NTA GLOBAL TRAINING PROGRAMME

Relaunched 2020 Schedule - Nautilus Training Alliance

August - December 2020

Nautilus
Training Alliance

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2020 NTA RELAUNCH

The **Nautilus Training Alliance** technical training programme for 2020 has been relaunched to take into account restrictions on travel and meetings in various parts of the world and features the following blend of classes:

Distance Learning courses have been scheduled for the remainder of 2020 to provide certainty of delivery and ensure that our obligations to deliver a programme are met. Courses are timetabled to provide a global programme that increases the number of topics available in some subject areas.

Classroom courses remain scheduled for topics that have a local audience in the US, for example some resource plays classes in Houston towards the end of the year.

Field courses are maintained in the US and Europe and re-arranged to run later in the year. In the event that travel restrictions make these difficult to run, alternative courses delivered by distance learning which will cover similar learning outcomes will be available.

The programme has **evolved** to:

1. **Consolidate core subject areas**, for example Unconventional Resources for NA clients
2. **To include new courses**, for example the North Sea Reservoirs series for European clients
3. **Strengthen** the programme in subject areas impacted by the reduction in the number of field courses, for example carbonate systems and rift basins

History
Nautilus created the Training Alliance in collaboration with oil and gas companies in 1998 to develop a programme of training courses in petroleum geosciences, reservoir and production engineering.

Quality Assurance
A thorough quality assurance and feedback process, supported by periodic external review, ensures courses of the highest quality.

Expert Tutors
We have built up a portfolio of over 400 courses delivered by tutors who are subject matter experts as professional practitioners with many years of experience or academics with cutting-edge knowledge of the subject areas.

Comprehensive Technical Portfolio
A wide range of professional training courses in topics across the energy industry. Courses are framed within a competency matrix of subject areas and skill levels: learning outcomes for each course are defined to ensure participants meet training objectives.

Competency Levels
Awareness: Knowledge and comprehension of a subject or topic. Explaining and recalling important information, but this can still be as a dependent contributor at times.

Basic Application: Application and analysis of topics. Problem-solving and interpretation, essentially as a self-starter, or individual, independent contributor.

Skilled Application: Integration, judgement and creativity. Making critical evaluations based on a sound knowledge and experience base, as a fully independent and highly competent individual contributor, who also can be an effective technical coach to colleagues and less experienced staff at times.

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DISTANCE LEARNING

Flexible Training Solutions - Structured on-line courses comprised of webinars and digital training materials provided through the RPS Energy Learning Hub.

Course Structure

Each course is divided into **sessions**, each comprising:

- Interactive live tutor led webinar
- Self-paced digital learning materials
- Exercises with tutor feedback

Scheduling

Courses consist of a series of **live webinar** sessions including instructor interaction, typically starting at 14:00 London and 08:00 Houston time.

A course is typically completed over a period of 1-2 weeks.

Webinars

Scheduled events provide the opportunity for instructors to present **learning materials**, answer questions from participants and review exercises.

Webinars are typically 2-3 hours long.

Learning Materials

Course manuals are in digital format, exercises are on-line and on paper.

All content is available through the **Learning Hub**.

learninghub.rpsgroup.com

The Learning Hub

The Learning Hub is the digital center for all Distance Learning courses, providing access to learning materials, events, resources and enabling participant and instructor interaction.

- Access to scheduled webinars is through a simple link on course pages
- All learning materials are hosted on the Learning Hub
- Instructors add content (exercise solutions, whiteboard downloads, feedback, etc) during the course
- Forums allow participants and instructors to interact during the course creating a fully interactive virtual class
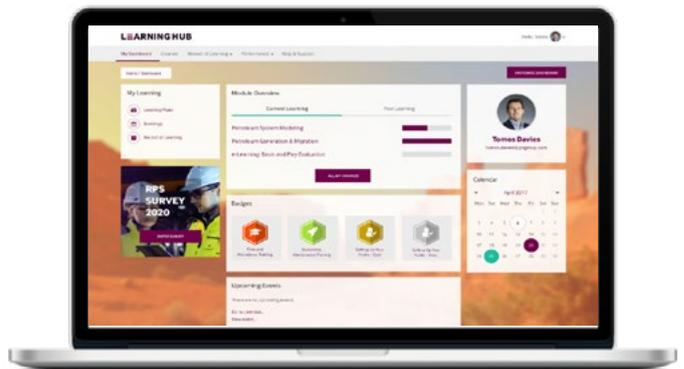
Webinars

