

IASPEI Newsletter
(No. 13, December 1984)

TO: National Correspondents, Officers and Representatives of the Association and related organizations.

Our Regional Assembly at Hyderabad was a spectacular success, marred only by the tragic death of Mrs Indira Gandhi on the opening day. Despite their personal grief and the great reorganization needed, our Indian hosts re-arranged the programme so that no scientific sessions were lost, but necessarily the social programme was curtailed. All involved agreed that this, our first Regional Assembly, was a most useful undertaking and that the sessions focussing on regional scientific problems were extremely useful both in letting visitors learn of local problems first hand, and in acquainting local workers with up to date ideas from other countries. We hope that we shall be able to hold further such Regional Assemblies as resources permit.

The major news for our General Assembly in Tokyo in 1985 is that the Inter-Union Commission on the Lithosphere will be amalgamating its programme with ours, and will be co-sponsoring nine of the IASPEI sessions. We welcome this collaboration which should ensure a much fuller programme for both IASPEI and ICL.

Finally, I wish you all the compliments of the season and best wishes for 1985, and thank you for your support during the last year.

Robin Adams

R D Adams
Secretary-General

REGIONAL ASSEMBLY, HYDERABAD, INDIA, 31 OCT-7 NOV 1984

A Regional Assembly of IASPEI was held at the National Geophysical Research Institute, Hyderabad, India, 31 October to 7 November 1984. There were 285 registrants, of whom about 120 were from outside India.

OPENING CEREMONY

This ceremony took place at 1100 on Wednesday 31 October 1984, with Prof V K Gaur, Director of the National Geophysical Research Institute in the Chair. Prof Gaur welcomed participants and guests and expressed his pleasure that IASPEI had been able to meet in India, a land which had many early seismological connections including those with P D Oldham.

Prof Z Suzuki, President of IASPEI, thanked Dr Gaur and the local organizers of the Assembly for the very fine preparations that had been made. He pointed out that this was the Association's first meeting in Asia and was grateful for the opportunity of meeting in India.

The Chairman of the Local Organizing Committee, Dr H Narain, spoke of geophysical facilities in India. He was followed by Prof D Lal, President of IUGG, who gave the inaugural address. Prof Lal spoke of recent developments in geophysics and the relevance of the Indian subcontinent to these studies. He also mentioned inversion techniques which had been developed initially by seismologists and were now used extensively in many branches of science.

A vote of thanks was proposed by Dr K L Kaila and Dr M L Gupta, Secretary of the Local Organizing Committee, thanked all those local people who had contributed to the preparations.

OPENING PLENARY SESSION 31 OCTOBER 1984

Present: Professor Z Suzuki (President) in the Chair and about 100 delegates and guests.

The President opened the meeting at 1230 and welcomed delegates to the Assembly and this first business session. He then asked those present to stand as a mark of respect for colleagues who had died since our last Assembly at Hamburg. These included:

Mr W K Cloud (USA)
Dr E R Lapwood (UK)
Prof J Minami (Japan)

As this Regional Assembly was an additional assembly there was little formal business, but resolutions were welcome. Prof Suzuki then proposed the following for the Resolutions Committee:

C Froidevaux (Chairman), V K Gaur, E G Kausel

In the absence of Dr Kausel, the President reserved the right to choose an alternative member.

Prof Suzuki then asked the Secretary-General to present a brief report on the Association's affairs. Dr Adams reported that since the General Assembly at Hamburg in August 1983, the activities of the Association had been mainly concerned with consolidating the decisions taken there and in preparations for future Assemblies.

Summaries of technical IASPEI sessions at Hamburg have been published in the IUGG Chronicle. Reports on the joint Unesco-IASPEI Working Groups on the Code of Practice for Earthquake Prediction, Experimental Sites for Earthquake Prediction and Historical Seismograms have also been published in the Chronicle and in EOS.

IASPEI Commissions have been setting up their membership and planning activities for the General Assembly in Tokyo in 1985. The European Seismological Commission met in Moscow 1-6 October 1984.

Relations with Unesco continue to be fruitful and joint Working Groups are planned for the Tokyo Assembly on Unification of International Seismological Networks, and the Revision of the Manual of Seismological Observatory Practice.

The programme for the Tokyo Assembly, 1985, would be finalized by the Executive Committee during this Assembly and preliminary discussions held on the programme for the Vancouver Assembly in 1987. Invitations to hold the 1989 IASPEI General Assembly have been received from GDR and Turkey, and further invitations are expected. A decision will be taken at the Tokyo Assembly.

