

# PETROLEUM GEOLOGISCHE KRING

KONINKLIJK NEDERLANDS GEOLOGISCH EN MIJNBOUWKUNDIG GENOOTSCHAP



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## JUNE 1997 NEWSLETTER

### FORTHCOMING PGK EVENTS

June 18	J.-Michel Champanhet Elf Petroland	The use of Coal Facies in stratigraphic Corellation of the Carboniferous onshore the Netherlands
June 27	PGK 1-Day Excursion	LNG Station Maasvlakte, Stormvloedkering N.Waterweg
Sept. 17	Janos Urai University of Aachen	The Sealing Capacity of Mudstones
Sept. 26 - 28	Leo Alblas PGK	Annual Field Seminar, The Geology of the Main Buntsandstein of the Eiffel Region: Outcrop Analogues for the Southern North Sea
Oct. 15	Hans Dronkert	The Petroleum Potential of Tajikistan

### PGK MAY MEETING

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

J.M. Champanhet of Elf Petroland B.V. will speak about:

#### **“The Use of Coal Facies in Stratigraphic Corellation of the Carboniferous Onshore the Netherlands”**

*The sedimentological and geochemical study of the Kemperkoul-1 and Ruurlo-1 wells (the former RGD) cored continuously over a total length of about 1800 m in the Westphalian A to C made it possible to define the depositional model of the Westphalian and restuate the various types of source rock in the sequential evolution within the Carboniferous onshore the Netherlands.*

*The depositional model is very close to the one described by P.D Guion et al. (1995) in the Westphalian of the Pennine Basin (Great Britain). The environment consists of a deltaic plain with a major fluvial influence (channels, lacustrine deposits and marshes) in which obvious marine incursions occur (“marine bands”), characterized by storm deposits.*

*Two types of source rock have been identified:*

- *coal: with a very high source rock potential. The depositional environments (swamps or forest, humid or dry conditions) have been characterized by maceral analyses*
- *coaly shales: with a fair source rock potential, very often associated with coal, deposited in a subaqueous environment*

*The typical sequential evolution is consistent with progressive transgression of the subaerial deposits by lacustrine or marine facies. A surface, characterized by the development of subaquatic deposits, marks the minimum flooding. A progressive regression, limited at the top by an emersive surface (pedogenesis - siderite - traces of roots) then develops. The source rock facies (coal and coaly shales) are only found in the transgressive sequence between the emersive and flooding*

surfaces. Their thickness varies considerably and depends on the persistence of the depositional environment (absence of fluvial incursions for example). A well log pattern calibration of the different sedimentological facies has been attempted with an emphasis on the source rock recognition. The geochemical characteristics of the coals and the shaly coals have been studied in details in terms of source rock features and catagenetic behaviour in a 0.7 to 1.5 Vro range.

The detailed study of the Kemperkoul-1 and Ruurlo-1 wells, cored continuously in the Westphalian A to C, made it possible to characterize the environments favourable to the deposition of source rocks, to understand the position of these source rocks in a typical sequential evolution and to analyse them with a view to defining their respective generating potential.

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

- June 19** DPS Meeting: Clive Needham (Westen Atlas), "Image Analysis System Icarus", contact P. Crossouard, Schlumberger (070-310 5400) for details.
- September 15** DPS/SPE Mini Symposium, 'Recent Advances in Wireline Testing', Fac. of Applied Earth Sciences, Mijnbouwstraat 120, Delft. Please contact Petra Torremans, 070-310 54 00, torremans@the-hague.geoquest.slb.com

### **MEMBERS NEWS**

We have received an application for membership from **Drs. Irina Overeem** and **Drs. Magdalena Oana Badescu**, both AIO's at TU-Delft Faculty of Technical Geosciences and **Mrs Fiona van 't Hullenaar** and **Mr. Renzo A.J.J. Huijsmans**, both students at RU Utrecht. If no objections are received by the end of the next meeting they will automatically be elected member of the society.

### **PGK ON THE WEB**

Members with e-mail and **Eudora** (preferably running on a Macintosh) may also receive the newsletter digitally from the following address [montijn@nitg.tno.nl](mailto:montijn@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 Frédéric Verhelst and Aart-Jan van Wijngaarden of the Centre for Technical Geoscience, LSA, Fac. of Applied Physics, Delft University of Technology.

### **TIES**

The traditional dark blue and new "Red Stripe" PGK tie will not only smarten you up but makes an excellent business gift for foreign clients and visitors. The ties cost f 25,- each and they can be obtained from the secretary. Both designs are available for sale at every meeting.

### **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:

### **MAIL LABELS**

The memberships dues on the mail labels were last updated on May 12th 1997.

