Awareness

# CLASTICS

<b>N009</b> Sedimentology, Stratigraphy and Reservoir Geology of Deepwater Clastic Systems (County Clare, Ireland)  Andy Pulham  Level: Skilled    Duration: 5 Days	<b>N056</b> Turbidite Systems and Their Response to Thrust and Fold Structures (Pyrenees, Spain)  Josep Anton Muñoz and Pau Arbues  Level: Skilled    Duration: 6 Days	<b>N107</b> Turbidite Facies Architecture, Reservoir Applications and Predictive Stratigraphy (Karoo, South Africa)  De Ville Wickens & Dave Hodgson  Level: Skilled    Duration: 5 Days	<b>N112</b> Basin-Scale Analysis of a Confined Turbidite System (Grès d'Annot, SE France)  David Stanbrook and Gill Apps  Level: Skilled    Duration: 6 Days
<b>N252</b> Reservoir Geology of Deepwater Systems: Processes, Architecture and Reservoir Quality Analysis (Alps, France)  Bill McCaffrey  Level: Skilled    Duration: 5 Days	<b>N292</b> Deepwater Depositional System Stratigraphy for Exploration and Development (Arkansas, USA)  Lesli Wood and Mac McGilvery  Level: Skilled    Duration: 5 Days	<b>N442</b> Reservoir Architecture of Deepwater Systems (California, USA)  Rene Jonk  Level: Skilled    Duration: 5 Days	<b>N483</b> Deepwater Stratigraphy and Facies Analysis from Seismic, Well Data and Outcrops  Mike Mayall  Level: Skilled    Duration: 3 Days
<b>N526</b> Sequence Stratigraphic Controls on Deepwater Reservoirs Architecture: Brushy Canyon Formation, Permian Basin (West Texas and New Mexico, USA)  Rene Jonk  Level: Skilled    Duration: 5 Days	<b>N533</b> Deepwater Depositional Systems (Virtual Outcrops)  Mike Mayall and Phil Hirst  Level: Skilled    Duration: 3 Days	<b>N574</b> Submarine Fan Architecture from the Upper Slope to the Distal Basin Floor: Implications for Reservoir Distribution and Development (Southwestern Karoo Basin, South Africa)  Dave Hodgson and De Ville Wickens  Level: Skilled    Duration: 5 Days	<b>N589</b> From Trap to Reservoir in Deepwater Fold and Thrust Systems: Integrating Depositional Processes and Products with Structural Geology (Alps, France)  Adam McArthur and Rob Butler  Level: Skilled    Duration: 6 Days
<b>N468</b> Deepwater Reservoirs – Exploration Risking and Development Characterisation  Rene Jonk  Level: Foundation    Duration: 5 Days			

Deep Water

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# GEOPHYSICS AND SEISMIC INTERPRETATION