Dr Adams reported that this was a difficult period for the Association financially with Assemblies in three consecutive years. The Association's activities are being helped by contracts with Unesco. Total Unesco support for the Hyderabad Assembly was US \$ 12,000.

At the end of 1983 the Association had a cash balance of about \$22,000, but it was expected that by the end of 1984, the cost of the Hyderabad Assembly will reduce this to below \$20,000. The continuing rise in the value of the US dollar relative to sterling has the effect of keeping the Association's administrative costs low.

In general discussion Dr M Barazangi asked whether it would be possible to do more to bring scientists from developing countries to IASPEI Assemblies. Dr Adams replied that the Executive was very much aware of this need, but it was difficult because of the very high air fares from most of the countries involved.

There being no further business the President closed the meeting at 1300.

SCIENTIFIC SESSIONS

During the Assembly the following scientific symposia were held. The symposia on Lithospheric Structure Beneath Asia and Deep-seated Processes in Collision Zones were co-sponsored by ICL.

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|---------------|---|
| 31 Oct, 4 Nov | Seismic Sources. Convenors: J N Brune (USA), S J Singh (India) |
| 2 Nov | Strong Motion Seismology. Convenors: E A Bolt (USA), J Krishna (India) |
| 2 Nov | Physics of the Earth's Interior. Convenors: V N Zharkov (USSR), U Raval (India) |
| 2, 5 Nov | Induced Seismicity. Convenors: B K Rastogi (India), Y-z Ding (China) |
| 4 Nov | Terrestrial Heat Flow and Thermal Regimes. Convenors: A E Beck (Canada), S Uyeda (Japan), R K Verma (India) |
| 4, 6 Nov | Earthquake Prediction. Convenors: K Mogi (Japan), K N Khattri (India), E N Srivastava (India) |
| 5 Nov | Seismic Hazard Evaluation. Convenors: M Barazangi (USA), S C Bhatia (India) |
| 5 Nov | Physical Properties of Material related to Deformation Processes in Collision Zones. Convenors: M Manghnani (USA), J-P Poirier (France), V P Trubitsin (USSR), Y V Ramana (India) |
| 5, 7 Nov | Lithospheric Structure Beneath Asia. Convenors: P Molnar (USA), R N Singh (India). Co-sponsored by ICL |
| 6 Nov | Deep-seated Processes in Collision Zones. Convenors: C Froidevaux (France), H K Gupta (India). Co-sponsored by ICL. |
| 6 Nov | Training and Research in Geosciences in Developing Countries. Convenors: D E Ajakaiye (Nigeria), V L S Bhimasankaram (India) |

Summary reports of these symposia will be published in the IUGG Chronicle.

Associated Meeting

A small working group arranged in conjunction with the South-East Asia Association for Seismology and Earthquake Engineering (SEASEE) met on 6 and 7 November to consider Improvement of Seismological Recording and Cooperation in South-East Asia. This meeting was supported by a grant from ICSU.

FINAL PLENARY SESSION, 7 NOVEMBER 1984

Present: Prof Z Suzuki (President) in the Chair and about 120 delegates and guests.

The President opened the meeting at 1230 and gave a brief report on the business of the Executive Committee meeting held during the Assembly. This was mainly concerned with the programme arrangements for forthcoming Assemblies. Prof Suzuki mentioned that 15 symposia had now been selected for the Tokyo Assembly, and that details of these and other activities would be in the Second Circular, which will be issued early in 1985.

Prof Suzuki also reminded the meeting that two of the Symposia at this Assembly, those on Lithospheric Structure Beneath Asia, and Deep Seated Processes in Collision Zones had been co-sponsored by the Inter-Union Commission on the Lithosphere.

The Secretary-General reported that as this had been a Regional Assembly, rather than a regular General Assembly there had been little formal business. Dr Adams pointed out that the programme of inter-Association activities for the 1987 Vancouver Assembly would be discussed by the IUGG Executive Committee before the Tokyo Assembly, and that Chairmen of Commissions, would be invited to make suggestions for these and also for Association activities.

Preliminary suggestions received for the Inter-Association activities include:

1. Large Scale Three Dimensional Earth Structure - with IAG, IAVCEI
2. Slow Transmission of Stress in the Earth - with IAG
3. Lower Crust Properties and Processes - with IAGA
4. Hydrogeological Regimes and their Subsurface Geothermal Effects - with IAHS

Prof Froidevaux then spoke on behalf of ICL, mentioning that its aims went beyond the individual disciplines of geology and geophysics, and attempted to look at the scientific problems of the lithosphere from all aspects. He also reported that ICL was organizing an International Symposium on Deep Internal Processes and Continental Rifting at Chengdu, China, in September 1985, immediately after the IASPEI Tokyo Assembly.

