

# PETROLEUM GEOLOGISCHE KRING

KONINKLIJK NEDERLANDS GEOLOGISCH MINBOUWKUNDIG GENOOTSCHAP



PGK

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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.	<b><a href="http://www.pgknet.nl">www.pgknet.nl</a></b>
<b>Membership:</b>	Apply for membership by contacting the secretariat. Euro 15,-
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## MAY 2003 NEWSLETTER

### **19 MAY: MONTHLY MEETING**

The next PGK meeting will be on **Monday, 19<sup>th</sup> May**. It is a joint meeting with the SPE and the DPS. Please note that it will be on a **Monday**, and will be held at the **Applied Earth Sciences Dept., in Delft**. Please check other side of this newsletter to see how to get to the Applied Earth Sciences Dept. As usual, social hour (free drinks) will be between 17:00 and 18:00 hrs. The lecture will be given by **Josef Shaoul** (Pinnacle Technologies), with the title:

### **"Marginal field rejuvenation with hydraulic fracturing, Kazakhstan"**

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

The talk will be followed by a BBQ dinner in the courtyard of the Mijnbouw building; fee is 15 Euros. Please let us know before May 16 if you are planning to come. E-mail address: [secretary@pgknet.nl](mailto:secretary@pgknet.nl)

### **OTHER PGK ACTIVITIES**

#### **NEXT MEETING**

Next PGK meeting will be on **Wednesday, June 18<sup>th</sup>**. Jon Noad (Shell International) will give the lecture: "Field analogues: a single-faceted approach to 3-D Reservoir Modelling".

#### **3 DAYS EXCURSION**

##### **13-15 june: PGK spring excursion to the Saar-Nahe basin**

This year the PGK will visit the Saar-Nahe basin in Germany. It is located between Saarbrücken and Bingen. A touristic place on the northern rim of the basin is Idar-Oberstein. Geologically speaking the Saar-Nahe basin an intramontane Permo-Carboniferous basin in which a grey fluvial, lacustrine and deltaic Carboniferous series is outcropping as well as grey and red fluvial Rotliegend sediments. PGK-members having affinity with volcanic rock will not be disappointed either.

##### ***Excursion Program***

**13 june:** departure 9.30 Den Haag CS - Lunch and geology stop - Winery or Museum in Saarbrücken - 1st night in Saarbrücken

**14 june:** Excursion program by Prof. Dr. A. Schäfer (Bonn Univ.)

**15 june:** Excursion program by Prof. Dr. A. Schäfer (Bonn Univ.) - Departure Bingen ca. 16.00 - Arrival Den Haag CS ca. 21.00

Apply by E-mail: [h.mijnlieff@nitg.tno.nl](mailto:h.mijnlieff@nitg.tno.nl) - Phone: Harmen Mijnlief, 030-2564514 (off.) - 030-2720727 (home)

#### **ONE DAY EXCURSION**

The current plan is to visit the Waddenzee and view it as a modern analog of reservoir rocks in the Dutch subsurface and to see the subject of the intense debate on gas production and subsidence over the past years. The exact date in September or October is still under discussion.

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**Monthly meeting:** Monday 19 May 2003  
**Address:** Applied Earth Sciences Dept., Mijnbouwstraat 120, Delft  
**Social hour:** (free drinks) between 17:00 and 18:00 hrs  
**Lecture:** at 18:00hrs – BBQ will follow, please register at secretary@pgknet.nl

## Directions:

### Public Transport

\* *Train:* From Rotterdam/Dordrecht and Amsterdam/Schiphol/The Hague, go to railway station Delft

\* *Bus:*

- From Delft railway station: local bus 64 and regional busses 120, 121 and 129
- From Bleiswijk, Bergschenhoek, Berkel, Pijnacker, Zoetermeer, Rotterdam CS, Overschie, The Hague-Kijkduin, Wateringen, Rijswijk: regional lines 120, 121 and 129
- There is an Express Bus going from Rotterdam Marconiplein to the district of Delft-UT and vice versa. The number of this bus is 201

### By car

From The Hague and Rotterdam: A13, exit Delft-Zuid, turn to TU Delft, turn to the right (Schoemakerstraat). At traffic lights turn left (=Mijnbouwstraat). Number 120, on the right side

## "Marginal field rejuvenation with hydraulic fracturing, Kazakhstan"

**Josef Shaoul**

(Pinnacle Technologies)

Many marginal oil fields were discovered in the former Soviet Union which were not considered attractive enough to produce at the time. The wells in these fields were often plugged and abandoned. Two of these fields in western Kazakhstan have been redeveloped by foreign joint ventures. Following the initial development phase, hydraulic fracturing was performed in both fields to increase the production and improve the field economics. Although one field was low permeability (3-5 mD) and the other was moderate permeability (50-100 mD), hydraulic fracturing was very successful in both cases in increasing production. In the low permeability case, hydraulic fracturing made an otherwise un-economic field potentially profitable. In the moderate permeability case, the economics of a marginal field were substantially improved.

The talk will describe the properties of the reservoirs, give an overview of the fracturing operations and look at the production improvements generated by hydraulic fracturing.

**Please post this page on the board of your office building. New members and guests welcome!**

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