

IASPEI Newsletter
(No. 22, August 1988)

To: National Correspondents, Officers and Representatives of the Association, and related organisations.

You will see from this Newsletter that arrangements are progressing well for our General Assembly in Istanbul next year, and that there is also the exciting possibility of an additional Regional Assembly jointly sponsored by IASPEI, Unesco and ICL, being held in Africa in 1990.

Various meetings of interest to IASPEI are taking place about now, including the World Conference on Earthquake Engineering in Japan, and the General Assembly of the European Seismological Commission in Bulgaria. I hope to have reports of these meetings in the next Newsletter.

Robin Adams

R. D. Adams
Secretary-General

IUGG REVIEW

IASPEI was asked at short notice to take part in a review by the IUGG Bureau at Copenhagen in May. This is part of a programme whereby all Associations of the Union discuss their activities with the IUGG Bureau, to improve the Union's knowledge of the activities and needs of the Associations, and to give the Associations an opportunity to discuss scientific policy with the Union's Bureau.

Our President and Secretary-General spent an afternoon with the Bureau, explaining IASPEI's history, structure, recent activities and plans for the future. The Bureau had no major comments or criticism and seemed well satisfied with IASPEI affairs. We discussed IASPEI's interest in the International Decade for Natural Disaster Reduction, and the suggestion came from the Bureau that IASPEI could take a major responsibility for IUGG involvement in the Decade. Another area of discussion concerned the position of Geochemistry in the Union, following the disbanding of the Union Committee on Geochemistry some years ago. The chemistry of the outer parts of the Earth, and in particular the chemistry of volcanic rocks are well catered for by IAVCEI, but it seems that those interested in the chemistry of the deeper parts of the Earth may have more in common with IASPEI interests.

25th GENERAL ASSEMBLY OF IASPEI, ISTANBUL, TURKEY
21 AUGUST - 1 SEPTEMBER 1989

The First Circular has now been issued, and those who wish to receive it together with further information should contact:

IASPEI Conference Organization Committee
 Bayindirlik ve Iskan Bakanligi
 Necatibey Caddesi 63
 Ankara, Turkey
 Telex: 44041 DAE TR

The Second Circular to be issued later this year, will include the final call for papers, and full details of the scientific sessions. We expect that abstracts will have to be submitted to convenors by mid-March 1989. This and all other details given here, are subject to confirmation in the Second Circular.

Registration fee:

| | |
|----------------------|-------------------------------|
| Delegates | US \$150 before 30 April 1989 |
| | \$200 later |
| Accompanying persons | \$75 before 30 April 1989 |
| | \$125 later |
| Students | \$75 |

The programme of main scientific sessions has now been decided, with dates and convenors. The principal convenors are named first, and their addresses given. Sessions S3, S5 and W2 are jointly sponsored by ICL.

Symposia

- | | | |
|----|---|-----------------|
| S1 | Scientific Horizons in IASPEI St. Mueller (Switzerland) | 21(pm) Aug |
| S2 | Detailed Structure and Processes of Active Margins H. Shimamura (Japan), A. Hirn (France). J. Makris (FRG) | 25 Aug |
| S3 | The Earth's Deep Interior and Dynamics of Subducting Slabs - (Joint with ICL) S. Karato (USA), D.J. Doornbos (Norway), T.H. Jordan (USA), W.R. Peltier (Canada) | 31 Aug, 1 Sep |
| S4 | Geodynamical Processes: Quantitative Models and New Geophysical Constraints U.R. Christensen (FRG), L. Fleitout (France), K.P. Furlong (USA) | 22, 23 (am) Aug |
| S5 | Physical & Petrological Nature of Discontinuities in the Lithosphere - (Joint with ICL) W. D. Mooney, (USA), D.J. Blundell (UK), J. Hall (Canada), N.V. Pavlenkova (USSR), S.V. Sobolev (USS) | 28, 29(am) Aug |
| S6 | Seismotectonics of the Alpine Himalayan Belt and Other Major Orogenies A.M.C. Sengor (Turkey), V. Babuska (Czecho- slovakia), M. Barazangi (USA), N. Pavoni (Switzerland) | 23(pm), 24 Aug |

