

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 18:00 hrs.	www.pgknet.nl	
Membership:	Apply for membership by contacting the secretariat. The annual fee is 15.- Euros.		
Accounts:	Fortis Bank: 88 65 82 733 (PGK, Den Haag)	Postbank: 4074482 (PGK, Den Haag)	

OCTOBER 2004 NEWSLETTER

20 OCTOBER: MONTHLY MEETING

The next PGK meeting will be on **Wednesday, October 20th, 2004**. As usual, social hour (free drinks) will be served between 17:00 and 18:00 hrs. The lecture will be given by **Oscar Abbink (TNO-NITG)** on:

“A tectono-stratigraphic framework for the “Upper Jurassic” of the Southern Central North Sea Graben and Terschelling Basin (Dutch Offshore)”

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

NOVEMBER MEETING:

On 17 November 2004 Richard Huis in 't Veld (Argo) will give a lecture. Exact title is unknown as of yet. Please refer the PGK website (<http://www.pgknet.nl>) for further details in the near future, or see the upcoming November newsletter.

NEW MEMBERS:

Applications for memberships have been received from Rutger van der Vliet (Argo Services), Gijs Vermeer (3DSymSam - Geophysical Advice), Lydia Marschall-Wesselingh. If no objections are received prior to or during the next meeting, they are automatically admitted as members of our society.

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Monthly meeting: Wednesday 20 October 2004
Address: KIVI building, Prinsessegracht 23, Den Haag
Social hour: (free drinks) between 17:00 and 18:00 hrs
Lecture: at 18:00hrs

“A tectono-stratigraphic framework for the “Upper Jurassic” of the Southern Central North Sea Graben and Terschelling Basin (Dutch Offshore)”

Oscar Abbink, Harmen Mijnlief, Dirk Munsterman, Roel Verreussel (TNO-NITG)

ABSTRACT - In the Northern Offshore of the Netherlands, uppermost Middle Jurassic (Callovian) – lowermost Cretaceous (Ryazanian) strata (Schieland and Scruff Groups) are mostly limited to the Central Graben and Terschelling Basin. Outside the Central Graben and the Terschelling Basin only thin veneers of these strata occur on the fringing highs as the Schill Grund High and the Step Graben.

The Upper-Jurassic – Lower Cretaceous strata are a target for the oil and gas exploration. During the initial stages of the Dutch offshore exploration history various oil fields and some gas fields were discovered of which only one the F3-FB field proved to be economic.

The geology of this non-marine to shallow marine strata is complex. The combination of lateral facies changes, repetitive log and facies characteristics in time, sea-level and climate changes, salt tectonics and structural differences hamper straightforward seismic interpretation and log correlation. The large number of lithostratigraphic units defined in the Stratigraphic Nomenclature of the Netherlands illustrates the complexity of this time-interval.

In the last years, new biostratigraphic techniques and newly acquired stratigraphic data have led to the identification of a series of events which can be related to the tectonic, climatic and stratigraphic development of the “Upper Jurassic” Central Graben and Terschelling Basin. Based on this data, three tectono-stratigraphic sequences can be recognized. Sequence 1 (Callovian - lowermost Kimmeridgian) comprises the initiation of the Central Graben. Sequence 2 (lower Kimmeridgian - lower Portlandian) comprises the initiation of the Terschelling Basin. During sequence 3 (upper Portlandian - Ryazanian) the Dutch offshore is draped by a regional transgression. In this presentation, these tectono-stratigraphic sequences will be introduced in relation to wells and seismic. In addition, two potential play concepts will be discussed.

This presentation is based on a request by EBN to provide an integrated stratigraphic framework for the Northern Offshore “Upper Jurassic”.

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

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