

AUSTRALIAN SOCIETY OF EXPLORATION GEOPHYSICISTS



Science Centre, 35-43 Clarence Street, Sydney N.S.W. 2000 Tel (02) 29 7747

8 October 1985

SEPTEMBER - OCTOBER NEWSLETTER

EDITORIAL

The 4th Geophysical Conference and Exhibition held in Sydney, 9th - 12th September, was a resounding success. There was a good representation from all fields of Geophysics and particularly the Oil Industry. A total of 512 delegates attended the Conference which is equivalent to just less than 50% of the ASEG membership. An attendance of which much larger societies would be envious.

The success of the Conference principally due to the great effort of the organisers. The Editor has taken the liberty to include an extract from the Bulletin (attached) which reads as an "Honours Role".

The prize for the "Best Paper" was awarded to Kuang Koo Sing (Delhi) who delivered a paper entitled: "History and style of the Cooper-Eromanga basin structures". A prize for the "Best Presentation" went to Ted Tyne (NSW Geological Survey) for a paper on: "A high resolution borehole IP logging systems", which was co-authored by M. Thornburn and D. Daggar also of the Geological Survey of NSW.

A Prize was also given for the "Best Exhibition" to Nortech Surveys (Canada) Inc., won with assistance of some attractive young ladies. No one can complain about their hospitality.

The ASEG Medal was awarded for the first time. It was awarded posthumously to Laric Hawkins and presented to his widow at the Conference Dinner. The Medal was awarded for distinguished service to Geophysics in Australia.

Members can only look forward to the 5th Geophysical Conference and Exhibition in Perth (1987); to be held immediately after the "Americas' Cup" yacht race.

Peter Elliott
Honorary Secretary.

1985 ASEG PRE-XMAS RELEASE

The South Australian Branch Committee of ASEG is pleased to announce the re-release of the 1985 ASEG wines with the ASEG label.

DRY WHITE

A 1984 Rhine Riesling by Douglas A. Tolley Pty Ltd. This wine is made from Rhine Riesling grapes from the Barossa Valley and Qualco in the Murray Valley. It has not been shown but is very similar to the Tolley's Black label Rhine Riesling which has won numerous show awards in the previous years.

WINEMAKERS COMMENTS:

"The grapes for this wine were picked when optimum varietal flavour had developed. Careful blending from two districts has produced a wine exhibiting the elegant flowery character of Rhine Riesling with a finish that is clean and well balanced".

Your committee considered this the best white wine from a total of nine which were submitted for appraisal. It is a pleasant, easy drinking wine with good fruit character and a crisp, clean finish. It is excellent value at \$33.00 per case, delivered to any capital city in Australia.

RED

A 1983 Vintage Shiraz Cabernet by Penfolds Wines Pty Ltd. This wine is made from a blend of shiraz and cabernet sauvignon grapes from Coonawarra and the Barossa Valley. It has not been shown but your committee considered it the best red wine from a total of eight which were submitted for consideration. It is described as "a well balanced dry red showing pleasant fruit/oak flavour". It is suitable for drinking now and should improve in the bottle for two to three years. It is excellent value at \$36.00 per case, delivered to any capital city in Australia.

JACOB'S CREEK CLARET/RIESLING

Also available are the well known Jacob's Creek 1983 Claret and 1985 Riesling at only \$36.00 per Case.

Orders with cheques, must reach Mr Nick Sheard, C/- 21 The Broadway, Glenelg SA 5045. Telephone: (08) 294 8319, in Adelaide by 4 November 1985. Deliveries will be completed during November/December.

An excellent chance to obtain your ASEG wine before the Xmas rush. An ordering form has been enclosed.

ASEG NEW MEMBERS

The following members are welcomed as new members of the ASEG.

Corporate Member: Richard Foot Pty Ltd.

Active Members: Charles Edward De Broin, Alan James, Mark Dunn, Kenneth Chapple, Roger Watson, Eugene Urschel, Clive Rubens, Paul Lortie, Morzuhi Sani, Edward Wronski, Cameron Astell.

