Petrel Asia Pacific Newsletter

April 2007

Dear Valued Customer,

The Petrel Team is proud to continue this Newsletter specific to Petrel Asia/Pacific.

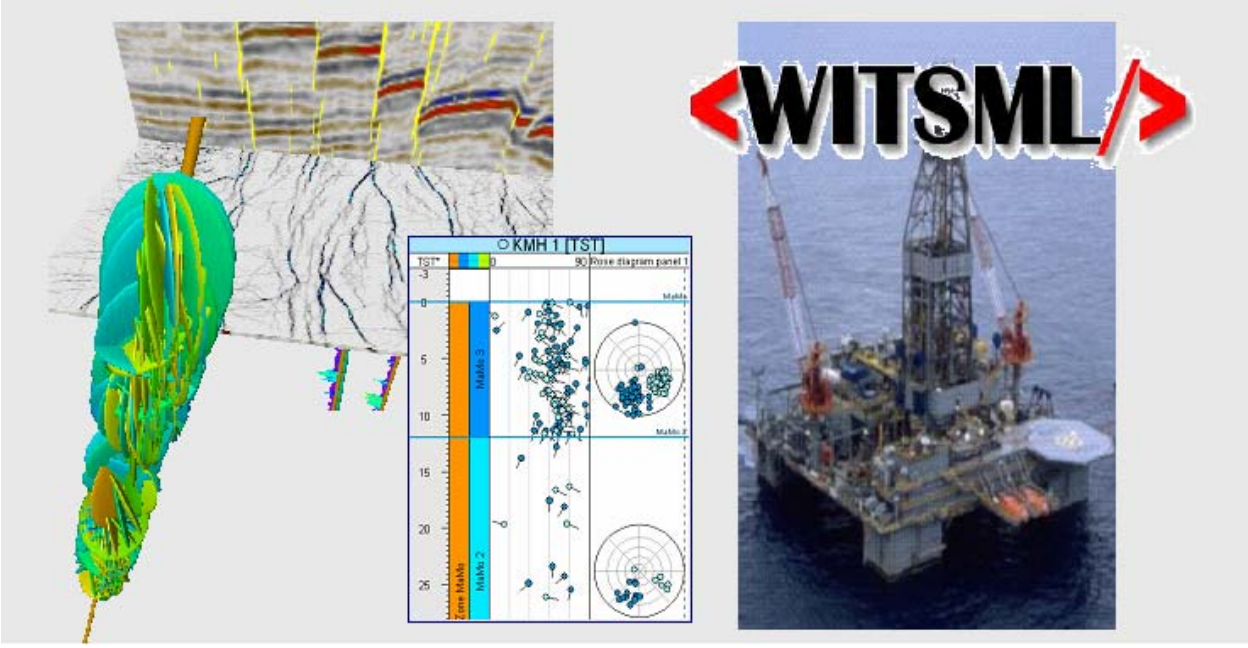
This Newsletter will be focusing on:

- *Module of the month - Ants / Fracture Modeling Worklfows*
- *Module of the month - Seismic Server*
- *Highlight of the Month - How to streamline your real time drilling data directly into Petrel ?*
- *Workflow of the Month - Generate all Petrel 2007.1 attributes (80+) in a workflow on the fly?*

We hope you will enjoy it !

