



AUSTRALIAN SOCIETY OF EXPLORATION GEOPHYSICISTS

P.O. Box 44, Eastwood, S.A., 5063

MAY - JUNE NEWSLETTER

JUNE, 1986. No. 4

*** PREVIEW ***

(ASEG NEWSLETTER)

5th GEOPHYSICAL CONFERENCE AND EXHIBITION

The deadline is approaching for authors wishing to submit a paper at this Conference. The "Call for Papers" closes on the 30th June, 1986. More details can be obtained from the loose leaf enclosed with this Newsletter.

An invitation to Exhibitors will be released shortly by the Conference Committee. It is expected that exhibition booths will fill very quickly as they did in Sydney last year.

A number of Workshops will be held in conjunction with the Conference on the weekends preceding and following it. On the preceding weekend (20 - 21 February) the following two Workshops will be held :-

- Seismic Refraction in Exploration - Dr. D. Palmer
- Aeromagnetism

On the weekend immediately after the Conference:

- Seismic Sections from W.A. Petroleum Reservoirs - Dr. M. Middleton
- Gold

Negotiations are presently underway to organise a Workshop on the train over to Perth.

An additional Workshop will be held on the Friday of the Conference week entitled:

"Personal Computers in Exploration".

The expected costs to delegates attending the Conference are:

Members:	\$250
Student Members:	\$ 80
Non-Members:	\$285
Student Non-Members:	\$ 90
Associate Delegates & Spouses:	\$100

These costs will include the Conference and Exhibition, Cocktail Parties and Conference Dinner. A Registration Form will be distributed shortly.

*** BRANCH NEWS ***

New South Wales Branch

Recent Meeting: "Dip Moveout and Migration"
Speakers: Geoff Mansfield and John Wardell, GSI
Held on: 12th June 1986, Rugby Club, Sydney

Unemployed Geophysicists: The Australian Institute of Geoscientists (AIG) maintains a register of unemployed geoscientists. The NSW contact for the register is:

David Jones: (02) 240.4199

Seismic Migration: The NSW Branch is considering publishing Les Halton's course notes on Seismic Migration. Members interested in this publication should express their interest through the Branch President: Andrew James (02) 957.3103.

West Australian Branch

SEMINAR:

A Seminar was held on the 12th June 1986 entitled:

"Recent Developments in Electrical Methods for the Mining Industry"

presented by: Dr Gerry Hohmann, University of Utah.

The Seminar included discussions on IP and EM in mineral exploration. Time domain EM was discussed in detail, followed by a discourse in TDEM numerical modelling results which are currently being obtained by workers at the University of Utah.

Technical Meetings

Thursday, 3rd July (5.15 p.m.)

WAIT

"GPS, What is it and how does it work ?"
by Owen West, Lecturer in Surveying at WAIT.

Monday, 21st July (5.00 p.m.)

WAIT

The 1986 Esso Distinguished Lecturer, Prof. Perry Roehl, will deliver a lecture entitled:

"Petrophysical attributes of Carbonate Rocks"

Monday, 28th July (5.00 p.m.)

Mines Dept. Theatre

"3-D Seismic Data Processing"
by Bob Geoffrey of Digicon.

West Australian Branch (cont'd)

The WA Branch would like to thank previous speakers, Prof. D. Russell, University of British Columbia; Steve Tobin, Geosystems; Neville Beston, Woodside; Steven Bengert, Teknica and Prof. Gerry Hohmann, University of Utah.

Committee Meeting

The next WA Committee Meeting will be held at Woodside at 12.15 p.m. on the 1st July 1986.

Graham Sands Award

A total of \$2750.00 has now been accrued for this Award. Contributions are presently: D. Lyus (\$25), B. Peters (\$100), CRA (\$1,000), P. Staples (\$500), A. Mutton (\$50), and A. Lebel (\$25).

Other members are invited to send contributions to: GPO Box F369, Perth, W.A. 6001, marked to ASEG - Sands A/c.

Queensland Branch

The next meeting will be held on Tuesday, 17th June. The Guest Speaker will be: Dr. David Denham, BMR, who will deliver a presentation on

"Stress Patterns in the Australian Continent".

Further details - Branch Secretary: R. Cuthbertson (07) 224.4870.

Victorian Branch

Downhole EM Publication: The downhole transient EM publication, resulting from a seminar held last December, is taking its final form. It will be produced in the September issue of "Exploration Geophysics".

Next Meeting: To be held on Tuesday, 1st July.

Title: "Geophysics for Gold in Witwatersrand Basin of South Africa"
by Keith Jones.

A lunchtime meeting will also be held on the 23rd July.

Personal Announcement

Jovan Silic has returned from overseas and rejoined Aberfoyle as Chief Geophysicist.

Frank Fritz has moved to Melbourne and is working as a Geophysical Consultant.

*** COURSES ***

COURSES BY GEOTRAN INC.

Geotran Inc. will be running a number of courses in Sydney. They are:

"Seismic Field Techniques" - August 25 - 29, 1986. Fee: \$975.

"Effective Seismic Data Processing" - September 1 - 5, 1986. Fee: \$975.

"Advanced Seismic Data Processing" - September 8 - 10, 1986. Fee: \$670.

The Course Instructor is Henry R. Espey, President of Geotran.

For further details contact Geotran Inc. Ph: (713) 468.6260 or Telex: 880929 GEOTRAN. 12903 Trail Hollow, Houston, Texas 77079, USA.

AMF COURSES

There are a large number of useful courses run by the AMF (Australian Mineral Foundation) offered to Geophysicists, Geologists and Engineers. A 1986 Services & Syllabus Booklet may be obtained from:

Australian Mineral Foundation
P.O. Box 97,
GLENSIDE, SA 5065
Ph: (08) 79.7281 Telex: AA87437

*** GENERAL ***

E.M. MANUAL

The South African Geophysical Association (SAGA) have published a manual on the Electromagnetic Method. It consists of 302 pages including chapters on basic theory for both frequency and time domain; profiling; sounding natural field methods; borehole methods; and airborne methods.

It is very well illustrated and should be on every geophysicist's shelf.

Copies are available in Australia from:

Roger Henderson
C/- Geometrics International Corp.,
18 Gertrude Street
ARNCLIFFE NSW 2205
Ph: (02) 597.4544

The price is \$50.00 each plus postage.

*** CALENDAR OF EVENTS ***

AUSGRAPH '86, 7-11 July 1986, International Computer Graphics Conference & Exhibition, Sydney, Australia.

