Deeper Insight into the Subsurface

Society of Exploration Geophysicists Annual Meeting and International Exhibition
Booth #2345
Mandalay Bay Convention Center
Las Vegas, Nevada

Presentation Schedule and Abstracts
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<th>Time</th>
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| 9:30 AM  | **New Perspectives in Well Correlation:** A day in the life of the geologist  
Kim McLean, Business Development Manager Formation Evaluation | StratEarth®, SeisEarth®                                                                | Development           |
| 10:00 AM | **Predicting Lithofacies Using Pre-stack Seismic Data Upgrades to 3D Geological Reservoir Models:** A Carbonate Reservoir Case Study  
Bruno de Ribet, Technical Global Director; Loic Richard, Research & Development | Pre-stack supervised facies classification, 3D Canvas, VoxelGeo®, StratEarth®, SKUA® | Carbonate              |
| 10:30 AM | **Quantitative Interpretation**  
Pre-stack seismic data to lithology within an integrated technology canvas  
Joanne Wang, Manager Integrated Workflows | SeisEarth® pre-stack interpretation, 3D crossplotting, pre-stack inversion | Conventional Sands    |
| 11:00 AM | **The End of Sectoring**  
Full-azimuth imaging provides a breakthrough for shale resource characterization  
Duane Dopkin, Executive Vice President Technology | EarthStudy 360®                                                                         | Shale Resources & Fractured Reservoirs |
| 12:00 PM | **Lunch & Learn: We Can’t Explore for What We Can’t See**  
Improving our imaging capabilities  
David McCann, Chief Geophysicist, Woodside Energy (USA) Inc. |                                                                                       | Gulf of Mexico         |
| 1:00 PM  | **High-Technology Value with Every Interpretation**  
A single canvas for fast track interpretation and prospect ranking of a regional dataset  
Bruno de Ribet, Global Technical Director; Wes Hamlyn, Product Manager Interpretation Solutions | SeisEarth® pre-stack interpretation, multi-horizon flattening, new embedded voxel interpretation | Exploration Conventional Sands |
| 1:30 PM  | **Understanding Sub-salt Uncertainty with Full-Azimuth Illumination**  
Joanne Wang, Manager Integrated Workflows | EarthStudy 360® Illumination, SeisEarth®                                               | Sub-salt              |
| 2:00 PM  | **Automated Sealed Stratigraphic Velocity Models**  
A step-change in confidence for your seismic program  
Remy Selz, Technical Sales Advisor Modeling; Stan Jayr, Solutions Manager Modeling | SKUA®                                                                                | Exploration Deep Water |
| 2:30 PM  | **Tired of Remodeling?**  
Prospect, develop and plan concurrently with the unified interpretation and shared earth-model solution  
Hassane Kassouf, Technical Advisor Modeling | SKUA®, SeisEarth®                                                                       | Exploration Structural |
| 3:00 PM  | **Interactive Well Planning and Geosteering for Sweet Spot Optimization:** A Barnett Shale example  
Douglas Gilmour, Business Development Manager Drilling Solutions | Sydrill®, SeisEarth®, Geolog®, Geosteer®                                               | Shale Resources        |
| 3:30 PM  | **Reservoir Delineation Is Not All Smoke and Mirrors**  
Seismic image enhancement for improved reservoir delineation  
Laura Evins, Product Manager Reservoir Delineation; Adam Marsden, Technical Sales Interpretation | Curvature, Coherence Cube®, Spectral decomposition, Dip-steered enhancement, GPU-based complex trace attributes | Exploration & Development |
| 4:00 PM  | **Tomography Advancements**  
Improved structural and stratigraphic models and accurate reserve estimates  
Shiv Singh, Solutions Manager Processing; Sandra Allwork, Business Development Manager Processing | GeoDepth® Tomography                                                                   | Exploration Deep Water |
| 4:30 PM  | **Sweet Spot Determination Using Seismic Attributes**  
An Eagle Ford shale example  
Adam Marsden, Technical Advisor Interpretation | SeisEarth®, Vanguard®, EarthStudy 360®                                                 | Shale Resources        |
| 5:00 PM  | **New Perspectives in Well Correlation:** A day in the life of the geologist  
Kim McLean, Business Development Manager Formation Evaluation | StratEarth®, SeisEarth®                                                                | Development           |
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**Notes**
**Tired of Remodeling?**
Prospect, develop and plan concurrently with the unified interpretation and shared earth-model solution
Monday, 2:30 pm, Tuesday, 4:00 pm, Wednesday 2:00 pm

Embark on a new solution for creating a single, truly-shared model that can be updated rapidly and is faithful to geology. Perform seismic chronostratigraphic interpretation while simultaneously improving your reservoir model.