Best regards,

The Petrel Asia/Pacific Team



Petrel Asia Pacific Newsletter

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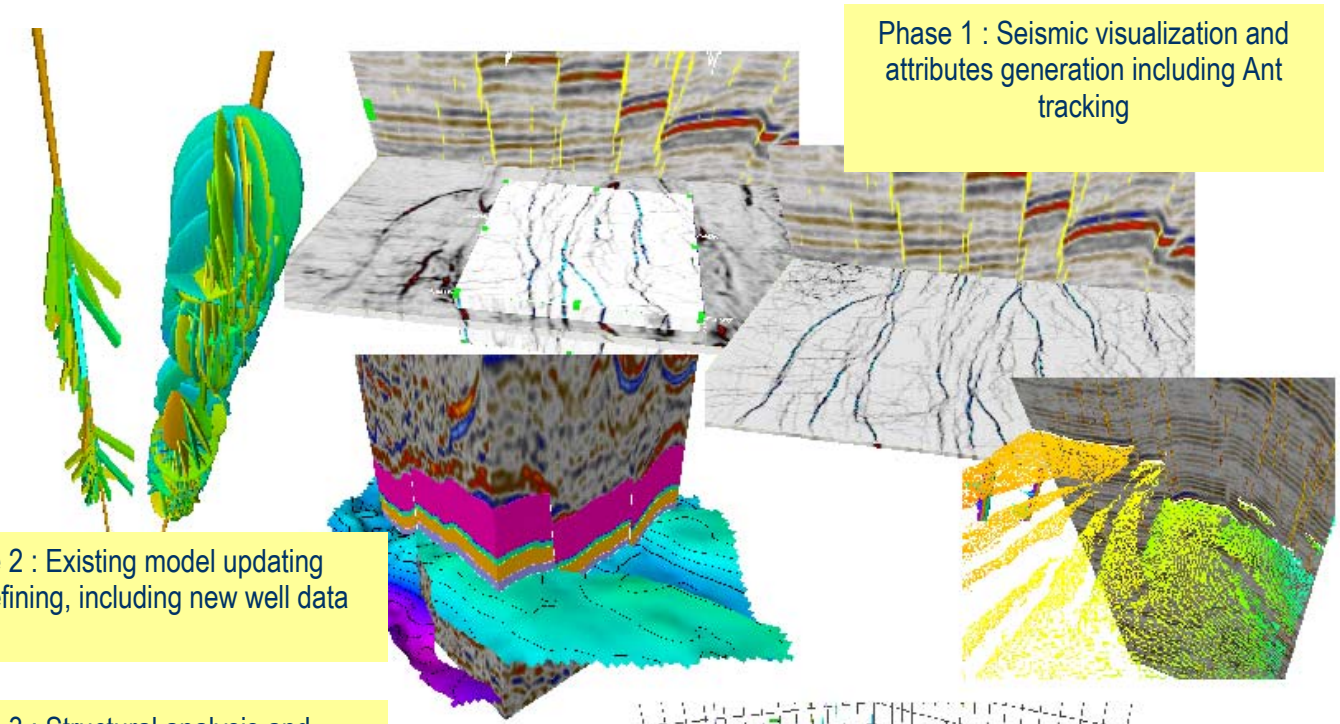
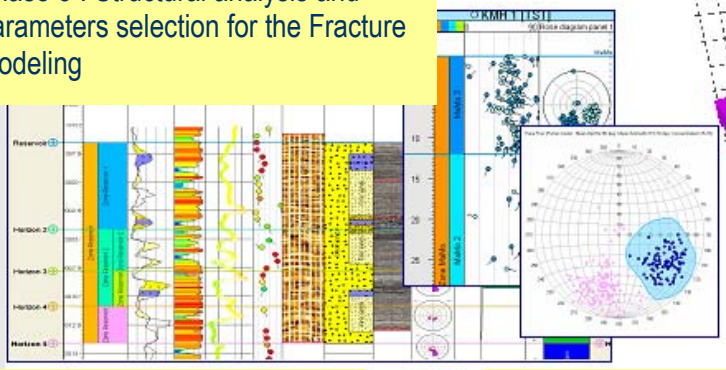
Module of the month – Ants / Fracture Modeling Worklfows