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|-----|---|-------------------|
| S7 | Modelling the Earthquake Source C.H. Scholz (USA), T. Mikumo (Japan), R. Teisseyre (Poland) | 24 Aug |
| S8 | Determination of Source Parameters Using Digital Seismograms S.A. Sipkin (USA), D. Seidl (FRG) | 22, 23 Aug |
| S9 | Earthquake Prediction & Premonitory Phenomena M. Wyss (USA), S. Crampin (UK), A.M. Isikara (Turkey), S-x Xu (China) | 28, 29 Aug |
| S10 | Earthquake Hazard Assessment in the Interplate Setting R.K. McGuire (USA), P. Gulkan (Turkey), V. Schenk (Czechoslovakia) | 30 Aug |
| S11 | Estimation of Site Specific Ground Motion for Large Earthquakes B. A. Bolt (USA), M. Erdik (Turkey), L-l Xie (China) | 25 Aug |
| S12 | Computation and Interpretation of Seismic Wavefields in 2-D and 3-D Structures B.L.N. Kennett (Australia), N. Canitez (Turkey), L.P. Vinnik (USSR) | 30, 31(am) Aug |
| S13 | Scattering & Attenuation of Seismic Waves K. Aki (USA), E.S. Husebye (Norway), A.V. Nikolaev (USSR), H. Sato (Japan), R.S. Wu (USA) | 31(pm) Aug, 1 Sep |
| S14 | Forward and Inverse Techniques in Geothermal Modelling V. Cermak (Czechoslovakia), H.J. Sass (USA) | 25, 28(am) Aug |
| S15 | Correlation of Geothermal and Other Parameters D.S. Chapman (USA), G. Ranalli (Canada), S. Sacks (USA) | 28(pm), 29 Aug |

Workshops

- | | | |
|----|---|------------|
| W1 | Travel Time Tables & Earthquake Location Problems E.R. Engdahl (USA), B.L.N. Kennett (Australia), N.V. Kondorskaya (USSR) | 28 Aug |
| W2 | Regional Data Centres: State of the Art - (Joint with ICL) J. Bonnin (France), A. Gvishiani (USSR) E.S. Husebye (Norway) | 24(pm) Aug |
| W3 | Instrumentation and Data Analysis in Developing Countries S.E. Pirhonen (Finland), R.D. Adams (UK) R. Ates (Turkey) | 25 Aug |
| W4 | Comprehensive Mapping of the Lithosphere V.V. Belousov (USSR), E. Hurtig (GDR) | 30(am) Aug |

In addition, IASPEI Commissions are expected to meet and may be arranging additional workshops and working group meetings. Other groups such as the International Seismological Centre Governing Council and Executive Committee, and the Federation of Digital Broadband Seismograph Networks will also take advantage of the Assembly to hold meetings.

