

# PETROLEUM GEOLOGISCHE KRING

KONINKLIJK NEDERLANDS GEOLOGISCH MINBOUWKUNDIG GENOOTSCHAP



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<b>Venue:</b>	PGK's monthly lectures are held at the KIVI building, Prinsessegracht 23, Den Haag. Drinks are served from 5 PM; the lecture starts at 6 PM.	<a href="http://www.pgknet.nl">www.pgknet.nl</a>	
<b>Membership:</b>	Please apply for membership by contacting the secretariat. Annual dues: Fl 30,-		
<b>Accounts:</b>	VSB Bank: 88 65 82 733 (PGK, Haarlem)	Postbank: 4074482 (PGK, Haarlem)	

## SEPTEMBER NEWSLETTER

### CANTABRIA CANCELLED

Unfortunately the Cantabria Excursion was cancelled due to too few registrations. We are investigating the potential of a similar excursion in Spring 2002.

### SEPTEMBER 19<sup>TH</sup>: MONTHLY MEETING

This month's monthly meeting (KIVI building 17:00 hrs) will be held on the 19th. Dr. P. de Bree of Shell SIEP will give the following lecture:

#### **WELLBORE STABILITY: HOW TO DRILL A WELL RIGHT THE FIRST TIME?**

Hydrocarbon field development plans increasingly rely on the drilling and completion of complicated wells to access the "sweet spots". Examples include drilling wells in high-pressure/high-temperature (HPHT) fields, drilling and completing multi-lateral (ML) wells, accessing hydrocarbon targets in tectonically active environments or in near- and sub-salt environments. Optimisation of development plans in such challenging environments calls for a good control on well location and trajectory as well as on well drillability and hole integrity over the full production lifetime of the wells.

The presentation will focus on how geology and rock mechanics are instrumental in meeting the goals of the business, reducing drilling and completion costs and increasing ultimate recovery. By using available skills in those disciplines, large cost savings can be achieved, for example, in reducing the trouble time associated with stuck pipe events during drilling and time lost associated with work-overs during the later production stages.

Specifically, the emphasis will be on wellbore instability as one of the main mechanisms that may lead to stuck pipe and non-productive time. What are the causes of such instabilities, which tools are at our disposal to avoid these? It will be argued that it is important to "bring the Sub-Surface to the Wells". This allows us to build up an understanding of the mechanics of the Earth, including the down-hole rock strength variability and the 3D in-situ stresses (magnitude and orientation) around the wells, both at initial reservoir conditions and as a function of reservoir depletion. Such an understanding enables us to develop fit-for-purpose reservoir management strategies and helps to increase the chance of drilling the well correctly the first time. It is shown that, next to using advanced computer programmes

for setting up appropriate mechanical earth models, obtaining high quality input-data is key to the ultimate success.

### **OTHER PGK EVENTS**

**13 October BIESBOSCH EXCURSION** - There are still four places left for the one day field trip to this famous tidal estuary, which was closed off from the marine influence as a result of the "Deltawerken". Jean-Marie Stam of the "Rijksinstituut voor Kust en Zee" (RIKZ) is going to lead us through this area with a boat from Rijkswaterstaat (RWS) and tell us about the effects of the Deltawerken on this area and on the plans to restore some of the tidal influence from 2005 onward. Dr. Djin Nio, an expert on tidal sedimentology, will also participate and tell us about his knowledge of the Biesbosch tidal system. Finally, Rien Herber of NAM will discuss some of the subsurface geology. We will try to get off the boat at one or two interesting sites during the excursion. The exact route will be determined at a later stage.

#### **Details:**

DEPARTURE: 13 October, 2001 at 10.00 a.m.(at the latest) by private cars (4 or 5) from the train station of Dordrecht to the landing place. Transport to Dordrecht for your own account. DEPARTURE FROM LANDING PLACE "GROOTHOOFD": at 10.30 a.m. with boat called Cyganus. CLOTHES: Weatherproof cloths, boots. COST: fl.70. p.p. excluding transport to Dordrecht. FREE LUNCH: Soup, bread with chesse, etc., drinks. RETURN: 17.00 p.m.at landing place, cars will take you back to the station.

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### **17 October**

At the montly meeting of 17 October, Djin Nio will give a lecture titled:

**Characterization of fluvial reservoirs – revisited.** KIVI Building: 17:00 hrs.

Abstract available at [www.pgknet.nl](http://www.pgknet.nl)

### **MEMBERSHIP**

A quarter of the PGK members have not paid there membership (dfl. 30,-) dues for 2001 yet. **Please do so this month.** The money can be transferred to one of accounts in the newsletter header. Alternatively you can request an "acceptgiro" by contacting the secretary. Those people that became a member during the year will be contacted for membership payment separately.

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