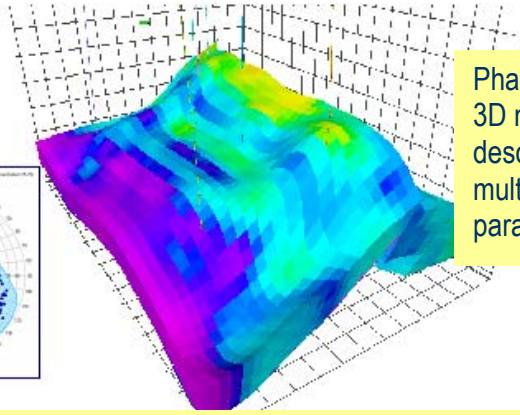


Phase 1 : Seismic visualization and attributes generation including Ant tracking

Phase 2 : Existing model updating and refining, including new well data

Phase 3 : Structural analysis and parameters selection for the Fracture modeling

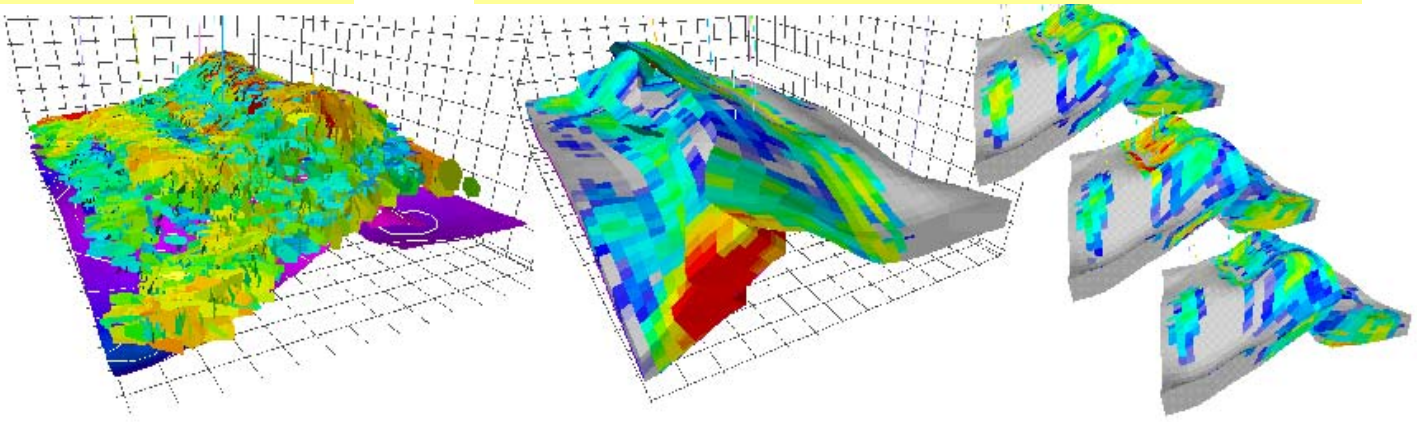




Phase 4 : Creating 3D models describing the multiple fracture parameters in 3D

Phase 5 : Creating multiple realizations of DFN

Phase 6 : Dual Porosity/ Permeability simulations



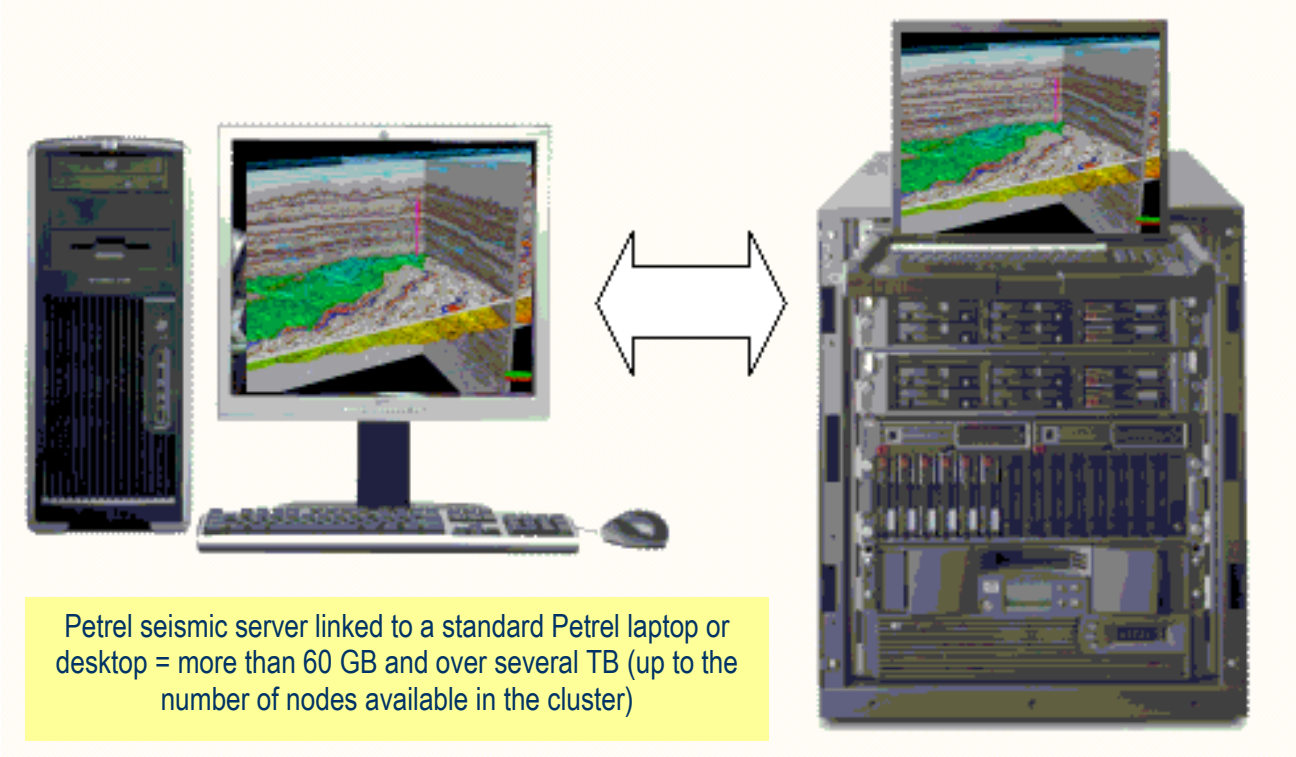
Breakthrough Team Performance

Schlumberger

Module of the month – Petrel Seismic Server for HUGE seismic cubes

For those dealing with extremely large seismic volumes (>60 GB to several TB of data), Petrel 2007.1 introduces the **Petrel Seismic Server**. This new capability will use a hardware cluster as a backend processor for compute intensive operations such as attribute generation and autotracking.

You will be able to store and process huge seismic volumes on a server and access them through the standard Petrel seismic interpretation interface. This not only provides huge time savings, but has the added benefit of allowing an entire asset team to share access to the data and interpretation.



Petrel seismic server linked to a standard Petrel laptop or desktop = more than 60 GB and over several TB (up to the number of nodes available in the cluster)

The configuration of the Seismic Server Cluster will depend on the size of your seismic data volume. Please contact your local SLB representative to help design the right configuration for your needs.

Highlight of the Month – How to streamline your real time drilling data directly into Petrel ?