Associate Members: Simon Watson, Jacques Sayers, Anthony Spenceley, Raymond Teakle, Karel Driml, Elaine Batton.

Student Members: Simon Stewart, Stephen Abernethy, Tracey Kerr.

Australian Society of Exploration Geophysicists

4th Geophysical Conference and Exhibition

Venue

Hilton International Sydney, 259 Pitt Street, Sydney

Conference Committee

Joint Chairman

Roger Henderson

Geometrics International Corporation

Joint Chairman

Peter Gidley

CSR Ltd. Minerals Division

Secretary

Heather Lemaire

Macquarie University

Exhibition

Tim Pippett

Geometrics International Corporation

Technical Programme

Peter Gunn (Chairman)

Australian Aquitaine Petroleum Pty Ltd

Joe Odins

Water Resources Commission NSW

Phil Cooney

Esso Australia Ltd

Don Emerson

University of Sydney

Conference Issue Editors

Don Emerson

University of Sydney

Peter Gunn

Australian Aquitaine Petroleum Pty Ltd

Publicity

Roger Henderson

Geometrics International Corporation

Finance

Steve Webster

Geological Survey of NSW

Workshops

Dave Johnson

Macquarie University

Stephen Greaves

Hartogen Energy Ltd

Transport and Accommodation

Stephen Greaves

Hartogen Energy Ltd

Social and Spouses' Functions

Ted Bowen

Robertson Research Pty Ltd

Sponsorship

Dave King

Hartogen Energy Ltd

Steve Webster

Geological Survey of NSW



AUSTRALIAN SOCIETY OF EXPLORATION GEOPHYSICISTS

Victorian Branch

DOWNHOLE EM WORKSHOP

MELBOURNE DECEMBER 2-3, 1985

INTRODUCTION

During the last few years downhole transient electromagnetic (DHEM) methods have been increasingly utilized in exploration for conductive massive sulphide mineralization, particularly at depth or in areas where high surface conductivities decrease the effectiveness and depth of penetration of surface EM surveys.

Despite the now common usage of the technique, relatively few case histories have been published, particularly of surveys in areas of conductive overburden typical of much of Australia. Also interpretation tends to be complex and few practitioners would claim to fully understand all the perturbations on their DHEM profiles, despite the development of increasingly sophisticated analogue and computer modelling techniques.

OBJECTS

The aims of the workshop are to:-

- (1) Bring together geophysicists who are involved in the design, execution and interpretation of drill hole EM surveys.
- (2) Assess the state of the art through presentation of a number of case histories in areas of known mineralization.
- (3) Discuss interpretation problems such as the effects of conductive overburden, current channelling, multiple conductors etc.
- (4) Evaluate interpretation procedures, including the use of analogue model suites and computer forward modelling and inversion programs.
- (5) Explore ways of improving the design of surveys such as multiple surface transmitter loop positions, placement of loops relative to the conductor, size of loops etc.
- (6) Produce a list of problems requiring further research and/or development.

PROGRAMME

Over the 2 day period of the workshop it is intended to accommodate formal case histories and interpretation studies as well as a relatively informal series of workshop sessions. It is anticipated that the case histories will include Hellyer, Thalanga, Broken Hill, Agnew and Scuddles.

PUBLICATION

The organising committee plans to produce a compendium of material presented at the workshop, as a useful summary of the state of the art to be made generally available. Therefore participants will be encouraged to provide full papers, extended abstracts or brief technical notes which can be reproduced by direct photocopying. (Confidential data may be excluded at the discretion of participants).

ATTENDANCE (LIMITED TO 30)

The success of the workshop will depend on the willingness of the participants to present and discuss field data, particularly "problem" data where interpretation is difficult or inexplicable. Attendance is limited to 30; therefore preference will be given to geophysicists who commit to contributing either field data or modelling/interpretation studies to the workshop.

COST

Each participant will be charged \$100, to cover the cost of meals, venue costs etc.

ORGANISING COMMITTEE

<u>Convenor</u>	Tom Eadie, Aberfoyle	Tel. (03) 82 2226
	Guido Staltari, G.E.C.	" (03) 459 0533
	Dick Irvine, B.H.P.	" (03) 813 3666

APPLICATION TO REGISTER

Send no money. Deadline October 15, 1985.