Instructor-led sessions are scheduled regularly throughout the course delivery period:

- Webinar facilitator (RPS staff) provides continuous technical support for tutors and webinar transmission
- Instructor presents with a screen: participants can view screen only or screen and presenter
- Interactive whiteboards are used with display downloaded and shared with participants.
- Course participants can contribute directly or via on-line chat facility moderated by the facilitator.
- Breakout rooms are used for small group exercises and discussions
- Webinars are recorded for later review by course participants
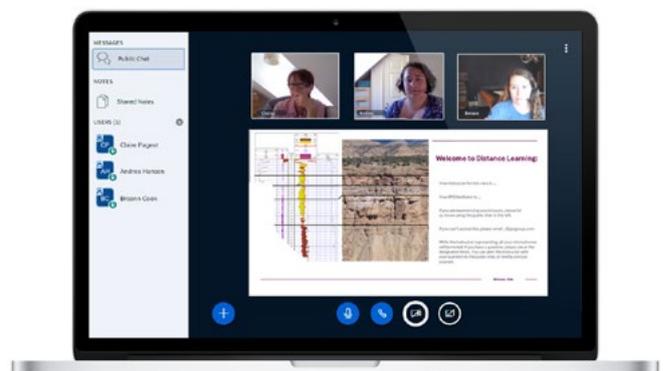
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Class Code	Title	Competency Level	Delivery Mode	Instructor/s	Duration (sessions/ days)	Dates	Location

GEOPHYSICS AND SEISMIC INTERPRETATION
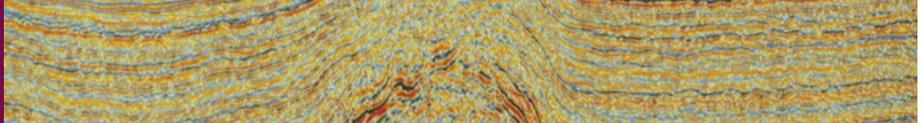
Class Code	Title	Competency Level	Delivery Mode	Instructor/s	Duration	Dates	Location
D485a	Advanced Seismic Interpretation	Skilled	Distance Learning	Rachel Newrick	8 Sessions	21 Sep - 01 Oct	Virtual

This course is designed to strengthen key interpretation skills and add tools to the interpreter's workflow. The strengthening of these skills and added tools will enable participants to improve success rates and decrease drilling risks and costs by reducing structural, stratigraphic and fluid uncertainty.

D483a	Geological Seismic Interpretation of Deepwater Systems: Depositional Environments, Reservoir Architecture and Stratigraphy	Skilled	Distance Learning	Mike Mayall	6 Sessions	22 Sep - 01 Oct	Virtual

This course focuses on the seismic stratigraphic interpretation of deepwater depositional systems and has an emphasis on utilising practical workflows for mapping, predicting and quantifying deepwater reservoirs. Through this, the course provides seismic interpreters with the skills and techniques required to more efficiently map different deepwater facies leading to better understanding of the reservoir distribution and stratigraphic trap potential. This can be utilised in all stages of the E&P cycle.

D470a	AVO Reflectivity, Pre-stack Inversion and Quantitative Seismic Interpretation	Basic	Distance Learning	Bill Goodway	6 Sessions	13 - 22 Oct	Virtual

Utilization of AVO (Amplitude Versus Offset) reflectivity-based pre-stack elastic and anisotropic seismic inversion methods has increased in the last decade, thereby providing geoscientists and engineers with direct subsurface investigation methods to characterize reservoirs and plan drilling projects. During the same period, improvements in seismic reflection imaging and QI (quantitative interpretation) analysis have enabled more reliable predictions of reservoir lithology, porosity, and fluids while also yielding useful insights regarding fluid flow and hydro-fracture stimulation through detailed 3D mapping of reservoir inhomogeneities, stresses, and fractures. This course provides geoscientists and engineers with the practical skills necessary to utilize seismic inversion methods and QI techniques to characterize reservoirs and plan drilling projects for both conventional and unconventional reservoirs.