General			
<div>N409</div> <div>Improved Hydraulic Fracture Design Using Microseismic Imaging</div> <div>Shawn Maxwell</div> <div>Level: Skilled    Duration: 2 Days</div> <div></div>	<div>EC008</div> <div>Seismic Methods</div> <div>N/A</div> <div>Level: Foundation    Duration: 5 hours</div> <div></div>	<div>N080</div> <div>Geophysics for Subsurface Professionals</div> <div>Steve Western</div> <div>Level: Foundation    Duration: 3 Days</div> <div></div>	<div>N452</div> <div>Gravity and Magnetics for Petroleum Exploration</div> <div>Tim Archer</div> <div>Level: Foundation    Duration: 3 Days</div> <div></div>
<div>N443</div> <div>Essentials of Geophysics</div> <div>John Randolph / Rachel Newrick</div> <div>Level: Awareness    Duration: 1 Days</div> <div></div>			
Seismic Interpretation			
<div>N071</div> <div>Workshop in Geological Seismic Interpretation: Salt Tectonics</div> <div>Mark Rowan, Elive Menyoli and Carl Fiduk</div> <div>Level: Skilled    Duration: 4 Days</div> <div></div>	<div>N072</div> <div>Workshop in Geological Seismic Interpretation: Deep Marine Systems</div> <div>Lesli Wood and Dave McGee</div> <div>Level: Skilled    Duration: 3 Days</div> <div></div>	<div>N288</div> <div>Interpretation of Seismic Data in Structurally Complex Settings</div> <div>Gloria Eisenstadt</div> <div>Level: Skilled    Duration: 5 Days</div> <div></div>	<div>N380</div> <div>Seismic Interpretation Workshop: Play Recognition on Passive Margins</div> <div>Mark Thompson and Mike Mayall</div> <div>Level: Skilled    Duration: 5 Days</div> <div></div>
<div>N485</div> <div>Advanced Seismic Interpretation</div> <div>Rachel Newrick</div> <div>Level: Skilled    Duration: 4 Days</div> <div></div>	<div>N505</div> <div>Applications of Time-Lapse Seismic Data to Reservoir Management and Carbon Storage</div> <div>David H. Johnston</div> <div>Level: Skilled    Duration: 2 Days</div> <div></div>	<div>N527</div> <div>Interpretation of Complex Structures: Techniques for Unraveling Structural Geometry and History</div> <div>Gloria Eisenstadt</div> <div>Level: Skilled    Duration: 4 Days</div> <div></div>	<div>N085</div> <div>The Use of Seismic Data for Subsurface Interpretation</div> <div>Rachel Newrick</div> <div>Level: Foundation    Duration: 5 Days</div> <div></div>
<div>N090</div> <div>Seismic Structural Styles Workshop</div> <div>Gloria Eisenstadt</div> <div>Level: Foundation    Duration: 5 Days</div> <div></div>	<div>N578</div> <div>Practical Seismic Interpretation</div> <div>Rebecca Bell</div> <div>Level: Foundation    Duration: 3 Days</div> <div></div>		

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Classroom



Field



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### Skill Level



Skilled



Foundation



Awareness

# GEOPHYSICS AND SEISMIC INTERPRETATION


## Seismic Tools

**N045**

Seismic Inversion and Applications to Stochastic Reservoir Modelling

Ashley Francis

Level: Skilled    Duration: 4 Days




**N049**

Seismic Attributes for Exploration and Reservoir Characterisation

John Castagna

Level: Skilled    Duration: 5 Days




**N172**

Depth Conversion Methods and Pitfalls

Alan Atkinson

Level: Skilled    Duration: 5 Days




**N217**

Seismic Imaging and Velocity Model-Building Techniques: Concepts, Examples and Pitfalls

Etienne Robein

Level: Skilled    Duration: 4 Days




**N224**

Methods for Quantifying and Communicating Uncertainty in Depth Conversion and Volumetrics

Ashley Francis

Level: Skilled    Duration: 3 Days




**N286**

Seismic Acquisition Principles and Practice (Houston, USA)

Rob Stewart

Level: Skilled    Duration: 5 Days



**N344**

Hydraulic Fracture Monitoring using the Microseismic Technique

Stephen Wilson

Level: Skilled    Duration: 3 Days




**N385**

Quantitative Reservoir Characterization

Jaap Mondt

Level: Skilled    Duration: 5 Days



**N469**

The Practice and Theory of Seismic Depth Imaging: Conventional and Unconventional Plays

