

PETROLEUM GEOLOGISCHE KRING



KONINKLIJK NEDERLANDS GEOLOGISCH MIJNBOUWKUNDIG GENOOTSCHAP **PGK**

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Venue:	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.	www.pgknet.nl	
Membership:	Apply for membership by contacting the secretariat. The annual fee is 15.- Euros.		
Accounts:	Fortis Bank: 88 65 82 733 (PGK, Den Haag)	Postbank: 4074482 (PGK, Den Haag)	

MARCH 2004 NEWSLETTER

17 MARCH: MONTHLY MEETING

This month's PGK meeting will be on **Wednesday, March 17, 2004**. The lecture will be given by Hanneke Verweij (Netherlands Institute of Applied Geoscience TNO) with the title:

“Basin modelling and integrated analysis of fluid flow and pressure systems in the Netherlands”

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

APRIL MEETING: On 21 April 2004 Gerhard Diephuis (GEA) will give a lecture with the title **“Pitfalls in seismic attribute analysis”**.

EXCURSIONS:

The PGK Spring-excursion is planned for 20-22 May 2004. The theme of the excursion is: “The Tertiary development of the Lower Rhine Basin”, with a preliminary program as follows:

The excursion will kick off at the K/T boundary where we will see examples of the lowermost Tertiary Chalk lithologies. Subsequently, the Miocene, shallow marine Silversands will be examined. The second day will start with a visit to the “Tagebau Hambach”. This opencast brown coal mine is some 360m deep. At its lowest point we will see the brown coal seam that is presently worked. On the way up and down the quarry, fluvial deposits can be seen. A Pliocene gravel pit will be part of the afternoon program. The last day we will enter the opencast mine “Garzweiler” where we can see the same stratigraphic interval as in Hambach but here the fluvial deposits are replaced by shallow marine deposits.

Departure is on May 20th, 9:30 hrs from The Hague Central Station. Arrival at the same location on May 22nd around 17:00 hrs. The costs of the excursion are estimated €220 (all included). ***The number of participants is limited to 20 persons*** due to restrictions set by the brown coal quarry board, ***so first come, first in!*** To apply for the excursion, please send an e-mail to Harmen Mijnlief (h.mijnlief@nitg.tno.nl), or by telephone (030-2564514).

NEW MEMBERS:

Application for memberships have been received from Cathy Hollis (Shell International E&P) and Marit Brommer (TU Delft). If no objections are received prior to or during the next meeting, they are automatically admitted as members of our society.

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Monthly meeting: Wednesday 17 March 2004
Address: KIVI building, Prinsessegracht 23, Den Haag
Social hour: (free drinks) between 17:00 and 18:00 hrs
Lecture: at 18:00hrs

“Basin modelling and integrated analysis of fluid flow and pressure systems in the Netherlands”

Hanneke Verweij (Netherlands Institute of Applied Geoscience TNO)

ABSTRACT - The development of basin modelling started more than 20 years ago with 1D numerical simulation programmes focussed on reconstructing the temperature and maturity history of source rocks. Later 2D and 3D basin modelling tools aimed for a more comprehensive simulation of the many interrelated basinal processes that lead to oil and gas accumulations. Basin modelling tools were traditionally used to study the petroleum system at basin and regional scale. In recent years, the comprehensive basin modelling tools are also used for prediction and process-based understanding of fluid pressures in order to estimate e.g. risks of drilling. TNO-NITG investigates the combination of 2D basin modelling and seismic methods to estimate fluid pressure distributions and related fluid flow conditions in basins in offshore Netherlands. This presentation discusses examples of predicted pressure distributions and related fluid flow conditions.

Over the past few decades seismic surveys, measurements in exploration and production wells and measurements on core samples have resulted in a large amount of data and information on the rock matrix and the subsurface fluids (oil, gas, water). An increasing number of quality-controlled geoscientific data and information on the Netherlands subsurface is becoming available for analysis and geoscientific research. This presentation shows that the analysis of fluid flow systems, including the application of basin modelling, allows the integrated interpretation of such a wide variety of data and information on the Netherlands subsurface. The results of the integrated analysis of fluid flow and related pressure systems in basin is of importance for reconstructing petroleum migration and accumulation as well as for predicting present-day pressures at prospect well locations.

Please post this page on the board of your office building. A guest with a member is welcome!

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5-6 April: 7th Nederlands Aardwetenschappelijk Congres (NAC 7 Planet Earth), please refer to <http://www.nac7.nl/> for more information.