Contact: The Congress Secretariat, PO Box 29, Parkville, Victoria, Australia 3052.

**** CALENDAR OF EVENTS (cont'd) ****

AMPLA '86, 9-12 July 1986, Australian Mining and Petroleum Law Association Limited, 10th Annual Conference, Melbourne, Victoria.

Contact: Ms. A. Rosenthal, Executive Officer
AMPLA, 8th Floor, 160 Queen Street
Melbourne, Victoria, Australia 3000
Ph: (03) 67.2544 Telex: AA35307

GEOCONGRESS '86, 7-11 July 1986, An International Earth Sciences Congress, Johannesburg, South Africa.

Contact: The Symposium Secretariat S.339
CSIR, P.O. Box 395
Pretoria, South Africa 0001

CHINA '86, 14-19 October 1986, 2nd Symposium in Exploration Geophysics, XI'AN, China.

Contact: ASEG Secretary, Ph: (08) 274.7619, Mr T. Crabb

SEG, 56th Annual International Meeting, 2-6 November 1986, Houston, Texas USA.

Contact: 1986 SEG Annual Meeting (Houston)
Society of Exploration Geophysicists
P.O. Box 702740,
Tulsa, OK 74170-2740, U.S.A.

56th ANZAAS Congress, 26-30 January 1987, "Science in a Changing Society", Palmerston North, New Zealand.

Contact: Organising Secretary, Dr Michael Baxter
Massey University,
Palmerston North, New Zealand
Ph: (063) 69.009

ASEG Conference, 22-26 February 1987, 5th Geophysical Conference and Exhibition, Perth, Western Australia.

Contact: Golden West Travel Pty Ltd
P.O. Box 411, West Perth, W.A. 6005
Ph: (09) 322.7922 Telex: AA95380

Registration Forms will be available in July 1986.

SEPM Fourth Annual Mid-Year Meeting, 20-23 August 1987, Austin, Texas. Society of Economic Paleontologists and Mineralogists.

Contact: Dr Robert A. Morton, General Chairman
University of Texas at Austin
Bureau of Economic Geology, University Station
Box X, Austin, Texas
Ph: (512) 471.1534 Telex: 78712

PACIFIC RIM Congress '87, 26-29 August 1987, "The Geology Structure, Mineralisation and Economics of the Pacific Rim, Gold Coast, Australia.

Contact: Congress Secretariat
P.O. Box 731
Toowong, Queensland, Australia 4066
Ph: (07) 371.7900 or (617) 371.7900



AUSTRALIAN SOCIETY OF EXPLORATION GEOPHYSICISTS

P.O. BOX 44, EASTWOOD SA 5063

MINUTES OF THE 1986 ANNUAL GENERAL MEETING OF THE AUSTRALIAN SOCIETY OF EXPLORATION GEOPHYSICISTS INCORPORATED

The Meeting was held at The Abbey Restaurant, 84 King William Road, Goodwood, S.A. on the 17th April 1986. It commenced at 5.20 p.m.

1. APOLOGIES

Prof. D. Emerson, Mr S. Greaves, Mr J. Allender.

2. MINUTES OF THE 1985 ANNUAL GENERAL MEETING

These Minutes were circulated with the May '85 Newsletter and accepted as read. Doug Roberts moved that the Minutes be accepted as correct; seconded by Andy McGee and passed.

3. MATTERS ARISING FROM THE MINUTES

There were no matters arising.

4. PRESIDENT'S REPORT

The President's Report was delivered by the outgoing President, Reg Nelson. A copy is attached.

5. SECRETARY'S REPORT

The Secretary's Report was delivered by the outgoing Secretary, Peter Elliott. A copy is attached.

6. TREASURER'S REPORT

The Treasurer's Report was delivered by the outgoing Treasurer, Terry Crabb. A copy is attached.

7. EDITOR'S REPORT

The Editor's Report was delivered by Terry Crabb on behalf of Don Emerson. A copy is attached.

Reg Nelson asked the members present to consider the Reports covered in items 4-7 for acceptance.

John Haigh moved that the Reports be accepted; seconded by Stewart Greenhalgh. Passed.

8. PUBLICATION'S COMMITTEE REPORT

The Publication's Committee Report was delivered by Terry Crabb. Terry noted that the Standing Committee was formed in August 1985. A copy of the Report is attached.

9. STANDARDS COMMITTEE REPORT

John Haigh delivered the Standards Committee Report. He made the following points:

- 9.1 The ASEG should obtain a Personal Computer (PC) to handle the Membership Database. Negotiations had been held with IBM during 1985 but the IBM PC which was verbally offered did not eventuate.
- 9.2 The ASEG-GDF software implementation has been issued in a number of revisions, the latest of which was in March. It was a little expensive to run due to intensive error checking. The latest implementation suppresses error checking. The run time has been decreased by a factor of four.

There will be a Seminar held at McLaren Vale in April which will include representatives from Government, Companies and Contractors. The Seminar is aimed at formalizing the submission of digital data to Government Departments with the ASEG-GDF software acting as a focal point.

There are presently three standards to be considered. These are SEG Y (seismic data); LIAS - Schlumberger (well log data); and ASEG-GDF (airborne data, electrical data, and gravity data).

10. CONFERENCE COMMITTEE REPORT

- 10.1 Preparations for the 5th Geophysical Conference to be held in Perth in February 1987 are well underway. The Conference Chairmen are Greg Street and Norm Uren. Golden West Travel Pty Ltd have been appointed as Conference Secretariat. Negotiations are underway with Swan Exhibitions to handle the Exhibition organisation. A "Call for Papers" has been released and will be handled by the Technical Papers Committee consisting of: Peter Staples, Mike Middleton, Don Pridmore, Norm Uren, Eve Howell, Terry Allen and Vern Wilson.
- 10.2 A joint ASEG/SADME Seminar on the submission of digital data to Government Departments will be held in April and is being organised by John Haigh (see Item 9.2).

11. ELECTION OF OFFICE BEARERS

Reg Nelson announced that in the absence of any other nominations the following members be elected as office bearers:

President:	Bob Smith	(CRA)
1st Vice President:	Peter Elliott	(Billiton)
2nd Vice President:	Paul Hummel	(Norpac)
Honorary Secretary:	Terry Crabb	(SADME)
Honorary Treasurer:	Ian Edwards	(WMC)

Don Emerson has agreed to continue on as Editor of "Exploration Geophysics" and John Haigh will continue on as Chairman of the Standards Committee. Other members involved in Standing Committees are listed in the President's Report (Item 4.0). The members listed above were elected unanimously.