David Kessler

Level: Skilled    Duration: 3 Days




**N470**

AVO Reflectivity, Pre-stack Inversion and Quantitative Seismic Interpretation

Bill Goodway

Level: Skilled    Duration: 3 Days




**N658**

Practical Depth Conversion and Depth Imaging for the Interpreter

Scott MacKay

Level: Skilled    Duration: 5 Days




**N659**

The Interpreter's Guide to Depth Imaging

Scott MacKay

Level: Skilled    Duration: 2 Days




**N004**

The Essentials of Rock Physics and Seismic Amplitude Interpretation

Rob Simm / Eleanor Oldham

Level: Foundation    Duration: 4 Days




**N066**

An Objective Approach to Seismic Processing

Rob Hardy

Level: Foundation    Duration: 3 Days




**N282**

Introduction to Full Azimuth Imaging for Conventional Plays and Resource Plays

Walt Lynn

Level: Foundation    Duration: 4 Days




**N317**

A Practical Introduction to Depth Imaging for Interpreters

Etienne Robein

Level: Foundation    Duration: 3 Days



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Awareness

# PETROPHYSICS

General			
<div><div>N030</div><div>Rocks and Fluids: Understanding Petrophysics through Outcrop Studies (Isle of Wight, UK)</div><div>Martin Kennedy and Mike Lovell</div><div>Level: SkilledDuration: 5 Days</div><div></div></div>	<div><div>EC013</div><div>Foundation Petrophysics</div><div>N/A</div><div>Level: FoundationDuration: 6 hours</div><div></div></div>	<div><div>EC014</div><div>Petrophysical Tools</div><div>N/A</div><div>Level: FoundationDuration: 12 hours</div><div></div></div>	<div><div>EC015</div><div>Petrophysics Tools for Geoscience</div><div>N/A</div><div>Level: FoundationDuration: 14 hours</div><div></div></div>
<div><div>EC016</div><div>Petrophysics Tools for Reservoir Engineering</div><div>N/A</div><div>Level: FoundationDuration: 14 hours</div><div></div></div>	<div><div>EC018</div><div>Formation Evaluation</div><div>N/A</div><div>Level: SkilledDuration: 3 hours</div><div></div></div>	<div><div>EP002</div><div>Petrophysics and Formation Evaluation for Geoscientists</div><div>N/A</div><div>Level: FoundationDuration: 25 hours</div><div></div></div>	<div><div>EP003</div><div>Petrophysics and Formation Evaluation for Reservoir Engineers</div><div>N/A</div><div>Level: FoundationDuration: 26 hours</div><div></div></div>
<div><div>N003</div><div>Geological Interpretation of Well Logs</div><div>Jenny Garnham / Martin Kennedy</div><div>Level: FoundationDuration: 5 Days</div><div></div></div>	<div><div>N083</div><div>Petrophysics and Formation Evaluation: Principles and Practice</div><div>Mike Lovell / David Eickhoff</div><div>Level: FoundationDuration: 3 Days</div><div></div></div>	<div><div>N360</div><div>Quantitative Log Analysis and Petrophysics</div><div>Martin Kennedy</div><div>Level: FoundationDuration: 5 Days</div><div></div></div>	<div><div>N525</div><div>Petrophysics Uncovered: a Helpful Guide to Understanding Petrophysics</div><div>Mike Lovell</div><div>Level: AwarenessDuration: 1 Days</div><div></div></div>
Core Analysis			
<div><div>N496</div><div>Advanced Special Core Analysis</div><div>Martin Kennedy</div><div>Level: SkilledDuration: 4 Days</div><div></div></div>	<div><div>N569</div><div>Core Analysis for Reservoir Models</div><div>Adam Moss</div><div>Level: SkilledDuration: 5 Days</div><div></div></div>	<div><div>N666</div><div>Special Core Analysis</div><div>Adam Moss</div><div>Level: SkilledDuration: 4 Days</div><div></div></div>	
Specialist			
<div><div>N054</div><div>Petrophysics and Low Resistivity Pay Evaluation for Conventional Reservoirs</div><div>David Eickhoff</div><div>Level: SkilledDuration: 3 Days</div><div></div></div>	<div><div>N064</div><div>Uncertainty in Petrophysics: Shaly-Sands, Carbonates, and other Problem Areas</div><div>Martin Kennedy</div><div>Level: SkilledDuration: 5 Days</div><div></div></div>	<div><div>N267</div><div>Petrophysics for Shale Gas Reservoirs</div><div>Mike Lovell</div><div>Level: SkilledDuration: 3 Days</div><div></div></div>	<div><div>N528</div><div>Petrophysics of Tight and Unconventional Oil Reservoirs</div><div>Dick Merkel</div><div>Level: SkilledDuration: 3 Days</div><div></div></div>
<div><div>N539</div><div>Cased Hole Formation Evaluation for Reservoir Monitoring</div><div>Gary Frisch and Gary Simpson</div><div>Level: SkilledDuration: 3 Days</div><div></div></div>	<div><div>N935</div><div>Core Properties</div><div>Mehran Sohrabi</div><div>Level: SkilledDuration: 4 Days</div><div></div></div>		