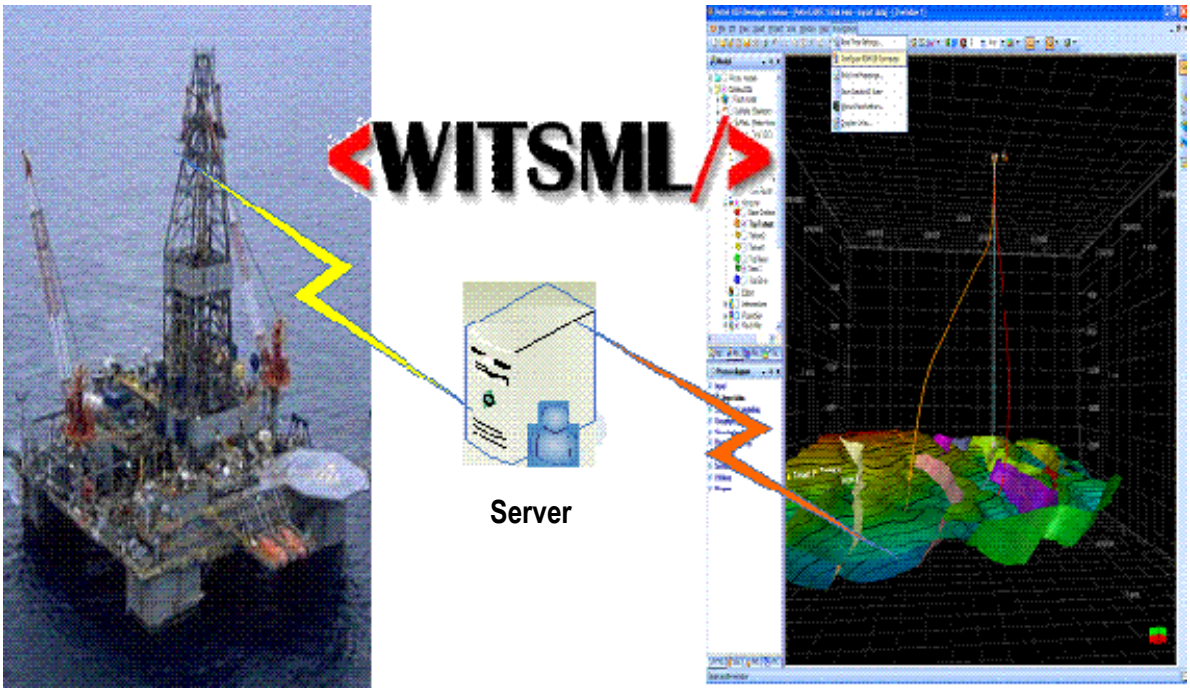
The Real-Time Data Link component accepts streaming real-time data such as logs, events and trajectories from InterACT* and other 3rd Party WITSML data and files servers.

Petrel 2007.1 users directly connect to remote **WITMSL*** data:

