



# AUSTRALIAN SOCIETY OF EXPLORATION GEOPHYSICISTS

## NEWSLETTER

*Preview*

### **NUMBER 14**

**MARCH - APRIL, 1988**

**SPECIAL ANNUAL GENERAL MEETING EDITION**

**AGM, ADELAIDE, May 04, 1988**

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**COMING EVENTS.**

You are referred to the Calendar on the last page of Preview for dates of coming events.

**ANNUAL GENERAL MEETING - FEDERAL EXECUTIVE**

**MAY 04, 1988, 17:30 hours**

**THE OAKS TAVERN, 77 PIRIE ST, ADELAIDE**

**Students \$10, Members \$20, Latecomers \$25**

**Includes three course dinner & drinks**

This special issue of PREVIEW is dedicated to the AGM, with the intent of circulating the attached reports to members prior to the event.

Election of new officers for the Perth-based Federal Executive will take place.

The recently circulated Ballot on changes to the articles of association will be discussed at this meeting.

SA Branch AGM will commence at 19:00 hours, followed by dinner.

Guest Speaker will be Eve Howell, and she will discuss the geophysical significance of recent discoveries and developments in Australia & Papua New Guinea.

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## AUSTRALIAN SOCIETY OF EXPLORATION GEOPHYSICISTS

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

### Presidents Report to the ASEG, 1987/88

1987/88 has been a turbulent year for many members and their employers. Petroleum exploration in Australia continues to be inadequate and it seems inevitable that this will lead Australia into future economic difficulties as current domestic supplies are consumed but not replaced. The stock market crash in October 1987 may yet lead to similar cutbacks in mineral exploration however these have not yet caused serious problems.

In spite of these difficulties the ASEG is surviving and indeed flourishing as a professional society with an international reputation. We believe there is a future for our profession and more should be done to encourage young people to enter the profession now - instead of waiting for the peak of the next boom. As a responsible professional society we must look ahead and do what we can for the future of our members.

A number of events during the year will have a significant future impact on our members.

1. The society suffered the sad loss of two prominent members with the deaths of Ken Richards and John Haigh. Both had contributed significantly to ASEG, they played an active part in building our society and sustaining it to its present status. They left many friends and colleagues and will be sorely missed.

2. The first ASEG/SEG conference was held in Adelaide in February 1988. The conference attracted over 500 registrants from more than 20 countries and gave ASEG a truly professional image. Although a significantly higher registration was anticipated - prior to the stockmarket crash - the conference was indeed a success and reflected credit on ASEG and its members. The conference chairman and conference committee did a fine job and gave all our members a conference and an image they can be proud of.

The final cost to the society is still uncertain but we have learned by the experience and hope to improve our control over future conferences as a consequence of this one.

3. During the year, several standing committees became more active and fully functional. By assuming responsibilities in particular areas, these standing committees ease the work load of the Federal Executive, provide continuity through several years and enable a wider cross section of members to participate in the affairs of the society.

In particular, the Technical Standards Committee, with Don Pridmore as Chairman has expanded its membership and is pursuing a number of new projects.

4. The concept of an ASEG Research Foundation was introduced during the year and a recent postal vote of members was called in order to modify the ASEG Memorandum and Articles of Association to accommodate it.

If implemented, the ASEG Research Foundation will provide a mechanism for members (and company sponsors) to support research in exploration geophysics. Since it is intended to focus mainly on Honours degree and M.Sc. projects this may help to attract more young people into our profession. The guidelines established by the taxation department (including approval by CSIRO), if followed, will enable tax deductibility for contributions to the Foundation.

I believe this can be a worthwhile contribution to the long term health of our profession and our society.

5. Future conferences have been recommended by the conference advisory committee, and ratified by the Federal Executive for Melbourne in September, 1989 and Sydney in February-March, 1991. We hope that the longer range planning which is now possible will assist the conference committees in their efforts.

6. There has been no change in our formal relationship with SEG although discussions were held with the SEG executive committee during the 1987 SEG conference in New Orleans. We remain a section of SEG at present but have been invited to propose any changes in this relationship we think desirable. The incoming executive will need to address this issue further although the present situation causes us no particular problems.

