

Geo-soundings

NEWSLETTER - AUGUST 2000

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CONFERENCES

70th Annual SEG Meeting - Calgary

The 70th Annual SEG Meeting was held this year in Calgary, Canada from 6-11 August. Once again the Department had a booth in the Consortium Showcase to publicise our research program and to provide information for prospective project sponsors and international students. A business card raffle was held, and the lucky winner of a carved emu egg was Eric Verschuur of Delft University.



*The winner of the
carved emu egg*

*Dr Eric Verschuur
Research Geophysicist
from Delft University of
Technology*

Seven members of staff and five senior research students attended the meeting and presented the following papers:

Brockmann, A., Duncan* G., and McDonald, J.A., 2000, Hydrocarbon indicators in the Macedon-Pyrenees Field, Western Australia: 70th Ann. Internat. Mtg., Soc. Explor. Geophys., Expanded Extracts, Vol I, 202-203.

Li, R., Okoye, P., and Uren*, N.F., 2000, Inversion techniques for P-wave anisotropic parameters from VSP surveys: 70th Ann. Internat. Mtg., Soc. Explor. Geophys., Expanded Extracts, Vol II, 1739-1742.

McKenna *, J., Sherlock, D.H., and Evans, B.J., 2000, Repeatability of physical modelling time-lapse 3-D seismic data: 70th Ann. Internat. Mtg., Soc. Explor. Geophys., Expanded Extracts, Vol II, 2146-2149.

Manuel*, C.D., and Uren, N.F., 2000, Attenuation of multiple reflections via prestack Kirchhoff depth migration: 70th Ann. Internat. Mtg., Soc. Explor. Geophys., Expanded Extracts, Vol II, 1977-1980.

Sanderson, B., and Hartley*, B.M., 2000, Wavelet stretching and destretching to aid autoconvolution based multiple attenuation: 70th Ann. Internat. Mtg., Soc. Explor. Geophys., Expanded Extracts, Vol II, 2005-2008.

Sherlock*, D.H., McKenna, J., and Evans, B.J., 2000, Seismic physical modelling of immiscible fluid flow: 70th Ann. Internat. Mtg., Soc. Explor. Geophys., Expanded Extracts, Vol II, 1591-1594.

Thompson*, T.A., Deshon, P.A., and Evans, B.J., 2000, Stress-induced anisotropic properties of synthetic sandstone core: 70th Ann. Internat. Mtg., Soc. Explor. Geophys., Expanded Extracts, Vol II, 1875-1878.

Urosevic*, M., and Hatherly, P.J., 2000, The extreme anisotropy of the near surface: an example from the southern Sydney Basin: 70th Ann. Internat. Mtg., Soc. Explor. Geophys., Expanded Extracts, Vol II, 1335-1338.

Wilkes*, P., 2000, Geophysics in the exploration for diamonds in the North Kimberley region of Western Australia: 70th Ann. Internat. Mtg., Soc. Explor. Geophys., Expanded Extracts, Vol I, 1113-1114.

AAPG Conference - Bali

Norm Uren, John McDonald, Brian Evans and Milovan Urosevic will be attending the AAPG Conference in Bali, Indonesia from 15-18 October. Papers being presented will be published in the next issue of *Geosoundings*.

Reminder:

The Annual General Meeting of the CRGC Consortium will be held on Friday 1 December 2000

NEW SCHOOL STRUCTURE

During the latter half of 1999 and the first few months of 2000, Curtin University has restructured some of its Divisions and Faculties. As a result the Division of Engineering & Science underwent considerable change, which resulted in the creation of six super schools. As part of this restructure, the **Department of Exploration Geophysics** was moved out of the School of Physical Sciences and into the newly created **SCHOOL OF RESOURCE SCIENCE & TECHNOLOGY**. There is a total of five Departments within this new school.

Applied Geology
Environmental Biology
Exploration Geophysics
Petroleum Engineering
Spatial Sciences

The Head of this new School is **Professor Graham Lodwick**, who previously was the Head of the School of Spatial Sciences. Professor Lodwick is now the Dean of the Faculty of Minerals and Petroleum, and the part time Director of the Western Australian School of Mines.

EXPOS

Curtin Science Careers Evenings

Two science careers evenings were held at Curtin University on the evenings of the 12th and 13th July 2000. These evenings are open to the public for High School students interested in a science career. Prof Norm Uren, Dr Anton Kopic and Mr Dominic Howman attended these evenings to provide interested prospective students with information about geophysics. A Departmental tour was conducted following the proceedings.

Fremantle Career Choices Expo 2000

The Department of Exploration Geophysics ran a booth at Careers Expo in the Fremantle Passenger Terminal on August 18th and 19th. Costs of this activity were sponsored by industry donations from

Apache Energy
Baker Hughes (Western Geophysical)
British Borneo Australia Limited
Kevron Geophysics Pty Ltd
MIM Exploration Pty Ltd
Origin Energy Resources Limited (formerly Boral)
Racal Survey Australia Limited
Texaco Oil Development Company
Western Mining Corporation

A competition run over the two days attracted over 200 entries.

Our objectives are

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

SCHOLARSHIP & PRIZE WINNERS

Scholarship Winners

NEVILLE STANLEY BURSARY 2000

The Department of Commerce and Trade has awarded one of ten Neville Stanley Bursaries for 2000, valued at \$5,000 to **Alexander Pauli**. Alex is currently enrolled in the Petroleum Honours program in the Department of Exploration Geophysics. This bursary is to be used for approved expenditure related to Alex's Honours project, including items such as books, equipment and conference expenses.

AusIMM - MINING & METALLURGICAL BURSARIES - 2000 PRIZE WINNERS

The Department of Exploration Geophysics has received written confirmation from the AusIMM Education Endowment Fund, advising us that two Geophysics students have been awarded AusIMM Bursaries. The winners are:

- **Sean PLUNKETT** Best 1st Year student in 1999
- **Gregg SPEYERS** Best 3rd Year student in 1999

We congratulate both students on winning these awards. The AusIMM have informed us that both students have been advised of their success and they will be presented with their prizes at a forthcoming Branch function.

Prize Winners

- **Damian Leslie** (PhD Student) received financial assistance from the French Embassy to the value of one return airfare to France, plus a living allowance up to approximately AUD\$1,000.
- **Christopher Manuel** (PhD Student) received an **American Association of Petroleum Geologists (AAPG) Foundation Grants-in-Aid Scholarship** valued at \$1,627(US). This scholarship will assist Christopher with PhD equipment expenses. Successful recipient's abstracts will be published in a forthcoming AAPG Bulletin.
- **Jason McKenna** received \$8,000 (over 3 years) for his PhD project: "Time-lapse 3-D Seismic Reservoir Modelling", from The Australian Society of Exploration Geophysicists Research Foundation.

GRADUATION

Students graduating on 21st August

Kim Cook MMET
Neil Hughes MMET
Michael Sharry MMET

Michael Sykes PhD

"Some techniques for the enhancement of Electromagnetic data for mineral exploration"

COMPUTING

We would like to thank Green Mountain Geophysics for their donation of a MESA licence to the Department. All petroleum students are now familiar with the use of this software having done a major data acquisition assignment set on its use.