12. APPOINTMENT OF AUDITORS

Lawrence and Varney have submitted notice of resignation as Auditors to the ASEG.

Parker, Lithgow and Gibson were nominated as the new auditors to the ASEG Inc.

Kim Francombe moved that they be accepted as Auditors. Seconded Robin Gerdes. Passed.

13. DIRECTOR'S REPORT

A Director's Report to the members prepared by Terry Crabb, and signed by Reg Nelson and Terry Crabb is attached.

14. GENERAL BUSINESS

- 14.1 Terry Crabb informed the meeting that the Science Centre remains the Registered Office of the ASEG in Sydney to satisfy the NSW Company Law Act.

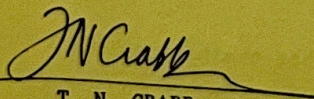
It was moved by John Haigh that Steve Greaves continue as the Assistant Secretary, also to satisfy the requirement of a Company Secretary to be resident in Sydney. Seconded Rick Micenko. Passed.

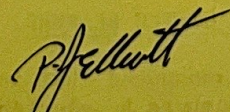
- 14.2 Stewart Greenhalgh asked about intentions regarding a Personal Computer for expediting the movement of the Executive.

Reg Nelson responded that the Delhi VAX was currently being used for the membership database and that attempts will continue to obtain a PC.

- 14.3 Andy McGee enquired about intentions regarding a permanent secretariat. Reg Nelson remarked that this situation was under review.

Reg Nelson finally thanked the Executive Committee for their efforts during the year and closed the meeting at 6.20 p.m.


T. N. CRABB
Secretary


P. J. ELLIOTT
1st Vice President

PRESIDENT'S REPORT - 1985/1986

1. Introduction

The Executive year 1985/86 marked the first time the administration of the ASEG moved from Sydney.

It is intended that it rotate from State to State (including Territories) on a regular basis, now defined by general assent by all Branches to be for a 3 year term in each State.

The year could also be described as the year when several nettles were grasped. As a result, I hope that I can now give an objective view of the state of the Society.

2. State of the ASEG

The ASEG can be described as healthy and thriving in spirit, and moving closer to a better and more practical balance between soft and hard rock approaches. Certainly the successful Sydney Conference and Exhibition attests to this fact.

However, our financial state has only moved from a parlous condition at the end of 1984/85 to one of precariously delicate health. In both years our salvation has been from the profits of conferences. We must, however, face the fact that conference profits can never be guaranteed: Indeed, sooner or later, we must anticipate a conference loss.

The bulk of the Society revenue, excluding profits from conferences, comes from personal membership subscriptions. It has been instructive to examine revenue on a per member basis.

The table below gives a quick appraisal of the years 1984/85 and 1985/86. In each year, for example, income from personal membership plus other* sources has only just balanced the cost of publishing 'Exploration Geophysics', leaving a residual expenditure (secretariat plus other) of approximately \$34/member to be met by conference income. In 1984/85, this was insufficient, and the Society recorded a loss of \$19,848. We were fortunate that the dedication of the 1985 Conference Committee yielded a considerable profit, resulting in a 1985/86 excess of revenue over disbursements of \$13,120.

<u>INCOME/MEMBER</u>				<u>EXPENDITURE/MEMBER</u>		
<u>Year</u>	<u>Personal Dues</u>	<u>Other*</u>	<u>Conference</u>	<u>Secretarial</u>	<u>Publications</u>	<u>Other</u>
1984/85	\$25.00	\$14.00	\$12.89	\$25.47	\$38.83	\$12.89
1985/86	\$35.00	\$13.41	\$50.71	\$20.47	\$49.40	\$14.64

Other*: Excludes conference, but includes corporate members, bank interest, etc.

Our major concern as a committee this year has been to address the two areas of major expenditure - the secretarial service provided by the Science Centre and the publication of 'Exploration Geophysics'.

3. Secretarial Service

At the combined Federal - State Executive meeting held in September, 1985, an overwhelming majority voted that our dealings with the Science Centre be heavily curtailed by the end of 1985.

This has been effected. At present, the bulk of the secretarial work is being provided by a dedicated group of volunteers in Adelaide at a considerable saving in cost.

It must be stressed that this is only an interim measure. The ASEG is now of a size which dictates the need for a professional secretariat. What should be our main concern is to ensure that when this decision is made, we get value for money and a truly professional service.

It is pleasing to record that at long last we now have our membership records as a computer data base. For this, ASEG members should thank Delhi Petroleum Pty. Ltd., and Jim Allender and Joan Scott in particular.

A particularly heavy load fell on the Society's Secretary, Peter Elliott, whose enthusiasm and dedication have known no bounds.

4. Publications

As in previous years, our Honorary Editor, Don Emerson, has soldiered on under an increasing load. The Executive Committee felt it was our duty to provide at least some relief by shouldering the responsibility of the financial decisions of the publication.

Andrew James' acceptance of the position of Business Manager ; and his zeal and dedication are here gratefully recorded.

The Publications Standing Committee was set up in August, 1985, to coordinate all the Society's publications, reassess the contract with the publisher, and to establish a firm policy and set of guidelines for future Executives to follow.

This committee determined that the current publishing contract was financially untenable, as it placed no incentive on the publisher to reduce costs and increase income. Under the terms of the contract, the ASEG was committed to the publisher for 12 months even after notice of cancellation was served.

The actions taken by the Executive were:

- a) to cancel the current contract effectively at the end of Volume 17 (1986),
- b) to renegotiate the contract for 1986 to provide better control and more favorable conditions, and
- c) to undertake a firm decision before the end of June, 1986, on whether to continue with the present publisher or to look for alternatives.

Our current thinking on this matter can be gauged by the fact that negotiations are proceeding with alternative publishers.

I would like to record my appreciation of the business acumen and hard work on behalf of the ASEG by Terry Crabb and Andrew James.

5. Corporate Status

A Corporate Affairs Standing Committee, consisting of Peter Elliott and Steven Greaves was set up to give advice to the current and future Executives on the legal status of the Society, as it had become obvious that the Society has in the past neglected certain legal obligations.

For the record, the ASEG is a Company (under the NSW Companies Code) limited by guarantee. It was incorporated on the 13th of August, 1971. All previous ties, for example with the SEG, which may have existed prior to this appear to have been legally severed by the creation of this entity.