7. During 1987 we introduced the concept of a President Elect. Eve Howell has served in this capacity for one year and is now well equipped to take over as president for 1988/89. She has assembled an able and experienced committee and we are confident that the transfer of the Federal Executive to Perth will go smoothly. The outgoing executive committee wishes them well and will do everything possible to assist them in taking over the affairs of the society.

The future of our society depends primarily on the health of our profession. Every member should strive to ensure that we earn respect as professionals and that the image we project to the world is one of which we can be proud. We must attract more young people into this risky but fascinating life if our society is to continue to survive and prosper. This means both maintaining an appropriate image and also encouraging young people to study geology and geophysics. There are many more discoveries to be made in both petroleum and mining and Australia needs exploration geophysicists to find them.

Finally, I would like to thank sincerely, the other members of the Federal Executive Committee who have supported me during the last two years. They have been rewarding years and one of the greatest rewards, I think, is the team spirit which has developed and the camaraderie of the ASEG. The job has not always been easy, but the team of people comprising the executive committee has made it most worthwhile.

My thanks to you all, to the executive committee and to the membership at large. I hope to continue my association with ASEG for many years and wish the society well for the future.

Bob Smith  
President

**ASEG SECRETARY'S REPORT, 1987/1988**  
**for the**  
**ANNUAL GENERAL MEETING, ADELAIDE, MAY 04, 1988**

On behalf of the 1987/1988 federal executive of the ASEG I herewith present the following report to members concerning the affairs and activities of the Society and, in particular, the efforts of the secretary for the year ended **MARCH 31, 1988**.

**1. 1987/1988 OFFICE BEARERS:**

**EXECUTIVE:**

President: Bob Smith  
 Past President: Reg Nelson  
 President Elect: Eve Howell  
 1st Vice President: Peter Elliott  
 2nd Vice President: Tom Eadie  
 Honorary Treasurer: Peter Fullagar  
 Honorary Secretary: Terry Crabb  
 Honorary Editor: Don Emerson  
 Business Manager: Tim Pippett  
 Assistant Secretary: Steve Greaves

**STANDING COMMITTEE CHAIRMEN:**

Conference Advisory: Peter Elliott  
 Corporate Affairs: Peter Elliott  
 Financial Advisory: Peter Fullagar  
 Geophysical Activity: Roger Henderson  
 Honours & Awards: Barry Long  
 Membership/States: Ian Edwards  
 Publications: Terry Crabb  
 SEG Relations: Reg Nelson  
 Students/Academic: Andy Mitchell  
 Technical Standards: John Haigh

The following nominations have been received for the Executive Committee for the year **1988/1989:**

President: Eve Howell  
 1st Vice President: Don Pridmore  
 2nd Vice President:  
 Honorary Treasurer: Laurence Hansen

The following have indicated their willingness to accept the responsibilities of:

President-Elect:  
 Honorary Secretary: Greg Street  
 Honorary Editor: Don Emerson  
 Business Manager: Tim Pippett

**2. MEMBERSHIP:**

Financial membership as at March 31 for the past four years is as listed:

<b><u>Membership status:</u></b>	<b><u>1985:</u></b>	<b><u>1986:</u></b>	<b><u>1987:</u></b>	<b><u>1988:</u></b>
Active and Associate:	916	842	744	729
Corporate:	47	40	37	37
Honorary:	6	6	6	6
Student:	<u>124</u>	<u>63</u>	<u>58</u>	<u>60</u>
Total:	<u>1093</u>	<u>951</u>	<u>845</u>	<u>832</u>

A breakdown of membership on a State (Australia) and Country (Overseas) basis follows:

<b><u>AUSTRALIA:</u></b>	<b><u>1986</u></b>	<b><u>1987</u></b>	<b><u>1988</u></b>	<b><u>OVERSEAS:</u></b>	<b><u>1986</u></b>	<b><u>1987</u></b>	<b><u>1988</u></b>
ACT:	79	73	73	NORTH AMERICA:	64	40	46
NSW:	272	238	219	EUROPE:	24	22	26
QLD:	93	89	95	ASIA:	16	10	11
SA/NT:	146	139	112	AFRICA:	11	4	7
TAS:	9	8	6	OCEANIA:	1	0	6
VIC:	95	85	83				
<u>WA:</u>	<u>141</u>	<u>137</u>	<u>148</u>				
<b><u>TOTALS:</u></b>	<b><u>835</u></b>	<b><u>769</u></b>	<b><u>736</u></b>		<b><u>116</u></b>	<b><u>76</u></b>	<b><u>96</u></b>

