

TO MEMBER COMPANIES



**AUSTRALIAN SOCIETY OF
EXPLORATION GEOPHYSICISTS**

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PREVIEW

INTRODUCTION

This volume No. 15 of PREVIEW is the first issue put out by the new A.S.E.G. Federal Executive in Perth. The new secretariat is based at the Chamber of Mines of Western Australia (Inc) and correspondence should be directed to 7th floor, 12 St George's Terrace, Perth, W.A. 6000.

Dr M. McElhinny was awarded the John Adam Fleming Award by the American Geophysical Union.

For your diary is a preliminary notice of the "John Haigh Memorial Dinner" which is scheduled for September 1988 in Adelaide. Anyone interested should contact Reg Nelson on (09) 274 7621.

Senior Lecturer, Hugh Doyle, of the Geology Department of the University of Western Australia is retiring. The A.S.E.G. sends him their best wishes for a long and happy retirement and would like to thank him for all the work he has done for the Society.

Laurence Hansen, who was formerly the Marine Data Processing Manager at Horizon Seismic Australia in Perth, has now moved to Melbourne to be the Processing Manager of Tensor Pacific Pty Ltd. Unfortunately Laurence had to give up his original post on the Executive Committee as Honorary Treasurer.

Noel Mattocks of Tesla-10 in Perth is about to go on a six month tour to Canada. Before leaving Noel asked if the Adelaide Conference committee had changed their theme from "Leave Nothing Unattempted" to "Leave Nothing"! Perhaps the Melbourne branch might have second thoughts about their theme on reading this.

1988/89 A.S.E.G. COMMITTEE

1988/1989 Office Bearers

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Education	Andy Mitchel
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Secretary Denny Rompotes
Treasurer Stewart Gunson

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President Cameron Astill
Vice President Lindsay Horn
Secretary Danny Burns
Treasurer Geoff Hines

1989 ASEG CONFERENCE AND EXHIBITION

Venue: HILTON HOTEL MELBOURNE

Date: 24-28 SEPTEMBER 1989

Theme: "PREDICTION WITH PRECISION"

More information on registration and a call for papers will appear in the next issue of PREVIEW.

THE PRESIDENT'S REPORT

By Eve Howell

NON EXCLUSIVE GEOPHYSICAL DATA

The SEG Professional Affairs Committee has recently raised the question of ethics involved in viewing broker seismic data. Whereas only relatively minor, non-exclusive seismic data is sold at present in Australia, the questions raised apply also to other non-exclusive geophysical data and Australian guidelines may have to be considered.

The concerns raised by the SEG relate to pre-sale examination of seismic data offered to brokers and others, whereby some sellers believe that examinations are being requested for a 'free look' at data where there is no intention of buying. In these cases the 'free look' may be being used for prospecting purposes. The Canadians and the CSEG, in particular, are extremely concerned with these problems and have set up a joint committee with the Canadian Geophysical Brokers Association to recommend a policy concerning data viewing procedures. Their recommendations for inspection procedures are as follows:

"The Client should not request a Quality Inspection (QI) unless the client is actually interested in purchasing the data.

When conducting a QI the client must extract only information relating to data quality - the client must not interpret the data. Activities during the QI which are UNACCEPTABLE, include:

- Making notes on anything other than general data quality and recording and processing parameters.
- Measuring the horizons, either by mechanical devices such as dividers or by

folding the sections for comparison purposes.

- Using the shot point map to define the geographic location of any seismic anomaly on a line.
- Asking the broker to leave a photocopy of sections or shot point maps.
- Asking the broker to reveal the name of companies who would not release data.

The broker, too, has responsibilities both to his client and to the seller, namely to:

- Provide his client with only that information required for the QI.
- Inform his client of the existence of all the available data of which he has knowledge, not just those lines which he would prefer to sell.
- Provide information regarding only those lines of the seller's data which he knows to be for sale.
- Protect the anonymity of his client."

THE ASEG WOULD LIKE TO HEAR THE VIEWS OF ITS MEMBERSHIP ON THE ABOVE ISSUE. IN PARTICULAR, COMPANIES INVOLVED IN THE SALE OF NON-EXCLUSIVE DATA SHOULD SUBMIT THEIR COMMENTS AND CONCERNS.

SECRETARIAT AND SUBSCRIPTIONS

The ASEG Committee has come to an arrangement with the Chamber of Mines of Western Australia (Inc) to use their services as Secretariat.

Paula Sinclair at the Chamber will be handling our affairs. We anticipate we shall continue to improve on the great efforts of Terry Crabb and Brackett Secretariat.

The transfer from Adelaide will be completed, hopefully, by the first week in August.

If you have not renewed your subscription please do so as soon as possible via P.O. Box 55, Eastwood, S.A. or, after August 1st, at the Chamber's address.