The maximum liability of ASEG members is limited to \$20 under the Articles of Association. However, legal opinion is that persons who hold the titles of President, First Vice-President, Second Vice-President and Honorary Treasurer must be considered directors of the company, while the Honorary Secretary must be considered to be the Company Secretary. Under Company Law, the duties and responsibilities of these officers are not trivial, and negligence can result in severe personal fines, or possibly even penal impositions.

The issues arising from this affect all State branches and Conference Committees. For example, any contract entered into on behalf of the ASEG must be ratified by its elected Federal Executive.

Our thanks in clarifying the legal situation go to Steven Greaves and to the legal firm of Simons and Baffsky.

6. Standing Committees

Rotation of the Federal Executive from State to State has the potential to exacerbate problems such as the need to maintain a corporate memory. For this reason, we felt it was essential to provide continuity of advice in several areas.

The mechanism established is through a set of standing committees as set out below. Officers will be appointed to these committees for at least a 2-year term. A report from each committee will be presented at the Annual General Meeting by its nominated responsible officer, who is a member of the Executive Committee.

Standing Committees

Technical Standards

Chairman :	John Haigh
Responsible Officer:	John Haigh
Committee:	Pat Hillsdon, Dave Pratt, Kit Dampney

Corporate Affairs

Chairman :	Peter Elliott
Responsible Officer:	Secretary
Committee:	Steve Greaves, Ted Bowen

Publications

Chairman :
Responsible Officer:
Committee:

Terry Crabb

EDITOR: PROF. D. EMERSON

Treasurer

President, Business Manager, Treasurer,
Frank Lindeman

Conference Advisory

Chairman :
Responsible Officer:
Committee:

Current Conference Chairman

First Vice President

Past 3 Conference Chairmen & future
Conference Chairman

State Branch Liaison and Membership

Chairman :
Responsible Officer:
Committee:

Secretary

Secretary

All State branch Secretaries

Financial Advisory

Chairman :
Responsible Officer:
Committee:

Treasurer

Treasurer

Previous 3 Treasurers

Geophysical Activity

Chairman :
Responsible Officer:
Committee:

Roger Henderson

Second Vice-President

Dave Tucker, Noel Mattocks, IAGC Rep.

Students & Academic Liaison

Chairman :
Responsible Officer:
Committee:

First Vice-President

Stewart Greenhalgh

Keeva Vozoff, Norm Uren, Lindsay Thomas

Honours & Awards

Chairman :
Responsible Officer:
Committee:

Ken Seedsman

Second Vice-President

Honorary members

SEG Relations

Chairman :
Responsible Officer:
Committee:

President

Continuing Education

Chairman :
Responsible Officer:
Committee:

Jim Frazer

President

7. Relationship with SEG.

I have spent considerable time in trying to determine exactly what is the nature of our relationship with SEG and what it really means to the ASEG.

I can now report that, only as long as it wishes to remain so, the ASEG is classified by the SEG as an 'Affiliated Section'. The only advantage that appears to have been afforded to Australian members as a result of this is the ability to select representatives to sit on SEG's Annual Council Meeting. It is now my very strong feeling that there is no tangible advantage in this and that over the next few years the SEG must demonstrate some profound goodwill if it wishes to retain its only Affiliated 'Section' outside continental America.

In order to pursue this, I was aggressive in promoting the concept of a combined SEG/ASEG Conference in Australia. This has been approved by the SEG Executive for Adelaide in 1988.

8. Conferences.

The overwhelming success of the Fourth ASEG Conference and Exhibition in Sydney during September, 1986, has already been noted. While the proceeds of this were vital to the Society's financial wellbeing, what was most important was the professional spirit that was engendered. It can be truly said that it did tremendous things to promote geophysics in Australia.

The Executive's profound thanks go to the Co-Chairmen (Roger Henderson and Peter Gidley) and the Organising Committee. Tim Pippett's efforts in organising the Exhibition are deeply appreciated. All in all, the approach to the Conference organisation was totally professional and the result compared favourably with equivalent overseas conferences.

Planning for the 1987 Perth Conference is underway, and, even with our current industry downturn, there is room for optimism and excitement in this. A total number of delegates equivalent to 50% of our membership registered for the Sydney Conference; perhaps we should aim for 75% in 1987.

9. Branches.

I am pleased to note the foundation of what is now our largest State Branch - NSW, with 272 members. Congratulations go to Andrew James, its inaugural President.

10. Acknowledgements.

My undying thanks and gratitude go to my fellow members of the Executive. In particular, Peter Elliott and Terry Crabb have been unflagging in their efforts and have endured a massive workload. The ASEG is greatly in their debt. The experience and acumen of Mike Middleton, Eric Firmin, Andrew James, John Haigh and Jim Allender have been inspiring, especially after the Executive Meeting which coincided with my 40th birthday. To all the unsung volunteers and to the Society at large, I doff my hat and say

'Thank you'

Reg Nelson



AUSTRALIAN SOCIETY OF EXPLORATION GEOPHYSICISTS

SECRETARY'S REPORT

ANNUAL GENERAL MEETING. - ADELAIDE 10 APRIL 1986

On behalf of the 1985/86 Executive Committee of the ASEG, I am pleased to present the following report to members concerning the affairs and activities of the Society for the year ended 31 March 1986.

1. 1985/86 Office Bearers

President: Mr Reg Nelson (SADME) (84/85 & 85/86)
Past President : Mr Roger Henderson (Geometrics)
First Vice President: Mr Mike Middleton (Delhi)
Second Vice President: Mr Eric Firmin (GSI)
Treasurer: Mr Terry Crabb (SADME)
Secretary: Mr Peter Elliott (Billiton)
Editor: Prof Don Emerson (Sydney Univ)
Standards Chairman: Mr John Haigh (SADME)
Business Manager: Mr Andy James (Schlumberger)
Ass't Secretary: Mr Steve Greaves (Hartogen)

The following nominations have been received for the Executive Committee for the year 1986/87:

President: Mr Bob Smith (CRA)
First Vice President: Mr Peter Elliott (Billiton)
Second Vice President: Mr Paul Hummel (Norpac)
Treasurer: Mr Ian Edwards

The following members have also indicated their willingness to take the positions of:

Secretary: Mr Terry Crabb (SADME)
Editor: Prof Don Emerson (Sydney Univ)
Standards Chairman: Mr John Haigh (SADME)
Ass't Secretary and
Membership Chairman: Mr Andy McGee (Delhi)

There are various other Standing Committees which are chaired by the relevant officers on the Executive Committee. These include:

2.