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# RESERVOIR DEVELOPMENT

## General

N523

Sandstone Diagenesis and Reservoir Quality

Richard Worden

Level: Skilled    Duration: 3 Days

N285

Clastic Diagenesis and Reservoir Quality Modeling

Rick Tobin

Level: Foundation    Duration: 3 Days

N342

Compartmentalization and Connectivity in Sandstone Reservoirs

John Snedden

Level: Skilled    Duration: 5 Days

N432

Clastic Reservoir Characterisation for Appraisal and Development (Southern Pyrenees, Spain)

Philip Hirst and Gary Nichols

Level: Skilled    Duration: 5 Days

N058

Reservoir Characterization and Geostatistical Modeling: A Data Analytical Approach to Practical Geospatial Reservoir Mapping

Jeffrey Yarus

Level: Skilled    Duration: 4 Days

N108

Exploration and Geological Model Development in Fluvial Reservoirs (Ebro Basin, Spain)

Gary Nichols and Philip Hirst

Level: Skilled    Duration: 5 Days

N216

Geostatistics and Advanced Property Modelling in Petrel

Ashley Francis

Level: Skilled    Duration: 4 Days

N445

The Subsurface Applications of Geomechanics

Tim Wynn

Level: Skilled    Duration: 3 Days

N506

Reservoir Characterization and Geostatistical Modeling in Field Development

Jeffrey Yarus

Level: Skilled    Duration: 5 Days

N576

Reservoir Modelling and the Application of Outcrop Analogues (Utah, USA)

John Howell

Level: Skilled    Duration: 5 Days

N305

Core Facies Analysis for Resource Plays

Gus Gustason

Level: Foundation    Duration: 5 Days

N008

An Introduction to Reservoir Appraisal and Development

Howard Johnson

Level: Foundation    Duration: 5 Days

N013

Overpressure in Petroleum Systems and Geopressure Prediction

Ed Hoskins / Jakob Heller / Rashad Gulmammadov

Level: Foundation    Duration: 4 Days

## Reservoir Development

N401

Multi-Disciplinary Skills for Field Development Planning and Approval

Pete Smith

Level: Skilled    Duration: 4 Days

N412

A Critical Guide to Reservoir Appraisal and Development

Philip Hirst and Pete Smith

Level: Skilled    Duration: 5 Days

N444

Development Planning For Mature Fields

Jerry Hadwin

Level: Skilled    Duration: 3 Days

N447

Workflows for Developing In-Field Opportunities

Craig Smalley and Pete Smith

Level: Skilled    Duration: 3 Days

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# RESERVOIR DEVELOPMENT

Reservoir Modelling			
<b>N033</b> Characterisation, Modelling, Simulation and Development Planning in Deepwater Clastic Reservoirs (Tabernas, Spain) Mark Bentley and Ed Stephens Level: Skilled    Duration: 5 Days	<b>N386</b> Reservoir Model Design (Pembrokeshire, UK) Mark Bentley and Philip Ringrose Level: Skilled    Duration: 5 Days	<b>N427</b> Reservoir Model Design Mark Bentley Level: Skilled    Duration: 4 Days	<b>N576</b> Reservoir Modelling and the Application of Outcrop Analogues (Utah, USA) John Howell Level: Skilled    Duration: 5 Days
<b>N923</b> Modelling of Reservoir Structure and Fractures (Somerset, UK) Tim Wynn Level: Skilled    Duration: 5 Days	<b>N335</b> Modelling Clastic Reservoirs (Pyrenees, Spain) John Howell and Ed Stephens Level: Foundation    Duration: 6 Days	<b>N556</b> Building the Structural Framework for a Reservoir Model Douglas Paton Level: Foundation    Duration: 3 Days	

## GEOSCIENCE DISCIPLINE GUIDES

- Basin Analysis
- Carbonates
- Clastics
- Geophysics and Seismic Interpretation
- Petrophysics
- Reservoir Development
- Stratigraphy
- Structure and Tectonics
- Unconventional Resources

### Mode of Delivery



Classroom



Field



e-Learning

### Skill Level



Skilled



Foundation



Awareness

# STRATIGRAPHY


Sequence Stratigraphy

N011

High Resolution Sequence Stratigraphy: Reservoir Applications (Utah, USA)

