

PETROLEUM GEOLOGISCHE KRING

KONINKLIJK NEDERLANDS GEOLOGISCH EN MIJNBOUWKUNDIG GENOOTSCHAP



Treasurer: Bert Clever
c/o Wintershall Noordzee BV
PO Box 82301
2508 EH Den Haag
phone: 070 - 358 31 06
Bank account: 88 65 82 733 (VSB, Den Haag)
Giro account: 40 74 482

Secretary: Dr. A. Ewan Campbell
TNO Institute of Applied Geoscience
P.O. Box 6012
2600 JA Delft
phone: 015 - 269 6731
home: 070 - 362 03 52
fax: 015 - 256 4800

NOVEMBER 1995 NEWSLETTER

FORTHCOMING PGK EVENTS

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| Nov. 15 | Prof. Drs. F. Walter
TU-Delft | Extraction of geothermal energy: now and in the future |
| Dec. 20 | Dr. Edmund Sides
ITC.Delft | 3D GIS: Help or hinderance in reconstructing geologic history? |
| Jan. 17 | Mrs Sheila Doherty
ex SOEKOR | The success ratio of prospects delineated through sequence stratigraphic analysis - a case study of the Bredasdorp Basin, offshore South Africa. |

PGK NOVEMBER MEETING

The PGK **November meeting** will be held on **WEDNESDAY, October 15**, at 17:45 pm and will be preceded by aperitifs from 17:00 pm onwards. The lecture will be held at the KIVI building, Prinsessegracht 23, The Hague. Prof. Drs. F. Walter, TU-Delft will speak about: "**Extraction of geothermal energy: now and in the future**". The speaker has provided the following abstract:

Geothermal sources can be defined in:

- high enthalpy ($T > 150^{\circ}\text{C}$) sources which are located in areas with high temperature gradients. These sources are the most attractiveto develop because of the high value of the end product: electricity. The world installed capacity is now up to 5500 MWel;
- low enthalpy ($T < 150^{\circ}\text{C}$) sources found in areas with normal temperature gradients ($30\text{-}35^{\circ}\text{C}/\text{km}$). Use of these sources offers a wide spectrum of applications: heating of individual houses by means of ground coupled mechanical heatpumps, district heating and cooling by means of well doublets, heating of greenhouses, use of heat in industrial processes (e.g. preheating dehydration and concentration) and the production of electricity using Organic Rankine Cycle turbines.

In the USA 200,000-300,000 houses are heated by ground coupled heatpumps; in Paris 200,000 housing equivalents are heated by 42 doublets each consisting of a production and an injection well. The yield per doublet is $250\text{ m}^3/\text{h}$ of geothermal water at 70°C . The installed low enthalpy capacity in Europe is about 4000 MWth.

Energy from rocks of very low porosity and permeability can be extracted from a confined circulation loop with two wells connected by a network of artificial fractures. The technique is called the Hot-Dry-Rock technique. A joint project involving the US government and private US industry was initiated this year in order to develop a facility to produce and market energy. Scientific projects are being carried out in Japan and France (The EU sponsored Soultz-sous-Forêts project near Pechelbronn).

OTHER EVENTS OF INTEREST TO PGK MEMBERS

- November 6-8** Norsk Petroleumsforening (NPF) 'Predictive High Resolution Sequence Stratigraphy', Stavanger, Norway
- Nov. 21-22** PESGB Environmental Conference, London. For further details please phone the PESGB office on +44 171 495 6800 or FAX +44 171 495 7808.
- December 12** PESGB Chairmans Evening, London. For further details please phone the PESGB office on +44 171 495 6800 or FAX +44 171 495 7808.
- February 22-24** Prediction in Geology, Vrije Universiteit Amsterdam. For further details please contact Prof. Dr. Wolfgang Schlager, on +31 20 444 7390 or FAX +31 20 646 2457 e-mail schw@geo.vu.nl. Abstract deadline October 13.
- May 2 - 3** Trends in Geowetenschappen, 3^e Nederlands Aardwetenschappelijk Cngress, Koningshof, Veldhoven. For more information contact Mrs M.K. van Helden, Rijks Geologische Dienst, Postbus 157, 2000 AD Haarlem. Tel +31 23 5 300 285.
- June 3-7** EAGE, 58th Conference and Technical Exhibition, Amsterdam. For further details contact Eveline Schut, EAGE, Laan van Vollenhove 3039, Postbus 298, 3700 AG, Zeist, FAX +31 30 696 2640. Abstract deadline January 17.

MEMBERS NEWS

We have received applications for membership from **Drs. Pascal Winthaegen**, a consultant in Landgraaf, **Crawford Anderson**, the business development manager with Western Atlas in Den Haag, **Etienne Wildboer Schut** a geophysicist at TNO, **Rob Arts** also a geophysicist at TNO and **Euenike U.Obinya**, a petroleum geologist from Nigeria. If no objections are received at, or before, the next meeting, they will automatically become members.

Members with e-mail and **Eudora** (preferably running on a Macintosh) may receive the newsletter digitally from the following address campbell@iag.tno.nl. This service will run parallel with the hard copy until reliability can be guaranteed. Eudora Light can be downloaded free from the net at the following site <http://lorien.qualcomm.com/quest/commercial.html>.

GAS AND OIL UNDER THE NETHERLANDS:

We have achieved enough orders of the above mentioned book required in order to achieve the discount. Members who have confirmed in writing will be receiving (or have already received) a formal order form asking them to pay dfl 132.50 to the KNGMG account **postrekening 27834, Geologie en Mijnbouw te Amstelveen**. We regret that credit cards and cheques are unacceptable and urge payment by direct transfer to the named account.

Members **must** return this form to Harm Rondeel of the KNGMG (address on form) and have made payment to this account on or before November 30. Orders cannot be guaranteed beyond this date. Distribution of the volume is intended to occur at the PGK January meeting in order to eliminate postal costs. Overseas purchasers should contact the secretary for alternative arrangements. Should the costs be less purchasers shall receive a refund of the difference to their accounts form which initial payment was made.

PLEASE FILL THIS FORM IN AND PAY NOW!

LETTERS (or) FAXES OF INTENT TO THE SECRETARY ARE NOT ENOUGH.