**Asset Challenge: Exploration and Development**
Supporting Technologies: SKUA®, SeisEarth®
Domain: Interpretation and Modeling

**Reservoir Delineation Is Not All Smoke and Mirrors**
Seismic image enhancement for improved reservoir delineation
Monday, 3:30 pm, Tuesday, 2:30 pm, Wednesday 1:30 pm

Improving the seismic image is vital to accurately identifying the basin’s structural framework and geomorphology. Accelerated delineation of reservoirs is augmented by post-stack image enhancements that target specific data problems related to noise, resolution, structure and stratigraphy. See how the application of image enhancing attributes can be used with visualization techniques and high-performance GPU computing, to bring about major advances in image interpretation.

**Asset Challenge: Exploration - Structural**
Supporting Technologies: Curvature, Coherence Cube®, Spectral Decomposition, Dip-steered enhancement, GPU-based Complex Trace Attributes
Domain: Interpretation and Modeling

**Automated, Sealed, Stratigraphic Velocity Models**
A step-change in confidence for your seismic program
Monday, 2:00 pm, Tuesday, 9:30 am, 4:30 pm, Wednesday, 1:00 pm

Velocity modeling is too often the bottleneck in seismic imaging or time-to-depth conversion projects, as updates to the model must keep pace with overnight seismic imaging runs or new data input. See how Paradigm's SKUA velocity model solution generates sealed stratigraphic models, regardless of the geologic complexity, and how these models can drive any seismic inversion, imaging, pore pressure prediction, and time-to-depth conversion projects.

**Asset Challenge: Exploration - Deep Water**
Supporting Technologies: SKUA®
Domain: Seismic Processing and Imaging, Velocity Modeling

**Tomography Advancements**
Improved structural and stratigraphic models and accurate reserve estimates
Monday, 4:00 pm, Tuesday, 3:30 pm, Wednesday, 2:30 pm

Tomographic solutions for updating velocity models have become the most advanced data integrators for seismic data, borehole data and geologic data. See how Paradigm integrates the latest in automated interpretation, geology, azimuth and anisotropy for improved velocity, structural and reservoir models, in order to eliminate time-consuming iterations.

**Asset Challenge: Exploration - Deep Water**
Supporting Technologies: GeoDepth® Tomography
Domain: Seismic Processing and Imaging, Velocity Modeling

**High Technology Value with Every Interpretation**
A single canvas for fast track interpretation and prospect ranking of a regional dataset
Monday, 1:00 pm, Tuesday, 1:00 pm, Wednesday, 12:00 pm, 3:30 pm

Seismic interpreters routinely deal with projects that integrate regional-scale 2D surveys, huge merged 3D volumes, and thousands of wells for prospect identification, ranking and validation. Consequently, the selection of the right technical solution is a business critical decision for oil and gas companies.

Learn how the Paradigm interpretation solution incorporates breakthrough technologies (GPU-based voxel rendering), a rich diversity of data (including pre-stack data) and workflows that efficiently handle the progressive increases in data volume while still easily accommodating daily interpretation tasks.

**Asset Challenge: Exploration - Conventional**
Supporting Technologies: SeisEarth® pre-stack interpretation, multi-horizon flattening, new embedded voxel interpretation
Domain: Interpretation and Modeling

**Quantitative Interpretation**
Pre-stack seismic data to lithology within an integrated technology canvas
Monday, 10:30 am, Tuesday, 11:00 am, Wednesday, 11:00 am

Pre-stack seismic data carries critical information related to rock properties. Transformation of pre-stack data to lithology is carried out easily and collaboratively with the support of Paradigm's integrated technology canvas. See the value of powerful quantitative interpretation and seismic characterization workflows.

**Asset Challenge: Conventional - Sand**
Featured technologies: SeisEarth® pre-stack interpretation, 3D crossplotting, pre-stack inversion
Domain: Quantitative Interpretation

**New Perspectives in Well Correlation**
A day in the life of the geologist
Monday, 9:30 am, 5:00 pm, Tuesday, 3:00 pm

Standard well-to-well correlation, geological cross-sections, maps and 3D seismic data are all brought together to help understand the spatial relationship between wells, picks, seismic horizons and faults, to create the best possible geological interpretation.