- Drilling data: well trajectories
- Logging data: real-time channels

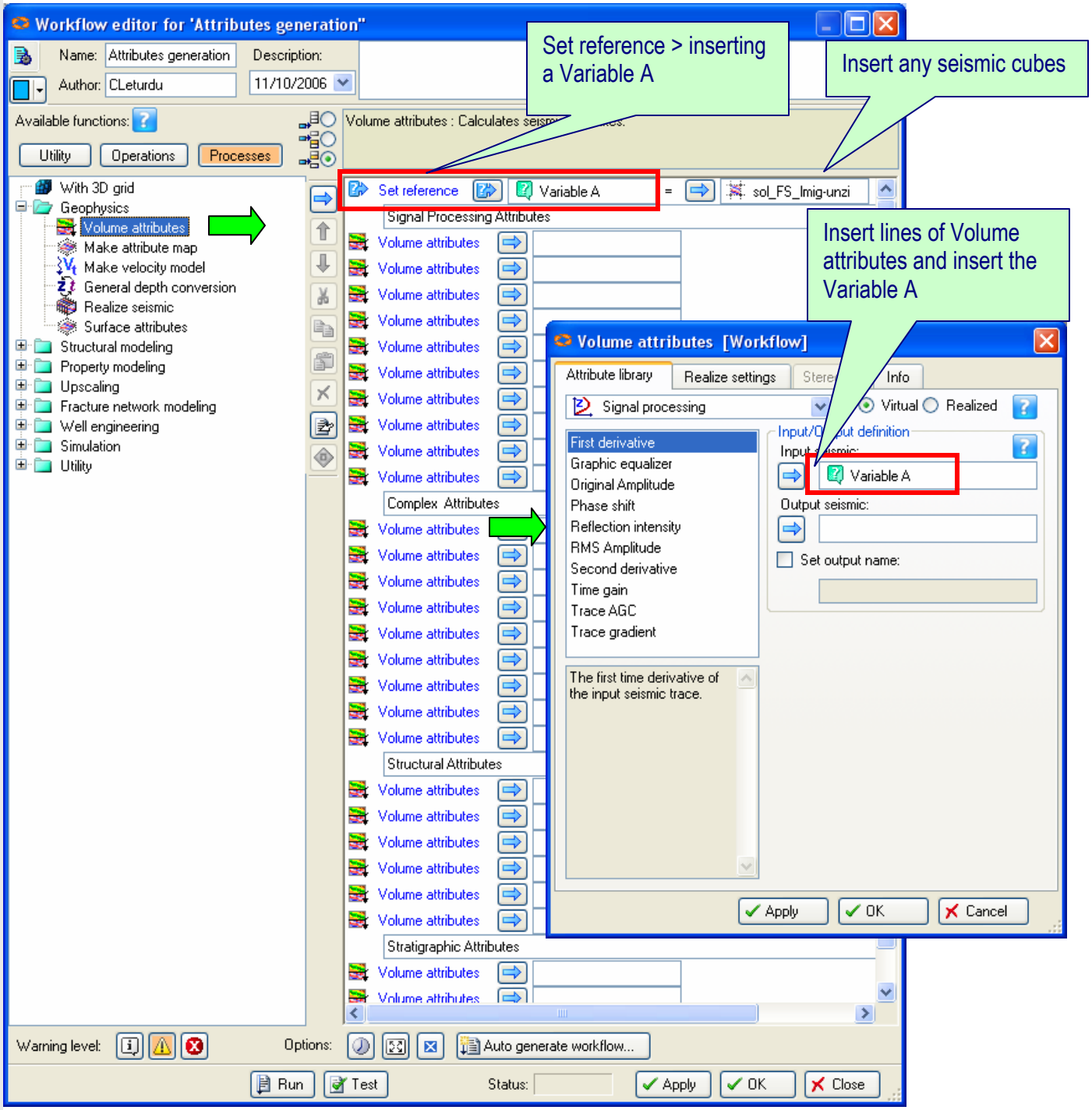
Data can be:

- Viewed in the 3D and Well Section windows
- Saved in Petrel formats
- Usable for real-time sessions or modeling in all related Petrel workflows.



**** Wellsite Information Transfer Standard Markup Language***

Workflow of the Month – Generate all Petrel 2007.1 attributes (80+) in a workflow on the fly



Petrel Asia Training Schedule

April 03-05: Petrel Seismic Visualization & Interpretation - Adelaide - Australia
April 12-13: Petrel Complex Structural Modeling - Adelaide - Australia
April 16-18: Petrel Seismic visualization & Interpretation - Jakarta - Indonesia
April 17-20: Petrel Introduction - Adelaide - Australia
April 18-21: Introduction course - Jakarta - Indonesia
April 19-20: Petrel Process Manager & Uncertainty Analysis
April 24-25: Petrel Applied Mapping - Jakarta - Indonesia

May 01-02: Petrel Applied Mapping - Adelaide - Australia
May 01-04: Petrel Introduction - Jakarta, Indonesia
May 03-04: Petrel Applied Well Correlation - Adelaide - Australia
May 07-09: Petrel Structural Modeling - Jakarta - Indonesia
May 17-18: Petrel Process Manager & Uncertainty Analysis - Adelaide - Australia
May 22-25: Petrel Introduction - Adelaide - Australia
May 28-29: Petrel Mapping and Scaled Plotting - Tokyo - Japan
May 30-31: Petrel Applied Well Correlation - Jakarta - Indonesia

