

Perth Branch

The 4 Gs

A lighter look at the 4 sciences

Wednesday 10th October 2012

Ibis Hotel (Salt Room), Murray Street, Perth

Registration / Drinks 5:30pm: Presentations Start at 6:00pm

Drinks, Canapés & Networking 7:30pm - 9pm

Chaired by: **Andy Lane, Woodside Energy Ltd.**

Why Geology is Awesome - Andrew Shuckstes, WorleyParsons

Geology is not a subject that gets most people excited – there are not many TV shows or movies about geologists. Geology is actually a self-indulgent increase in the knowledge of sometimes trivial things. The Geology of the North West Shelf crosses about 10° of latitude, and contains almost every depositional environment that I can think of, so it's not really a subject for today. I can tell you that you can't engineer things on or in the ground without some geology (i.e. me). I can tell you that geologists make the engineering process easier and better, and we see important things in the samples, the bathymetry, the geophysics and the imagery that other people can't see – you need us.

Geophysical Investigation Surveys – an overview of their application - Kobi Braendli, EGS Survey Pte. Ltd.

Kobi's presentation will demonstrate the need for geophysical site surveys and the various survey objectives to be met during the life cycle of an offshore field including the consequences if some of the surveys are omitted or the results not taken seriously. The presentation and data examples will not be restricted to the Australian NW Shelf environment as the survey methods, objectives and expression of typical hazards on geophysical records remain the same in any marine environment.

Seabed Survey Data Model - An Industry Data Model for Managing Seabed Survey Data - Gareth Wright, Woodside Energy Ltd.

Geographic Information Systems (GIS) are an important technology within the Geomatics discipline for the storage, management, analysis and mapping of spatial data, however, data standardisation is the key to maximising the capability of GIS within any organisation. In this presentation, the OGP Seabed Survey Data Model standard will be discussed in terms of how it helps oil and gas companies resolve the problem of managing the volumes of seabed survey data they acquire in support of their operations.

Offshore Geotechnics – From Seabed Characterisation to Foundation Design – Sarah Elkhatib, Arup

Offshore geotechnical engineering includes a broad spectrum of requirements that are dependent on the proposed structures. Often it starts with characterisation of the seabed via in-situ testing, sampling and laboratory testing and progresses into the design of foundations, pipelines or anchoring systems for the developments being considered. An overview of what geotechnical engineers do will be presented with real life examples from various projects.

Linking the 4 Gs – Stefan Revets, Advanced Geomechanics

Geohazards investigations on the Northwest Shelf are prime examples for the need, and necessity, to combine the 4 Gs. A swoop from planets all the way to palaeontology exhibits the tools, methods and knowledge, which will then be integrated into an understanding of the processes. The reciprocal illumination of the 4 Gs is the best way to uncover the drivers which shape the Geohazards on the Northwest Shelf.

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