### 3. BRANCHES:

During this financial year, the SA Branch hosted the inaugural ASEG/SEG Conference & Exhibition and the Committee lead by Reg Nelson are to be commended for an outstanding effort. The other state branches were ably led by:

<u>STATE:</u>	<u>PRESIDENT:</u>	<u>SECRETARY:</u>	<u>TREASURER:</u>
ACT:	Barry Drummond	Tim Barton	Mike Sexton
NSW:	Peter Gunn	Dave Kirkham	Tim Pippett
QLD:	Nigel Fisher	Sami Khan	K G Driml
SA/NT:	Andy McGee	Danny Burns	Nick Dunstan
TAS:	Bob Richardson	David Leaman	Bob Richardson
VIC:	Mick Micenko	Craig Gumley	Lindsay Thomas
WA:	Charles Ramsden	Denny Rompotes	Stewart Gunson

### 4. CONFERENCES:

The first ASEG/SEG Conference & Exhibition was held in Adelaide from February 14 through 21 1988, and the committee included:

Co-Chairmen:	John Haigh & Reg Nelson
Technical Papers:	Wayne Thiele & Brian Spies
Editor:	Mike Middleton
Exhibitions:	Jim Allender & Bill Hedditch
Treasurer:	Chris Anderson
Sponsorship:	Ted Moorcroft
Social:	Wence Sulda
Publicity/Promotions:	Stuart Brew, Dragan Ivic, Alan Appleton
Conference Organiser:	Elliservice Convention Management

This Conference was a brilliant technical success ensuring the ASEG of a high profile in future negotiations with affiliated societies both in Australia and overseas.

Preparations for the next ASEG Conference and Exhibition in Melbourne from September 24 to 28 1989 are in progress.

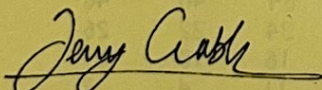
### 5. SECRETARIAT:

Brackett Secretariat continued to provide secretarial services to the Society utilising the TIPC and LOTUS 123 to handle memberships.

Issues #9 through #14 of PREVIEW were published over the period June 1987 through April 1988 and were distributed to membership.

My thanks to my fellow committee members for their support and understanding and to Roger Henderson for his very active correspondence during the past year.

I wish the incoming committee an easy and successful transfer of the Executive to Perth, and every success in their efforts over the coming year.



Terry Crabb - Honorary Secretary  
April 1988



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18 April, 1988.

## EDITORS REPORT TO THE AGM

The period under review has seen the publication of:

Vol.18 No.1/2	March/June 1987 Perth Conference Extended Abstracts
Vol.18 No.3	Sept. 1987 Special Issue on Downhole EM
Vol.18 No.4	General issue containing a variety of papers (printing delayed)
Vol.19 No.1/2	March/June 1988 Adelaide Conference Extended Abstracts

I feel the topicality and quality of the papers are overall quite good and that our publications appear to be catering to the professional needs of our Australian members.

I do consider that the Conference Extended Abstracts fulfil an important role as an essential part of Exploration Geophysics. Without these abstracts/short papers there would not be sufficient material to fill four issues a year because the conferences tend to catch, attract, or drain the available pool of talent and papers. I concede that some improvement could have been affected in the editorial and scientific standards of some of the conference papers that have been published in the past. The solution to this is to get the manuscripts in as early as possible and thus give the conference editorial panel (in consultation with the Editor) adequate time to edit the papers and reject those that are not up to standard. Rejected papers could still be presented verbally or as poster displays at a conference and even considered for later publication if improvements were subsequently made.

I thank the Committee and especially Terry Crabb for their help and support over the past year.

Yours sincerely,

*D.W. Emerson*

*D.W. Emerson*  
D.W. Emerson  
Head of Department

Past-President's Report

The residual role that is left to a Past President is to provide continuity of experience to the Executive Committee and advice on past decisions made by the Committee. In this capacity I attended most Executive meetings held throughout the year. With the progressive worsening of John Haigh's condition, I also gradually assumed more and more the role of Conference Chairman for Adelaide '88, and reported to the Committee on progress in planning for this conference.