D468a	Deep Water Reservoirs — Risking and Characterization	Basic	Distance Learning	Vitor Abreu	10 Sessions	26 Oct - 06 Nov	Virtual

The course emphasizes key changes in deep water reservoir models that have a major impact on exploration and production of these reservoirs. Participants will learn how to interpret and map environments of deposition (EoD's) in deep water systems, and understand how the different EoD's and sub-EoD's behave as reservoirs. Engineering data will also be used to demonstrate how to improve prediction of reservoir performance.

D004a	The Essentials of Rock Physics and Seismic Amplitude Interpretation	Basic	Distance Learning	Rob Simm	8 Sessions	02 - 12 Nov	Virtual

This course presents the physical basis for quantitative seismic interpretation within the context of hydrocarbon exploration and production. Key technologies are explained in a straightforward manner; with topics including rock physics analysis of log data, well ties, 1D and 2D seismic modelling, amplitude and AVO analysis, seismic inversion to rock properties and the use of seismic amplitude information in prospect risking. Practical exercises utilise Excel based applets to aid understanding and the lessons learnt are of general application.

N288a	Interpretation of Seismic Data in Structurally Complex Settings	Skilled	Classroom	Gloria Eisenstadt	5 Days	07 - 11 Dec	Houston, USA

Seismic interpretations are often carried out in areas with multiple episodes of structural deformation. This course develops skills in interpreting 2D and 3D seismic data sets that show examples of structural reactivation and superposition of different structural styles, directions and timing. The course combines structural analysis with a practical application of a workstation-based workflow and a set of "best practices" that can be used to approach complex data sets.

STRUCTURE AND TECTONICS

Class Code	Title	Competency Level	Delivery Mode	Instructor/s	Duration	Dates	Location
D411a	Mechanical Stratigraphy, Stress and Geomechanics	Skilled	Distance Learning	Kevin Smart, Alan Morris	5 Sessions	16 - 20 Nov	Virtual

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Class Code	Title	Competency Level	Delivery Mode	Instructor/s	Duration (sessions/days)	Dates	Location

This course will apprise course participants of key concepts in fracture characterization and analysis, stress, and geomechanics. We will explore the importance and application of stress and geomechanical analyses to energy exploration and production in both conventional and unconventional reservoirs, with emphasis on well design, borehole stability, and hydraulic fracturing. Participants will develop the skill sets necessary for planning and evaluating a fracture and geomechanics study.

Class Code	Title	Competency Level	Delivery Mode	Instructor/s	Duration	Dates	Location
D477a	A Systematic Approach to Defining and Evaluating Stratigraphic and Subtle Combination Traps	Skilled	Distance Learning	Mark Thompson, Mike Mayall, Stuart Archer	8 Sessions	23 Nov - 04 Dec	Virtual

Many stratigraphic and combination traps are discovered serendipitously, throughout a basin's exploration history. They are often perceived as high risk and volumes are commonly underestimated, especially where the column height is larger than the structural spill. In this course we will develop a consistent and systematic workflow for the deliberate identification and evaluation of such traps. This is important as these subtle traps often get risked in an inconsistent manner across organisations but they can contain significant resources.

BASIN ANALYSIS

Class Code	Title	Competency Level	Delivery Mode	Instructor/s	Duration	Dates	Location
D425a	Play Analysis for Targeted Prospect Identification	Basic	Distance Learning	Mark Thompson	8 Sessions	05 - 16 Oct	Virtual

Play fairway analysis is commonly used in the evaluation of frontier basins. However, it can also be successfully applied to more mature basins where moderate-sized accumulations, perhaps in subtle trap configurations, await the attention of the creative explorer. This course will emphasise how understanding the geology and, in particular, common risk segment mapping can lead to the identification of both high and low-risk areas and ultimately lead to the discovery of untapped resources.

