

Geo-soundings

NEWSLETTER - JUNE 2002

Editor: Mrs Rhonda Green
Curtin University of Technology
GPO Box U1987, Perth WA 6845

Prof Norm Uren, Head
Department of Exploration Geophysics

Enquiries: Tel (08) 9266 3408/3565
Fax (08) 9266 3407

Email enq@geophy.curtin.edu.au
www.geophysics.curtin.edu.au

CONFERENCES

Two staff members and three students attended the **64th EAGE Conference & Exhibition** held in Florence, Italy, 27-30 May 2002. The following papers were presented:

Hartley, B.M., 2002, *A computer algebra based 3D seismic modelling system for simple Earth models*: 64th Conference and Exhibition, European Association of Geoscientists & Engineers, Extended Abstracts, P265, Proceedings published on CD ROM.

Hartley, B.M., and Leslie, D.M., 2002, *Subsurface monitoring with continuous wave acoustic sounding*: 64th Conference and Exhibition, European Association of Geoscientists & Engineers, Extended Abstracts, H-08, Proceedings published on CD ROM.

Luo, M., and Evans, B.J., 2002, *Fracture detection from conventional 3-D marine seismic - the SDFM method*: 64th Conference and Exhibition, European Association of Geoscientists & Engineers, Extended Abstracts, C-43, Proceedings published on CD ROM.

Thompson, T.A., and Hartley, B.M., 2002, *Adaptive approximations for multiple suppression*: 64th Conference and Exhibition, European Association of Geoscientists & Engineers, Extended Abstracts, P026, Proceedings published on CD ROM.

Kepic, A., and Butler, K., 2002, *The art of measuring very low amplitude seismoelectric signals*: 64th Conference and Exhibition, European Association of Geoscientists & Engineers, Extended Abstracts, P193, Proceedings published on CD ROM.

Kepic, A., and Howman, D., 2002, *The application of geophysical methods to detecting sub-surface cavities under roads*: 64th Conference and Exhibition, European Association of Geoscientists & Engineers, Extended Abstracts, D-11, Proceedings published on CD ROM.

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Jayson Meyers and Paul Wilkes attended the **Victoria Undercover: Benalla 2002 Conference** held in Benalla, Victoria from 30/04/02 to 02/05/02. Jayson presented the following paper:

Meyers, J., 2002, *Geophysical overview of the Euroa region, northern Victoria*: Victoria Undercover: Benalla 2002 Conference proceedings and field guide: collaborative geoscience in northern Victoria, 17-23.

Brian Evans and Milovan Urosevic attended the **2002 APPEA Conference** held in Adelaide from 21-24 April.

They presented the following two papers:

Urosevic*, M., Li-Yun Fu, and Dodds, K. J., 2002, *Seismic expression of abnormal geo-pressure in the Barrow sub-basin*: The 2002 APPEA Conference, Abstracts Volume, 28-29.

Evans, B., and Pauli, A., 2002, *The seismic reflection response to changes in pressure*: The 2002 APPEA Conference, Abstracts Volume, 28-30.

JOURNAL PUBLICATIONS

Gyngell, N., and Okoye, P., 2002, *Physical modelling of multi-layered transversely isotropic media*: Exploration Geophysics, **33**, 11-17.

Hartley, B.M., 2002, *Exact travel time calculations for simple three-dimensional Earth models in seismic exploration using computer algebra*: Computers & Geosciences, **28**, 327-336.

PRIZES/SCHOLARSHIPS

The following people deserve **Congratulations**:

Damian Leslie has been awarded an American Association of Petroleum Geologists (AAPG) Foundation Grants-in-Aid award for his project *Imaging the earth using incoherently scattered seismic waves in exploration geophysics*.

Damian Leslie received a grant from the French Embassy & Australian Academy of Science (Euro 4120), January 2002. This grant will assist with travel and collaborative research associated with the project entitled *Time-reversed acoustics in geophysics in 2002*.

Damian Leslie and **Bruce Hartley** were awarded an ASEG Research Foundation grant in January 2002 for the project *Imaging the Earth using incoherently scattered seismic waves in exploration geophysics*

Robert Galvin was awarded an Interactive Virtual Environment Centre (IVEC) top-up scholarship for three years.