I have also accepted responsibility for SEG relations, largely because of the contacts I have made with previous SEG Executive Committees and with SEG business staff. I envisage that the responsibilities of this position will increase markedly over the next few years, following formalisation of our relationship with SEG. A full definition of this relationship is under review by the ASEG Corporate Affairs committee, but it follows from discussions initiated during 1985 between myself as the then ASEG President, SEG President Red Olander and SEG Executive Director John Hyden. I see the future responsibilities of this position as acting as both a contact point and clearing house for correspondence between the ASEG and SEG, particularly at subcommittee level (e.g., SEG's International Affairs Committee and various others). Naturally, full executive authority and direct negotiations should continue to occur on a President-to-President basis, the SEG Liaison Officer serving mainly in an advisory capacity.

My main efforts this year as regards SEG relations have been through my capacity as Chairman of the joint ASEG/SEG Conference. This has involved dealings with the SEG International Affairs Committee (Chairman: Kun Hua Chun & Brian Spies as North American Technical Papers Coordinator) as well as with SEG Business Staff (John Hyden, Stan Jones, David Yowell). While the ASEG accepted full managerial and financial responsibility for the Conference, SEG (through Brian Spies) helped coordinate the North American Technical Papers and arranged for four SEG Continuing Education courses to be held pre- and post-Conference. In addition, we were able, through the good offices of David Yowell, to get promotional material inserted as fliers accompanying both 'Geophysics' and 'The Leading Edge'. Dean Clark arranged for an article to be published in 'The Leading Edge' (August, 1987). David Yowell also kindly arranged free exhibition space in a prime location at the New Orleans SEG Convention to promote both ASEG and the Adelaide Conference. As a result, I can confidently say that the level of awareness of ASEG and the Conference was at near-maximum levels among SEG members worldwide. Although the final attendance by USA delegates at Adelaide '88 was extremely disappointing, I do feel that we have built a solid basis for when there is an upturn in the industry. In any event, ASEG now stands respected as an autonomous professional society, which probably more than most addresses the word 'exploration' in 'exploration geophysics'.

REG NELSON - PAST PRESIDENT

**ASEG**  
**STANDING COMMITTEES**  
**as at February, 1988**

**Corporate Affairs**

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

**Publications**

Chairman : Terry Crabb  
Responsible Officer: Secretary  
Committee: Editor, Business Manager, Treasurer,  
Preview & Conference Editors

**Conference Advisory**

Chairman : Peter Elliott  
Responsible Officer: First Vice President  
Committee: Past 3 Conference Chairmen & future  
Conference Chairmen

**State Branch Liaison and Membership**

Chairman : Ian Edwards  
Responsible Officer: Executive committee member  
Committee: Federal & State branch secretaries, President-elect, Jim  
Allender

**Financial Advisory**

Chairman : Peter Fullager  
Responsible Officer: Treasurer  
Committee: Previous 3 Treasurers, Business Manager, Accountant

**Geophysical Activity**

Chairman : Roger Henderson  
Responsible Officer: Second Vice-President  
Committee: To be determined

**Students & Academic Liaison**

Chairman : Andy Mitchell  
Responsible Officer: First Vice-President  
Committee: To be determined

**Honours & Awards**

Chairman : Barry Long  
Responsible Officer: Second Vice-President  
Committee: Honorary members, Bill Peters

**Technical Standards**

Chairman : Don Pridmore  
Responsible Officer: Executive committee member  
Committee: Pat Hillsdon, Dave Pratt, Kit Dampney, Barry Long,  
Graham Pilkington

**SEO Relations**

Chairman : Reg Nelson  
Responsible Officer: President  
Committee: Secretary

**Continuing Education**

Chairman :  
Responsible Officer: President  
Committee:

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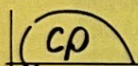
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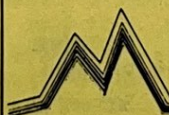
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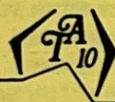
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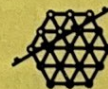
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# Advanced Exploration Techniques: A Workshop Course

by  
Dr. Mike Badley

A five-day workshop course on the practical application of advanced seismic interpretation and geological techniques to exploration and production problems facing geologists and geophysicists working in basins both off- and onshore. The course, based on a balanced combination of lectures and work sessions, demonstrates the application of advanced techniques using seismic sections, well and map data from a wide variety of basin types including examples from Australia.