Prof Suzuki mentioned that due to the absence of Prof Kausel, the Resolutions Committee had been re-constituted as follows:

Prof C Froidevaux (Chairman), Prof V K Gaur and Dr D Weichert

Prof Froidevaux then introduced six resolutions which were adopted, some with minor amendments. These are given as an attachment to this report.

Dr M L Gupta, Secretary of the Local Organizing Committee then spoke to thank all those involved in the arrangements for the Assembly. Many people and organizations had been involved, and despite the rearrangement of some of the programme due to the tragic death of Mrs Gandhi, the scientific work of the Assembly had continued as planned. Several speakers from the floor reiterated their admiration for the local arrangements, and special thanks were expressed to Prof V K Gaur, Dr H Narain, Dr K L Kaila and especially to Dr M L Gupta.

There being no further business, the President finally expressed the sincerest gratitude of the Association to all those who had made this meeting such a great success, and declared the Regional Assembly closed at 1320.

IASPEI RESOLUTIONS ADOPTED AT REGIONAL ASSEMBLYHYDERABAD, INDIA, 7 NOVEMBER 1984

1. IASPEI, Shocked by the tragic death of Mrs Indira Gandhi on the opening day of its Regional Assembly in Hyderabad, Appreciates deeply her tireless support of Indian sciences and in particular her special interest in geophysics as expressed at the foundation laying ceremony of the National Geophysical Research Institute, and Joins the people of India in mourning the loss of their great leader whose struggle for peace, development and justice was recognized the world over.

2. IAPSEI, Considering the importance of studying the seismicity in the north of the Indian subcontinent both to the scientific understanding of the processes acting there, and to the reliable estimation of seismic hazard in this very active and economically important region, and Aware of the deficiencies of the published locations of earthquakes in that region, Strongly Recommends the expansion of seismological recording in the area, and in particular Urges those stations already recording to submit arrival times of regional earthquakes to the International Seismological Centre.

3. IASPEI, Recognizing the success of the three week course on "Inverse Problems in Geophysics" held prior to its Regional Assembly in Hyderabad, sponsored by the Inter-Union Commission on the Lithosphere, and supported by IASPEI, Recommends that a similar course on "Geophysical Signal Analysis and Processing" be organized in 1985 or 1986 at a suitable location for the special benefit of geoscientists from developing countries, possibly with IASPEI cosponsorship.

4. IASPEI, Recognizing the importance of acquiring long-term baseline data for studies of induced seismicity near dams, Recommends that dams of more than 60 m height and 5×10^8 cubic metres storage be adequately instrumented with seismic stations to monitor the seismic regime before and after impounding; that detailed geologic and geohydrologic studies, and in-situ stress measurements in deep bore holes be conducted and that geodetic stations be established.

5. IASPEI, Considering the success of the Hyderabad Regional Assembly in bringing the leading edge of science to a large number of scientists of the region, Encourages that such assemblies, including several special state-of-the-art lectures, be held more often in developing countries, and Further Recommends that geophysical teaching institutes be set up in countries with high geophysical hazards such as in South East Asia.

6. IAFSEI, Having held its Regional Assembly in the shadow of a great tragedy for India and for the world, Expresses profound admiration for the manner in which the Local Organizing Committee has coped with the situation, Congratulates all its members for the excellent preparation of our scientific meeting, for the superb organization and the magnificent facilities provided, and Thanks them, their co-workers and all those involved for this most successful Assembly.

GENERAL ASSEMBLY, TOKYO, 19-31 AUGUST 1985

The 23rd General Assembly of IASPEI will take place at the Keio Plaza Hotel, Shinjuku, Tokyo 19-31 August 1985. The first circular is already available, and the second circular with full details of scientific sessions and details of submission of abstracts will be available early in 1985.

Those wishing further information should contact:

Prof Ryosuke Sato
23rd General Assembly of IASPEI, c/o Inter Group Corp,
Akasaka Yamakatsu Bldg., 8-5-32, Akasaka, Minato-ku,
Tokyo 107, JAPAN

The following preliminary information is given, subject to confirmation in the second circular (US \$ $\frac{1}{2}$ ¥ 245)

Registration Fee ¥ 26,000, ¥ 30,000 After 1 May 1985, ¥ 15,000 Student

Deadlines	Registration for reduced fee	30 April 1985
	Submission of abstracts	31 May 1985

Registration, accommodation and abstract forms will be with the second circular.

