



Geo-soundings

NEWSLETTER - JANUARY/MARCH 1996

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GRADUATION DINNER

About 45 staff and students attended the Graduation Dinner at the Trade Winds Hotel in Fremantle on Monday 27 November 1995. Some graduates were almost unrecognisable in semi-formal gear! Norm congratulated them all and wished them well.

All honours graduates have found positions.

STAFF

We welcome back John McDonald who has been working at the Allied Geophysical Laboratories at the University of Houston.

Professor Avihu Ginzburg visited from Tel Aviv University from mid October 1995 to 2 February 1996. During his visit Avihu undertook a revision of the Department's undergraduate course and presented a report of his recommendations. Negotiations also took place to establish a Memorandum of Understanding between Tel Aviv University and Curtin.

Dominic Howman was appointed to the position of Senior Technician. We look forward to a long association with him.

Jonathan Cocker has joined the staff for two years. He has also enrolled in an MSc.

Don Sherlock was a Research Associate for 3 months and has now enrolled to do a PhD. He received the 1995 *Homestake Honours Award* from UWA for the person most likely to make a significant contribution to the minerals or oil and gas industry.

Congratulations to Milovan and Nadia who are now the proud parents of a baby girl (Lara) born in December. What a great Christmas present!

FIELD TRIPS

Several field trips have taken place during last semester. Areas visited were Leinster, Singleton and Mackay. More are scheduled for this semester.

About thirty staff and students attended the First Year field trip to Fairbridge Farm in Pinjarra on 16/17 March. This included a visit to the Alcoa Refinery.

TEACHING

Total enrolments for 1996 are:

BSc (Geophysics)	102
GradDip	6
PostGrad Diploma	7
MSc (Geophysics & MMET)	14
PhD (Geophysics)	11

1995 Graduates were:

MSc Susan Downie

GradDip

Kanu Bhana	Chris Bishop
Bogdan Burmaz	Long Tan Dang
Lee Horn	Simon Kawagle
Dino Loschi	Timothy Osborne

BSc (Honours)

Dennis Anestoudis
Jonathan Cocker
Jeremy Cook
Dean Criddle
Tony Danzi
Nick Eaton
Chris Golding
Karl Hosgood
Chris MacHunter
Shane Wilkes

BSc

Kelvin Blundell
Stephen Carter
Wing Hon Chen
Owen Dyer
Michael Enright
Peter Johnson
Brett Lantzke
Gracjan Lambert
Lip Win Levin Lee
Christopher Manuel

BSc (cont)

Shane Carter
Jeremy DePledge
Grant Donnes
Matthew Lawrence
Sheryl Murphy
James Small

EQUIPMENT

People may or may not be aware that the Department of Exploration Geophysics occasionally hires equipment. Although we are not trying to establish ourselves as a hiring company, we are more than happy to help out companies that have problems locating equipment. The money raised is used to help with the maintenance of the equipment as well as offsetting the cost of new equipment. Inquiries can be directed to Dominic Howman at the Department of Applied Geophysics Curtin University on **351-2329**.

Patrick Boss should be contacted for Landmark equipment hire. His number is **351 7190**.

SUMMER SCHOOL

Curtin Geophysics took part in a new, AusIMM sponsored Summer School between January 14 and 25 this year. Curtin, Murdoch, UWA, and WASM combined to organise this summer school for 24 upper school age students from Adelaide, Albany, Alice Springs, Bunbury, Donnybrook, Mount Barker, Newman, Tom Price and Perth. These students were selected as high achievers and interested in careers involved with mineral exploration and mining. Brett Harris, one of our PhD students, spent the whole 12 day period with the students.

The Curtin Geophysics contribution was organised by Paul Wilkes. Two whole days were spent at Curtin looking at Geological and Geophysical activities ranging from magnetic and seismic fieldwork to image processing with ER Mapper software. All agreed that the summer school was a fantastic experience and should ensure more bright students to enter mining and mineral exploration when they have completed university study. Another Summer School is planned for 1997 when we expect to host up to 40 students.

TEL AVIV VISIT

On the way back from an SEG Executive Committee Meeting in Dallas Norm Uren visited the University of Tel Aviv. Hosted by Prof Dan Loewenthal, Norm gave the *Gordon Lectures* on seismic anisotropy, attended by postgraduate students and staff. He also gave a staff seminar at the University of Tel Aviv and at the Institute for Petroleum Research and Geophysics.

OTHER NEWS

John McDonald's ARC Large Grant Application *Improving Seismic Resolution Whilst Reducing Data Volumes* has been approved by R&D and sent to Canberra.

Brian Evans received an ASEG Research Foundation for \$4,700 for *3D Dip Prediction using a 3 Layer Physical Model*

Preparations have commenced for the APCRC 5 year review.

COMPUTING

The Department of Exploration Geophysics has recently set up a World Wide Web page. Information is available for prospective students, as well as details on research activities and facilities within the department. A separate page has also been included for schools students, as well as links to other internet sites that may be useful to Geophysicists.

If you would like to have a look the address is:

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

The Department has also recently purchased two SUN Xterminals to expand our Unix student lab to eight seats. This was made necessary due to the increased student demand during 1995.

The Landmark Research Bureau continues to operate, providing data loading and interpretation facilities on a Sparc 20/61 running Landmark's SeisWorks 2D and 3D. For information on rates please contact our Landmark manager on 09 351 3820

CONFERENCES

Patrick Okoye and Waluyo attended the 7th International Workshop on Seismic Anisotropy in Miami, Florida from 19-23 February 1996.

The following papers were presented:

Patrick N Okoye

Recovering the Elastic Parameters of a Multi-layered Transversely Isotropic Medium

Waluyo

P-Wave Anisotropy Estimation Based on Amplitude Response

Papers have been accepted by EAGE later this year (Vern Wilson, Umesh Das and Abolghasem Kamkar Rouhani)

Six papers will be presented at the Jakarta '96 International Geophysical Conference & Exposition in April/May. The papers are:

Waluyo, N F Uren, J A McDonald

Reflection amplitudes in transversely isotropic media with tilted axes of symmetry

D A Ebrom, J A McDonald, S A Markley

Physical Model Test of Reconstruction of Spatially Undersampled 3D Wavefields

A Kamkar-Rouhani, U C Das

Surface and Borehole Resistivity Measurements using the Two-electrode System in a Layered Earth

D H Sherlock, B J Evans, L B Harris

3-D Seismic Data of Sandbox Models

Patrick N Okoye, N F Uren

Influence of Anisotropy on Stacking Velocity and Depth Conversion

D A Ebrom, S A Markley and J A McDonald

Post-migration Lateral Resolution in Anisotropic Media