## **COURSE CONTENT**

---

### **Basin Analysis**

Practical application of crustal scale models as interpretive tools to analyse basin evolution, subsidence, uplift, unconformities, thermal history, etc.

### **Seismic Interpretation and Structural Analysis**

Seismic interpretation - resolution problems, structural styles, velocity analysis, depth conversion and map migration.

Sediment decompaction - methods and applications.

Section balancing - methods.

Fault analysis - including a new method - fault displacement gradient contouring.

Salt structure analysis - a new approach.

Footwall uplift and unconformity analysis.

Advanced contouring - techniques.

## **WHO SHOULD ATTEND**

---

The course is designed for geologists and geophysicists engaged in interpretation and technical management, and other professionals involved in exploration and production. The course is advanced and assumes a working knowledge of basic seismic interpretation techniques.

## **INSTRUCTOR**

---

Dr. Mike Badley has been involved in exploration both as a geologist and seismic interpreter in North West European basins for the last 16 years. Since 1983 more than thirteen hundred geologists and geophysicists have attended his courses *Practical Seismic Interpretation* and *Practical Exploration Techniques*, held at numerous locations in Europe, North America, S.E. Asia and Australia.

## **WHERE, WHEN AND HOW MUCH ?**

---

The course will be presented in Adelaide during the week 25-29 July 1988. The price of the course is A\$1500.

Further details or enrollments can be made by telephone, telex or fax to:

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(We are moving at Easter but new telephone and fax numbers are not yet available, so telex if you have a problem contacting us.)

# PUBLICATIONS STANDING COMMITTEE REPORT

to the

## ANNUAL GENERAL MEETING, ADELAIDE, MAY 04, 1988

Members of the Publications Committee for this year included:

Terry Crabb	Chairman
Don Emerson	Editor
Peter Fullagar	Treasurer
Tim Pippett	Business Manager
Mike Middleton	Conference Abstracts Editor

Graphic Services Pty Ltd continued printing Exploration Geophysics after the success with Volume 18, 1-2 the Perth Conference Abstracts. Volume 18, 3, a special publication on Downhole EM, edited by Guido Staltari and Tom Eadie, was released in November 1987.

Scheduling problems arose with the preparation of Volume 19, 1-2 causing a delay with the printing of Volume 18, 4, the release of which still remains outstanding.

<u>VOL</u>	<u>ISSUE</u>	<u>DATE</u>	<u>DATE OF RELEASE</u>	<u>NUMBER OF PAGES</u>	<u>COST</u>	<u>COST/ PAGE</u>
17	4	DEC 86	JULY 87	48	\$-----	
17	1-4	1986	1986	217	\$16728	\$77.09
18	1-2	MAR-JUN 87	FEB, 87	245	\$21504.22	\$87.77
18	3	SEP 87	NOV, 87	107	\$9122.72	\$85.26
18	4	DEC 87	MAY, 88	?	?	?
19	1-2	MAR-JUN 88	FEB, 88	400	\$36437.39	\$91.09
19	3	SEP 88				

Note: The costs for Volumes 18 & 19 have not been adjusted for advertising income.

The performance of Graphic Services with regard to Volume 19, 1-2 very nearly resulted in the Abstracts not being ready for the Adelaide'88 Conference, and as a result the Committee is investigating alternative printers.

During this past year the Committee has produced a number of initiatives including:

ASEG PUBLICATIONS INDEX 1970-1987 - Special publication #4

MICROFICHE OF ALL ITEMS IN ABOVE INDEX

MAGNETIC EXPLORATION MODELS - corrigenda plus additional paper added

DOWNHOLE ELECTROMAGNETIC METHODS - Special publication #3

All items were available for sale at the Adelaide'88 Conference and Exhibition.

It is recommended that a publisher for Exploration Geophysics should be engaged, as the work load is too much for the volunteers on this Committee. Brackett Secretariat has submitted a proposal to provide publishing services to the ASEG including responsibility for back issue distribution; liaison with printers and advertisers; non-member subscription agents and promotions. The aim would be to make the publications self-supporting.

After some considerable discussion, it is the recommendation of this Committee that the practice of publishing the Conference Abstracts as part of Exploration Geophysics be maintained.