Scientific Sessions

The scientific programme will be carried out jointly with ICL, who will cosponsor nine of the previously announced sessions. Symposia titles and convenors are given below. Convenors specifically appointed by ICL are shown with an asterisk. The dates given are still provisional, and will be confirmed in the Second Circular. The length of some sessions may also be altered.

	<u>August</u>
1. Earthquake Hazard Assessment and Prediction (with ICL) Berry, Evison, Mogi, Rikitake*	26, 28-30
2. Seismological Theory and Practice Engdhal, Doornbos, Kondorskaya, Woodhouse, Aoki	22-23
3. Structure and Composition of Active Margins in the Northwestern Pacific and Far East (with ICL) Gnibidenko, Monger*, Kobayashi*	20(pm)-21(am)
4. Thermal Aspects of Tectonics, Magmatism and Metamorphism (with ICL) Chapman, Zwart*, Uyeda*	22
5. Polar Geophysics (with ICL) Groushinsky, Johnson*, Kaminuma	21
6. Deep Structure of the Oceanic Lithosphere (with ICL) Whitmarsh, Francheteau*, Shimamura	29
7. Mechanics of Earthquake Faulting (with ICL) Dieterich, Chen, Kasahara*, Mikumo	23
8. Prediction and Computation of Synthetic Ground Motions Bolt, Shima, Osawa	21
9. Discontinuities in Earth Structure (with ICL) Hurtig, Sacks, Fuchs*, Kumazawa	28
10. Transport Phenomena in Relation to Structure and State of the Earth (with ICL) Neugebauer, Froidevaux*, Ida	27
11. Wave Propagation in Real Media Crampin, Chesnokov, Ando	26-27
12. Reports on Recent Earthquakes Shebalin, Yamakawa	20
13. Seismological Instrumentation and Data Analysis in Developing Countries (with ICL) Simpson, Ajakalye*, Takagi	29-30
14. Historical Seismograms and Earthquakes Lee, Meyers, Shimazaki	27
15. Seismic Studies of the Continental Lithosphere Mooney, Pavlenkova, Asano	20-21

IASPEI ASSEMBLY - TOKYO 1985 - CONVENORS

1. Dr. M.J. Berry,
Earth Physics Branch,
1 Observatory Crescent,
Ottawa K1A 0Y3, CANADA.

Prof. F.F. Evison,
Institute of Geophysics,
Victoria University,
Wellington, NEW ZEALAND.

Prof. Kiyoo Mogi,
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Prof. T. Rikitake,
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2. Dr. E.R. Engdahl,
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Box 25046, Stop 967,
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Prof. Harumi Aoki,
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3. Dr. G.I. Gnibidenko,
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4. Prof. D.S. Chapman,
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5. Prof. N.P. Groushinsky,
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Dr. Katsutada Kaminuma,
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6. Dr. R.B. Whitmarsh,
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Prof. Hideki Shimamura,
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N-10 W-8, Sapporo 060, JAPAN.
7. Dr. J.E. Dieterich,
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345 Middlefield Road, MS 977,
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Dr. Chen Yun-Tai,
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Prof. K. Kasahara,
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Prof. Takeshi Mikumo,
Disaster Prevention Research Institute,
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8. Prof. E.A. Bolt,
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- Prof. Etszo Shima,
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- Prof. Yutaka Osawa,
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9. Prof. E. Hurtig,
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GERMAN DEMOCRATIC REPUBLIC.
- Prof. I.S. Sacks,
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- Prof. K. Fuchs,
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FEDERAL REPUBLIC OF GERMANY
- Prof. Mineo Kumazawa,
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10. Prof. H.J. Neugebauer,
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13. Dr. D.W. Simpson,
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- Prof. Akio Takagi,
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14. Dr. W.H.K. Lee,
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- Dr. H. Meyers,
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- Prof. Kunihiko Shimazaki,
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15. Dr. W.D. Mooney,
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- Dr. N.I. Pavlenkova,
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- Prof. S. Asano,
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EUROPEAN SEISMOLOGICAL COMMISSION

The European Seismological Commission met 1-6 October 1984 at the Kosmos Hotel, Moscow. Main symposia were held on:

- Seismic source physics, earthquake prediction, research and seismic hazard assessment.
- Structure of the lithosphere in continental and marine regions and its complex interpretation.
- Models and numerical procedures in seismology.
- Case histories of recent significant earthquakes in Europe.

