

# PETROLEUM GEOLOGISCHE KRING



## KONINKLIJK NEDERLANDS GEOLOGISCH MIJNBOUWKUNDIG GENOOTSCHAP **PGK**

<b>President:</b>	Gary Ingram	070-4472585	<a href="mailto:martin.wilpshaar@dutch200.com">martin.wilpshaar@dutch200.com</a>
<b>Vice-president:</b>	Martin Wilpshaar	070-3583076	<a href="mailto:herman.dalman@shell.com">herman.dalman@shell.com</a>
<b>Excursions:</b>	Douwe van Leverink	030-2564832	<a href="mailto:douwe.vanleverink@tno.nl">douwe.vanleverink@tno.nl</a>
<b>Secretary:</b>	Wieske Paulissen p/a TU Delft Afdeling Geotechnologie Stevinweg 1 2628 CN Delft Phone: 015-278 2576 E-mail: <a href="mailto:w.e.paulissen@tudelft.nl">w.e.paulissen@tudelft.nl</a>	<b>Treasurer:</b>  Phone: E-mail:	Nabil Chaouch p/a PanTerra Geoconsultants B.V. Weversbaan 1-3 2352 BZ Leiderdorp tel. 071-581 3505 <a href="mailto:n.chaouch@panterra.nl">n.chaouch@panterra.nl</a>
<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 18:00hrs.		<a href="http://www.pgknet.nl">www.pgknet.nl</a>
<b>Membership:</b>	Apply for membership by contacting the secretariat. The annual fee is €15.-		
<b>Accounts:</b>	Fortis Bank: 88.65.82.733 (PGK, Den Haag)		

## APRIL 2008 NEWSLETTER

### 16 APRIL

The next PGK meeting will be on **Wednesday, April 16, 2008**. The programme will be as follows:

17:00-18:00 hrs:

Social hour

18:00-19:00 hrs:

Lecture by Oscar Abbink on

*'New frontiers in mature areas: the hydrocarbon potential of the Pre-Westphalian in the Netherlands on- and offshore'*

*See lecture abstract on other side*

### MAY MEETING

The May meeting will be held on **Wednesday May 21, 2008**.

The lecture will be given by Harry Doust on:

**'Petroleum systems in rift basins – a collective approach in Southeast Asian basins'**

### NEW MEMBERS

Applications for membership have been received from Martijn Frijlink (PGS Geophysical BV), Markus Loegering and Renaud Isaac (PanTerra Geoconsultants B.V.), Paul Reemst and Ingrid Spillekom (Shell). If no objections are received prior to or during the next meeting, he/she will be automatically admitted as member of our society.

# PETROLEUM GEOLOGISCHE KRING

KONINKLIJK NEDERLANDS GEOLOGISCH MIJNBOUWKUNDIG GENOOTSCHAP **PGK**



## PGK EXCURSION TO THE HARZ AREA, GERMANY

Dear members,

We would like to invite you to join the next PGK excursion which will take place at 5-8 June (we will leave Thursday afternoon by comfortable coach from Utrecht Central Station (Jaarbeursplein)). This year we will visit the Harz area in Germany. Two Professors of the Göttingen University, Prof. Hilmar von Eynatten and Prof. Joseph Paul, will guide us along Cretaceous and Triassic outcrops on Friday and Sunday. On Saturday we will visit the Asse Salt Mine in which nuclear waste material is stored. Open vans will drive us down the salt diapir where we can take a look at/ or in the storage chambers.

Expected costs will be 275– 325 Euro per person.

Please subscribe by sending your information to the Secretary accompanied with the following details:

Last name:

Initials:

Usual name:

Address:

Postal code:

Residence:

Country:

Gender:

Date of birth:

Passport number:

Is your passport valid till at least the **8<sup>th</sup> of JUNE 2008?**

Home phone:

Mobile phone:

E-mail:

Family contact (name, address and phone):

**ROOM: sharing YES or NO** (Twinbedded room or Single bedroom if available)

Do you have any **special diet** habits (vegetarian with fish, vegetarian without fish, medical diet etc.)?

Are there any medical or physical restrictions?

**Please reply a.s.a.p. or ultimately 25<sup>th</sup> of APRIL 2008 providing the excursion coordinators a minimum total of participants.**

Please send this form to [w.e.paulissen@tudelft.nl](mailto:w.e.paulissen@tudelft.nl) or to

**Wieske Paulissen**

**p/a TU Delft, Afdeling Geotechnologie**

**Stevinweg 1**

**2628 CN Delft**

We hope that many of you will join us!

