

Geo-soundings

NEWSLETTER JANUARY 1998

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

A/Prof Norm Uren, Head
Department of Exploration Geophysics

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

Email enq@geophy.curtin.edu.au
<http://www.curtin.edu.au/curtin/dept/geophy/>

SEG CONFERENCE

The following people attended the SEG Conference held in Dallas, Texas during the week 2-7 November 1997:

Norm Uren	John McDonald
Brian Evans	Patrick Okoye
Don Sherlock	Ping Li
Matthew Lamont	Dominic Howman

Papers presented were:

Kamkar-Rouhani, A., and Das, U.C., 1997, A new method for processing direct current resistivity data to enhance the detection of 3-D subsurface targets: 67th Ann. Internat. Mtg., Soc. Explor. Geophys., Expanded Abstracts, 391-394.

Lamont, M., and Uren, N.F., 1997, Long period multiple elimination off the coast of Western Australia: 67th Ann. Internat. Mtg., Soc. Explor. Geophys., Expanded Abstracts, 647-649.

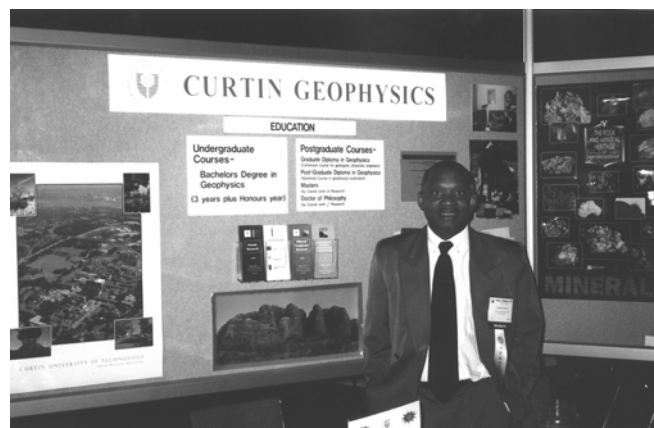
Li, P., and Uren, N.F., 1997, Analytical solution for direct current electric potential in an anisotropic half-space with a vertical contact: 67th Ann. Internat. Mtg., Soc. Explor. Geophys., Expanded Abstracts, 410-413.

Okoye, P., Walton, C., and Uren, N.F., 1997, Recovery of elastic parameters in multi-layered transversely isotropic media: 67th Ann. Internat. Mtg., Soc. Explor. Geophys., Expanded Abstracts, 1689-1692.

Sherlock, D., McDonald, J.A. and Evans, B.J., 1997, Seismic imaging of sandbox models: 67th Ann. Internat. Mtg., Soc. Explor. Geophys., Expanded Abstracts, 1371-1374.

We had a booth again this year run by Dominic Howman and the prize for this year's competition was another piece of Australiana in the form of a boomerang. Some of you might remember that last year's prize was a didgeridoo.

Following the SEG McDonald, Evans & Sherlock visited the Bureau of Economic Geology, University of Texas and the Allied Geophysical Laboratories at the University of Houston.



Patrick Okoye promoting our program at the Geophysics booth at the Dallas SEG 1997

HAGI CONFERENCE

John McDonald and Waluyo attended the 22nd Annual Scientific Meeting of the Indonesian Geophysical Association which was held at Sasana Budaya Ganesa, Institut Teknologi Bandung on October 16-17, 1997. The following papers were presented:

McDonald, J.A., Tadepalli, S.V., and Waluyo, 1997, Detection of fractures with p-waves: Proceedings of the 22nd Scientific Annual Meeting of Association of Indonesian Geophysicists, October 16-17, 51-54.

Waluyo, W., McDonald, J.A., Uren, N.F., and Okoye, P. 1997, Anisotropic parameter determination and its influence on normal moveout corrections: Proceedings of the 22nd Scientific Annual Meeting of Association of Indonesian Geophysicists, October 16-17, 59-63.

Before and after the HAGI Conference John McDonald made several contacts with groups in Indonesia with a view to cooperative research and for educational opportunities at Curtin. These contacts included; academic staff and students at ITBandung and presentations at; Pertamina, Gedung Kwamos; Lemigas, Jakarta; the University of Indonesia at Depok, and visits to the oil company offices in Jakarta.

VISITORS

Dr Ian Ferguson from the University of Manitoba, a specialist in electrical methods for mineral exploration, has joined the Department for 6 months on sabbatical leave.

GRADUATION DINNER

About 50 staff and students attended the Graduation Dinner held at the Duchess Room at the Windsor Hotel in South Perth on Saturday 29 November 1997. Norm congratulated all the graduates and wished them well.

