

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 18:00hrs.		www.pgknet.nl
Membership:	Apply for membership by contacting the secretariat. The annual fee is €15.-		
Accounts:	Fortis Bank: 88.65.82.733 (PGK, Den Haag)		

OCTOBER 2008 NEWSLETTER

15 OCTOBER:

The next PGK meeting will be on **Wednesday, October 15, 2008**. The programme will be as follows:

17:00-18:00 hrs: Social hour

18:00-19:00 hrs: Lecture by Victor van Heekeren and Jan-Diederik van Wees

“Geothermal Energy: The forgotten energy source or the green ‘hype of the week’?”

Abstract on other side

EXTRA PGK MEETING ON MONDAY 27 OCTOBER

“Subsidence analysis in Northern Iran: inferences on South Caspian Basin opening”

PGK has the opportunity to receive 2 scientists from the Pierre & Marie Curie University (UPMC), **Marie-Francoise Brunet and Eric Barrier**. They will present some highlights from the MEBE project.

The MEBE relational database is built to integrate the geological data collected and synthesized during the Middle East Basins Evolution Programme (MEBE). It aims at providing an interactive interface between the MEBE, observations, analysis and syntheses and the users. The database includes tectonic, stratigraphic, sedimentological, geochronological data for the Middle-East, Caucasian and Black-Sea domains revisited by MEBE teams. Thus the MEBE database is not restricted to raw data. Most of recorded data are interpreted data, such as cross-sections, biostratigraphical charts and figures, subsidence curves, paleostress maps, stratigraphic charts and logs, sedimentological logs and maps, tectonic logs and maps.

Programme

17.00-18.00 drinks

18.00-19.00 presentation

Venue: KIVI building

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ONE DAY FIELD TRIP NOVEMBER 16

As everybody knows, there are no geological (hardrock) outcrops in the Western part of the Netherlands. Although this is true for natural outcrops, rocks, minerals and sedimentary structures can still be seen and examined in buildings and pavements.

Therefore the PGK organizes the....

Geological city fieldtrip Amsterdam

Guide: Wim Dubelaar (TNO/Deltares)

Date: Sunday 16 November 2008

Place: Amsterdam

Time: 11.00 – 15.00

Costs: €10,- (including lunch)

Send you registration email to:

douwe.vanleverink@tno.nl

Gathering point will be at Amsterdam Central Station at 11.00 AM. From there we will walk through the city centre (\pm 2.5 hrs) with Wim Dubelaar who will show and explain us the geological origin and content of the rocks in buildings and streets. After this tour we will have a lunch and drinks at a location which will be announced later. Hope to see you all at the 16th of November!

Best regards,

Douwe van Leverink
PGK excursion coördinator

NOVEMBER MEETING

The November meeting will take place at **Wednesday, November 19, 2008** with a lecture on 'Glacial Tunnar Valleys', by Andrea Moscariello.

10 NOVEMBER: GEOTHERMAL SYMPOSIUM

Hereby we like to inform you about the DAP-Geothermal Symposium concerning geothermal activities in the Netherlands. This event will be held on Monday 10 November at the conference centre of the Delft University. Unfortunately for all international experts, the entire symposium will be held in Dutch. For more information please refer to:

http://www.geothermie.nl/img/images_inline.php?id=169

NEW MEMBERS

Applications for membership have been received from Hans Martens (Horizon Energy Partners), Wouter Kool (ION Geophysical), Pablo Kraemer and Christian Derer (Wintershall), Stephen Neville Ehrenberg, Marjan Peeters and Jenny Grobleben (Panterra) and Olakunle Bukola Ogunjimi (Delft University of Technology). If no objections are received prior to or during the next meeting, he/she will be automatically admitted as member of our society.

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Monthly meeting: Wednesday 15 October 2008

Address: KiVi, The Hague

Social hour: Between 17:00 and 18:00 hrs

Lecture: 18:00-19:00

Title:

“Geothermal Energy: The forgotten energy source or the green ‘hype of the week’?”

By Victor van Heekeren and Jan-Diederik van Wees

ABSTRACT

Geothermal energy is as old as the world – early settlements near hot springs, Mediterranean thermal baths and the first city heating grid in AD 1400 (Chaudes Aiyges, Auvergne). 1904 witnessed the first electrical power plant (good for 6 light bulbs) in Lardarello, Italy. The following decades the developments focused mainly on refinement of the electrical power cycles. These were followed by breakthroughs in more sustainable well design (doublet principle) and especially in direct use of geothermal for heating houses and greenhouses. The Netherlands lagged behind – even considering the modest temperature gradients - but interest is growing by the day. The current development phase and some basic scenario’s for geothermal potential will be presented and compared to scenario’s for Germany and the EU.

The speed of development is obviously contingent on fossil fuel prices and renewable energy policy instruments. But the more technical issues of reduction of (drilling) costs and risks are also vital. Drilling costs (capital costs of the well) dominate the geo energy economics. Also end users are not prepared to accept similar geological risk exposures as are common to most mining and oil and gas exploration and production.

In the Netherlands, prospect identification and evaluation of techno-economic risks benefits largely from a wealth of data from the E&P industry, indicating that about two thirds of the onshore Netherlands is well suited for developing geothermal doublets in aquifer “geothermal play” systems in Early Cretaceous, Triassic and Rotliegend strata. Key to success is matching heat demand to supply, and optimisation of doublet layouts to prevent negative interference effects. In addition, enhanced geothermal systems (EGS), in which water is heated through circulation in hydraulically fractured rocks at depths > 4 km, may well provide a main stream renewable source for electricity production. The geothermal play concepts for EGS has been tested in Soultz in France and proven economically viable in Landau in Germany. The EGS active faults play concept is very likely to be applicable to tectonically active regions in the Netherlands. In addition fracking may also be used to tight rocks away from faults in order to improve performance of both deep and ultra-deep geothermal plays in the Netherlands. Platform Geothermie members have recently drafted a template research agenda to address and prioritise key issues in Dutch and EU research efforts. This research agenda will be presented – focusing on the subsurface components.

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

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VACANCIES AND ANNOUNCEMENTS (FROM OUR SPONSORS)

Due to the expansion of activities GDF Production Nederland B.V. (part of the GDF SUEZ group) has vacancies for:

Senior Geologist, based in Zoetermeer

You will carry out reservoir studies and assist in compiling field development plans. You have working experience with operational geology, petrophysics and Petrel for geological model building. You are able to carry out geological projects both for exploration and production. You will participate in new license applications and farm ins. We are looking for a candidate with a MSc degree in Geology. Extensive North Sea working experience in an E&P environment is a prerequisite.

Senior Reservoir Engineer, based in Zoetermeer

You are responsible for monitoring production behaviour of gas fields of GDF SUEZ. You are able to prepare and evaluate production test data. You will prepare reserve reports. In close cooperation with geologists and geophysicists you will be responsible for well proposals and field development plans. We are looking for candidates with a MSc degree in petroleum/reservoir engineering. Extensive North Sea working experience in an E&P environment is a prerequisite.

If you are interested in these vacancies, please send your application to GDF Production Nederland B.V., attn. Claire Zijderveld-Savarimuthu, E-mail: human.resources@gazdefrance.nl