Corporate Affairs
Conference Advisory
Publications
Students and Academic Liaison
Geophysical Activity
State Branch Liaison
Financial Advisory
Honours and Awards
SEG Relations
Continuing Education

Committee members for these committees will be nominated by the incoming Executive Committee.

2. Membership

Financial membership as at 31 March 1986 is:

Active and Associate Members	842
Student members	63
Corporate members	40
Honorary members	6
	<hr/>
	951
	<hr/>

The decrease on 1984/85 is a result of being more strict with regard to non financial members; to the benefit of the Society as a whole.

These membership figures include overseas members:

Brazil	1	Phillipines	1
Canada	22	Portugal	1
Central Africa	1	Singapore	2
China	11	South Africa	7
England	12	Spain	1
Fiji	1	Sweden	1
Finland	1	Thailand	3
Greece	1	Netherlands	3
Indonesia	2	U S A	42
New Zealand	3	Wales	1
Nigeria	1	West Germany	3
Papua New Guinea	3	Zimbabwe	1
			<hr/>
		Total	116
			<hr/>

3. Branches

The ASEG branches in each state were active during the 1985/86 year.

The principal officers were:

3.

STATE	PRESIDENT	SECRETARY	TREASURER
ACT	D Tucker	B Goleby	M Sexton
Qld	R Huber	O Dixon	S Hearn
NSW	A James	C Blyth	S Greaves
SA/NT	J Allender	A McGee	H Van Paridon
Tas	R Richardson	D Leaman	R Richardson
Vic	R Landsell & T Eadie	M Micenko	L Thomas & E Allison
WA	P Staples	J Smethhurst & A Jones	W Peters

The State branch committees handled their affairs very well and are commended for their efforts by the Executive Committee.

The list of Branch Membership as of February 1986, used in calculating capitation was:

ACT	79
Qld	93
NSW	272
SA/NT	146
Tas	9
Vic	95
WA	<u>141</u>
	835

4. Conferences

The 4th ASEG Conference and Exhibition held in Sydney during September 1985 was a resounding success. The Conference Chairmen were:

Mr Roger Henderson
Mr Peter Gidley

with Dr Peter Gunn as the Technical Papers Chairman.

The 5th ASEG Conference and Exhibition will be held in Perth during February 1987 and preparations are well underway. Mr Norm Uren and Mr Greg Street are Co-Chairmen.

5. Corporate Affairs

A great deal of investigation into the mechanics of operating the ASEG (Inc Sydney) interstate was made. This resulted in the Science Centre remaining our "Registered Office" in Sydney and Mr Steve Greaves being nominated as the Assistant Secretary resident in Sydney.

6. Secretariat

The amount of Secretarial work carried out by the Science Centre was reduced to a minimum and by December the Centre only acted as a mail forwarding service. Most of the secretarial work was transferred to Adelaide and carried out by members of the Executive Committee and their staff, thus reducing the secretarial costs to a minimum.

7. Newsletter

The ASEG newsletter was redesigned and given a new name "Preview". It was registered as a publication (Category B) and in its latest form (March newsletter) could be sent as bulk mail without a covering envelope.

The new design has resulted in a cost reduction of more than 50% in printing, postage and handling.

The Secretary wishes the incoming Executive Committee an interesting and eventful year for 1986/87 and to the membership at large, a prosperous one.

PETER J ELLIOTT
Honorary Secretary



AUSTRALIAN SOCIETY OF EXPLORATION GEOPHYSICISTS TREASURERS REPORT, 1985/1986

ANNUAL GENERAL MEETING, ADELAIDE, APRIL 10, 1986

As a company limited by guarantee, the ASEG is obligated under the Companies (N.S.W.) Code, to prepare audited annual accounts, and to present these accounts along with the auditor's report at the A.G.M.

Attached are copies of the audited annual accounts. The most significant items that are apparent from these accounts are:

1. BALANCE SHEET

1.1) Excess of revenue over disbursements this year of \$13120 compared to a loss last year of \$19848 was due mainly to the Sydney Conference revenue received in March 1986.

1.2) Sundry creditors of \$46348 consists in the majority of a yet to be verified bill from Blackwell Scientific Publishers for Volume 16 of our Bulletin, "Exploration Geophysics".

1.3) The difference between dues paid in advance this year of \$6945 as compared to last year of \$21836 resulted from our dues notices not going out until early March. There are some sound arguments for changing our financial year so as to close at the end of December.

2. STATEMENT OF REVENUE & DISBURSEMENTS

2.1) Membership was made up of 40 Corporate and 911 Individual members, with state numbers as follows:

NSW.....	272	QLD.....	93
SA.....	146	ACT.....	79
WA.....	141	TAS.....	9
VIC.....	95	OVERSEAS.....	116

This year membership rates have been changed as follows:

<u>MEMBERSHIP</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>
Active	25.00	35.00	35.00
Associate	25.00	35.00	35.00
Student	6.00	10.00	10.00
Corporate	150	150	200
Overseas	25.00	35.00	50.00
Overseas airmail	10.00	15.00	45.00

2.2) Conference surplus made up of:

VIC Petroleum Symposium, Rec. Jun 03, 85.....\$1200

NSW conference in Sydney, Rec. Mar 05, 85.....\$45000

Actual profit from the Sydney Conference was \$22000, with the remaining \$23000 allocated to the Conference Abstract Volume 16, 2/3.

It should be noted that without this income, the ASEG would not have enjoyed a profitable year. This remains an ongoing lesson, and I point out that in 1986/87 no such revenue will be forthcoming, and the 1987 Perth Conference has yet to receive a substantial advance. Congratulations to the 1985 Sydney Conference Committee on an excellent effort - it is appreciated.

2.3) Bank charges were higher this year due to added service fees resulting from the instigation of credit card facilities.

2.4) Postage, stationery and secretarial fees were \$4000 lower this year against last years due to the transfer of the Secretariat from Sydney. The efforts of Peter Elliott with the newsletter, mail, minutes and membership; and Jim Allender and Delhi with the membership data base cut down considerably on the labour cost component.

2.5) Publication expenses are exorbitant for the services provided by Blackwell Scientific Publications. The Invoice for Volume 15 ('84) was estimated to be \$25000 by my predecessor. In fact the bill received May 10, 1985 was for \$33,660, which was \$7,230 more than the income derived from membership dues for that period. Immediate discussions with Blackwells commenced to try to reduce this bill, and to obtain a verification of expenses incurred. Both approaches failed, and the final part payment of the invoice was made in March, 1986. It is estimated that the invoice for Volume 16 (1985) will be in the vicinity of \$45000, of which \$23000 is already allocated for the Conference Volume 16 issue 2/3.