Andy Pulham and Lee Krystinik / Beverley Blakeney DeJarnett

Level: Skilled    Duration: 5 Days




N269

Sequence Stratigraphy and Subsurface Prediction: Methods, Limitations and New Developments

Peter Burgess

Level: Skilled    Duration: 3 Days




N349

Practical Methods for Sequence Stratigraphic Prediction

John Snedden

Level: Skilled    Duration: 5 Days




N410

Sequence Stratigraphy Applied to Exploration and Production

Rene Jonk

Level: Skilled    Duration: 5 Days




N517

Well Log Sequence Stratigraphy for Exploration and Production

Rene Jonk

Level: Skilled    Duration: 2 Days




N518

Seismic Sequence Stratigraphy for Exploration and Production

Rene Jonk

Level: Skilled    Duration: 2 Days




N402

Seismic and Sequence Stratigraphy for Subsurface Exploration and Development

Peter Burgess




Level: Foundation    Duration: 4 Days



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-  Field
-  e-Learning

### Skill Level

-  Skilled
-  Foundation
-  Awareness

# STRUCTURE AND TECTONICS

General			
<div>N142</div> <div>Structure and Fault Systems in Hydrocarbon Exploration and Production (Southern Pyrenees, Spain)</div> <div>Josep Anton Muñoz and Eduard Roca</div> <div>Level: Skilled    Duration: 5 Days</div> <div></div>	<div>N169</div> <div>Structural Geology for Reservoir Characterization: Seismic-scale Outcrop Analogues and Applied Methods (SW Montana, USA)</div> <div>Lans Taylor and Jim Grant</div> <div>Level: Skilled    Duration: 5 Days</div> <div></div>	<div>N218</div> <div>Structural Controls on Deepwater Systems: Growth Structures and Minibasin Fill (Austrian Alps)</div> <div>Douglas Paton</div> <div>Level: Skilled    Duration: 5 Days</div> <div></div>	<div>N428</div> <div>Advanced Structural Methods: From Exploration to Reservoir Scale</div> <div>Lans Taylor</div> <div>Level: Skilled    Duration: 5 Days</div> <div></div>
<div>N477</div> <div>A Systematic Approach to Defining and Evaluating Stratigraphic and Subtle Combination Traps</div> <div>Mark Thompson and Mike Mayall</div> <div>Level: Skilled    Duration: 4 Days</div> <div></div>	<div>N674</div> <div>Northern Appalachian Basin: Tectonics, Faults, and Fractures, and Their Effects on Devonian and Ordovician Black Shales (New York and Pennsylvania, USA)</div> <div>Robert Jacobi and Gus Gustason</div> <div>Level: Skilled    Duration: 5 Days</div> <div></div>	<div>N016</div> <div>Structural Geology for Petroleum Exploration (Nevada, USA)</div> <div>Ken McClay and Lans Taylor</div> <div>Level: Foundation    Duration: 5 Days</div> <div></div>	<div>N116</div> <div>Structural Geology for Petroleum Exploration (SW England, UK)</div> <div>Ken McClay</div> <div>Level: Foundation    Duration: 5 Days</div> <div></div>
<div>N180</div> <div>Fault Mapping: Class and Field Seminar (Texas, USA)</div> <div>David Ferrill / Alan Morris</div> <div>Level: Foundation    Duration: 5 Days</div> <div></div>	<div>N388</div> <div>Structural Geology for Oil and Gas Industry Geoscientists</div> <div>Richard Jones</div> <div>Level: Foundation    Duration: 5 Days</div> <div></div>	<div>N563</div> <div>A Structural Geology Toolbox for Geoscientists and Engineers (Virtual Outcrops)</div> <div>Douglas Paton</div> <div>Level: Foundation    Duration: 3 Days</div> <div></div>	<div>N657</div> <div>Seismic Structural Interpretation Techniques</div> <div>Douglas Paton</div> <div>Level: Foundation    Duration: 5 Days</div> <div></div>
Compressional Regimes			
<div>N053</div> <div>Compressional Structural Styles: Models for Exploration and Production (Alberta, Canada)</div> <div>Malcolm Lamb</div> <div>Level: Skilled    Duration: 5 Days</div> <div></div>	<div>N074</div> <div>Geological and Seismic Interpretation of Thrust Structures for Exploration and Reservoir Characterization (Montana, USA)</div> <div>Peter Hennings</div> <div>Level: Skilled    Duration: 5 Days</div> <div></div>	<div>N325</div> <div>Advanced Structural Interpretation for Petroleum Exploration and Development in Fold and Thrust belts (Pyrenees, Spain)</div> <div>Josep Anton Munoz and Ken McClay</div> <div>Level: Skilled    Duration: 5 Days</div> <div></div>	
Extensional Regimes			
<div>N114</div> <div>Extensional Tectonics and Normal Faulting (Nevada and California, USA)</div> <div>David Ferrill</div> <div>Level: Skilled    Duration: 5 Days</div> <div></div>	<div>N407</div> <div>Predicting Reservoir and Petroleum Systems in Rifts and Extensional Basins (New Mexico &amp; Colorado, USA)</div> <div>Lee F. Krystinik</div> <div>Level: Skilled    Duration: 5 Days</div> <div></div>	<div>N575</div> <div>From Sub-Seismic Faults to Rift Basins: Exploration, Appraisal, and Production Insights (Gulf of Corinth, Greece)</div> <div>Douglas Paton</div> <div>Level: Skilled    Duration: 5 Days</div> <div></div>	