Class Code	Title	Competency Level	Delivery Mode	Instructor/s	Duration	Dates	Location
D129a	Hydrocarbon Habitat in Rift Basins	Skilled	Distance Learning	Joe Lambiase	10 Sessions	12 - 23 Oct	Virtual

The course describes the sedimentology and stratigraphic evolution of rift-fill and post-rift successions in non-marine and marine settings, as a product of structural evolution, climate variation, and sea level change. These principles are applied to the acquisition and evaluation of exploration acreage and illustrated by worldwide case studies.

Class Code	Title	Competency Level	Delivery Mode	Instructor/s	Duration	Dates	Location
D013a	Overpressure in Petroleum Systems and Geopressure Prediction	Basic	Distance Learning	Jakob Heller, Niven Shumaker	8 Sessions	09 - 19 Nov	Virtual

This course addresses the origin and distribution of overpressure in the subsurface with emphasis on practical applications to the geoscientist and petroleum engineer. Geoscientists and engineers will learn how to measure, estimate and model pore pressure as an aid to production sweet spot identification, predrill well planning, evaluation of seal breach risk, recognition of lateral drainage and hydrodynamics, and assessing the uncertainty of the pre- drill pressure interpretation. The course includes geopressure analysis in unconventional systems and expanded content on the use of seismic data in pressure prediction.
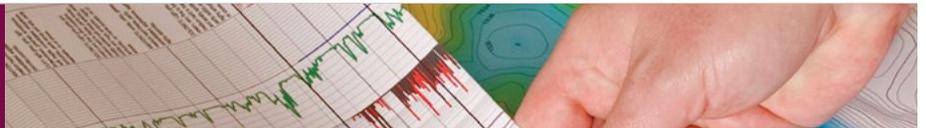
STRATIGRAPHY, CLASTICS AND CARBONATES

Class Code	Title	Competency Level	Delivery Mode	Instructor/s	Duration	Dates	Location
W013a	North Sea Reservoirs Series - Devonian Reservoirs Overview	Skilled	Distance Learning	Steven Andrews, Stuart Archer	1 Day	01 Sep	Virtual

Fundamental knowledge regarding Devonian depositional environments will be shared by integrating core, well and seismic data with modern analogues and classic outcrops.

Class Code	Title	Competency Level	Delivery Mode	Instructor/s	Duration	Dates	Location
D517a	Well Log Sequence Stratigraphy for Exploration and Production	Skilled	Distance Learning	Vitor Abreu	4 Sessions	01 - 04 Sep	Virtual

Sequence Stratigraphy is a method developed to support geoscientists in the geologic interpretation of subsurface data, with the objective of predicting play elements presence and quality before drilling. The method can be applied to cores and well logs in all depositional environments. The course will review the basic terminology of surfaces, systems tracts, sequence sets and stratigraphic hierarchy, and their definitions. The method will be described and applied for use to interpret subsurface data in non-marine, shallow marine and deep marine depositional settings. The emphasis will be in the recognition and mapping of play elements from exploration to production scales.

Class Code	Title	Competency Level	Delivery Mode	Instructor/s	Duration	Dates	Location
W016a	North Sea Reservoirs Series - Permian Zechstein Carbonates Overview	Skilled	Distance Learning	Jo Garland, Peter Gutteridge	1 Day	07 Sep	Virtual