2.6) The President attended the SEG Conference in Washington in November, and achieved much on behalf of the Society. The cost breakdown of this trip:

Airfare Adelaide to Washington.....	\$2300
Accommodation - part thereof.....	\$ 700
Gifts to SEG Exec from the ASEG.....	\$ 65

GENERAL COMMENTS

This years Committee being the first outside of Sydney were faced with the dilemma of running blind on certain items.

We were given a mandate by the Society as a whole when the joint State and Federal Executive Committee Meeting of September 11, 1985, voted solidly in favour of moving the Secretariat away from the Science Centre. Upon this move effectively taking place late in November 1985, we were on our own.

This was to a certain extent an advantage as we worked out the essential items that needed action, and can now generate a summary of pitfalls and preferred procedures for future such Executive transfers.

To date a secretariat has yet to be appointed to look after the mundane yet very time consuming items such as mail clearing, typing and banking.

The membership list was, and still is an absolute priority, and the efforts of Peter Elliott, Jim Allender and Reg Nelson are to be commended in initially putting it up on the computer at Delhi. The availability of the Delhi VAX is deeply appreciated.

This year has been a learning experience. The voluntary efforts of the Executive and Conference Committees has been extraordinary, and on behalf of all members I thank these gentlemen and their associated Companies, for their dedication over this 1985/86 year.

Jerry Crabb
April 1986.

AUSTRALIAN SOCIETY OF EXPLORATION GEOPHYSICISTS

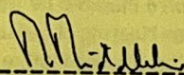
YEAR ENDED 31ST MARCH, 1986

STATEMENT BY DIRECTORS

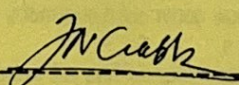
In accordance with a resolution of the Directors of Australian Society of Exploration Geophysicists we state that in the opinion of the Directors:-

- (a) the Revenue and Disbursements Account is drawn up so as to give a true and fair view of the profit of the Company for the financial year ended 31st March, 1986;
- (b) the Balance Sheet is drawn up so as to give a true and fair view of the state of affairs of the Company as at the end of that financial year;
- (c) there are reasonable grounds to believe that the Company will be able to pay its debts as and when they fall due; and
- (d) the accounts of the Company to which this statement relates have been made out in accordance with the applicable approved accounting standards (of which at this date there are none).

On behalf of the Board



Director (M.P. MIDDLETON)



Director (T.N. CRABB)

DATED: 8 / 4 / 86

AUDITORS' REPORT

To the Members of

AUSTRALIAN SOCIETY OF EXPLORATION GEOPHYSICISTS

In our opinion:

- (a) the accompanying accounts of Australian Society of Exploration Geophysicists which have been prepared under the historical cost convention stated in note 1, are properly drawn up in accordance with the provisions of the Companies (New South Wales) Code and so as to give a true and fair view of:
 - (i) the state of affairs of the Company at 31st March 1986 and of the results of the Company for the year ended on that date so far as they concern members of the Company; and
 - (ii) the other matters required by section 269 of that Code to be dealt with in the accounts;
- (b) the accounting records and other records, and the registers required by that Code to be kept by the Company have been properly kept in accordance with the provisions of that Code.

Parkhill Lithgow Gibson
PARKHILL, LITHGOW & GIBSON
Chartered Accountants

Chandler

PARTNER

DATED: 8 / 4 / 86

AUSTRALIAN SOCIETY OF EXPLORATION GEOPHYSICISTS
(Incorp. in N.S.W. and Limited by Guarantee)

BALANCE SHEET

AS AT 31ST MARCH, 1986

<u>Last Year</u>		<u>This Year</u>
	<u>ACCUMULATED FUNDS</u>	
41,298	Balance - beginning of year	21,450
	Excess of Revenue over	
(19,848)	Disbursements for the year	13,120
-----		-----
\$ 21,450	Balance - end of year	\$ 34,570
=====		=====
	Represented by:-	
	<u>FIXED ASSETS</u>	
1,002	Typewriter, filing cabinet, slide projector - at cost	1,002
477	Less Provision for Depreciation	557
-----		-----
525		445
	<u>CURRENT ASSETS</u>	
11,205	Funds on Deposit	85,554
1,663	Sundry Debtors & Prepayments	500
21,904	General Account - S.B.S.A.	2,220
	N.S.W. Permanent Building	
26,326	Society - Deposit	-
	Advances - State Branches	
1,000	- W.A.	1,000
14,500	- N.S.W. Branch	-
-----		-----
76,598		89,274
-----		-----
77,123		89,719
	<u>CURRENT LIABILITIES</u>	
33,660	Sundry Creditors (Estimated)	46,348
21,836	Dues paid in Advance	6,945
	Advance from the Society of	
177	Exploration Geophysicists (USA)	177
-	Bank Overdraft at C.S.B.	1,679
-----		-----
55,673		55,149
-----		-----
\$ 21,450	<u>NET ASSETS</u>	\$ 34,570
=====		=====

AUSTRALIAN SOCIETY OF EXPLORATION GEOPHYSICISTS
(Incorp. in N.S.W. and Limited by Guarantee)

STATEMENT OF REVENUE AND DISBURSEMENTS

FOR THE YEAR ENDED 31ST MARCH, 1986

<u>Last Year</u>			<u>This Year</u>
	<u>REVENUE</u>		
	Membership Dues		
22,380	- Individuals	31,689	
5,700	- Corporate	6,065	
1,372	Social Functions - Gross Income	1,458	
1,394	Bulletin and Video Tapes Sales	1,146	
3,265	Interest Received	3,553	
800	Grants Received	-	
11,540	Net Surplus on Conference	46,200	
7	Donations	-	
-----		-----	
46,458			90,111
	<u>DISBURSEMENTS</u>		
-	Audit Costs	200	
632	Accountancy Fees	1,037	
-	Awards - Students	100	
1,876	Bad Debts	-	
202	Bank Charges	517	
2,260	Capitation Fees	3,539	
93	Depreciation	80	
555	Donation	350	
113	Freight	400	
483	Inhouse Filing System	1,537	
95	Miscellaneous Expenses	-	
	Postage, Stationery & Secretarial		
22,796	Charges	18,651	
34,750	Publication Expenses (Estimated)	45,000	
	President's attendance at SEG		
-	Conference in USA	3,065	
	Social Functions and		
2,164	Entertainment Costs	2,515	
227	Standards Committee Expenses	-	
60	Telephone	-	
-----		-----	
66,306			76,991
-----			-----
\$(19,848)	EXCESS OF REVENUE OVER DISBURSEMENTS		\$ 13,120
=====			=====

