

PETROLEUM GEOLOGISCHE KRING

KONINKLIJK NEDERLANDS GEOLOGISCH EN MIJNBOUWKUNDIG GENOOTSCHAP



Treasurer:	Drs. Maaïke Koopmans	Secretary	Ir. P.C. Montijn
c/o	Wintershall Noordzee BV		NITG - TNO
	PO Box 82301		P.O. Box 6012
	2508 EH Den Haag		2600 JA Delft
	phone: 070 - 358 31 08		phone: 015 - 269 7189
Bank account:	88 65 82 733 (VSB, Den Haag)		home: 020 - 6226662
Giro account:	40 74 482		fax: 015 - 256 4800

MARCH 1997 NEWSLETTER

FORTHCOMING PGK EVENTS

- | | | |
|--------------------|------------------------------|---|
| March 19 | Mark Geluk
NITG - TNO | Paleotectonics and Palaeogeography of the Zechstein in The Netherlands. |
| March 21-29 | PGK/PDO | Filed Seminar: The Petroleum Geology of Oman. |
| April 16 | Tom Reijers
SPDC Nigeria | Aim, Scope and Benefit of Work of the Stratigraphic Commission of Nigeria. |
| May 21 | Simon Knight
TU-Delft, TG | Quantifying the Stratigraphic and Structural Controls of Reservoir Connectivity using 3-D Outcrop Models. |

PGK MARCH MEETING

The PGK **March** meeting will be held on **WEDNESDAY, March 19**, at 17:45 pm and will be preceded by aperitifs from 17:00 pm onwards. The lecture will be held at the KIVI building, Prinsessegracht 23, The Hague.

Drs. M.C. Geluk of NITG-TNO will speak about "**Palaeotectonics and Palaeogeography of the Zechstein in the Netherlands**". The speaker has provided the following abstract:

The first oil discovery was made in the Netherlands in the Zechstein Group in 1924. Since the second World War, a number of gas fields have been discovered, with a total volume of 140.10^9 m³ GIIP. While historically of economic importance, new studies have shed light onto the tectonic development of the Zechstein Group which has a large ramification on its hydrocarbon potential.

The lithologic development of the Zechstein Group in the Netherlands, ranges from relatively thin (50 - 100 m) clastics in the southern onshore and offshore areas to a thick (1000 - 1500 m) succession of evaporites in the northern Netherlands offshore area. The palaeogeography of the Zechstein in the Netherlands was strongly controlled by the WNW-ESE Caledonian trend of the London-Brabant Massif and the Texel-IJsselmeer High. The latter high acted as a barrier between the main basin to the north and a marginal basin to the south of it. Around the high itself an extensive carbonate/anhydrite platform and locally mudflats formed.

Recent, multidisciplinary studies carried out in different parts of the Netherlands revealed the occurrence of two periods of extensional faulting during deposition of the Zechstein Group: during deposition of the Z1 Formation and, prior to the deposition of the Zechstein Upper Claystone Formation. This faulting is attributed to a phase of late Variscan collapse tectonics. The understanding of these intra-Zechstein tectonics is important for both the hydrocarbon exploration and production of the Upper Rotliegend.

In this way, a number of fault and dip closed structures of Upper Rotliegend sandstones that formed very early in their burial history. Several of these structures have been found gas bearing in the province of Noord-Holland. The faults may provide a pathway for fluids to enter the sandstones, with impact on the diagenesis. This may provide an explanation to strong porosity variations in the Upper Rotliegend sandstones. The location of these structures is restricted to the Z1 platform areas, south of the main evaporite basin.

OTHER EVENTS OF INTEREST TO PGK MEMBERS

- Mar. 10** SPE Meeting "Solutions to Wellbore Stability Problems With Water-Based Drilling Fluid Technology" Bel Air Hotel, Den Haag, contact Barbara Grunert, Schlumberger (070-310 5400) for details.
- Mar. 19-20** NPF Conference: The third conference on Data Acquisition and Formation Evaluation, Holmenkollen Park Hotel Rica, Oslo, Norway; Apply before 10 March. NPF, PO Box 1897-Vika, N-0124, Oslo, Norway (+47 22 12 90 04)

MEMBERS NEWS

If you look at your mail label you will see 97 at the bottom. This means that the dues for 1997 are now liable. Some members have already paid and are in credit while others will see a longer list of years on this line. Please remit f25 for each year due, into one of the accounts mentioned above ASAP. If you have already paid for the year(s) the mail label shows, please disregard this message. Records have been last updated on **DECEMBER 1996**.

Members with e-mail and **Eudora** (preferably running on a Macintosh) may also receive the newsletter digitally from the following address campbell@nitg.tno.nl. EudoraLight can be obtained free from the following site: <http://lorien.qualcomm.com/quest/commercial.html>. The PGK has a new home page on the Web. The address for those interested is: <http://wwwak.tn.tudelft.nl/~pgk/index.html> Many thanks go to Frederic Verhelst of the Centre for Technical Geoscience, LSA, Fac. of Applied Physics, Delft University of Technology.

THE 1997 COMMITTEE

As from February 19, 1997 the committee consists of:

Chairman	Drs. L.D. Alblas	Amoco Netherlands B.V.
Vice Chairman	Drs. E. Uitentuis	NAM Schiedam
Treasurer	Drs. M. Koopmans	Wintershall BV
Secretary	Ir. P.C.Montijn	NITG - TNO
Excursion Secretary	Drs. G.v.d.Bilt	G.A.P.S. Nederland B.V.

PICK UP YOUR WHISKY GLASSES NOW!

Will all members who ordered PGK whisky tumblers and not yet paid or taken delivery of them please pay f 10- per glass ordered into one of the PGK accounts mentioned at the front of this newsletter. If your glasses were not picked up at the monthly meeting in December please contact the secretary now. All bank and Giro payments should clearly state "whisky glasses".

SPONSORSHIP

The PGK is very grateful to its sponsors who have been helping to finance the cost of renting the KIVI lecture room, tickets and accommodation for overseas lecturers, monthly drinks for members and contributing to the cost of the field seminars. The following companies are warmly thanked for contributing to our activities in 1997:

**AMOCO NETHERLANDS B.V., ARGO GEOLOGICAL CONSULTANTS,
ENERGIE BEHEER NEDERLAND, SHELL NEDERLAND B.V.**

Printing costs of this newsletter are paid by Netherlands Institute of Applied Geosciences - TNO National Geological Survey.

Distribution costs of this newsletter are paid by Hays Informatiebeheer B.V. (formerly trading as ROCKALL Netherlands BV).