June 04-05: Petrel Velocity Modeling - Jakarta - Indonesia
June 06-08: Petrel Seismic visualization & Interpretation - Jakarta - Indonesia
June 11-13: Petrel Property Modeling - Jakarta - Indonesia
June 18-21: Petrel Reservoir Engineering - Tokyo - Japan
June 21-22: Petrel Process Manager & Uncertainty Analysis - Jakarta - Indonesia
June 26-29: Petrel for Reservoir Engineers - Adelaide - Australia

Interested in sharing your experience with the other users around Asia / Pacific ? Please do not hesitate to contact Caroline Le Turdu (cleturdu@slb.com). Many thanks !

BEIJING TRAINING CENTER

Course	Instructor
Petrel Introduction	Chen Jienv - Gan Yixuan - Li Zhihua
Petrel Seismic Visualization and Interpretation	Lu Guanghui - Chen Cuihong - Gan Yixuan
Petrel Property Modeling	Yuan Jianxiang - Chen Cuihong - Chen Jienv

Course	March	April	May	June	July	August	September	October	November	December
Petrel Introduction	19-23			4-8		6-10		15-19		3-7
Petrel Seismic Visualization and Interpretation			14-18					29-	-2	
Petrel Property Modeling		9-13							5-9	

Schlumberger SIS Training Center
Room 500, Lidu Place,Jichang Road,Beijing
Contact Zhao Yi Meng 010-64746699-2236
Email: lzhao5@beijing.oilfield.slb.com

KUALA LUMPUR COLLABORATION AND TRAINING CENTER

COURSE NAME	DURATION (Days)	Feb	Mar	Apr
PETREL				
Petrel Introduction	4		5-8	
Petrel Applied Mapping	2			9-10
Petrel Seismic Visualization and Interpretation	3	12-14		
Petrel Complex Structural Modeling	2		26-27	
Petrel Property Modeling	3	5-7		
Petrel Applied Well Correlation	2		19-20	
Petrel Process Manager and Uncertainty Analysis	2	8-9		25-26
Petrel for Reservoir Engineers	4			

COURSE NAME	DURATION (Days)	May	June
PETREL			
Petrel Introduction	4	7-10	
Petrel Applied Mapping	2		
Petrel Seismic Visualization and Interpretation	3		11-13
Petrel Complex Structural Modeling	2		14-15
Petrel Property Modeling	3	21-23	
Petrel Applied Well Correlation	2		
Petrel Process Manager and Uncertainty Analysis	2		
Petrel for Reservoir Engineers	4		

Kuala Lumpur Collaboration and Training Center
Mailing address: 16th Floor Rohas Perkasa, 8 Jalan Perak,
50450 Kuala Lumpur, Malaysia
Contact: 60-3-2166 7788 Fax: 60-3-2166 7500
E-Mail: klctc@slb.com Website: http://www.sis.slb.com/training/

Training 2007
Oslo, Norway

Petrel now offers a number of courses that suit everyone from the novice to the expert user. Even an experienced user can benefit from a refresher course. Please take a look at the following course descriptions to see if we have the right topic for you.

Petrel Introduction (4 days).
This course is designed for users with no prior experience in Petrel. It takes the users through almost the entire model building process (seismic, structural and property modeling) so that they may become familiar with the entire modeling workflow.

Applied Mapping (2 days).
This course provides the skills to fully use the more advanced mapping options available in Petrel. The course requires the Petrel Introduction course or similar Petrel experience. Covered topics include: Overview of different gridding algorithms, isochore processing, extraction of maps from a 3D model, maps used in QC, optimization for plotting and scaling.