**ARGO GEOLOGICAL CONSULTANTS, DSM ENERGIE B.V., ENERGIE BEHEER NEDERLAND, PANTERRA GEOCONSULTANTS B.V., SCHLUMBERGER PETROLEUM B.V., SHELL NEDERLAND B.V., VEBA OIL B.V., WINTERSHALL NOORDZEE B.V.**

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

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**PGK 1-day excursion to LNG station and Stormvloedkering Nieuwe Waterweg on 27 June 1997**

Every year the PGK organises a one-day excursion in The Netherlands. This year we have arranged for a one-day trip to the LNG Storage Station on the Maasvlakte in combination with a visit to the new Stormvloedkering in the Nieuwe Waterweg.

**Stormvloedkering in the Nieuwe Waterweg**

In the morning we will visit the Stormvloedkering in the Nieuwe Waterweg, near Rotterdam. This impressive and unique construction is the last major water defense structure of the Deltaplan. We will have a guided tour including a film and a visit to the construction site.

After an early lunch, we will drive to the Maassluis-ferry which will take us to Rozenburg from where it's an half hour driving to the LNG-station on the Maasvlakte.

**LNG-station at the Maasvlakte**

The LNG-station is a gas storage facility where natural gas from the GasUnie is liquified. The storage capacity is used as a storage buffer for high gas demand peaks that occur incidentally occurring during extreme cold conditions. This station enables the GasUnie to provide 3 days of gas capacity to the Rijnmond area when needed. We will be guided through the station by the technical supervisor.

**Date**

Friday 27th June 1997

**Transport and costs**

We will travel by privately owned transport. For those who do not have a car, transport will be arranged. We kindly ask car-owners to indicate if they can take fellow passengers. There are no costs involved other than your own transport and lunch.

**Minimum number of participants:** 15 registrations

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**REGISTRATION FORM**

I will attend the PGK excursion on Friday 27th June.

Name: .....  
Address: .....  
Postal code: .....  
City: .....  
Tel: .....  
Fax: .....

- I have a car available and can take ..... persons
- I have no transport, please arrange transport for me

Signature: .....

All participants will receive full details after registration.  
Please note that all participants join this excursion at their own risk; the PGK will accept no liability.

**Please sign and return before 21st June to:**  
**PGK, c/o G. van de Bilt, Veerpolder 5, 2361 KX Warmond**  
tel. 071-3019307, fax. 071-3010802

# PETROLEUM GEOLOGISCHE KRING

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## PGK field seminar to the Main Buntsandstein of the Northern Eifel (Germany) 27-28 September 1997

This year, the PGK will organise a 2-day excursion to the Northern Eifel. Several outcrops will be visited and depositional environments studied. Comparison will be made with examples of the Main Buntsandstein from the Dutch offshore. On our way to the Eifel we will visit the brand new office of NITG-TNO in Heerlen: there will be a guided tour and reception in a typical Limburg tradition.

In the Eifel area the Main Buntsandstein outcrops will be studied. The Main Buntsandstein in the Eifel area consists mainly of braided stream complexes and aeolian dune/interdune sediments, covering the pre-Triassic morphology of a Variscan substratum, which is predominately composed of Lower Devonian sandstones and shales.

A comparison will be made with the Main Buntsandstein development in the P and Q blocks, offshore the Netherlands, where a similar development is present

On Sunday, on our way back home, we will visit the Deutches Museum in the heart of the German coal district Bochum. Besides 1000 square meters of exhibition area this mining museum offers members an impressive visit to a coal mine underneath the museum complex.

### Date:

Saturday 27 September - Sunday 28 September

### Costs:

The field seminar will cost 195,= including transport, lunches, dinner and accommodation. Drinks are excluded. Please note that the standard accommodation is two persons to a room. Single rooms are available on request and at a surcharge of Dfl 40,=

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### REGISTRATION FORM

I wish to attend the PGK Eifel field seminar from September 27-28, 1997 and will pay Dfl 195,=/235,= into one of the following PGK accounts **BEFORE AUGUST 15:**  
account: 88 65 82 733 (VSB Den Haag), Giro: 40 70 482

- I want a double bedroom accommodation at Dfl 195,=  
 I want a single bedroom accommodation at Dfl 235,=

Name: \_\_\_\_\_  
Address: \_\_\_\_\_ Post code: \_\_\_\_\_  
City: \_\_\_\_\_  
Tel: \_\_\_\_\_ Fax: \_\_\_\_\_

Signature: \_\_\_\_\_

All participants will receive full details after registration. Please note that all participants join this excursion at their own risk; the PGK will accept no liability.

Please sign and return **before August 15** to:  
PGK, c/o G. van de Bilt, Veerpolder 5, 2361 KX Warmond  
tel. 071-3019307, fax. 071-3010802