

# PETROLEUM GEOLOGISCHE KRING



## KONINKLIJK NEDERLANDS GEOLOGISCH MIJNBOUWKUNDIG GENOOTSCHAP **PGK**

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<b>Venue:</b>	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.		<a href="http://www.pgknet.nl">www.pgknet.nl</a>
<b>Membership:</b>	Apply for membership by contacting the secretariat. The annual fee is €15.-		
<b>Accounts:</b>	Fortis Bank: 88.65.82.733 (PGK, Den Haag)		

## FEBRUARY 2010 NEWSLETTER

### **17<sup>th</sup> FEBRUARY:**

The next PGK meeting will be on **Wednesday, February 17<sup>th</sup>, 2010**. The programme will be as follows:

- 17:00-18:00 hrs: Social hour
- 18:00-18:30 hrs: **PGK Annual General Meeting**  
- Activity summary 2009/2010 by the present board  
- Introduction of the new board (see also next page)
- 18:30-19:00 hrs: Lecture by Philip Christie (Schlumberger Cambridge Research)  
**“Probing passive and active margins from the Faroes to Sumatra”**  
**(Use of academic and industrial seismology to image beneath the basalts on the Faroes volcanic margin)**
- 19:30 hrs: Annual PGK Dinner at Restaurant Pavlov

### **ANNUAL PGK DINNER**

After the meeting, from 19:30 hrs onwards, you are invited to the Annual PGK Dinner at the Restaurant Pavlov (Spui 173, 2511BM Den Haag [www.pavlov-den Haag.nl](http://www.pavlov-den Haag.nl) 10 minutes walking distance from the Kivi building).

Please register for the dinner before **Monday 15<sup>th</sup> of February**. Registrations can be done by contacting the PGK secretary, or sending an e-mail to [christian.derer@wintershall.com](mailto:christian.derer@wintershall.com), and transferring **35EUR** to the PGK bank account (Fortis Bank: 88.65.82.733, PGK Den Haag). Please mention “Annual Diner 2010” in the subject.

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## ANNUAL MEETING

### **PGK Board 2009/2010**

- President: Herman Darman (Shell)
- Vice President: Gitta Zaalberg (Fugro)
- Secretary: Wieske Paulissen (TU Delft)
- Treasurer: Nabil Chaouch (PanTerra)
- Excursion Coordinator: Douwe van Leverink (TNO)
- Web Master: Adriaan Janszen (TU Delft)

### **PGK Board 2010/2011: Proposed Candidates**

- President: Gitta Zaalberg (Fugro)
- Vice President: Bas van der Es (Shell)
- Secretary: Christian Derer (Wintershall Noordzee)
- Treasurer: Wiebe van Driel (PanTerra)
- Excursion Coordinator: Henk Kombrink (TNO)
- Web Master: Adriaan Janszen (TU Delft)

## MEMBERSHIP FEE 2010

Please be reminded to pay your PGK contribution for 2010 by transferring **€15,-** to the PGK bankaccount stating your name and year 2010:

88.65.82.733, PGK Den Haag (Fortis Bank)

## MARCH PGK MEETING

The March meeting takes place on **Wednesday, 17<sup>th</sup> of March 2010**. There will be a lecture given on **“Gas Hydrates and Seeps”** by Jens Greinert (NIOZ - Royal Netherlands Institute for Sea Research).

## NEW MEMBERS

Applications for membership have been received from Raymond Pols (JOA), Mijke van den Boogard (EBN), Derk Jan Feenstra (Shell International), Victor Petri (Argo Geological Consultants), Douwe van der Meer (Shell International), Erik P. Mason (Shell International), Anke Pots (GDF SUEZ E&P), Mark Guillon (Bergen Oilfield Services AS), Tonie Davidsen (Wintershall Noordzee).

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 17<sup>th</sup> February 2010  
**Address:** KIVi building, Prinsessegracht 23, the Hague  
**Social hour:** Between 17:00 and 18:00 hrs  
**Lecture:** 18:30-19:00

## “Probing passive and active margins from the Faroes to Sumatra”

(Use of academic and industrial seismology to image beneath the basalts on the Faroes volcanic margin)

By Philip Christie et al.

Philip Christie<sup>1</sup>, Satish Singh<sup>2</sup>, Martin Bayly<sup>3</sup>, Tim Bunting<sup>3</sup> & Robert White<sup>4</sup>

<sup>1</sup> Schlumberger Cambridge Research, Madingley Road, Cambridge CB3 0EL, UK ([pafc1@slb.com](mailto:pafc1@slb.com)) <sup>2</sup>

Institut de Physique du Globe de Paris. <sup>3</sup> WesternGeco. <sup>4</sup> University of Cambridge.

The Sumatran earthquake and consequent tsunami of 26 December 2004 did not go unnoticed by the industry. Seismic vessels in the Indian Ocean saw their data swamped by the earthquake and many earth scientists were so affected by the devastating human impact that their organisations were moved to offer immediate disaster relief and longer-term support for the understanding, early warning and mitigation of such phenomena.

The integrated Seismic Imaging and Modelling of Margins (iSIMM) project had previously used low-frequency seismic sources in coincident Ocean Bottom Seismometer (OBS) and 12 km streamer profiles from the hydrocarbon province West of Shetlands, across the Faroes passive margin and out over oceanic crust. These data successfully imaged structures from seabed to Moho, including a low-velocity zone beneath the basalts and lower crustal magmatic intrusions. As academic researchers began to mobilise testable hypotheses and resources to characterise the fresh Sumatran rupture, it was natural to use a similar tool to probe this all-too-active margin.

In July 2006, the *Geco Searcher* acquired three deep seismic profiles as a *pro bono* contribution to the Sumatra-Andaman Great Earthquake Research (SAGER) project. The acquisition parameters were similar to those used for the iSIMM survey and the streamer data were complemented by wide-angle OBS data and high resolution seabed bathymetry. WesternGeco processed the seismic data on-board the vessel and subsequently on-shore in Indonesia. Although challenged by strong multiples and rapidly varying seabed topography, the data have revealed a fascinating glimpse into the structure of this margin with evidence for the subducting oceanic plate beneath the accretionary wedge, the Simeulue plateau and the fore-arc basin. The seismogenic zone of the rupture has been imaged, together with a network of thrust faults, some of which were responsible for the tsunami when they broke the seabed.

Both iSIMM and SAGER projects exemplify the potential for integrating academic and industry expertise in probing deep structures which are of interest to earth science and society as a whole.

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### *Thanks to our sponsors:*

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## **CLINGENDAEL INTERNATIONAL ENERGY PROGRAMME:**

**Wednesday 3<sup>rd</sup> February 15:30h-17:15h (at Huys Clingendael, Den Haag):** "ExxonMobil Outlook for Energy - A View to 2030" to be presented by Mr. Todd Onderdonk, Senior Energy Advisor in ExxonMobil's Corporate Strategic Planning Department.

For further information see [www.clingendael.nl/ciep](http://www.clingendael.nl/ciep) or contact [jmeijknecht@clingendael.nl](mailto:jmeijknecht@clingendael.nl)  
Registration Deadline: 29 January