Seismic Visualization and Interpretation (3 days).
This course guides the Petrel user through integrated seismic interpretation in 2D and 3D.
It provides instruction on topics such as synthetic seismograms, horizon and fault interpretation, depth conversion, automatic fault extraction (ant-tracking), surface generation from interpreted data, attribute volumes and attribute maps, volume rendering and extraction. It also provides instruction on the various visualization and cropping techniques available to optimize your workflow. It is recommended to have participated in a Petrel introduction course before taking this course.

Structural Modeling (2 days).
Intended for users with basic Petrel modeling skills who need hands on training on how to handle complex fields. This course shows the techniques, and best approaches for building a structural model in such areas as
compressional environments, truncations and salt domes.

Property Modeling (3 days).
Intended for the user with basic Petrel modeling skills. This course covers data preparation, basic geostatistic, data analysis, facies and petrophysical modeling. It guides the user through concepts, algorithms and software functions in property modeling.

Reservoir Engineering (3 or 4 days).
This course is intended for Reservoir Engineers who want to prepare a Petrel model for reservoir simulation. The course starts with a one day introduction to Petrel (optional) where the user interface is presented and a simple simulation case is defined. The process of converting a geological model into simulation grid using upscaling is presented. Saturation functions and fluid models are defined. It is demonstrated how to set up a simulation case. Both prediction and history matching is addressed. Petrel functionality for evaluating and comparing cases is emphasized. Also, the possibility to automate history matching by use of the process manager is presented. The first day is optional and not necessary for users who have some Petrel experience.

Process Manager and Uncertainty Analysis (2 days).
Reservoir risk assessment can be employed in Petrel via the Uncertainty Workflow Editor by integrating all of the reservoir knowledge and uncertainties to build multiple valid models for a complete risk analysis. The course will show the user how to handle uncertainty in Petrel, from structural to stochastic property uncertainties. To fully understand the Uncertainty Workflows, the user also needs some understanding of the Process Manager, which is the building block of the Uncertainty Workflow Editor. The second aspect of the course is designed for the user to become familiar with the Process Manager tools, understanding and setting up workflows to accomplish your specific project needs, as well as understanding how to easily update a model when new information is acquired. It is recommended to have basic Petrel knowledge before taking this course.

Applied Well Correlation (3 days)
This course demonstrates the different options the Well correlation module can offer in Petrel. The course has a general introduction to correlation, why correlations are performed and shows the different options in theory. The different techniques are applied in a typical working order. The course focuses on workflow, starting with simple exploration wells, and goes through the appraisal, development and production phases. It is recommended to have basic Petrel knowledge before taking this course

Training 2007 Oslo, Norway

Open Course Schedule

February 2007 Available Dates

Structural Modeling:	19th -20th
Property Modeling:	21st -23rd

March 2007 Available Dates

Applied Well Correlation:	6th -8th
Reservoir Engineering:	12th -15th
Petrel Introduction:	19th -22nd
Process Manager & Uncertainty Analysis:	27th -28th
Applied Mapping:	29th -30th

April 2007 Available Dates

Petrel Introduction:	17th -20th
Seismic Visualization & Interpretation:	23rd - 25th
Structural Modeling:	26th -27th

May 2007 Available Dates

Property Modeling:	2nd -4th
Reservoir Engineering:	7th -10th
Applied Well Correlation:	22nd-24th

June 2007 Available Dates

Applied Mapping:	5th -6th
Process Manager & Uncertainty Analysis:	7th - 8th

New for Petrel version 2007.1

5 Day Course Petrel Introduction:	June 25th -29th

Cost & Registration

The cost of taking a scheduled course is 800 USD per day, per person. Courses may be cancelled if registration is less than 3 participants. If cancellation of a course is not received at least 5 business days before the start of the course, you will be charged the full course price, however, you are welcome to schedule a replacement for the course at no additional charge and are also allowed to reschedule at no additional charge.

To register for a specific course or for more information about upcoming courses in all Schlumberger offices, please access our website at:
http://www.slb.com/content/services/software/training/index.asp