**Asset Challenge: Development**
Featured technologies: StratEarth®, SeisEarth®
Domain: Interpretation and Modeling

**The End of Sectoring**
Full-azimuth imaging provides a breakthrough for shale resource characterization
Monday, 11:00 am, Tuesday, 1:30 pm, Wednesday, 10:00 am

Seismic data characterizations for stress and fracture determination are compromised and even flawed when time domain and azimuthal sectoring procedures are used. Imagine a system that characterizes shales with in-situ measurements in depth, from all directions. See how Paradigm's EarthStudy 360 solution achieves these objectives and makes seismic data highly relevant for shale resource plays.

**Asset Challenge: Shale Resources and Fractured Reservoirs**
Featured technologies: EarthStudy 360®
Domain: Seismic Processing and Imaging, Velocity Modeling

**Interactive Well Planning & Geosteering for Sweet Spot Optimization**
A Barnett Shale example
Monday, 3:00 pm, Tuesday, 10:00 am

Highly collaborative solutions are required to drive well planning and drilling decisions in shale resource plays. Sysdrill Designer, an embedded and integrated solution in Paradigm’s interpretation offering, delivers optimal well path design with respect to all available geologic information within the 3D subsurface model. As drilling proceeds, Geolog Geosteer provides interactive structural updates that correlate modeled logs with real-time LWD, allowing accurate stratigraphic position of the wellbore to be determined and any required trajectory adjustment to be identified.

**Asset Challenge: Shale Resources**
Supporting Technologies: Sysdrill® Designer, SeisEarth®, Geolog® Geosteer®
Domain: Interpretation and Modeling
Sweet Spot Determination Using Seismic Attributes
An Eagle Ford shale example
Monday, 4:30 pm, Tuesday, 2:00 pm, Wednesday, 3:00 pm
Seismic attributes often provide the key to an in-depth understanding of the heterogeneity of shale formations. See how Paradigm’s solution recovers favorable fluid content, 3D distribution of shale brittleness, and in-situ stress magnitude, for upgraded sweet spot determination enabling optimum well placement.

Asset Challenge: Shale Resources
Supporting Technologies: SeisEarth®, Vanguard®, EarthStudy 360®
Domain: Interpretation and Modeling

Predicting Lithofacies Using Pre-stack Seismic Data
Upgrades to 3D Geological Reservoir Models
A carbonate reservoir case study
Monday, 10:00 am, Tuesday, 10:30 am, Wednesday, 10:30 am
A 3D reservoir property model is fully characterized by the principle subsurface rock types and their accurate spatial distribution. This demonstration significantly expands the traditional uses of pre-stack data for seismic characterization through the use of classification procedures for predicting lithofacies away from the wellbore and for assessing the uncertainty for each rock type. This innovation enables workflows that capture reservoir heterogeneities and detail normally not feasible with standard reservoir characterization workflows.

Asset Challenge: Carbonates
Supporting Technologies: Pre-stack supervised facies classification, 3D Canvas, VoxelGeo®, StratEarth®, SKUA®
Domain: Quantitative Interpretation

Understanding Sub-salt Uncertainty with Full-Azimuth Illumination
Monday, 1:30 pm, Tuesday, 5:00 pm, Wednesday, 9:30 am
Salts, salts and more salts! The presence of salt bodies affects subsurface illumination and therefore seismic data quality and reliability. This live demonstration will navigate through fascinating deep water Gulf of Mexico areas to show how illumination analysis is used to assess the uncertainties of structural and stratigraphic interpretations made below a complex overburden.

Asset Challenge: Sub-salt
Supporting Technologies: EarthStudy 360® Illumination, SeisEarth®
Domain: Seismic Processing and Imaging, Velocity Modeling

Lunch & Learn Customer and Partner Presentations
Please register in advance at the reception desk.

We Can’t Explore for What We Can’t See
Improving our imaging capabilities
Presentation by Woodside Energy (USA) Inc.
Monday, 12:00 pm
Success in exploration in the Gulf of Mexico is largely about the quality of the images that we work with. This talk will focus on several topics, all related to improving image quality. We will start with something as simple as water velocity, and continue through to how to build a sub-salt velocity field. Key technologies to be discussed will include interpretive/iterative salt modeling and the use of vertical effective stress to support both sub-salt velocity determination and gravity modeling.

