



# FESAus Monthly Technical Meeting

## *“Polar Bears and Secondary Porosity: Some Ways to be Precisely Wrong in Petrophysics”*

Martin Kennedy

### **Abstract:**

Petrophysicists are lucky in being able to work with large quantities of numerical data. Most of this can be relied on as being accurate, precise and free of any subjective or interpretive over-print. That is not necessarily true of the products that are derived from it! It is easy to forget that most of the equations we use are empirical and/or based on very simplistic models of the tool physics. Consequently, what is assumed to be an accurate representation of nature is actually built on shaky foundations.

In this light-hearted talk some of the offenders will be named and shamed. The title refers to one of the best -or worst- examples: the so-called secondary porosity index for quantifying secondary porosity –vugs and fractures- in carbonates. But there are many other atrocities some of which will also be discussed. Some of these are un-scientific but essentially harmless and some are potentially disastrous. All give the impression of a better understanding of the rocks than is actually the case.

### **About the Presenter:**

Martin Kennedy is an independent consultant specializing in petrophysics who has been based in Perth since 2008. He is a regular contributor to FESAUS events and this will be his second appearance during the festive season. He has published a number of papers and last year published a text-book on petrophysics, prosaically titled “Practical Petrophysics” which addresses many of the issues in the talk. He has also co-authored with Malcolm Rider the most recent edition of “Geological Interpretation of Well Logs”. Prior to becoming a consultant Martin was Chief Petrophysicist at Woodside and before that held the same role for Enterprise Oil in London. He has also worked for British Gas, The UK Government, AEA technology and started his career as a logging engineer with Schlumberger.



**DATE:** Tuesday 13<sup>th</sup> December 2016, 12:00 – 1:30 PM **VENUE:** Hotel IBIS- 334 Murray Street, Perth

**COST:** Members \$30.00; Non Members \$40.00; Students/Retirees \$10.00

Online registration at [www.fesaus.org](http://www.fesaus.org)

Note: limited seats for unregistered attendees may be available: \$50.00 cash door charge