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Classroom



Field



e-Learning

### Skill Level



Skilled



Foundation



Awareness

# STRUCTURE AND TECTONICS

## Fault Seal Analysis

N446

Fault Seal Analysis: Concepts, Methods and Applications

Dan Hemingway

Level: Skilled

Duration: 3 Days



N414

Practical Prospect, Trap and Fault Seal Analysis

Titus Murray

Level: Foundation

Duration: 4 Days



N134

Carbonate and Shale Faulting and Fracturing Field Seminar (Texas, USA)

David Ferrill and Adam Cawood

Level: Skilled

Duration: 5 Days



N266

Mechanical Stratigraphy, Stress, and Geomechanics (West Texas, USA)

Kevin Smart and Adam Cawood

Level: Skilled

Duration: 5 Days



N371

Natural Fractures and Production in Different Reservoir Lithologies, Examples and Analogs from the San Juan Basin (New Mexico and Colorado, USA)

John Lorenz, Scott Cooper and Bruce Hart

Level: Skilled

Duration: 6 Days



N379

Application of Geomechanics to Reservoir Characterization, Management and Hydraulic Stimulation (Wyoming, USA)

Peter Hennings and Jon Olson

Level: Skilled

Duration: 5 Days



N381

Influence of Tectonics and Mechanical Stratigraphy on Natural Deformation in the Permian Basin (Texas, USA)

David Ferrill, Alan Morris, Ronald McGinnis, Kevin Smart

Level: Skilled

Duration: 5 Days



N411

Mechanical Stratigraphy, Stress and Geomechanics

Kevin Smart and Adam Cawood

Level: Skilled

Duration: 3 Days



N354

Geomechanics: Exploration to Field Rejuvenation

David Castillo

Level: Foundation

Duration: 4 Days



EC052

Geomechanics for Oil and Gas Projects

N/A

Level: Foundation

Duration: 6 hours



## Fracturing and Geomechanics

## Salt Tectonics

N149

Practical Salt Tectonics

Mark Rowan

Level: Skilled

Duration: 4 Days



N163

Salt Evolution and Coeval Sedimentation in the Paradox Basin (Utah, USA)

Bruce Trudgill

Level: Skilled

Duration: 5 Days



N232

Salt Tectonics: Global Styles, Spanish Outcrops (Basque-Cantabrian Pyrenees, Spain)

Mark Rowan and Josep Anton Muñoz/ Eduard Roca

Level: Skilled

Duration: 5 Days



N493

Salt Tectonics of the Gulf of Mexico

Mark Rowan

Level: Skilled

Duration: 3 Days



N662

Salt Tectonics and Halokinetic Sequences Concepts in the Onshore Lusitanian Basin (Portugal)