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Class Code	Title	Competency Level	Delivery Mode	Instructor/s	Duration (sessions/days)	Dates	Location
	Fundamental knowledge regarding Zechstein depositional environments of the Southern Permian Basin will be shared by integrating core, well and seismic data with modern analogues and classic outcrops.						
D518a	Seismic Sequence Stratigraphy for Exploration and Production	Skilled	Distance Learning	Vitor Abreu	4 Sessions	08 - 11 Sep	Virtual
	Sequence Stratigraphy is a method developed to support geoscientists in the geologic interpretation of subsurface data, with the objective of predicting play elements presence and quality before drilling. The method can be applied to 2D and 3D, seismic lines in all depositional environments. The course will review the basic terminology of surfaces, systems tracts, sequence sets and stratigraphic hierarchy, and their definitions. The method will be described and applied to datasets to later be used to interpret subsurface data in non-marine, shallow marine and deep marine depositional settings. The emphasis will be in the recognition and mapping of play elements from exploration to production scales.						
D073a	Integration of Sedimentology, Petrophysics and Seismic Interpretation for Exploration and Production of Carbonate Systems	Skilled	Distance Learning	Gregor Eberli	8 Sessions	08 - 17 Sep	Virtual
	This course provides a comprehensive overview of necessary concepts for seismic interpretation in carbonate systems for successful exploration and production. Newest concepts in depositional and microbial processes in shallow and deep water carbonate environments, rock physics, and sequence stratigraphy are presented though a combination of lectures, case studies and exercises. The participants will be exposed to many aspects of seismic stratigraphic interpretation related to carbonate reservoirs in traditional, unconventional and lacustrine environments.						
W017a	North Sea Reservoirs Series - Triassic Reservoirs Overview	Skilled	Distance Learning	Gary Nichols, Stuart Archer	1 Day	14 Oct	Virtual
	Fundamental knowledge regarding Triassic depositional environments of each play will be shared by integrating core, well and seismic data with modern analogues and classic outcrops.						
D520a	Coastal, Deltaic and Shallow Marine Clastic Reservoir Characterisation	Skilled	Distance Learning	Gary Nichols, Stuart Archer, Ron Steel	4 Sessions	09 - 12 Nov	Virtual
	Clastic successions in coastal, deltaic and shallow marine settings are controlled by sediment supply characteristics, the interaction of fluvial, wave and tide processes and sequence stratigraphic context. The sandy sediment bodies that can be formed in these settings are very variable in dimensions, internal heterogeneity and connectivity resulting in a complex array of reservoir types and characteristics. A better understanding of these depositional systems can lead to improved exploration risking of reservoir presence and quality, reservoir appraisal and development. This course uses modern and ancient analogues and a series of case studies of successful paralic fields in these depositional settings to provide a users guide to reservoir characterisation.						

PETROPHYSICS

D083b	Petrophysics and Formation Evaluation: Principles and Practice	Basic	Distance Learning	David Eickhoff, Jeff Kelley	10 Sessions	30 Nov - 11 Dec	Virtual
	The course examines the fundamental concepts, vocabulary, and techniques used in petrophysics, exploring the physical properties of rock formations and their pore fluids, and demonstrating how these properties are estimated both in the laboratory and the wellbore. It focuses on the key petrophysical ideas that underpin petrophysical analysis and how downhole logs and core measurements enable quantitative estimates of hydrocarbons in place.						

RESERVOIR DEVELOPMENT

D342a	Compartmentalization and Connectivity in Sandstone Reservoirs	Skilled	Distance Learning	John Snedden	10 Sessions	21 Sep - 02 Oct	Virtual
	The complex interplay of fluids and rock architecture controls efficient depletion of conventional sandstone reservoirs. Stratigraphic and structural analyses often provide much detail, but static and dynamic connectivity information reveal the elements that really matter to flow. This course uses fluid, pressure, log, seismic, and core data to examine the movement of reservoir fluids (oil, gas, water) over geologic and production timescales and determine which factors are critical in the development and exploitation of siliciclastic hydrocarbon reservoirs.						

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Class Code	Title	Competency Level	Delivery Mode	Instructor/s	Duration (sessions/ days)	Dates	Location
D412a	A Critical Guide to Reservoir Appraisal and Development	Skilled	Distance Learning	Stephanie Kape, Pete Smith	10 Sessions	12 - 23 Oct	Virtual

The course is designed to address the decision-based technical workflow that is a pre-requisite to appraisal and development investments. Participants will learn the background theory behind all aspects of reservoirs, from the micro- to seismic-scale, integrating the static and dynamic domains and how to model them. The course covers a range of disciplines, using an integrated subsurface approach with reference to a robust business and commercial framework.

