

PETROLEUM GEOLOGISCHE KRING



KONINKLIJK NEDERLANDS GEOLOGISCH MIJNBOUWKUNDIG GENOOTSCHAP **PGK**

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Venue:	PGK's monthly meetings are held at the Kivi building, Prinsessegracht 23, Den Haag. Drinks are served from 17:00 hrs; the lecture starts at 18:00 hrs.	www.pgknet.nl	
Membership:	Apply for membership by contacting the secretariat. The annual fee is 15.- Euros.		
Accounts:	Fortis Bank: 88 65 82 733 (PGK, Den Haag)	Postbank: 4074482 (PGK, Den Haag)	

FEBRUARY 2004 NEWSLETTER

11 FEBRUARY: ANNUAL MEETING

The Annual Meeting will be held at the Kivi building on **Wednesday, February 11, 2004** with the following time schedule:

17:00 – 18:00 hrs: Social hour (free drinks)

18:00 – 18:45 hrs: Annual Meeting

- Opening
- Secretary's report (including field trips)
- Treasurer's report
- Financial Audit Commission's report
- Reflections by T.J.A. Reijers
- Installation of new board. The board proposes M.E. Donselaar (TU Delft) for Vice-President.
- Any other business
- Closing.

18:45 – 19:45 hrs: Lecture by Mat de Jong (ENRES International)

19:45 hrs: Announcement of the 3-days excursion

ca. 20:00 hrs: Annual Dinner, see below for registration details).

How to register for the 'Annual Dinner'?

You can register for the Annual Diner by sending an email to the secretary (secretary@pgknet.nl) or by phoning (071-5813501, working hours). Price: €25,-- Pakistan/Indian Restaurant Kashmir at Javastraat 67, The Hague, from 20:00 hrs onwards. **Please pay at the dinner itself.**

NEW MEMBERS: Applications for membership has been received from Geerteke Wansink (Wintershall Noordzee) and Hugo Poelen (Shell/Independent). If no objections are received prior to or during the next meeting, they are automatically admitted as members of our society.

MARCH MEETING: On 17 March 2004 Hanneke Verweij (NITG) will give a lecture with the title "**Fluid Flow Modelling the Broad Fourteens Basin**".

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LECTURE

“Challenges in the Petroleum Geology of the Persian Gulf”

Mat de Jong (ENRES International)

In cooperation with Lynx Information Systems Ltd.

ABSTRACT - The last decade has seen increased petroleum activity in many Middle East countries. Through a variety of initiatives in the economic as well as technological sphere, countries like Saudi Arabia, United Arab Emirates, Kuwait and Iran are trying to maintain their high levels of production and reserves. Investment opportunities are now available for foreign oil companies in one of the most prolific petroleum provinces of the world. High reward and low risk are key words. One of the areas of increased activity is the Persian Gulf, offshore Iran, which is the focus of the presentation.

It goes beyond saying that a solid understanding of the petroleum geology forms the foundation of a good E&P investment programme. A wealth of publications is available on the petroleum geology and sedimentology of the Middle East. The availability of hard data such as wireline logs – and seismic – is, however, a major problem. The situation for the offshore Iran has improved recently with a few commercial data packages becoming available on the market.

Sediment facies, facies belts and stratigraphic models of carbonates have been described in quite a detail in many publications, also for the Arabian Platform. They are largely based on outcrop and core studies. The translation to wireline logs is, however, not straightforward. Similarly, the application of carbonate sequence stratigraphy runs aground in practice due to problems of identifying the different boundaries and systems tracts in wireline logs. Another major problem is the use of a variety of, often confusing, lithostratigraphic nomenclatures and a general lack of supporting biostratigraphic data. The presented zonations and regional correlations in the publications cannot easily be verified and lateral facies variations are difficult to understand from a chronostratigraphic perspective.

With wireline log data and some information on formation tops available for only a small number of wells, we had to find new and innovative ways to meet these challenges in our regional study.

Applying and integrating conventional and innovative analysis and interpretation techniques, we were able to identify important stratigraphic surfaces in the wireline logs from the Persian Gulf. These bounding surfaces, showing a distinct hierarchy, are considered to be the result of regional (latitude-related) climatic changes. These stratigraphic bounding surfaces are near-synchronous and enable to make time-related well-to-well correlations on regional and local scale, across facies belt boundaries. The correlations show the large-scale cyclostratigraphic architecture of the carbonate platform and its climate-controlled depositional facies. It also enables to define intra-shelf basins, and to recognize onlap patterns and hiatuses. Cyclic depositional patterns in important reservoirs such as the Sarvak and Arab are easily recognisable as well as the lateral lithofacies variations within these cycles. In the presentation, the methodology and results will be illustrated by many examples of well analyses and correlations.

Please post this page on the board of your office building. A guest with a member is welcome!

Thanks to our sponsors:

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