AUSTRALIAN SOCIETY OF EXPLORATION GEOPHYSICISTS
(Incorp. in N.S.W. and Limited by Guarantee)

NOTES TO AND FORMING PART OF THE FINANCIAL STATEMENTS

FOR THE YEAR ENDED 31ST MARCH, 1986

NOTE 1: SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Set out hereunder are significant accounting policies adopted in the preparation of the accounts.

a) Basis of Preparation of Accounts:

The attached accounts are drawn up in accordance with general historical cost accounting conventions as practised in Australia.

b) Depreciation:

Equipment is depreciated at rates based upon their expected economic lives.

c) Income:

Subscriptions has been brought to account on a time basis.

NOTE 2: FUNDS ON DEPOSIT

<u>Last Year</u>		<u>This Year</u>
\$11,205	Comprises:	C.S.B. Savings Investment \$ 65,554
-		C.S.B. Term Deposit 20,000
-----		-----
\$11,205		\$ 85,554
=====		=====

NOTE 3: POSTAGE, STATIONERY & SECRETARIAL CHARGES

\$22,796			\$ 18,651
-	Comprises	Postage	3,340
-		Labour	11,142
-		Printing	3,104
-		Photocopying	135
-		Materials	837
-		Telephone	93

		18,651	
		=====	



AUSTRALIAN SOCIETY OF EXPLORATION GEOPHYSICISTS

ASEG ANNUAL GENERAL MEETING

Adelaide, April, 1986.

EDITOR'S REPORT

1. Exploration Geophysics vol.16 1985.

During 1985 our Bulletin was produced in three (3) issues. Volume 16 No.1 was a special issue of 156 pp. devoted to magnetic models and the ASEG GDF standard. Extra copies of the magnetic model section were run off as a book to be sold by the ASEG. Volume 16 No.2/3 was another special issue of extended abstracts for the Sydney Biennial Conference. This issue of 177 pp. was well presented by guest editor P.J. Gunn ably assisted by P. Cooney and J. Odins. Congratulations and appreciation are due to them for their efforts. Volume 16 No.4 is a 64 pp. issue on seismics and borehole geophysics. This issue should have appeared in January, but our publisher's chosen printer has held up its completion because of technical problems. It is expected that this issue will be delivered in May this year.

2. Policy on papers for Exploration Geophysics

The ASEG Executive Committee has adopted the view that Exploration Geophysics should endeavour to publish papers of direct interest to practising professional geophysicists. Exploration Geophysics is neither an applied mathematics journal nor a repository for trivia and exotica. Case histories and intelligible results of relevant theoretical or laboratory or field studies are to be encouraged and preferred. These establish professional communication, impart useable scientific information to explorationists and provide a bridge between field and research workers. Theoretical papers must have illustrative worked numerical examples and be tied to field examples, where possible. All papers must have clear fully captioned diagrams. Esoteric themes, papers with considerable mathematical development, purely theoretical work with no attempted link to practice etc. will have to be declined for the time being. Many such excellent papers are submitted, but the ASEG considers it more appropriate that they be published in other journals. Financial constraints i.e. the Bulletin's limited number of pages and the need to cater for its members' professional needs have forced this policy on the ASEG.

All members of the ASEG can assist in the soliciting and submission of interesting, relevant papers by sending their own work to the Bulletin, and by encouraging their associates, peers, and colleagues to do likewise.

3. Delays in publication

The continual delays that occur with our Bulletin is a source of much exasperation to your editor and indeed to all committee members. It is hoped that these delays will be eliminated following completion of the ASEG's current discussions with Blackwell Scientific Publications, our Bulletin's publisher.

4. Future Bulletin issues

It is thought that Vol.17 No.1, a special issue on geomagnetics, and Vol.17 No.2, an issue on seismic and electrical methods, will be out in June. A special issue on downhole EM is planned for September in Vol.17 No.3. The December issue will contain a miscellany of papers. Planning is now under way for the Perth Conference issue which needs to be completed by January 1987. It is expected that this will serve as Vol.18 No.1/2.

5. Acknowledgements

It is a pleasure to thank the Publications Committee and Executive Committee members for their support, advice and assistance on the Bulletin and related matters over the last year.

Don Emerson
Don Emerson
Editor

1 April 1986.



AUSTRALIAN SOCIETY OF EXPLORATION GEOPHYSICISTS

PUBLICATIONS COMMITTEE REPORT

ANNUAL GENERAL MEETING, ADELAIDE, APRIL 10, 1986

The Publications Committee consists of:

Chairman:	Terry Crabb
Business Manager:	Andy James
Muscle:	Frank Lindeman
Editor:	Don Emerson

This standing committee was set up in August 1985 to coordinate all the Society's publications, reassess the contract with the publisher and to establish a firm policy and set of guidelines for future Executives to follow.

The inaugural (and only) meeting of all the above members took place on Thursday September 12, 1985. Subsequently joint involvement in the decision making process was maintained by telephone and letter, and the Publication Committee then reported to all Executive Meetings.

The major action item has been concerning our publisher, Blackwell Scientific Publications. Effective total cost to the Society of each Volume has been escalating, with the May 10, 1985 Invoice 3904, of \$33,664 being for Volume 15, 1984.

Efforts to get BSP to reduce this invoice total (as they did not meet some contractual agreements) failed. Attempts to obtain satisfactory itemisation of this invoice similarly failed. During the invoice dispute, part payments were being made, with the final payment of \$10000 being submitted in late March 1986.

The current contract was obviously financially untenable and contract renegotiations commenced in August 1985. The fundamental change was from a BSP fee as a percentage of costs to a BSP fee as a percentage of income derived.

The other mandatory decision was to cancel the current contract effectively at the end of Volume 17, so as to avoid the rollover clause that would keep us tied to BSP for yet another year.

It was then agreed that subject to suitable performance by BSP, the term of the renegotiated contract would be finalised in June 1986.

In February 1986 BSP were advised that ASEG agreed with the terms of the rewritten contract, and were requested to forward a contract for signing. Nothing further has been heard from BSP. No monthly cost accounts have been forthcoming and Vol 16, Issue 4 looks like being at least 5 months late.