Best regards,

Frans Bianchi (Stichting Pangea)

Douwe van Leverink (PGK Excursion coordinator)



# PETROLEUM GEOLOGISCHE KRING

KONINKLIJK NEDERLANDS GEOLOGISCH MIJNBOUWKUNDIG GENOOTSCHAP **PGK**

Monthly meeting: Wednesday 16 April 2008  
Address: KiVi, The Hague  
Social hour: Between 17:00 and 18:00 hrs  
Lecture: 18:00-19:00

*“New frontiers in mature areas: the hydrocarbon potential of the Pre-Westphalian in the Netherlands on- and offshore”*

**By O. Abbink**

## **ABSTRACT**

**Oscar Abbink, Barthold Schroot, Frank van Bergen, Petra David, Rob van Eijs, Kees Geel, Harry Veld, Henk Pagnier, and others (TNO B&O - Geological Survey of The Netherlands)**

The Netherlands on- and offshore is a mature hydrocarbon area. At this moment, the lower limit in the area is defined by gas fields in the Upper Carboniferous. Here, we present the results of a study assessing petroleum potential of pre-Westphalian sediments in the Netherlands on- and offshore. The study involved over 100 wells and over 30 seismic lines, and the results comprise a newly proposed chronostratigraphic framework, a geochemical and biostratigraphical database for the pre-Westphalian data, including the analyses of samples from Dutch, Belgian, German and offshore UK wells, digital geological models, maps and 3D basin models.

The results provide the first nation-wide inventory and overview of geological and geochemical data of the pre-Westphalian sedimentary sequences, covering both the Netherlands onshore territory and the Dutch North Sea Sector. Our results show that there is hydrocarbon potential for pre-Westphalian sediments in the Netherlands on- and offshore. In particular, the widespread occurrence of potential source rocks was established. Timing of generation and preservation of reservoir quality are the most crucial factors that determine the prospectivity in any particular area. It was found that these factors are highly variable throughout the investigated areas.

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

*Thanks to our sponsors:*

*/ Argo Geological Consultants / dGB EarthSciences / DSM Energie /  
/ EBN / ENRES International / Fugro Robertson /  
/ GDF Production Nederland /  
/ Horizon Energy Partners / IHS Energy  
/ TNO Bouw en Ondergrond / Oranje Nassau Energie /  
/ PanTerra Geoconsultants / Petro-Canada Netherlands /  
/ Shell Exploration and Production /  
/ Terra Incognita Geoconsultancy and Geobooks / Total E&P Nederland / TU Delft /  
/ Chevron Exploration and Production - Netherlands / Wintershall Noordzee /*

## VACANCIES AND ANNOUNCEMENTS (FROM OUR SPONSORS)

**One-day workshop on  
“Rifting systems and their significance for hydrocarbon  
exploration in the Netherlands”  
Organised by EBN and TNO Geo-Energy  
5 June 2008, Utrecht**

Date : Thursday June 5 <sup>th</sup> 2008 Time : 9.30 – 18.00 Venue : Auditorium TNO-B&O, Princetonlaan 6, Utrecht (route map on <a href="http://www.tno.nl">www.tno.nl</a> )  Deadline for pre-registration: May 16 <sup>st</sup> 2008	Pre-registration costs : Euro 50 On-site registration: Euro 100 Included : Proceedings, Lunch and Social drinks Registration : TNO, Business Unit Geo-Energy by tel : 030 256 4600 by fax : 030 256 4605 (or e-mail : <a href="mailto:Organisatie-BenO-SecretariaatGEenGI@tno.nl">mailto: Organisatie-BenO-SecretariaatGEenGI@tno.nl</a> )
--	---

### **Background**

With the improving subsurface imaging of geological structures, it becomes increasingly clear that trapping and accumulation of hydrocarbons in the Netherlands is more complex than earlier realized. Understanding the complex subsurface geology of the Netherlands requires understanding of polyphase tectonic events, driven by large scale plate movement and related rifting. In order to correctly interpret structural styles and subsidence history the rifting process needs to be understood, both by the seismic interpreter, the explorationist, the development geologist and also by the basin modeller.

The North Sea is generally seen as an example of a rifted basin. The Netherlands are an integral part of this basin and its subsurface forms the complex transition of the North Sea rift system to the German Rhine Graben system. Unfortunately, our current lack of understanding on the geological controls of the rifting processes and its effect on small scale structuration, results in a sub-optimal placement of exploration wells or reservoir development schemes. This symposium aims to fill a number of gaps in our knowledge. The workshop will touch on the mega-tectonic setting but will also highlight a number of detailed examples. The presentations will in particular illustrate a number of rift induced structural styles in the Netherlands.

### **Workshop format and content**

During this year's workshop organized by EBN and TNO we want to share some insights into the latest views on the geological processes and rifting-related structuration. Understanding the implications of rifting models allows new play concepts to be developed in areas previously considered unattractive. The new insights are not only important during the exploration phase, but can be also very important during development planning. You will hear state of the art opinions on the mega tectonic setting. Operators active in the Netherlands will highlight some of these problems by presenting case studies. Subsequently, some speakers will address the geological context of uncertainties related to basin modeling.

Examples of questions to be answered are:

- What areas are affected most in the Netherlands?
- Which stratigraphical formations are to be studied and mapped
- What is the structural style to be expected

### **Primary target group**

Geologists and geophysicists involved in the exploration and exploitation in the deeper subsurface of the Netherlands