In addition all ESC Sub-Commissions held meetings. Officers elected for the next two year period are:-

- President: Prof H Stiller (GDR)
- Vice Presidents: Prof I L Nersesov (USSR), Prof A Udias (Spain)
- General Secretary: J-M Van Gils (Belgium)
- Adjoint Secretary: Dr D Mayer-Rosa (Switzerland)

TECHNICAL TEST FOR DISARMAMENT

The Group of Scientific Experts on Seismic Events of the Committee on Disarmament, which meets regularly in Geneva has been carrying out a technical test from 15 October to 14 December 1984. During this time it is expected that 26 participating countries will undertake rapid exchange of readings from 58 stations through the Global Telecommunications System of the World Meteorological Organization. Data centres in the United States, Soviet Union, Sweden and Peru will compute origins and circulate lists of rapidly located events. It will be interesting to compare eventually these lists with those produced by the US Geological Survey, and the International Seismological Centre.

UNESCO PUBLICATIONS

The contributions to the Unesco International Symposium on Earthquake Prediction, held in April 1979 have now been printed and are available as a book from the Division of Earth Science, Unesco, 7 place de Fontenoy, 75700 Paris, France.

Unesco has also published for the Arab Fund for Economic and Social Development and the Islamic Development Bank, a book containing the technical appendixes of the Programme for Assessment and Mitigation of Earthquake Risk in the Arab Region.

COMMISSION ON CONTROLLED SOURCE SEISMOLOGY

The proceedings of the workshop "Interpretation of Seismic Wave Propagation in Laterally Heterogeneous Structures" held at Einsiedeln, Switzerland, in August 1983 have been published as Report 258 of the Australian Bureau of Mineral Resources, Geology and Geophysics. A further "hard" workshop in this very successful series will be held immediately before the 1985 Tokyo Assembly at Shizuoka, Japan.

FORTHCOMING MEETINGS

The following is a selection of forthcoming meetings in the field of interest of the Association.

- 1985 Apr 1- 4 EUROPEAN UNION OF GEOSCIENCES
Strasbourg, France
Dept of Earth Sciences, Downing Street,
Cambridge, CB2 3EQ, UK
- 1985 Jun 17-21 3RD INTERNATIONAL SYMPOSIUM ON ANALYSIS OF SEISMICITY AND
SEISMIC RISK
Liblice, Czechoslovakia
Dr Z Schenkova, Geophysical Institute, Bocni II,
14131 Prague 4, CZECHOSLOVAKIA
- 1985 Aug 5- 9 INTERNATIONAL TSUNAMI SYMPOSIUM
Victoria and Sidney, British Columbia, Canada,
TSUNAMI '85, PO Box 2267, Sidney, B.C., CANADA V8L 3S8
- 1985 Aug 19-30 23RD GENERAL ASSEMBLY OF IASPEI
Tokyo, Japan
Prof R Sato, c/o Inter Group Corp., Akasaka Yamakatsu Bldg.,
8-5-32 Akasaka, Minato-ku, Tokyo 107, JAPAN
- 1985 Sep 3- 6 INTERNATIONAL SYMPOSIUM ON FUZZY MATHEMATICS IN EARTHQUAKE RESEARCHES
Beijing, China
Prof Feng Deyi, Seismological Bureau of Tianjin,
Friendship Avenue, Tianjin, CHINA
- 1985 Sep INTERNATIONAL SYMPOSIUM ON DEEP INTERNAL PROCESSES AND
CONTINENTAL RIFTING
Chengdu, China
DIPCR Conference, Institute of Geophysics, Academia
Sinica, PO Box 928, Beijing, CHINA
- 1985 Oct 28 - PHYSICS OF FRACTURING AND SEISMIC ENERGY RELEASE
Nov 1 Liblice, Czechoslovakia
Dr J Kozak, Geophysical Institute, Bocni II,
14131 Prague 4, CZECHOSLOVAKIA
- 1985 Nov 4- 9 PHYSICS AND GEODYNAMICS OF DEFORMATIONAL PROCESSES IN
EARTHQUAKE FOCAL REGIONS
Potsdam, G.D.R.
Prof Knoll, Zentralinstitut fuer Physik der Erde,
DDR-1500 Potsdam, GERMAN DEMOCRATIC REPUBLIC
- 1986 Feb 1- 9 INTERNATIONAL VOLCANOLOGICAL CONGRESS
Auckland, Hamilton, Rotorua, New Zealand
IAVCEI, Royal Society of New Zealand
- 1986 Jul 15-17 DEEP SEISMIC REFLECTION PROFILING OF THE CONTINENTAL LITHOSPHERE.
Cambridge, UK
BIRPS, Bullard Labs, Magingley Road, Cambridge, CB3 0EZ, UK.
- 1987 Aug 9-23 XIX GENERAL ASSEMBLY OF IUGG
Vancouver, Canada