Class Code	Title	Competency Level	Delivery Mode	Instructor/s	Duration	Dates	Location
N305a	Core Facies Analysis for Resource Plays	Basic	Classroom	Gus Gustason	5 Days	02 - 06 Nov	USGS Core Research Center, Lakewood, CO

The course is designed to address the decision-based technical workflow that is a pre-requisite to appraisal and development investments. Participants will learn the background theory behind all aspects of reservoirs, from the micro- to seismic-scale, integrating the static and dynamic domains and how to model them. The course covers a range of disciplines, using an integrated subsurface approach with reference to a robust business and commercial framework.

Class Code	Title	Competency Level	Delivery Mode	Instructor/s	Duration	Dates	Location
D444a	Development Planning For Mature Fields	Skilled	Distance Learning	Mark Cook	5 Sessions	7 - 11 Dec	Virtual

This multidisciplinary course is designed to give participants a broad appreciation of the evaluation and planning activities associated with incremental development planning. This course takes groups through a wide range of associated issues, fills any knowledge gaps in the essential technical fundamentals required for mature field development planning and uses a case-based exercise which will run through the whole course.

UNCONVENTIONAL RESOURCES

Class Code	Title	Competency Level	Delivery Mode	Instructor/s	Duration	Dates	Location
N406a	Unconventional Resource Assessment and Valuation	Skilled	Classroom	Creties Jenkins, Mark McLane	4 Days	19 - 22 Oct	Midland, USA

This course provides the strategies, tactics, and tools needed to effectively assess and value oil and gas resource plays. Probabilistic techniques and a staged approach are applied to make good decisions about which projects to invest in and how to wisely spend limited capital. This is critically important, given the risks and uncertainties inherent in these plays, as well their technical complexities and limited datasets. **This course is run in partnership with Rose and Associates.**

Class Code	Title	Competency Level	Delivery Mode	Instructor/s	Duration	Dates	Location
D345a	Next Generation Earth Modeling; Integrating Geostatistics, Geoscience, Engineering, and Data Science	Skilled	Distance Learning	Jeffrey Yarus	6 Sessions	19 - 30 Oct	Virtual

This class addresses the application and integration of data analytics to subsurface geomodeling for unconventional resources, including oil, gas, and geothermal. Deterministic and stochastic methods used to create static models and uncertainty assessment will be reviewed to establish a common knowledge baseline. This is followed by skill development in data analytical methods such as multivariate statics and machine learning. Topics include kriging, conditional simulation, principal components, cluster analysis, regression, recursive portioning, neural networks, and other practical methods. The class focus is to go beyond traditional static modeling through the integration of geostatistics and data science to produce reliable models for reservoir and completion engineers.

Class Code	Title	Competency Level	Delivery Mode	Instructor/s	Duration	Dates	Location
D250a	Evaluation Methods for Shale Reservoirs	Skilled	Distance Learning	Jeff May, Dan Jarvie, John Randolph, Rick Lewis, Neal Nagel	10 Sessions	19 - 30 Oct	Virtual

The evaluation of shale reservoirs presents a challenge: whereas some of the approaches applied are the same as those used for conventional reservoirs, some new tools and many new methodologies have been developed for this rapidly evolving subject. More than ever, the evaluation requires an integrated, multidisciplinary effort by geoscientists, petrophysicists, and engineers. This course presents current views on the evaluation methodsrequired to assess new plays, identify sweet spots, and select optimal landing zones.

Class Code	Title	Competency Level	Delivery Mode	Instructor/s	Duration	Dates	Location
D437a	Geomechanics for Unconventional and Tight Reservoirs	Skilled	Distance Learning	Neal Nagel, Marisela Sanchez-Nagel	6 Sessions	28 Oct - 04 Nov	Virtual

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Class Code	Title	Competency Level	Delivery Mode	Instructor/s	Duration (sessions/ days)	Dates	Location

The application of geomechanical knowledge has become critical to the successful drilling and completion of unconventional plays. This course presents the basics of oil-field geomechanics (including stress/strain, pore pressure, rock behavior and wellbore applications) and then focuses on the geomechanical characterization and modeling of unconventional reservoirs with the goal of optimizing multistage hydraulic fracturing operations in horizontal wells.