Asset Challenge: Gulf of Mexico

Using GPUs to Blend Computation with Visualization in the E&P Workflow
Presentation by NVIDIA Inc.
Tuesday, 12:00 pm
NVIDIA is the world leader in Visual Supercomputing, and the value of GPUs is being demonstrated not only for computationally intense algorithms like Reverse Time Migration (RTM), but for other Exploration and Production applications as well. This presentation explores how customers are taking advantage of an efficient GPU-based data center architecture to shed new light on hydrocarbon prospects. Scalable systems with multiple GPUs per node are not only solving complex seismic algorithms, but also transforming how geoscientists visually interact with very large projects during regional basin analysis.

Asset Challenge: Exploration and Production

SEG Technical Papers Presented by Paradigm

Anomaly Detection Using Dynamic Neural Networks, Classification of Prestack Data
Kamal Hami-Eddine, Pascal Klein, Loic Richard (Paradigm), Andrew Furniss (AWE Limited)
RC E-P1 Methods/Tools for Reservoir Monitoring
E-Poster Station: 1, Shoreline B Exhibit Hall
Monday, 2:30 pm

Integrated Study of an Eagle Ford Shale Play Using a Variety of Seismic Attributes
Joanne Wang, Duane Dopkin (Paradigm), Richard Kelvin (Seitel)
SS4 Unconventional Shale Reservoirs
Room: Lagoon L
Wednesday, 2:45 pm

Integrated Uncertainty Assessment: From Seismic and Well Logs to Flow Simulation
Emmanuel Gringarten
SS5 Advances in Uncertainty Quantification
Room: Lagoon L
Thursday, 9:45 am

Imaging of Corner Reflection Events using Subsurface Directional Angle Decomposition
Zvi Koren
SS6 Seismic Diffraction Methods for Fault and Fracture Detection
Post-Convention Workshop, Mandalay Bay Conventional Center
Room: Breakers D
Friday, 11:20 am

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Presentation by NVIDIA Inc.
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NVIDIA is the world leader in Visual Supercomputing, and the value of GPUs is being demonstrated not only for computationally intense algorithms like Reverse Time Migration (RTM), but for other Exploration and Production applications as well. This presentation explores how customers are taking advantage of an efficient GPU-based data center architecture to shed new light on hydrocarbon prospects. Scalable systems with multiple GPUs per node are not only solving complex seismic algorithms, but also transforming how geoscientists visually interact with very large projects during regional basin analysis.

Asset Challenge: Exploration and Production

Anomaly Detection Using Dynamic Neural Networks, Classification of Prestack Data
Kamal Hami-Eddine, Pascal Klein, Loic Richard (Paradigm), Andrew Furniss (AWE Limited)
RC E-P1 Methods/Tools for Reservoir Monitoring
E-Poster Station: 1, Shoreline B Exhibit Hall
Monday, 2:30 pm

Integrated Study of an Eagle Ford Shale Play Using a Variety of Seismic Attributes
Joanne Wang, Duane Dopkin (Paradigm), Richard Kelvin (Seitel)
SS4 Unconventional Shale Reservoirs
Room: Lagoon L
Wednesday, 2:45 pm

Integrated Uncertainty Assessment: From Seismic and Well Logs to Flow Simulation
Emmanuel Gringarten
SS5 Advances in Uncertainty Quantification
Room: Lagoon L
Thursday, 9:45 am

Imaging of Corner Reflection Events using Subsurface Directional Angle Decomposition
Zvi Koren
SS6 Seismic Diffraction Methods for Fault and Fracture Detection
Post-Convention Workshop, Mandalay Bay Conventional Center
Room: Breakers D
Friday, 11:20 am

Lunch & Learn Customer and Partner Presentations
Please register in advance at the reception desk.

We Can’t Explore for What We Can’t See
Improving our imaging capabilities
Presentation by Woodside Energy (USA) Inc.
Monday, 12:00 pm
Success in exploration in the Gulf of Mexico is largely about the quality of the images that we work with. This talk will focus on several topics, all related to improving image quality. We will start with something as simple as water velocity, and continue through to how to build a sub-salt velocity field. Key technologies to be discussed will include interpretive/iterative salt modeling and the use of vertical effective stress to support both sub-salt velocity determination and gravity modeling.

Asset Challenge: Gulf of Mexico

Using GPUs to Blend Computation with Visualization in the E&P Workflow
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