NAME:

COMPANY:

ADDRESS:

(Tel.)

PROPOSED CONTRIBUTION:

MAIL TO:

T. Eadie,
Convenor, Downhole EM Workshop,
c/- Aberfoyle Expl. Pty. Ltd.,
144 Camberwell Road,
HAWTHORN EAST, VIC., 3123.

Tel: (03) 82 2226

Please send all orders to:

Mr N. Sheard
C/- 21 The Broadway
GLENELG SA 5045

REMIT TO: ASEG WINE CLUB

Telephone: (08) 294 8319

PLEASE SUPPLY:

- Case(s) of Dry White @ \$33.00 per Case \$ _____
 - Case(s) of Red @ \$36.00 per Case \$ _____
 - Case(s) of Jacobs Creek
Claret @ \$36.00 per Case \$ _____
 - Case(s) of Jacobs Creek
Riesling @ \$36.00 per Case \$ _____
- TOTAL \$

NAME: _____

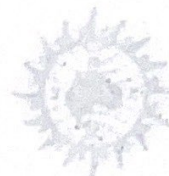
ADDRESS: _____

TELEPHONE.: _____



INTERNATIONAL CORPORATION (Registered in N.S.W.)

18 GERTRUDE STREET, ARNCLIFFE, SYDNEY, N.S.W. 2205 AUSTRALIA.
TELEPHONE (02) 597-4544 • TELEX AA 22624 GEOSYD



SIROTEM USERS WORKSHOP

If there is sufficient interest, Geometrics would like to sponsor workshops for SIROTEM users. These could be a venue for discussion of interesting or unusual results that ought to be shared amongst all SIROTEM users. The workshop could also be a forum for examining different ways of carrying out field work.

Geometrics would provide meals and refreshments throughout the day and otherwise sponsor the meeting venue costs. No sponsorship can be made however for travel or accommodation for any of the participants.

I would like to have your expression of interest and other ideas so that we can start some planning. One suggestion was to hold the first workshop in conjunction with the already proposed downhole EM workshop in Melbourne December 2-3. The Wednesday 4th December could be a possible time. Otherwise meetings could be held in conjunction with appropriate AMIRA/CSIRO project meetings in Sydney such as Geophysical Modelling (Art Raiche). Please indicate your preference for either and also your thoughts on how these workshops should be organised.

I look forward to your reply which could be made at the bottom of this notice for convenience.

I am in favour of:

- ☐ workshop to be held in conjunction with downhole EM workshop in Melbourne, 4th December.
- ☐ workshop in conjunction with AMIRA/CSIRO project meetings. (next in Sydney in March 1986).
- ☐ other times _____

Other comments and suggestions: _____

Name/company: _____

ROGER HENDERSON

Vice President



AUSTRALIAN SOCIETY OF EXPLORATION GEOPHYSICISTS

N.S.W. BRANCH

Since the federal executive has moved to Adelaide, we need to formulate a separate N.S.W. branch.

At the recent ASEG Conference and Exhibition a meeting was called to discuss the matter and reached the following conclusions:

1. Meetings should be held regularly once a month on a specific day of the week regardless of whether a speaker is available or not for the purpose of socialising professionally. Extra meetings can be held to catch speakers who are not available on the regular date.
2. The venue should perhaps alternate between one on the north side and another on the south side of the bridge. The Kirribilli Yacht Club has been suggested as a possible venue on the north side.
3. The time of day could be either for lunch or at 5 pm or alternating each month between these two.
4. It was also resolved to hold the Christmas Party in conjunction with PESA.

To start off proceedings the first technical meeting will be given by Mike Smith of Esso Minerals, talking about his experiences in conducting ground and airborne geophysics in Spain, Germany and Scotland.

Finally, nominations are now being called for the positions of President, Vice-President, Secretary and Treasurer of the NSW Branch. Please provide your nominations to Steve Greaves of Hartogen Energy.