| N313a | Evaluating Shale and Tight Oil and Gas Reservoirs | Basic | Classroom | Creties Jenkins | 4 Days | 09 - 12 Nov | Midland, USA |

This class provides an introduction to the exploration, appraisal, and development of oil and gas resource plays. It identifies the data that need to be collected, how to analyze and interpret them, and how to integrate and apply this knowledge to the decision-making process. Case studies from a large number of active plays are presented. This knowledge will enable participants to critically assess opportunities, compare them to successful analogs, and invest in those projects whose characteristics are consistent with commercial success. **This course is run in partnership with Rose and Associates.**

| D471a | The Petroleum System in Unconventional Exploration & Production: Geology, Geochemistry and Basin Modeling | Basic | Distance Learning | Andy Pepper | 8 Sessions | 7 - 10 Dec | Virtual |

The course teaches how to use regional geology, geochemistry and petroleum systems modeling in evaluating unconventional/resource play reservoirs. The processes discussed range from deposition of the organic-rich rock; generation, expulsion, migration and accumulation processes leading to saturation of the reservoir; to the prediction of reservoir and produced fluid properties and values. This class will arm geologists and engineers with advanced capabilities to: identify, map and evaluate new plays; identify storage and production sweet spots in plays; identify vertical/by-passed storage and production sweet spots to optimize landing zones in new and existing plays.

PRODUCTION AND RESERVOIR ENGINEERING

| D484a | Reservoir Management for Unconventional Oil and Gas Resources | Skilled | Distance Learning | Yucel Akkutlu | 8 Sessions | 3 - 13 Aug | Virtual |

This course is designed to familiarize practicing engineers with unconventional oil and gas resources as reservoirs, including topics related to the evaluation and development aspects of unconventional oil and gas fields. The emphasis is on tight gas/oil formations and organic-rich source rocks, in particular shale. It provides in-depth discussions on fluid storage, phase change, and transport for reservoir evaluation and development. Hydrocarbon in-place calculations are presented, including new pore-scale considerations, and a new method is introduced to assess the liquid potential of the reservoir. Laboratory techniques are discussed for the characterization of unconventional formations. The course will help engineers to understand transient flow regimes associated with horizontal wells completed with hydraulic fractures and to analyze the production data using various analytical and simulation techniques. Field case studies will be introduced to discuss tight gas reservoir- and shale oil/gas reservoir development, including economic and environmental evaluation of horizontal wells with multi-stage fracturing.

| D959a | Hydraulic Fracturing for Conventional, Tight and Shale Reservoirs | Skilled | Distance Learning | Mike Smith | 8 Sessions | 11 - 20 Nov | Virtual |

This course addresses the multi-disciplinary technical and economic variables involved in the design and implementation of hydraulic fracturing. This flows from a reservoir evaluation of why/how to frac, to geoscience to quantify many design variables, to frac design and post-frac economic evaluation. Fracture mapping and implementation of multi-stage hydraulic fractures in horizontal wells are included.

| N508a | Optimizing Development of Unconventional Reservoirs: Well Spacing, Stacking and Sequencing of Wells | Basic | Classroom | Robert Hull, Paul Leonard | 3 Days | 01 - 03 Dec | Houston, USA |

This multidiscipline course provides engineers and geoscientists with a set of principles and processes that will enable them to plan, evaluate and subsequently optimize the spacing, stacking and sequencing for wells in multi-well pads in unconventional and tight resource plays. This optimization of wells in participant's areas of responsibility will enhance value and reduce costs even when criteria set by management and external constraints by land-owners or regulatory bodies are included. The course will address field development optimization, landing horizontal wells and their sequencing at a high level. Discussions on reservoir engineering, geomechanics, completions and the technologies to evaluate the stimulations are key parts of this course. Besides the basics of field development related to well spacing, the training focuses on specific technologies to better understand the stimulation and its effectiveness. Integrated data sets are used to highlight key understandings of what controls EUR for unconventional wells. A data set working through well landing zone selection will also be utilized.

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