Thanks must go to the special editors, **Guido Staltari** and **Tom Eadie** for Volume 18,3 and **Mike Middleton** who almost single-handedly rush-proofed the manuscripts and made certain that any delays to the production schedule of Volume 19, 1-2 were not as a result of the ASEG.

**Don Emerson** has once again agreed to stand as honorary Editor of Exploration Geophysics through 1988/89, and on behalf of all ASEG members, I congratulate Don on his efforts for 1987/88 and most sincerely and gratefully thank him for shouldering the burden for yet another year - what would we do without him?

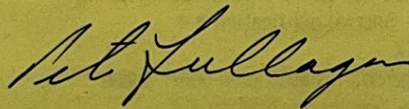
*Terry Crabb*

Terry Crabb  
Chairman  
May 1988

A.S.E.G. FINANCIAL ADVISORY STANDING COMMITTEE

ANNUAL REPORT 1987-88

1. No formal meetings of this committee were convened. However, Peter Priest (PP), Terry Crabb (TNC), and I (PKF) were in regular contact throughout the year.
2. With the assistance of TNC and PP, PKF produced a half-year financial statement for the period 1.4.87 - 30.9.87. It is recommended that this practice be continued (a) to provide a mid-year update for the Federal Executive and (b) to reduce the end of year workload on Treasurer and Accountant.
3. PP prepared a memo outlining requirements for State Branch financial statements, and illustrating a suitable layout. This has been distributed to Treasurers of all Branches.



PETER FULLAGAR

Chairman.

15 April 1988

Annual Report - Technical Standards Committee

1) Committee Members:-

Pat Hillsdon  
Barry Long  
Graham Pilkington  
Dave Pratt  
Don Pridmore - Chairman

Kit Dampney has been appointed as a special consultant to the committee on data standards.

2) Role of the Committee was defined as:

- a) to identify and respond to needs for technical standards within the industry
- b) to support and implement relevant technical standards
- c) to liaise with SEG and other international committees involved in the setting of technical standards

3) ASEG GDF

Graham Pilkington has revised the code for the ASEG GDF to address the criticisms levelled at the former software. Graham intends to visit the major aeromagnetic processing centres on the east coast in May or June to review and test the operation of the new software with the respective data processing managers. The relevant state and federal statutory bodies will be formally advised of the outcome of these meetings and encouraged to adopt the standard, if they have not already done so, for the reporting of aeromagnetic and other appropriate geophysical data sets. Graham would welcome comments on any aspect of the ASEG GDF on (08) 274-7620.

- 4) The federal executive has approved the creation of the Airborne Radiometric Test Pad Facility (ARPTF) sub-committee of the Technical Standards Committee. Paul Wilkes will chair the ARPTF committee which has a mandate to, initially, establish the feasibility of constructing test pads for airborne radiometric calibrations. The ASEG would not be asked to underwrite the construction but will, through Paul's committee, act as a catalyst to establish the facility and provide technical support for the work. It is anticipated that expertise from the Canadian Geological Survey would be utilised on this project.

YEAR REVIEW - ASEG HONOURS AND AWARDS COMMITTEE

Committee has functioned with Barry Long (Velocity Data, Brisbane) as Chairman and Bill Peters (Southern Geoscience Consultants, Perth) as a seconded member.

Three awards were given at the Adelaide 1988 ASEG - SEG Conference:

- 1) Graham Sands Award to John Stanley and Malcolm Cattach at the University of New England for the TM-3 Image Processing Magnetometer.
- 2) Honorary membership to Lindsay Ingall from Wongela Geophysical.
- 3) Laric Hawkins Award to Mike Asten, BHP - Utah for his innovative use of downhole MMR.

All state branches of the ASEG had contacted Barry Long with comment or nominations for the former two awards. However, prior to the Melbourne conference, formal application forms will be available.

Status of the current accounts are shown below.

**Laric Hawkins Memorial Fund**

Balance as at 31/12/87	973.34
Less expenditure at conference	55.00
plus interest	9.42
Balance as at 29/02/88	927.76

**Grahame Sands Memorial Fund**

Balance as at 31/12/87	23043.85
Less expenditure at conference	2500.00
Balance as at 29/02/88	20543.85

TOM EADIE  
2nd Vice President

NEW MEMBERS

The Society extends a warm welcome to the following members who joined this year, either for the first time or were reinstated after an absence of more than two years.

