

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 18:00hrs.		www.pgknet.nl
Membership:	Apply for membership by contacting the secretariat. The annual fee is €15.-		
Accounts:	Fortis Bank: 88.65.82.733 (PGK, Den Haag)		

MARCH 2009 NEWSLETTER

18 MARCH:

The next PGK meeting will be on **Wednesday, March 18, 2009**. The programme will be as follows:

17:00-18:00 hrs: Social hour

18:00-19:00 hrs: Lecture by Stefan Back, Aachen University

“3D restoration of original sedimentary geometries in deformed basin fill – deltaic clinofolds from onshore NW Borneo and onshore SW Pakistan”.

APRIL MEETING

The April meeting will be held on **Wednesday April 15, 2009** with a lecture on ‘**An investor View on the Petroleum Business**’ by Gustave van Meerbeke, ABN Amro.

ISOTOPE SYMPOSIUM PALEOBIOLOGISCHE KRING

The Paleobiological Circle would like to welcome PGK members to their symposium on “The stable isotope toolbox for fossil and sub-fossil organisms”. It takes place on Friday March 13 in the Natural History Museum ‘De Groene Poort’ in Boxtel.

NEW MEMBERS

Applications for membership have been received from Rene Giesen and Bart Zwemmer (T&A Survey), Rosanele Romero (Shell), Soebhaas Pale, Jon Limberger and Iris Verhagen (student FALW VU), Marcela Haldan (Panterra Geoconsultants). If no objections are received prior to or during the next meeting, he/she will be automatically admitted as member of our society.

PGK EXCURSION CONSTRUCTION SITE HEEREMA MARCH 27

Next month, at Friday the 27th of March, the PGK organizes an afternoon excursion to one of the construction facilities of the Heerema Group in Zwijndrecht. The Heerema Group builds offshore facilities and infrastructure (<http://www.heerema.com/>).

We will be guided around one of their latest construction projects (the Valhall project) and the complete tour will take about 2 hours (including introduction).

A bus is arranged and we will have several pick up locations depending on the wishes of the participants (probably; Leiden and Rijswijk). No activities are arranged after the excursion so everyone can be home for dinner. (drinks and snacks will be available in the bus)

Location: Heerema Zwijndrecht B.V.
Noordweg 8
3336 LH Zwijndrecht

Time: 14.00-16.00
Pickup time between 12.00 and 13.30

Costs €10,-

Only 18 persons can join so be quick and subscribe by sending an email to:
douwe.vanleverink@tno.nl

Don't forget to mention at which location you will be before the excursion so we can think of an appropriate pick up location.

Hope to see you at the 27th!

PGK EXCURSION 18-26 JULY, CANTABRIAN MOUNTAINS

To celebrate 30 years of unchanged PGK success

The PGK, founded in June 1978, celebrated recently its 30th-anniversary; a period of mainly highpoints such as:

- some 300 successful monthly presentations with social hour binding its members together
- some 30 successful annual "more days" excursions,
- regular additional annual one day-excursions,
- five significant conferences of which three were international,
- monthly distribution of a much appreciated "Nieuwsbrief"
- and occasional miscellaneous activities such as a producing a "news brief on oil geology" for secondary schools in The Hague, and establishing a permanent landmark at De Mient memorizing the first West-Netherlands Oil find.

To celebrate this remarkable performance, PGK's co-founder Tom Reijers organises, at PGK's request, a geological excursion to the Cantabrian Mountains (8 days).

Detailed information and prices can be found at the website:

www.mpreizen.nl/pgk

To subscribe for this excursion please scroll down the website page.

(PGK will also sponsor some of the supplementary costs, exact details will follow)

We hope that many of you will subscribe!



PETROLEUM GEOLOGISCHE KRING

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Monthly meeting: Wednesday 18 March 2009
Address: KiVi, The Hague
Social hour: Between 17:00 and 18:00 hrs
Lecture: 18:00-19:00
Title: “3D restoration of original sedimentary geometries in deformed basin fill – deltaic clinoforms from onshore NW Borneo and onshore SW Pakistan”

By Stefan Back

A large progradational clastic system centred on Brunei Darussalam has been present on the NW Borneo margin since the early middle Miocene. This system has many sedimentary and structural similarities with major deltaic provinces such as the Niger and Nile. It differs from these systems by being affected in the hinterland by contemporaneous compressional tectonics. Uplift partially forced strong progradation of the clastic system, but also folded older deltaic units. Erosion and the exhumation of folded strata in the area of the Jerudong Anticline resulted in the exposure of large-scale prograding clinoforms and syn-sedimentary deltaic faults of middle Miocene age along a natural cross-section of several tens of kilometres in extent.

Westward of the key outcrop sites in the Jerudong Anticline, middle Miocene deltaic units are overlain by late Miocene, Pliocene and Quaternary clastics up to 3 kilometres thick. Both, the middle Miocene target units of this study as well as the late Miocene to recent overburden are recorded in the subsurface of the Belait Syncline on regional 2D seismic lines (total line length around 1400 km) and at 7 well locations. In this study, available geophysical subsurface information is integrated with existing structural, sedimentological and geomorphological field data of the “classic” Jerudong Anticline exposures into a static 3D surface-subsurface model; this model provides quantitative constraints on the structural and stratigraphic architecture of the Miocene Belait delta and the overlying units in three dimensions, supporting basin-scale as well as reservoir-scale analysis of the subsurface rock volume. We use the static surface-subsurface model primarily as input for a tectonic retro-deformation of the study area, in which the 3D paleo-relief of the middle Miocene Belait delta is restored by unfolding and fault balancing, followed by stratal decompaction and isostatic correction. This workflow provides a detailed view into the original 3D architecture of the middle Miocene delta clinoforms at the time of deposition, indicating a close relationship between delta-lobe activity, clinoform morphology, and the generation of slumps and turbidites.

The validity and general applicability of the tectonic and stratigraphic restoration will be tested in a spectacular field setting in the onshore Makran Ranges, SW Pakistan, that provides seismic-scale outcrop-analogue data for large deltas.

Please post this page on your company’s notice board. Members may be accompanied by guests!

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