Principal Convenors, Istanbul Assembly

1. Prof St Mueller
Institut fuer Geophysik
ETH Hoenggerberg
CH 8093 Zurich
Switzerland
2. Prof H Shimamura
Laboratories for Ocean Bottom
Seismology
Hokkaido University
Sapporo 060
Japan
3. Dr S Karato
Ocean Research Institute
University of Tokyo
1-15-1 Minamidai
Tokyo 164
Japan
4. Dr U R Christensen
Max Planck Inst. fuer Chemie
Staarstr. 23, Abt. Geochemie
D 6500 Mainz
Federal Republic of Germany
5. Dr W D Mooney
U S Geological Survey
345 Middlefield Road
Menlo Park, CA 94075
U S A
6. Dr A M C Sengor
Istanbul Technical University
Faculty of Mines, Dept. of
Geology
Tesvikiye
80394 Istanbul
Turkey
7. Prof C H Scholz
Lamont-Doherty Geological
Observatory
Palisades, NY 10964
U S A
8. Dr S A Sipkin
U S Geological Survey
Denver Federal Center
P O Box 25046, Mail stop 967
Denver, CO 80225
U S A
9. Dr M Wyss
CIRES
University of Colorado
Campus Box 449
Boulder, CO 80309
U S A
10. Dr R K McGuire
Risk Engineering Inc
5255 Pine Ridge Road
Golden CO 80403
U S A
11. Prof B A Bolt
Dept of Geology & Geophysics
University of California
Berkeley, CA 94720
U S A
12. Prof B L N Kennett
Res. School of Earth Sciences
Australian National University
GPO Box 4
Canberra ACT 2601
Australia
13. Prof K Aki
Dept of Geological Sciences
Univ. of Southern California
Los Angeles, CA 90089
U S A
14. Dr V Cermak
Geophysical Institute
Bocni II, cp 1401
14131 Prague 4 - Sporilov
Czechoslovakia
15. Dr D S Chapman
Dept of Geology & Geophysics
University of Utah
Salt Lake City, UT 84112
U S A
- W1. Dr E R Engdahl
U S Geological Survey
Denver Federal Center
PO Box 25046, Mail Stop 967
Denver, CO 80225
U S A
- W2. Prof J Bonnin
CSEM
5 rue Rene Descartes
F 67084 Strasbourg
France
- W3. Dr S Pirhonen
Institute of Seismology
University of Helsinki
Et. Hesperianku 4
SF 00100 Helsinki
Finland
- W4. Prof V V Belousov
Soviet Geophysical Committee
Molodezhnaya 3
Moscow 117 296
U S S R

IASPEI COMMISSIONS

Membership of the following IASPEI Commissions has now been established by their respective Chairmen:

Commission on Controlled Source Seismology

H Shimamura (Japan) Chairman, N Pavlenkova (USSR) Vice-Chairman, W D Mooney (USA) Secretary, J Ansorge (Switzerland), S Asano (Japan), E Banda (Spain), D J Blundell (UK), L W Braile (USA), D M Finlayson (Australia), A Ginzburg (Israel), S Gregersen (Denmark), A Guterch (Poland), A Hirn (France), E Hurtig (GDR), A W B Jacob (Ireland), K L Kaila (India), C E Lund (Sweden), U Luosto (Finland), R F Mereu (Canada), F A Nava (Mexico), R. Nicolich (Italy), L C Ocola (Peru), K Posgay (Hungary), C Prodehl (FRG), I Psencik (Czechoslovakia), M A Sellevoll (Norway), S V Sobolev (USSR), R-S Zeng (China).

Commission on Geodynamics and Tectonics

C. Froidevaux (France) Chairman, V. Babuska (Czechoslovakia), M Barazangi (USA), U Christensen (FRG), L Cserepes (Hungary), L Fleitout (France), K Furlong (USA), L-S Gao (China), D Giardini (Italy), G T Jarvis (Canada), K Khattri (India), M Kogan (USSR), K Lambeck (Australia), I Nakanishi (Japan), P Olson (USA), R N Singh (India), R Wang (China), M Wortel (Netherlands), Y Zorin (USSR).

International Heat Flow Commission

S Uyeda (Japan) Chairman, H N Pollack (USA) Vice-Chairman, A E Beck (Canada) Past Chairman, V Cermak (Czechoslovakia) Secretary, V M Hamza (Brazil) Vice-Secretary, R G Allis (New Zealand), N Balling (Denmark), G Buntebarth (FRG), C Clauser (FRG), F Horvath (Hungary), E Hurtig (GDR), T Lewis (Canada), F Lucazeau (France), J H Sass (USA), E A Suetnova (USSR), T-x Tan (China), I M Thamrin (Indonesia), J-y Wang (China), Y Yamand (Japan), V I Zui (USSR).