CHRISTIAN NAME	SURNAME	INITIALS:	COMPANY:
David	ABBOTT	Ml DJ	TESLA-10 P/L
David	ANDERSON	Ml DM	HYDROTECHNICA
Mike	BADLEY	Dl ME	BADLEY ASHTON & ASSOCIATES LTD
Bimal	BANERJEE	Ml BR	DIGITAL EXPLORATION LIMITED
Malcolm	BOARDMAN	Ml M	AMPOL EXPLORATION P/L
Tony	BOWMAN	Ml AL	UNIVERSITY OF QLD - DEPT GEOL & MINS
Richard	BRESCIANINI	Ml RF	BHP MINERALS - EXPLORATION
Murray	BRICELAND	Ml ME	EASTMAN KODAK CO
Richard	BRIDLE	Ml RG	
Nancy	BUTTERWORTH	Ms N	UNI UTAH -Graduate Student
	CHRISTIE	Ml RN	
Roger	CLIFTON	Ml R	CURTIN UNI OF TECHNOLOGY
Antonio	D'ORAZIO	Ml A	BHP MINERALS EXPLORATION
Eduardo	ESCANERO	Ml EN	MACQUARIE UNIVERSITY
Florencio	FERNANDEZ-ALONZO	Ml F	CONSULTOR
Kevin	FLEMING	Ml KM	WA SCHOOL OF MINES - Dept Min Expln &
Ian	FRASER	Ml I	WA MINES DEPT - PETROLEUM DIV
Kerry	GALLAGHER	Ml K	ANU
John	GARRITY	Ml JR	WAPET
Geoff	GATTI	Ml G	CONSULTANT
Neil	GIBBINS	Ml N	SANTOS LTD
Bob	GRAEBNER	Ml RJ	GSI
Caroline	GRASSO	Ml CA	
Robert	GROVES	Ml FR	AERODATA HOLDINGS LTD
Nicholas	HALL	Ml NF	RAND EXTENSIONS & EXPLORATION
Laurence	HANSEN	Ml L	HORIZON SEISMIC AUSTRALIA P/L
Bruce	HARRIS	Ml BA	WMC - EXPLORATION DIVISION
George	JIRACEK	Dl GR	SAN DIEGO STATE UNIVERSITY
Matthew	KAY	Ml MH	UNI OF QLD - B APP SC GEOPH
Brett	KELSALL	Ml B	LASMO ENERGY AUSTRALIA LTD
Gabor	KORVIN	Dl G	UNIVERSITY OF ADELAIDE
Yves	LAMONTAGNE	Dl Y	LGAPL
Richard	LANE	Ml R	CRA EXPLORATION PTY LIMITED
Greg	LEAR	Ml G	
	LI	Ml ZX	
Stephen	LYNN	Ml SP	HARTOGEN ENERGY LTD
Roger	MEANEY	Ml RA	SANTOS LTD
Michael	MOORE	Ml M	MACQUARIE UNI BSc Hons
Beverley	MOORE	Dl BJ	NSWIT - SCHOOL OF MATHEMATICAL SCIENC
Walter	MUIR	Ml WF	CSR LTD OIL & GAS DIVISION
David	MULLEN	Ml DJ	SCHLUMBERGER SEACO INC
Katherine	MCCALL	Ms K	MACQUARIE UNIVERSITY
Peter	MCPHERSON	Ml PM	CONSULTANT
Jim	MORAE	Ml J	GSI
Peter	MCKIMMING	Ml PG	MCKIMMING GEOPHYSICS P/L
George	NADER	Ml GL	GEOTERREX P/L
	NOBLE	Ml MC	DIGITAL EXPLORATION LTD
Jean-Marie	NOEL	Ml JM	WOODSIDE OFFSHORE PETROLEUM P/L
Desmond	NORRIS	Ml D	TCPL RESOURCES LTD
Finian	O'SULLIVAN	Ml F	GEOSYSTEMS
Kazuya	OKADA	Ml K	SUMITOMO METAL MINING CO LTD - MINRL I

