

Geo-soundings

NEWSLETTER - DECEMBER 2001

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CONFERENCES

Four students from this Department attended **The 1st Asia-Pacific Regional Development Geology Workshop** sponsored by Woodside Energy Ltd, Landmark Graphics, PGS, Technoguide, CSIRO and Schlumberger Gequest. The workshop was held at the Western Australian Cricket Association in Perth on 17-19 October 2001. The title of the workshop was *Future Directions: Geoscience Techniques in Development Planning*. The following poster presentation was given:

Kim*, M., Dunne, J., Gurevich, B., and Urosevic, M., 2001, *Fluid and lithology prediction within a coal sequence using seismic attribute modelling and analysis (Gippsland Basin)*

PRIZES/SCHOLARSHIPS

The CSIRO prize winners from the ASEG Student Night are as follows:

Best Papers Awarded to:

Ms Karen Pittard – best mineral paper

Mitchell Tomlinson and **Christophe Salti** – tied for best petroleum papers

CONGRATULATIONS TO ALL THREE STUDENTS

Congratulations also to **Troy Thompson** on receiving the 2001 PESA Post-Graduate Scholarship for Research in Geosciences

STUDENTS

Robert Galvin, one of our honours students, will be representing WA in the Melbourne Chess Championships. Robert will be playing in the Australian Reserves Championship from 28 December to 9 January. The Championships will be held in the Melbourne Town Hall.

First Prize will be \$3000. Good luck Robert – we hope you win!

ARRC CENTRE

The new Australian Resources Research Centre was officially opened by the Premier of Western Australia, Dr Geoff Gallop, on Wednesday 14 November.

All staff of the new Centre were invited to a party held in the Rock/Core Store on Friday 9 November. There were prizes for the best funny hat and entertainment was provided by *Dot Combo*



Brian Evans acting as MC at the ARRC party

DONATIONS

We express our grateful thanks to **WMC Exploration Corp.** for donating the following equipment for our use:

- 2 x Overhauser Magnetometers
- 3 x Sirotem Mark 2 Units
- 2 x Borehole winches
- Various wire and reels
- Field cases

Our thanks also go to **Scintrex** for donating a CG2 gravimeter.

CRGC SPONSORS' MEETING

The Annual General Meeting for the CRGC is to take place at the Country Club on Rottnest Island on 13/14 December. The following presentations will be made:

The wavelet transform as a geophysical signal processing tool

Troy Thompson

Techniques for improving Kirchoff PSDI

Chris Manuel

Focusing time lapse data using time-reversed acoustics

Damian Leslie

Calculation of correct amplitudes for simple 3-D models using computer algebra

Bruce Hartley

Forward and inverse modelling of fractured media

Fatkhan

Explicit anisotropic P-wave ray velocity functions, travel times and velocity analysis in T.I. media

Fanmin Zhang

Seismic attenuation in a heterogeneous porous rock

Boris Gourevitch

An approach to mapping fractures

Robin Luo

Seismic monitoring of geological CO₂ sequestration

Jason McKenna

Improved delineation of reservoirs by AVO and time-lapse studies

Ben Sanderson

A new approach to volume visualisation

Andre Gerhardt

Developing proposals for the future

Brian Evans

Research for the future

Bill French

JOURNAL PUBLICATIONS

Fatkhan, Urosevic, M., and McDonald, J., 2001, Numerical and physical modelling of P-wave AVO response for fractured media: *Exploration Geophysics*, **32**, 279-283.

Shepherd, A., and James, A., 2001, Interpolation of Horizon contours from sections sampled from 3D seismic data and from parallel 2D seismic sections, **95**, 28-32.

DISTINGUISHED VISITORS

ARRC has received some distinguished visitors recently. On 21 November Lieutenant General John Anderson, Governor of Western Australia, toured the research laboratories of Curtin and CSIRO. Presentations were made by Adrian Williams and Wayne Robertson on behalf of CSIRO, and by John McDonald on behalf of Curtin. Similar presentations were made on 12 December to Oscar de Soto, US Consul General in Perth, and Jim Carouso, US Economic Councillor in the US Embassy in Canberra

STAFF NEWS

The 5th of November marked the annual Curtin Community Golf Day at Hartfield Country Club. The team from Exploration Geophysics comprising Bill French, Jason McKenna, Damian Leslie and Troy Thompson (aka Bill French & the Divots) shot 69 to clinch a narrow victory. The Michael White Trophy is on display in the foyer of Exploration Geophysics for the next 12 months. This performance marks the first domestic tour victory for the Divots and the first international tour victory for Bill French. We are hoping to obtain corporate sponsorship for the 2002 event to bring Bill back to Australia to defend the title (and carry us to victory).



Bill French and the Divots

*Merry Christmas and a Happy New Year
to all our readers*