STUDENT NEWS

Industry is snapping up students before they graduate. In December, 1996, 21 Hons students were enrolled at Curtin, but only eight returned in February, 1997 after the summer holidays. One part-time PhD student is faced with the decision of completing his degree or quadrupling his salary!!

1997 Hons graduates in Mineral Geophysics were successful in obtaining employment as detailed below:

Paul McMillen - Great Central Mines
Cliff Allen - Rio Tinto
Ben Whitfield - WA Agriculture Dept (salinity work)
Russell Mortimer - consulting to Outokumpu
Lee Sampson - UTS
Brian Wiese - Sperry Rand

1997 Hons graduates in Petroleum Geophysics likewise were successful in obtaining employment:

Michael Isherwood - Crocker Data Processing
Simon Davis - PGS

Postgraduands obtained employment with the following:

R Han (Msc) - PGS
Waluyo (PhD) - Pertamina
P Li (PhD) - PGS

All three have submitted theses and are awaiting results.

PRIZES

The winners of awards at the annual ASEG Student Night presentations were:

Best Presentation: **Jonathon Sumner** *Exploration Geophysics in the North Kimberley Kimberlite Province of Western Australia*

Best Technical Content: **Simon Davis** *The Expression of Low-throw Complex Faults in Surface Seismic Data*

1997 AIP prize awarded to: **Troy A Thompson**

1997 Rio-Tinto/CRA Field Mapping Prize awarded to:

Troy A Thompson

1997 VC List awarded to: **Antony P Brockman**

1997 Faculty of Science Dean's Prize for the Best 3rd Year

Student awarded to: **Troy A Thompson**

1997 Elwood Horstman Prize awarded to: **Donald H**

Sherlock (PhD Candidate)

SUMMER SCHOOL

This year's Australian Student Mineral Venture (ASMV) summer school ran in mid January and, as in the previous two years, was a great success. Curtin, Murdoch, and UWA combine with various mining companies to provide an AusIMM sponsored 12 day introduction to the mining industry for talented 15/16 year olds from the Northern Territory, South Australia and Western Australia. This year we had 39 students and Curtin provided two days of activities in Geology and Geophysics. The students greatly enjoyed hands-on activities with geophysical equipment and

geophysical software, and asked lots of interesting questions of the Curtin staff and PhD students. A magnetic map was made of part of the Curtin grounds and successfully located various buried objects running through the area. We currently have two students studying geophysics with us as a result of the earlier ASMV summer schools and hope to add to this number from this School. From the first two summer schools nearly all the students went into university courses related to the mining industry and, clearly, the summer schools are working well in attracting talented young people into this area.

MMET MASTERS COURSES

The next two courses in this series are approaching fast, but there is still time to join both of these.

Radiometrics and Remote Sensing	9-13 Feb at Curtin led by Dr Tim Munday & Paul Wilkes. Cost: \$1000 per person
Exploration Geochemistry	16-20 Feb at WASM, Kalgoorlie led by a cast of six with Dr Charles Butt, Dr Ravi Anand and other researchers from CRCLEME. This is a joint CRCAMET/CRCLEME course. Field visits are included in this course. Cost: \$1200 per person

Four more courses will run mid year and these will include Orebody Models and Gravity/Magnetics.

For further information call Paul Wilkes at Curtin Geophysics on (08) 9266 2330 or fax (08) 9266 3407. email: wilkes@geophy.curtin.edu.au.

RECENT ELECTION

John McDonald was elected Vice President of the ASEG WA Branch at the AGM held on Wednesday 10 December 1997.

CALL FOR PAPERS

The Society of Exploration Geophysicists of Japan (SEGJ) announces a Call for Papers for the 4th SEGJ International Symposium on Fracture Imaging, which will be held at Nihondaigaku-kaikan, Tokyo, Japan from 10-12 December 1998. The symposium is co-sponsored by SEG and ASEG. Prof John McDonald is Co-Chairman.

Technical sessions will cover *Fracture Detection, Imaging, and Characterization* and *Underground Heterogeneity*.

Abstracts should be 400-500 words and delivered to John A McDonald at Curtin University of Technology, Dept. Exploration Geophysics, GPO Box U1987, Perth, WA 6845, by **30 April 1998**. If you prefer, abstracts can be sent by e-mail to: segi4th@gsjart.gsj.go.jp

The deadline for the full paper in the specified format is **31 August 1998**.

For more information please refer to the following Web site:
<http://wwwsoc.nacsis.ac.jp/segi/meeting/is4/>

Happy New Year to all