NEW MEMBERS

CHRISTIAN NAME	SURNAME	INITIALS:	COMPANY:
Robert	PEACOCK	Mr RJ	GEOTERREX P/L
L?	POLOME	Mr LGBT	ANGLOVAAL LTD
Greg	REUDAVEY	Mr G	AERODATA HOLDINGS LTD
	RICHARDSON	Mr LM	
Richard	SCHRODER	Mr RJ	
JOHN	SCHULSTAD	Mr J	WESTERN GEOPHYSICAL CO OF AMERICA
Jose Luis	SEARA	Mr JL	GEOMETRA
Steven	SHOPE	Dr SM	STOLAR INC
Paul	SIFFLEET	Mr P	STUDENT - NCPGG
Wellington	SIMAMORA	Mr WH	GEOLOGICAL RESEARCH & DEVPT CENTRE
Robert	SINGH	Mr RJW	PETTY-RAY GEOPHYSICAL
Bryan	SISSONS	Mr B	NZ OIL & GAS LTD
Ric	SMIT	Mr R	SAOG
Nigel	SMITH	Mr N	SCHLUMBERGER SEACO
Chester	SMITH	Mr CD	WESTERN GEOPHYSICAL CO
Garry	SPENCER	Mr GA	AERODATA HOLDINGS LTD
Dennis	STEVENS	Mr DA	GEOSCIENCE ASSOCIATES AUST P/L
Bill	STUART	Dr W	NCPGG
Kandiah	SUNDARALINGHAM	Dr K	USP
Bretton	TAYLOR	Mr BW	ESSO AUSTRALIA LTD
John	THOMAS	Mr JH	BP AUSTRALIA
Andrew	THOMAS	Mr AD	UNIVERSITY OF ADELAIDE - GEOPHYSICS
Vaughan	TILL	Mr VS	BRIDGE OIL LTD
John	TODD	Mr JR	FELSTEAD PTY LTD
Peter	WALDRON	Mr PT	GEOTERREX P/L
Terry	WALKER	Mr TR	WMC HOLDINGS
	WATT	Mr JH	GEOLOGICAL SURVEY OF WA
Derek	WEBB	Mr DL	GEOPEKO
Dave	WIDDOES	Mr D	BHP PETROLEUM INTERNATIONAL
Ken	WITHERLY	Mr KE	BHP-UTAH MINERALS INC
Philip	WOLTER	Mr PJ	LASMO ENERGY
Jeff	WRIGHT	Dr J	PT CALTEX PACIFIC INDONESIA
Roger	YOUNG	Dr RA	CURTIN UNIVERSITY OF TECHNOLOGY
Don	ZIMMERMAN	Dr D	PARACEL PTY LTD

POSTAGE  
PAID  
AUSTRALIA

REPORT ON THE  
GEOPHYSICAL ACTIVITY COMMITTEE  
1987/88

-15-

The purpose of this committee is to monitor activity in Australia and where possible analyse the information for trends which may be of use in planning various aspects of the society.

In an attempt to gain statistics on the various methods, the activity questionnaire used by the SEG was mailed to 49 addresses. At the same time this assisted the SEG in getting their questionnaire to more appropriate people as prior to this, their mailing list was grossly inadequate. A particular effort was made to get a better representation from the airborne contractors since this had been in the past grossly misrepresented in the SEG Annual Activity Report.

The response from this mailing was poor and insufficient to allow reliable conclusions to be drawn. As this result may be not unusual for questionnaires we may have to be content with using the statistics released by APEA on Seismic Crew Activity, which at least accounts for most activity in the petroleum exploration sector and to rely on general statements of the strength of activity for the mining sector. Airborne activity can be closely judged from the public knowledge of tenders that are issued and the commitments of the airborne crews and their aircraft.

The reading of activity for the past year can be summarised as follows; the boom in the search for gold has increased activity in the airborne and ground magnetic sectors with stronger activity in other methods applicable to the mapping of structures. These include transient EM and IP. EM is being used also in the search for lead-zinc deposits and is being increasingly applied in groundwater investigation.

The continuing low prices for oil have depressed the seismic activity both onshore and offshore. Figure 1 shows seismic activity over the past 6 years where the increasing trend from '83 to '85 has been severely halted by the oil price collapse. Over all, seismic activity in 1987 has fallen by 26% from the previous year and represents only 38% of the activity in 1985.

### Seismic Activity in Australia