Terry Crabb remains on the Federal Committee as the Chairman of the Standing Committee on Publications.

Enquiries regarding "Exploration Geophysics" should be directed to him.



WAVELET DECONVOLUTION/ INVERSION WORKSHOP

The Victoria and West Australian branches are combining to hold a workshop in Melbourne, September 19th and 20th at the Hilton Hotel.

The workshop will address the requirements and objectives of the petroleum industry in the processes of wavelet deconvolution and inversion. Examples from both the petroleum companies and the geophysical contracting

industry will be presented and reviewed. An outline of the workshop is given below.

There are still places available for people to present case histories on these topics (approx 15 minutes using an overhead).

DAY 1

KEYNOTE ADDRESS

CAM WILSON, GSI,
BILL FRENCH, TENSOR PACIFIC

INDUSTRY OBJECTIVES

SELECTION OF SPEAKERS FROM THE
AUSTRALIAN PETROLEUM INDUSTRY

GEOPHYSICAL CONTRACTORS

CONTRACTORS TO REVIEW THEIR
PROGRAMMES AND THEIR TEST LINE
RESULTS

WORKSHOP

GROUPS TO ANALYSE THE
CONTRACTORS DATA SETS AND
COMPARE TO A SYNTHETIC/VSP

DAY 2

INDUSTRY EXAMPLES

CASE HISTORIES WHERE EXAMPLES OF
SUCCESSES/PROBLEMS HAVE ARISEN
FROM WAVELET PROCESSING

INVERSION PRINCIPLES

C. WILSON, B. FRENCH, C. RAMSDEN

INVERSION METHODS

CONTRACTORS TO REVIEW THEIR
METHODS OF INVERSION

INVERSION EXAMPLES/DISCUSSIONS

The price is \$140 and includes lunch for the two days. For further information contact Peter Grant on (03) 652 7209 or Charles Ramsden on (09) 364 8444.



**AUSTRALIAN ACADEMY OF
SCIENCE & JAPAN SOCIETY
FOR THE PROMOTION OF
SCIENCE EXCHANGE
PROGRAMME 1989/90**

The Australian Academy of Science invites applications from scientists resident in Australia who wish to participate in an exchange programme with the Japan Society for the Promotion of Science during the 1989/90 financial year. Proposals in any field of natural science will be considered. Support will not be given when the primary purpose of the visit is to attend a conference.

Short Term Visits: Senior scientists may apply for short term (3-6 weeks) lecture tours and/or fact finding visits. A specific itinerary should be developed in consultation with scientists in the universities and institutions to be visited.

For short-term visits the Academy provides APEX international airfares and the Japan Society for the Promotion of Science provides an allowance for living and travel expenses while in Japan.

Post Doctoral Fellowships. Long term (6-12 months) visits to carry out collaborative research projects are also funded. Applicants must have submitted their Ph.D theses or have their degrees. Preference will be given to scientists who have less than five years of post doctoral experience.

For fellowships, the Academy provides APEX international air fares and the Japan Society for the Promotion of Science provides remuneration.

Letters of invitation from Japanese scientists to be visited must be submitted with applications. Applicants must have principal hosts in Japan who will make detailed arrangements for their visits.

Selection criteria include: scientific merit of the proposal, contributions to the development of the scientific discipline, potential for expanding contacts and initiating collaboration between scholars of Australia and Japan.

Applicants are asked to state why the work they propose to do would best be done in Japan and to discuss how the work would benefit Australia.

The exchange programme is funded by the Australian Government and the Australia-Japan Foundation.

Application forms are available from:

International Exchanges Officer

Australian Academy of Science

GPO Box 783

Canberra, ACT 2601

Telephone enquiries: (062) 47 3966 Mrs Bonnie Bauld

Deadline for applications: 1 October 1988

**TECHNICAL STANDARDS
COMMITTEE - STATUS OF
ASEG-GDF**

Graham Pilkington of the South Australian Department of Minerals and Energy (SADME) recently visited the major aeromagnetic processing contractors in Sydney (Austirex, Engineering Computer Services and Pitt Research) to discuss a revised version of the ASEG-GDF software which addresses the problems inherent in the former version of the code.

Whilst the final results of testing have yet to be compiled, it appears as though these contractors, as well as Tesla-10 in Perth, are able to write a located data tape that conforms to the ASEG-GDF standard with only a modest increase in computing time, relative to the production of a conventional located data tape.

Subject to final agreement amongst the contractors on the suitability of the ASEG-GDF standard, it is proposed to advise the various State Geological Surveys and the BMR that the ASEG recommends the SADME standard defined in Graham Pilkington's publication "Magnetic Tape Format for Exchange of Airborne Data", (SADME Rept. Bk. No. 83/49) which is based on the ASEG-GDF, for the reporting of airborne geophysical data.