

# Geo-soundings

NEWSLETTER - JANUARY 1999

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## ENROLMENTS 1999

### Total Enrolments for 1999 are:

BSc (Geophysics & Honours)	120
Grad Diploma	1
PostGrad Diploma	3
MSc (Geophysics) - Coursework	5
MSc (Geophysics) - Research	3
MSc (MMET)	5
PhD	10

### 1998 Graduates were:

<b>PhD</b>	Russell McChesney
Matthew Lamont	Sheryl Murphy
Waluyo	Troy Thompson
<b>MSc (Research)</b>	
Jonathan Cocker	<b>BSc</b>
<b>MSc (Coursework)</b>	Brett Adams
Oystein Lie	Ben Bartlett
Christopher Manuel	Stuart Bourn
<b>MSc (Geoscience Exploration)</b>	Antony Brockmann
<b>(Coursework)</b>	Bronwyn Calleja
Javier Peyriere	Grant Couston
<b>Postgraduate Diploma</b>	Philip Deshon
Bui Dac Dung	Antony Di Giacomo
<b>BSc (Honours)</b>	Alister Forsyth
Kirsty Beckett	Troy Lantzke
Bryn Bender	Neal McCabe
Grant Donnes	Jason McKenna
Shane Evans	Nathan Palmer
Andrew Fitzpatrick	Tenille Scott
Malcolm Griffiths	Karoline Stark
Damian Leslie	Katherine Trigg

## CO-LOCATION WITH CSIRO

After protracted and convoluted negotiations with the university administration and with CSIRO it can be finally confirmed that Curtin Geophysics will be moving into the new National Centre for Petroleum and Minerals Resources Research. This Centre will be a world class organisation involving some 200 researchers and will be built by the state government of Western Australia and located on Technology Park in Bentley just northwest of the Curtin Campus. The move will include the Centre of Excellence in Exploration and Production Geophysics which has also recently been funded by the State government. It is also expected that the Centre of Excellence in Petroleum Geology and the soon-to-be funded Centre of Excellence in Petroleum Engineering will join Geophysics in the National Centre. Completion of the building and consolidation of the research groups is expected by the latter part of 2000.

## ALUMNI

Curtin University is encouraging each School or Department to form its own Alumni Chapter. In Geophysics we have a significant number of past graduates who maintain close association with the Department and are interested in the development of Geophysics. All graduates are part of the general University Alumni. The formation of Chapters encourages past and new graduates to take an interest in Curtin University and of course the Department of Exploration Geophysics.

For this year's graduation ceremony a small function is planned to introduce graduating students to some past graduates to form an ongoing Geophysics Chapter of the Alumni. The University will support each Chapter by providing some funding and organisation to hold social and other meetings so that past graduates keep in touch with the Department. The advantage of a membership of a Chapter includes access to Internet services, library facilities and other University services as well as the opportunity to meet our growing student group and keep in touch with the developments in the Department.

Any past graduates who are interested in taking part in a Geophysics Chapter of the Alumni should contact Bruce Hartley at the Department on 9266 2297

## SHORT COURSES

"Introduction and Application of Neural Networks to Petroleum Exploration"

Instructor: Dr Curtis A Link, University of Montana  
Cost: \$600  
Date: 28/29 June 1999  
Venue: Department of Exploration Geophysics  
Curtin University

This course will run depending on the number of interested participants. If you are interested in attending this course, please contact Amanda Thompson as follows:

email: amanda@geophy.curtin.edu.au  
phone: (08) 9266 7674  
fax: (08) 9266 3407

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MMET 606 "Electromagnetic Methods in Mineral Exploration" will be run in July by Prof James Macnae and Dr Mike Asten.

We hope to also run a course on GIS and Prospectivity in July.

Professor Keeva Vozoff will present a 3 day course in Perth on Magnetotellurics and Lotem. This course will probably also take place in July.

Contact Paul Wilkes on 9266 2330 for more information on all of the above.

## CONFERENCES

*Crossing the Borders* was the title of the ASEG 13th International Geophysical Conference and Exhibition held in Hobart, Tasmania from 8-12 November 1998.

**Okoye, P., Uren, N.F., and McDonald, J.A.**, 1998, Accuracy and limitations of the near-offset P-wave NMO velocity estimation in transversely isotropic media: *Exploration Geophysics*, 29, 550-553.

**Urosevic, M., and Evans, B.**, 1998, Seismic methods for the detection of kimberlite pipes: *Exploration Geophysics*, 29, 632-635.

**Evans, B., and Urosevic, M.**, 1998, Mapping dykes using surface and downhole seismic methods: *Exploration Geophysics*, 29, 368-371.

**Hartley, B., Lie, O., and Uren, N.F.**, 1998, Computer algebra solutions for seismic models: *Exploration Geophysics*, 29, 402-406.

**Li, R., Okoye, P., and Uren, N.F.**, 1998, Inversion of velocity field and anisotropic elastic parameters for layered VTI media: *Exploration Geophysics*, 29, 477-483.

**Li, P., and Uren, N.F.**, 1998, The behaviour of Mise-a-la-Masse anomalies in an anisotropic half-space near a vertical contact: *Preview*, 76, 98.

**Sykes, M., and Das, U.C.**, 1998, Reduction of the layered earth response in transient electromagnetic data for mineral exploration: *Preview*, 76, 82.



*Norm Uren, Murray Hill, Deirdre Hollingsworth, John McDonald taking care of the Department's booth at the Conference*

## 4th SEGJ SYMPOSIUM - JAPAN

John McDonald and Milovan Urosevic attended the 4th SEGJ International Symposium held at Nihondaigaku-Kaikan, Ichigaya, Tokyo, Japan from 10-12 December 1998. John was Conference Co-Chairperson and Milovan was an invited speaker. Following are the papers given:

**McDonald, J.A., Urosevic, M., and Isherwood, M.**, 1998, Unexpected effects of complex anisotropy on P-waves: *Proceedings of the 4th SEGJ International Symposium*, 87-90.

**Urosevic, M., Evans, B.J., and McDonald, J.A.**, 1998, Seismic anisotropy of the south Sydney Basin: *Proceedings of the 4th SEGJ International Symposium*, 63-69.

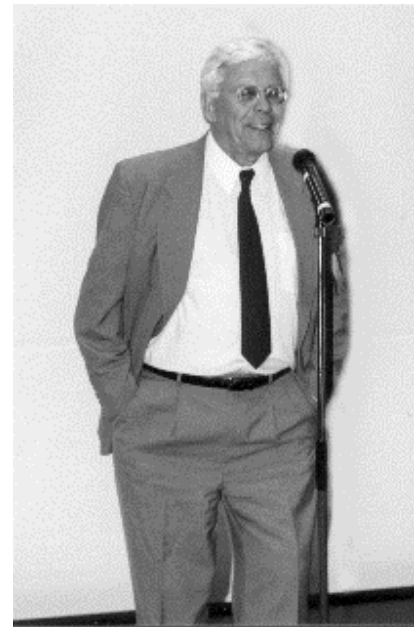


*Norm Uren with his Honorary Membership of the ASEG award*

A competition was held at the Convention at the Departmental booth. Helen Linha from Australian Seismic Brokers Pty Ltd was the competition winner. Congratulations Helen.



*Nick Eaton (ex Curtin Geophysics student) receiving second prize in the competition*



*John McDonald addressing the 4th SEGJ Symposium*

**NB** The next ASEG Conference will be held 12-16 March 2000 at the Burswood Dome in Perth, Western Australia. Please start getting your papers ready NOW.