

# PETROLEUM GEOLOGISCHE KRING

KONINKLIJK NEDERLANDS GEOLOGISCH MIJNBOUWKUNDIG GENOOTSCHAP



PGK

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<b>Venue:</b> 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.-.	<b><a href="http://www.pgknet.nl">www.pgknet.nl</a></b>
<b>Membership:</b>	Apply for membership by contacting the secretariat. The annual fee is Euro 15,-
<b>Accounts:</b>	Fortis Bank: 88 65 82 733 (PGK, Den Haag) Postbank: 4074482 (PGK, Den Haag)

## SEPTEMBER 2003 NEWSLETTER

### 17 SEPTEMBER: MONTHLY MEETING

This month's PGK meeting will be on **Wednesday, September 17, 2003**. The lecture will be given by **Roland Spuy (NAM)**, with the title:

**"It's far from over – Exploration prospect hunting in an over-mature area"**

*Please see other side of this newsletter for the lecture abstract.*

### OTHER ACTIVITIES

#### **OCTOBER MEETING**

The next PGK meeting will be on **Wednesday, October 15, 2003**. The lecture title to be announced soon.

#### **ONE DAY EXCURSION**

The excursion is on **Saturday, September 13, 2003**, and is organised in co-operation with the Sedimentological Circle of the KNGMG to the southwestern part of the Dutch Wadden island of Texel. The maximum number of participants is 60. At this moment, there are still spots available.

***The excursion starts at 10:30hrs at the parking lot near the "Horsmeertjes".***

Participants should reach this meeting point with their own transport. The boat departs at 9:35 from Den Helder and arrives at Texel on 9:55. A walk of approximately 3 km takes you to the meeting point. If necessary, we can arrange transportation from the harbour to the parking place).

***Excursion leader:*** Albert Oost (KNGMG).

***Preparation:*** Register soon and please arrive on time. Rain gear and warm clothes are recommended, heavy boots are not necessary, lunch will be provided.

***Costs:*** A small contribution may be required. Tickets for the boat must be purchased individually.

***The excursion will last till 15:00..*** and will end at Den Hoorn. Return boats depart every half hour from the harbour.

***Registration:*** Please register by sending an E-mail to Harmen Mijnlief (Excursion Secretary): [h.mijnlief@nitg.tno.nl](mailto:h.mijnlief@nitg.tno.nl)

### NEW MEMBERS

Applications for membership have been received from Okeke Chison Chijioke (Geotech Resources) and Huib van den Brink (Gaz de France). If no objections are received prior to or during the next meeting, they are automatically admitted as members of our society.



**Monthly meeting:** Wednesday 17 September 2003  
**Address:** KIVI building, Prinsessegracht 23, Den Haag  
**Social hour:** (free drinks) between 17:00 and 18:00 hrs  
**Lecture:** at 18:00hrs

## **It's far from over – Exploration prospect hunting in an over-mature area**

**Roland Spuy, Shell Global Exploration p/a NAM**

The presentation centres on the exploration prospect hunting in the southern Drenthe area, a very mature exploration acreage. A large number of gas and oil fields were discovered in this area as early as 1940 and most are approaching the end of life phase. As the exploration portfolio is minimal, an abandonment of the area is near. However, a dedicated, integrated evaluation effort resulted in the identification of a large number of interesting exploration prospects, giving a potentially considerable extension to the life of the area. The lesson to learn: Never leave a mature area without doing a Prospect Sweep.

The area is covered by a patchwork of 3D seismic surveys of different vintages, which were reprocessed in-house. The first phase of the project included regional seismic interpretation of eight prospective horizons (3000 km<sup>2</sup>), well analysis (over 1000 wells) and initial basin modelling. Prospect and play concept identification, including new play hunting, as well as detailed seismic mapping and depth conversion was completed during phase two, converging in an extensive GIS driven documentation. Phase three included detailed state of the art 3D basin modelling using Shell proprietary software, risk assessment of identified prospects and fit-for-purpose reporting.

The process used was based on creativity, innovativeness and integration, both of staff, disciplines and data. No high-tech tricks were involved, just dedicated, focused, well-planned technical work by a high quality multi-disciplinary team. A staggering eleven prospects with a total risked expectation of 8.4 BCM were identified (note that a discovery of 0.5 BCM in this area is already economic). The jewel is a large Rotliegend prospect, situated in an area that was previously thought not to contain any reservoir, followed closely by a large complicated Triassic Bunter prospect. A sealing/leaking fault analysis revealed the presence of many sealing faults at Carboniferous level, opening opportunities for hanging wall traps. Basin modelling and gas migration analysis resulted in an innovative model, which possibly explains differences in gas composition and presence and absence of gas in previously drilled structures.

**Please post this page on the board of your office building. New members and guests are welcome!**

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