

Geo-soundings

NEWSLETTER APRIL - SEPTEMBER 1997

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EAGE CONFERENCE

The following people attended the 59th EAGE Conference and Technical Exhibition from 26-30 May 1997 in Geneva:

Bruce Hartley
Michael Sykes

Matt Lamont
Ping Li

Papers presented were:

Ghosh Roy, I., and Das, U.C., 1997, A new regularization technique for inversion of geophysical data: 59th Conference and Tech. Exh., European Association of Geoscientists & Engineers, Extended Abstracts, Vol. 1, F001.

Lamont, M., Hartley, B., and Uren, N., 1997, Attenuation of long period multiples in the Perth Basin Western Australia: 59th Conference and Tech. Exh., European Association of Geoscientists & Engineers, Extended Abstracts, Vol. 1, A009.

Hartley, B., Lamont, M., and Uren, N., 1997, Multiple move out wave field transformation for the elimination of water bottom multiples: 59th Conference and Tech. Exh., European Association of Geoscientists & Engineers, Extended Abstracts, Vol. 1, A014.

Li, P., and Uren, N., 1997, Analytical solution for direct current electrical potentials in a two layer anisotropic earth medium: 59th Conference and Tech. Exh., European Association of Geoscientists & Engineers, Extended Abstracts, Vol. 1, F021.

Sykes, M., and Das, U.C., 1997, Enhancement of electromagnetic signal of conductive mineral deposits: 59th Conference and Tech. Exh., European Association of Geoscientists & Engineers, Extended Abstracts, Vol. 1, P133.

APPEA CONFERENCE

Brian Evans, John McDonald, Norm Uren and Matt Lamont attended the Annual APPEA Conference, held in Melbourne from 13-16 April, and presented the following papers:

Lamont, M., and Uren, N.F., 1997, Multiple elimination using wavefield transformations off the coast of Western Australia: 1997 Ann APPEA Conf & Exh., Aust. Pet. Prod. & Explor. Assoc. Ltd., 37, 777-785.

Evans, B.J., and Urosevic, M., 1997, The remote detection of natural fractures for coal seam methane: 1997 Ann APPEA Conf & Exh., Aust. Pet. Prod. & Explor. Assoc. Ltd., 37, 801-809.

VISITORS/APPOINTMENTS

We welcome to our Department Nagendra Singh and Derek Woodward.

Dr Nagendra P Singh has joined the research group, led by Associate Professor Dr Umesh Das, as a Senior Research Fellow. He will be working on the AMIRA project P481 entitled *Three dimensional multicomponent electromagnetic interpretation*. The project has been sponsored through AMIRA, by MIM, Pasmenco, and North Limited.

Dr Derek Woodward is visiting the Department from the Institute of Geological and Nuclear Sciences, Wellington, New Zealand. During his two month sabbatical Derek plans to extend his work on three projects - modelling reflections from anisotropic poroelastic media, multiple suppression in marine surveys and computation of refraction statics for 3D land seismic surveys.

Mr Levin Lee was appointed as a Research Associate for the period 02/06/97 - 31/12/97 to assist the Computer Systems Manager, and undertake supporting teaching duties as required.

Mr Christopher Walton was offered an extension to his appointment, commencing 07/04/97 - 03/10/97. Chris will continue to work with Dr Brian Evans' research group.

Mr John Taylor, a consultant from Sydney, NSW and who has had a long association with the Department of Exploration Geophysics has been appointed as an Adjunct Associate Professor of Petroleum Exploration. This adjunct appointment is for a period of 5 years, commencing on 01/05/97 through to 30/04/2002.

COMPUTING

The programs ModelVision and EMVision have been purchased from ENCOM Technology. ModelVision is an interactive modelling package for use with gravity and magnetic data. EMVision is used for time domain electromagnetic data display, analysis and modelling. A 15 user licence has been obtained for ModelVision and a 10 user licence for EMVision, both of which will be used extensively in our teaching course. EMVision has been installed on the Windows NT network, while ModelVision has been installed on our UNIX network.

A single user licence for the program Temix-XL has been purchased from Interpex. This program is used for the interpretation of Electromagnetic data and has been installed on our Windows NT network.

The Department also recently installed WinDD from Tektronix. This software, running on an Intel PC, allows users on UNIX workstations to open a Windows NT desktop window on their UNIX machine. The main benefit will be the ability to cut and paste between UNIX and NT windows enabling students and staff to more effectively create reports.

APCRC WORKSHOP/ROTTNEST

85 people attended the APCRC Workshop held on Rottnest Island from Sunday 24 to Wednesday 27 August 1997. Guest speakers were Dr John Barker, Mr Nick Grollman, Mr Peter Jones, and Mr Vern Wilson. Dr Phil Playford also gave a very interesting talk about early Dutch wrecks, and the Great Devonian Reef of the Canning Basin.

All those who attended agreed that the venue was good and the Workshop was very successful.



Curtin Petroleum Geophysics staff at the Rottnest Lodge

RETIREMENTS

Mr Michael Seman has left the Department after 4 years service. We will still be seeing him around from time to time when he comes to keep our equipment in order.

OTHER NEWS

The Department of Exploration Geophysics is putting together a Year Book which will contain all published papers and journals for the year 1996.

ADVANCES IN EM MODELLING - VIDEO

Professor Michael Zhdanov visited Curtin Geophysics in July 1997 and presented a very instructive five day course on Advances in EM Modelling and Interpretation for Geophysicists from mining companies and universities. Professor Zhdanov is a leading expert in electromagnetics in mineral exploration and is the Director of the Consortium for Electromagnetic Modelling and Inversion (CEMI) at the University of Utah. This course was jointly funded by Curtin University and Western Mining Corporation.

The course at Curtin was video recorded and course notes and videos are now available to those unable to attend the course. The course manual and videos are available for \$450 per set and enquiries and orders should be addressed to: Paul Wilkes on T: 08 9266 2330, F: 08 9266 3407 or email: wilkes@geophy.curtin.edu.au

MMET COURSES

We completed four more courses in June / July 1997 : Advanced EM (led by Dr M.Asten and Prof J.Macnae), Borehole Geophysics (led by Dr E.Tyne and Dr J.Bishop), Regolith Geology (CSIRO scientists including Dr R.Smith and Dr I.Robertson) and Seismic Methods (led by Dr P.Hatherly, Prof J.McDonald and M. Urosevic). The next courses are scheduled for February / March 1998 and are planned to include: Orebody Models, Exploration Geochemistry and Radiometrics and Remote Sensing. All the courses are available both as part of the Masters degree program and as short courses. Dates and leaders will be advertised shortly. Enquiries and registrations for these should be addressed to: Deirdre Hollingsworth or Paul Wilkes at Curtin Geophysics.

HONOURS SCHOLARSHIPS

1998

The Department of Exploration Geophysics is offering:
APCRC Honours Scholarships for 1 year at \$7,500 each
and

CRC-AMET Honours Scholarships for 1 year at \$7,500 each

If you require any information please contact
Deirdre Hollingsworth on
(08) 9266-3565/3408) for information.

EXPLORATION GEOPHYSICS ALUMNI

We have had a number of suggestions that a Geophysics Alumni should be formed. This will enable graduates to keep in touch and meet other graduates from different years. If you are one of our graduates, and are interested in forming an Alumni please fill out the information slip below and post to Ms D Hollingsworth, or, call Deirdre on (08) 9266 3565

Name

Company

Past student/lecturer?.....

Know anyone else who needs to know this info?.....