Pedro Barreto

Level: Skilled

Duration: 4 Days



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# UNCONVENTIONAL RESOURCES

General			
<b>N245</b> Sedimentology and Stratigraphy of Lacustrine Systems: Reservoir and Source Rocks, Great Salt Lake and Green River Formation (Utah and Colorado, USA) Rick Sarg and Paul Wright Level: Skilled    Duration: 6 Days	<b>N284</b> Seismic Attributes and Pre-Stack Inversion Tools for Characterizing Unconventional Reservoirs Satinder Chopra Level: Skilled    Duration: 4 Days	<b>N406</b> Unconventional Resource Assessment and Valuation Gary Citron / Jim Gouveia / Creties Jenkins and/or Mark McLane Level: Skilled    Duration: 4 Days	<b>N184</b> Unconventional Resources: The Main Oil Systems (Colorado, USA) Steve Sonnenberg Level: Foundation    Duration: 5 Days
<b>N274</b> Unconventional Resource Engineering for Geoscientists Yucel Akkutlu Level: Foundation    Duration: 3 Days	<b>N463</b> Geological Drivers for Tight-Oil and Unconventional Plays in the Powder River Basin and Applications to Other Basins (Wyoming, USA) Randi Martinsen and Lee Krystinik Level: Foundation    Duration: 5 Days	<b>N471</b> The Petroleum System in Unconventional Exploration & Production: Geology, Geochemistry and Basin Modeling Andy Pepper Level: Foundation    Duration: 4 Days	<b>N647</b> Shale & Tight Oil for Technical Professionals Steve Hennings Level: Foundation    Duration: 3 Days
Shale Plays			
<b>N271</b> The Bakken Petroleum System as a Resource Play (Montana, USA) Steve Sonnenberg, Mike Hendricks and Jennifer Miskimins Level: Skilled    Duration: 6 Days	<b>N291</b> Geological Reservoir Characteristics of Siliciclastic Unconventional Light Oil Plays, Western Canada Sedimentary Basin (Alberta, Canada) Per Kent Pedersen and Guest Level: Skilled    Duration: 5 Days	<b>N364</b> Fracture Architecture, Sedimentology and Diagenesis of Organic-rich Mudstones of Ancient Upwelling Zones with Application to Naturally Fractured Reservoirs (California, USA) Richard Behl and Jon Schwalbach / Michael Gross Level: Skilled    Duration: 5 Days	<b>N366</b> Shale Reservoir Workshop: Analyzing Organic-Rich Mudrocks from Basin to Nano- Scale Ursula Hammes Level: Skilled    Duration: 5 Days
<b>N382</b> Recognition of Mudstone Depositional Processes and Depositional Settings: Implications for Reservoir Heterogeneity and Play Extent Per Kent Pedersen and Juergen Schieber Level: Skilled    Duration: 4 Days	<b>N438</b> Geoscience and Engineering Evaluation of Unconventional Source Rock Reservoirs: The Eagle Ford at Lozier Canyon (Texas, USA) Art Donovan and Noel McInnis Level: Skilled    Duration: 5 Days	<b>N259</b> From Outcrop to Subsurface: Understanding and Evaluating Shale Resource Plays (Alberta, Canada) Per Kent Pederson Level: Foundation    Duration: 6 Days	<b>N313</b> Evaluating Shale and Tight Oil and Gas Reservoirs Creties Jenkins Level: Foundation    Duration: 4 Days
Tools and Techniques			
<b>N206</b> Seismic Tools for Unconventional Reservoirs Heloise Lynn Level: Skilled    Duration: 4 Days	<b>N437</b> Geomechanics for Unconventional and Tight Reservoirs Neal Nagel and Marisela Sanchez-Nagel Level: Skilled    Duration: 4 Days	<b>N440</b> Shale Analytics: Asset Management with Data-Driven Analytics and Modeling Shahab Mohaghegh Level: Skilled    Duration: 2 Days	<b>N480</b> Introduction to Statistical Modeling and Big Data Analytics Srikanta Mishra Level: Foundation    Duration: 1 Days

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Foundation



Awareness

Our goal is to collaborate with our customers to develop the competencies and capability of their workforce through integrated learning that supports their roles and promotes individual development driving organizational excellence.

Our expertise brings flexible and scalable solutions from a diverse energy portfolio in the design, development of technical content and knowledge-based programmes delivered by expert instructors. Our technical and learning expertise help organisations develop the competencies, skills and knowledge they need to fulfill their collective potential.

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