Please state your preferences below and return this part of the form to Roger Henderson at Geometrics, 18 Gertrude Street, Arncliffe, 2205.

1. Preferred day of the week _____
2. Preferred week of the month _____
3. Preferred venue _____
4. Preferred time:
☐ lunchtime ☐ 5 pm ☐ alternating
5. Other (helpful) suggestions _____

Name/company _____

S.A. BRANCH

NEXT MEETING

A meeting will be held at:

VENUE: AMF Annexe, Conyngham Street, Glenside.

TIME: 6.00 pm, 10 October 1985.

SPEAKER: Mr Bruce Webb, Managing Director of the Poseidon Group of Companies.

Chairman of AMDEC Board of Management.

Chairman of BMR Advisory Council.

Vice-President S.A. Chamber of Mines.

President (elect) Aus. I.M.M. and also on the Board of the S.A. Oil and Gas Company.

TOPIC: "Land Access - An Explorationist Viewpoint"

This promises to be a fiery evening on a very controversial topic but don't forget about meeting other members at the beginning and end of the meeting. Drinks and snacks are provided for a minimal fee.

CHRISTMAS PARTY

The Christmas Party will be held at the Presidents (Jim Allender) private home on: 11th December, starting at 6.00 pm.

A barbecue and drinks will be provided for a small charge.

(to be announced).

ANNOUNCEMENTS

SEG HONORARY MEMBERSHIP

The ASEG is pleased to announce that (Professor K. Vozoff) has been nominated for Honorary Membership of the SEG. This is the first time that nomination for Honorary Membership has been received by a member of the ASEG.

LARIC HAWKINS SCHOLARSHIP FUND

Members interested in supporting a "Laric Hawkins Scholarship Fund" should contact the ASEG Secretary as soon as possible, (P.O. Box 44, Eastwood SA 5063).

Corporate Members are particularly invited to contribute.

GEOPHYSICAL CONFERENCE CHINA - CALL FOR PAPERS

The Geological Society of China is calling for papers to be presented at:

"2ND SYMPOSIUM IN EXPLORATION GEOPHYSICS"

to be held: 14th - 19th October 1986.

The call for papers closes on 31st October 1985.

Papers should be sent to:

Mr Chen Yunsheng
Institute of Geophysical &
Geochemical Exploration
Langfang, Hebei
CHINA

The Conference will be held at XI'AN.

FORTHCOMING EVENTS

AUSTRALIAN GEOSCIENCE COUNCIL - SEMINAR

The AGC is holding a seminar on the 29th November, entitled:
"Tertiary Geoscience Education in Australia"

The seminar will be held at the University of NSW (Applied Science Building, Lecture Theatre L).

Guest speakers will include:

Professor Govett (University View)

Dr Tim Hopwood (Mining Industry View)

Mr Hugh Rutten (Geophysics View)

Other speakers will be invited to present additional views (e.g. Oil Industry, Government etc.).

11TH ANNUAL CONVENTION AND SEMINAR ON EXPLORATION

GEOPHYSICS - INDIA

The Association of Exploration Geophysics (AEG - India) in conjunction with Oil India Ltd, and Department of Geology, Utkal University, are organising the:

"11th Annual Convention and seminar on Exploration Geophysics for 22nd - 24th November 1985"

The International Symposium on:

"Deep Seismic Sounding Traverses"

organised jointly between the AEG and National Geophysical Research Institute (NGRI). Also for the 22nd - 24th November 1985.

Contact Secretary: AEG Centre of Exploration Geophysics
Building, Osmania University,
Hyderabad 500 007, India.

BY: 15th October 1985.

COMING EVENTS

48th MEETING AND TECHNICAL EXHIBITION - BELGIUM

ORGANISERS: European Association of Exploration Geophysics

LOCATION: Ostende, Belgium

DATE: 2nd - 6th June 1986

2ND SYMPOSIUM IN EXPLORATION GEOPHYSICS - CHINA

ORGANISER: Commission of Exploration Geophysics
Geological Society of China

LOCATION: Xi'an, China

DATE: 14th - 19th October 1986

(See Announcement)

ADVERTISERS

Where are You???