

# PETROLEUM GEOLOGISCHE KRING

KONINKLIJK NEDERLANDS GEOLOGISCH EN MIJNBOUWKUNDIG GENOOTSCHAP



PGK

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<b>Web Site:</b>	<a href="http://wwwak.tn.tudelft.nl/~pgk/index.html">http://wwwak.tn.tudelft.nl/~pgk/index.html</a>	<b>Labels:</b> Last update: 1-NOV-1998	
<b>Membership:</b>	Please apply for membership by contacting the secretariate. Membership dues for 1998: Fl 30,- Membership dues for 1997 and previous years: Fl 25,-		
<b>Accounts:</b>	VSB Bank: 88 65 82 733 (PGK, Den Haag)	Postbank: 40 74 482 (PGK, Den Haag)	

## NOVEMBER 1998 NEWSLETTER

### FORTHCOMING PGK EVENTS

**November 18** 'An integrated general approach for trap integrity', D. Nieuwland (RTS)

**December 16** 'The Geology of French Wine', Mr. Lautel.

Please register for this special event before December 9<sup>th</sup> (either with the treasurer or the secretary) so we can ensure that there are sufficient supplies of wine.

### PGK NOVEMBER MEETING

The PGK **NOVEMBER** meeting will be held on **WEDNESDAY, NOVEMBER 18**, 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.

Mr D.A. Nieuwland of Shell Research and Technology Services will speak about: 'An integrated general approach for trap integrity'.

The speaker has provided the following abstract:

*In order to optimise reservoir management, gas utilisation and to minimise environmental damage related to E&P activities, reinjection of gas is an increasing practice. To enable safe operations, a study was undertaken to develop a general method for quantitative determination of the strength of faults and top seals of hydrocarbon accumulations in relation to reservoir pressure increases due to gas injection. When injecting gas into a reservoir, the pressure will rise. In most cases the elevated pressure will not exceed the initial reservoir pressure, however, post-injection pressures in excess of the initial pressure may well occur. The in-situ stress history of a particular structural configuration is also important, pressure decrease followed by an increase on one side of a fault, has a different effect than a simple pressure increase. Cap rocks or fault seals may leak either by diffusion, by capillary leakage or by mechanical break down. Methods to assess the likelihood of the occurrence of each of these processes and to quantify the results, are discussed and are used to design a general approach. For a quantitative analysis it is necessary to have access to core material and a sonic log. Once a sonic log has been used for geomechanical analyses and calibrated against core data, one may do without a core in nearby fields in similar lithologies.*

## **OTHER EVENTS OF INTEREST TO PGK MEMBERS**

**November 17-19** Oil, Gas and PetroTech 98, RAI Amsterdam. For further information about exhibiting or visiting, please contact: Amsterdam RAI, Dorien Sibbel, P.O.Box 77777, 1070 MS Amsterdam Tel. 020 - 5491212, Fax 020-549 1894. See also <http://www.gasandoil.com/petrotech/uk/welcome.html>

**November 19** Delft Petrophysical Society: "25 years London Petrophysical Society", Brian Moss, LPS. Delft University of Technology, Faculty of Applied Earth Sciences, room 204, 12.00 AM. For more information: <http://www.tg.mp.tudelft.nl/~dps/>

**December 1-2** Geological Society - Petroleum Group: North Sea Fields Update, the Business Design Centre, London. Contact: Philippe Probst, Tel: 0171 257 4235, Email: [p.r.probst@openmail.uenc4.sukeplon.simis.com](mailto:p.r.probst@openmail.uenc4.sukeplon.simis.com)

**December 1-3** PESGB PETEX'98 Conference & Exhibition. Register at +44 1714957808 or [pesgb@pesgb.demon.co.uk](mailto:pesgb@pesgb.demon.co.uk). See also: <http://www.pesgb.org.uk/petex.htm>

**January 20-22** Geological Society - Petroleum/Borehole Research Group 'Geological Applications of Wireline Logs (GAWL III)' Burlington House, London. Contact: Neil Parkinson, Tel/Fax: 0181 296 9372, Email: [neil.parkinson@dial.pipex.com](mailto:neil.parkinson@dial.pipex.com)