Benn Hanson was awarded a PESA Third Year Prize in the field of Geophysics. This prize is awarded to the student who showed the most potential in petroleum-related geophysics subjects in 2001 and who is likely to pursue a career in the petroleum industry. Benn is currently undertaking the 2002 BSc Geophysics Honours program - petroleum stream. The prize was presented on 16 May at the PESA WA Branch Technical Meeting.

Jason McKenna was awarded an Interactive Virtual Environment Centre (IVEC) top-up scholarship for one year.

MINE SITE RESEARCH

Jayson Meyers and Don Hunter supervised an experimental helicopter EM survey at a mine site in the East Pilbara as part of an Industry sponsored research project. A conductive target, identified following the first day of surveying, was recently drilled and turned out to be a new mineral resource. This blind discovery has proven the viability of this technology and is a positive outcome for the collaboration between Curtin Geophysics and Industry.

STAFF NEWS

Dominic and Pam Howman are now the proud parents of a baby girl named Nicole born on Friday 7 June.



Pam and Nicole Howman

On Saturday 27 April Amanda Thompson married Rod Parkinson in St Mary's Church, Middle Swan.



Rod and Amanda Parkinson

Congratulations to both the above staff members on these very special occasions.

EXPOS

Narrogin Careers Expo - Youth Out Loud

Norm Uren and Dom Howman participated in the Narrogin Expo held on 12 April.

Fremantle Careers & Education Expo 2002

Dom Howman, Norm Uren, John McDonald, Brian Evans, Anton Kepic, Jayson Meyers, Troy Thompson, Margarita Norvill, Robert Galvin and Fatkhan all helped on our booth at the above expo held 17/18/19 April. This booth was shared with Applied Geology.

Curtin Expos

Victoria Park Recreation Centre, managed and attended by Dom Howman on 20 May.

Midland Youth Expo 2002

Dom Howman, Norm Uren, Milovan Urosevic, Margarita Norvill, Miroslav Brajanovski, Fanmin Zhang and Mohammad Rosid all participated in the Careers & Education Expo held at the Midland Workshops on 24 & 25 May. The booth was shared with Geology.

Schools Careers Evenings

Dom Howman participated in a combined schools career evening on 30 May held at Acquinas College and shared with Trinity/Mercedes/Santa Maria College.

Karratha & South Hedland Careers Expo 2002

Margarita Norvill travelled to Karratha and South Hedland to represent the Department at this Expo which was held from 17-21 June.

South West Careers Education & Training Expo 2002

Held at the Leschenault Leisure Centre, Australind, Tuesday 25 June. The Department was represented by Bruce Hartley and Dom Howman. Applied Geology shared the booth once again.

Our objectives in attending the above Expos are:

- to promote science and technology to middle high school students as a career
- to attract the most able senior students into the Curtin Geophysics program.

The Department is making a special effort this year to recruit new students in anticipation of the impending shortage of new graduates.

STUDENTS

Triegue Allen, Troy Thompson, Dominic Howman, Jason McKenna and Nigel Cantwell (3rd Year Student) were the winners of the PESA (Petroleum Exploration Society of Australia) Industry Volleyball Challenge, held on Sunday 14 April 2002 at the Cottesloe Civic Centre. After going through the 5 preliminary rounds undefeated, the team took on Woodside in the grand final and gave them a lesson in the finer arts of volleyball. The chromed drill bit trophy is proudly on display in the Department of Exploration Geophysics.



Some of the volleyball team members

L to R: Liesbet Holla, Damian Fletcher, Triegue Allen, Dominic Howman, Jason McKenna and Troy Thompson.

Office bearers for the Curtin Exploration Geophysics Society (KEGS) for 2002 are:

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| President: | Triegue Allen |
| Vice-President: | Jarod Townsend |
| Secretary/Treasurer: | Karen Gilgallon |

The aims of the society are to act as a link between students and the Society of Exploration Geophysicists (SEG), the Department of Exploration Geophysics and Industry. KEGS would also like to host a student career evening for all geophysics students with a

guest (geophysicist) speaker from the minerals and petroleum industries. You may be approached in the near future.

Triegue Allen was involved as a committee member in establishing the inaugural PESA student chapter. The aim of this society is to provide a link between Industry and students.