

## W3: Practical Application of Sequence Stratigraphic Principles to Petroleum Exploration and Development

<b>Coordinator(s)</b>	Simon Sturrock
<b>Date(s)</b>	Sun, Sep 01 & Mon, Sep 02
<b>Time</b>	08:45 - 16:45
<b>Location</b>	Crown Perth
<b>Summary</b>	<p>The aim of the course is to provide an in-depth understanding of sequence stratigraphic principles with the purpose of applying this methodology to real geologic datasets.</p> <p>The course is exercised based, interspersed with short guide presentations on the theory and practical application of sequence stratigraphy.</p> <p>The course is designed to give attendees the confidence to make predictive sequence stratigraphic interpretations through the integration of seismic and well based data from regional to field scale.</p> <p>Attendees will be able to rapidly understand how basins evolve through time and when and where the elements of a petroleum system are likely to occur.</p>

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### Schedule\*

#### **Day 1 - Sequence Stratigraphic Concepts & Principles**

##### **Session 1**

###### **Presentation 1: Introduction to Sequence Stratigraphy**

- Exercise 1

##### **Session 2**

###### **Presentation 2: Sequence stratigraphic concepts & principles**

- Accommodation Space & Relative Sea-level
- Parasequences & Stacking Patterns
- Sequence Stratigraphic Models

##### **Session 3**

###### **Presentation 3: Seismic Stratigraphy**

- Exercise 2: Picking stratigraphic terminations
- Exercise 3a: Seismic events and facies

##### **Session 4**

###### **Presentation 4: Log & Core Sequence Stratigraphy**

- Exercise 3a: Log & Core Sequence Stratigraphy
- Exercise 4: Wheeler diagram

#### **Day 2 - Practical Application of Sequence Stratigraphy**

##### **Session 1**

###### **Presentation 5: Sequence Stratigraphic Models**

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#### Terms and conditions

\* Schedule subject to change

Workshops will proceed only if minimum numbers are reached, should a workshop be cancelled that you have paid and registered for, you will be notified and refunded the full amount. Should you wish to cancel a workshop, standard registration cancellation policy applies. Please refer to the AEGC conference website for registration cancellation policy and for further details on registration information <https://2019.aegc.com.au/>

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- Exercise 5: Picking sequence stratigraphic surfaces on logs and seismic

#### **Session 2**

##### **Presentation 6: Depositional systems 1**

- Exercise 6: Sequence stratigraphy in Wells and Cores

#### **Session 3**

##### **Presentation 7: Depositional systems 2**

- Exercise 7: Sequence stratigraphic interpretation integrating seismic & wells

#### **Session 4**

##### **Presentation 8: Summary of Practical Application of Sequence Stratigraphy**

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