**February 16-17** Geological society - Petroleum Group: Hydrocarbons in Low Permeability Reservoirs: Exploration Evaluation and Production, Burlington House, London. Contact: Dr Joan Megson, Tel: 0171 823 3636, Fax: 0171 887 2199, Email: [j.megson@amhess.co.uk](mailto:j.megson@amhess.co.uk)

**March 17-18** Geological society - Petroleum Group: The Role of Geological Fieldwork in Hydrocarbon Exploration and Production, Burlington House. Contact: David MacDonald, Tel: 01223 277586, Fax: 01223 276604, Email: [david.macdonald@casp.co.uk](mailto:david.macdonald@casp.co.uk)

**May 31-June 1** Groningen: Catalyst for the North West European Oil and Gas Industry

**April 20-23** EAGE/SPE International Symposium on Petroleum Geostatistics, Toulouse, France. See also <http://www.spe.org/events/eage/>

**June 7-11** 61st EAGE Annual Conference and Technical Exhibition, Helsinki, Finland. Contact See also <http://www.eage.nl/eage5.html>

## **MEMBERS NEWS**

We have received an application for membership from **Mr. P. van Heiningen** (Clyde Petroleum). If no objections are received by the end of the next meeting he will automatically be elected member of the society.

## **PGK WEB PAGE**

The PGK web page has not been maintained for quite some time now as our webmaster Frederic Verhelst is preparing for an assignment with Saga Petroleum in Norway. We thank Frederic heartily for his work in setting up and maintaining our first Web Site. His responsibilities will be taken over shortly by our current treasurer, who will announce the new location of the PGK Web page in the December Newsletter.

*The following companies are warmly thanked for sponsoring the PGK in 1998:*

*Amoco Netherlands B.V. - Argo Geological Consultants - Chevron U.S.A. Inc., The Netherlands Branch - Clyde Petroleum Exploratie B.V. - DSM Energie - Elf Petroland B.V. - Energie Beheer Nederland B.V. - Fina Nederland B.V. - Hays Informatiebeheer B.V. - Nederlandse Aardolie Maatschappij B.V. - N.V. Nederlandse Gasunie - Oranje-Nassau Energie B.V. - PanTerra Geoconsultants B.V. - RWE-DEA Netherlands Oil GMBH - Shell Nederland B.V. - Wintershall Noordzee B.V.*

### AUTUMN EXCURSION

This years Autumn/Winter excursion will take place on Saturday 25 November. Wim de Gaans and Thomas de Groot from the RGD will present Coastal Development in the Western Netherlands. The excursion begins at 13:00 at the RGD building in Haarlem. An introduction to the geology using cores and resin profiles will be given followed by a tour of the local geomorphology. The cost is dfl 15. Members wishing to attend should fill in the form at the ed of the Newsletter.

### RESULTS OF THE LESBRIEF COMPETITION

The lesbrief committee has reported the results of our Lesbrieft Competition. Two joint winners have been chosen with a third runner up.

The results of the competition are as follows:

Joint 1<sup>st</sup> prize **P.J.J. Rosenhart** and **W.D. Mulderij** and 3<sup>rd</sup> prize **C.A. Jonk**.

The winners will be presented with their awards at the November meeting. In total 6 entries were received. Our thanks go to all those who took part.

### SPONSORSHIP

The PGK thanks the following companies for sponsoring our activities.

**ARGO GEOLOGICAL CONSULTANTS, ATLAS WIRELINE SERVICES,  
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INSTITUTE OF APPLIED GEOSCIENCE, TOTAL OIL AND GAS NEDERLAND  
BV, VEBA OIL NEDERLAND BV, WINTERSHALL NOORDZEE BV.**

The distribution costs of this newsletter are paid by ROCKALL Netherlands BV.

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### AUTUMN EXCURSION    REGISTRATION FORM

Name:

Address:

Tel:

Return to Secretary before November 20