In brief, BSP have not performed, and negotiations are proceeding with alternative publishers.

During the Presidents trip to the SEG Conference, attempts were made to get the SEG to act as a sales agent for ASEG publications. With great assistance from Andy James and Schlumberger Seaco, a number of copies of recent editions were forwarded to the SEG for sale at the conference. A reconciliation, though requested, remains outstanding. Furthermore, attempts to get SEG to advertise ASEG publications along with other SEG publications has yet to bear fruit.

Communications have been established with Greg Street of the 1987 Conference Committee concerning the publication of the Conference Abstracts as Volume 18, Issue 1. The final decision as to which publisher will be selected for Volume 18 is critical to these discussions.

Tom Eadie is interested in having an expanded Volume 17 Issue 3 on Downhole EM. Discussions have followed regarding the Victorian Branch contributing towards the additional costs if necessary.

I thank all the members of the Publications Committee for their efforts during this their first term, and hope that the steps we have taken this year will result in a Bulletin to the same high standards as in the past, but at a substantially reduced cost to the Society.

Jan Craby
April 10.86.



AUSTRALIAN SOCIETY OF EXPLORATION GEOPHYSICISTS

(Incorporated in N.S.W. and Limited by Guarantee)

DIRECTORS' REPORT

TO THE MEMBERS

Your Directors present their report on the accounts of the Company for the year ended 31st March, 1986.

1. The names of the Directors in office at the date of this report are:

President: R. G. Nelson
1st Vice President: M. P. Middleton
2nd Vice President: E. L. Firman
Honorary Treasurer: T. N. Crabb

and the other office bearers at the date of this report are:

Honorary Secretary: P. J. Elliott
Editor: D. W. Emerson

2. The principal activity of the Company in the course of the financial year was to foster the science of geophysics.

3. The net result for the financial year was an excess of revenue over disbursements amounting to \$13,120.

4. The Memorandum of Association prohibits the distribution of income and property by way of dividends or bonus. No dividends or bonus have been paid or declared since the incorporation of the Company. No dividends or bonus are recommended to be paid in the current year.

5. The Company's result for the year was largely due to the success of the Sydney Conference. Problems with the publishers of the Bulletin have forced negotiation with alternative publishers for future volumes. Postage increases, especially overseas, have forced an increase in these membership dues. The transfer of the Executive from Sydney to Adelaide necessitated a similar transfer of the secretariat from the Science Centre resulting in some operational delays, but with considerable cost benefits.

6. Apart from the transfer of the Executive from Sydney to Adelaide, there were no significant changes in the state of affairs of the Company during the financial year.

7. No matters or circumstances have arisen since the end of the financial year that have significantly effected or may significantly effect

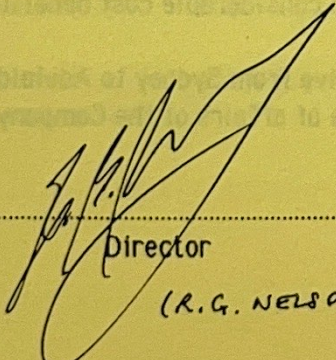
- 1) the operations of the Company
- 2) the results of the Company
- 3) the state of affairs of the Company

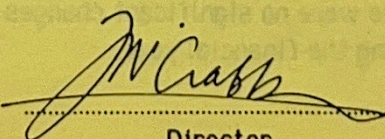
8. The Company is limited by guarantee and accordingly does not issue shares. No debentures or options were issued during the financial year.

9. Since the end of the previous financial year, no Director of the Company has received or become entitled to receive a benefit by reason of a contract made by the Company or a related corporation with the Director or with a firm of which he is a member or with a Company in which he has a substantial financial interest except as disclosed in the accounts.

DATED at ADELAIDE this *8th.* day of *April*, 1986

On behalf of the Board and pursuant to a resolution of the Directors.


Director
(R.G. NELSON)


Director
(C. N. CRABB.)

BICENTENNIAL GOLD 88



**An Invitation
to
Australia's First International Convention
on the Geology of Gold Deposits
May 16-20, 1988 — Melbourne**

Theme:

"Gold and the Explorationist". A significant thrust of this conference will act as a forum for new regional and deposit studies as well as the latest techniques in the search for gold.

Technical Programme:

- Regional studies of significant gold provinces together with regional controls on gold mineralisation and reviews on placer and lateritic deposits
- Case history studies on individual mines
- Laboratory studies including mineragraphic contributions
- Exploration techniques
- Conceptual models of ore genesis

Excursions

Technical excursions to significant gold occurrences in Australia and the South-West Pacific are being planned.

Official Airlines

Qantas Airways and Ansett Airlines of Australia.

Return to:

Australian Convention and Travel Services Pty Ltd
GPO Box 1929, Canberra, ACT 2601, Australia

Name:

Address: Postcode:

Please forward me a copy of the circular for BICENTENNIAL GOLD 88



**AUSTRALIAN SOCIETY OF
EXPLORATION GEOPHYSICISTS**

**5th GEOPHYSICAL CONFERENCE
AND EXHIBITION**

**Perth, Western Australia
commencing February 22nd, 1987**

CALL FOR PAPERS

The theme for the conference is

"MEETING THE CHALLENGE"

Papers are requested dealing with ALL branches of Applied Geophysics. Some preference will be given to case histories and those contributions dealing with recent or innovative theoretical and practical aspects of the discipline.

Presentations will last 25 minutes.

Intending speakers are invited to submit a 300 word summary (with 2 copies) to:-

Perth '87 Conference
Technical Papers Committee
G.P.O. Box F369
Perth 6001
Western Australia.

OR

Perth '87 Conference
Technical Papers Committee
Society of Exploration Geophysicists
P.O. Box 702740
Tulsa, Oklahoma
74170-2740

Paper summaries must be received before JUNE 30th, 1986.

Successful authors will be notified before July 30th 1986 and will be requested to submit an extended abstract (1,000 words and up to six figures) before September 30th, 1986. A volume of extended abstracts will be published.

Telephone enquiries can be made to the following members of the Technical Papers Committee.

Peter Staples
09 367 8450

Terry Allen
09 362 5122

Eve Howell
09 322 7355

Norm Uren
09 350 7092

Mike Middleton
09 222 3333

Don Pridmore
09 277 7566

Greg Steemson
09 367 7544

Vern Wilson
09 457 0066