Commission on Physical Properties of Materials of the Earth's Interior

T Yagi (Japan) Chairman, Y Gueguen (France) Co-Chairman, V Babuska (Czechoslovakia), R Boehler (FRG), S Franck (GDR), A Kadik (USSR), S Karato (Japan), J Leliwa-Kopystyaski (Poland), F Mulargia (Italy), W R Peltier (Canada), H A Spetzler (USA), D J Weidner (USA), G Zhou (China)

Commission on Practice

E R Engdahl (USA) Chairman, N V Kondorskaya (USSR) Vice-Chairman, J Vanek (Czechoslovakia) Secretary, S S Alexander (USA), P W Basham (Canada), J Bonnin (France), Y Chen (China), M A Chinnery (USA), L V Christoskov (Bulgaria), D Denham (Australia), V Gusiakov (USSR), E G Kausel (Chile), R M Kebeasy (Egypt), O Kulhanek (Sweden), W H K Lee (USA), S E Pirhonen (Finland), D Seidl (FRG), W D Smith (New Zealand), H N Srivastava (India), K Tsumura (Japan).

Commission on Seismological Theory

B L N Kennett (Australia) Chairman, F Bonafede (Italy), V Cervený (Czechoslovakia), C H Chapman (UK), V Cormier (USA), F A Dahlen (USA), D J Doornbos (Norway), A Gabrielov (USSR), R Madariaga (France), A G Marchuk (USSR), G Nolet (Netherlands), M Vishik (USSR), J H Woodhouse (USA).

Commission on Strong Motion Seismology

B A Bolt (USA) Chairman, N N Ambraseys (UK), D M Boore (USA), M Erkik (Turkey), V M Graizer (USSR), C S Oliveira (Portugal), G F Panza (Italy), V Schenk (Czechoslovakia), E Shima (Japan), D Weichert (Canada) L-I Xie (China)

Commission on Earthquake Hazard and Prediction

M J Berry (Canada) Chairman, S-x Xu (China) Vice-Chairman, K Hamada (Japan), W D Iwan (USA), J Lomnitz-Adler (Mexico), R K McGuire (USA), V Schenk (Czechoslovakia), C H Scholz (USA), G A Sobolev (USSR), K V Steinbrugge (USA), B E Tucker (USA), M Wyss (USA), C Yong (China), J Zschau (FRG)

VANCOUVER PROCEEDINGS

The Comptes Rendus of the Vancouver General Assembly of IUGG have now been published in a very comprehensive volume, which gives details of all Union and Association activities, with full reports of business meetings, lists of scientific sessions and resolutions. In addition, there are sections giving the statutes of Union and Associations, together with lists of participants at the Assembly.

The local organisers, under the lead of Professor R.D. Russell, are to be congratulated on producing this full report so quickly.

EFFECTS OF SURFACE GEOLOGY ON SEISMIC MOTION

The preliminary proceedings of this Workshop, held at the Vancouver Assembly on 12-13 August 1987, have been produced as Technical Report 88-1, of the Earthquake Shaking Assessment Unit of the California Division of Mines and Geology, Sacramento. The report is prepared by Charles R. Real, and describes the workshop arranged jointly for IASPEI and the International Association of Earthquake Engineers (IAEE) by B.E. Tucker and W.D. Iwan.

The volume contains seven extensive papers from contributors in the United States, Canada, China, Japan and Taiwan. The group is holding a further workshop in conjunction with the World Earthquake Engineering Conference in Japan in August 1988.

REGIONAL SEISMOLOGICAL ASSEMBLY, 1990

It now seems increasingly likely that there will be a joint IASPEI/Unesco/ICL Regional Seismological Assembly, held in Nairobi in mid-September 1990. Details will be discussed at a meeting of the Working Group on Seismological Recording and Earth Science Studies in the African Continent, which will be held in Lusaka in September 1988, and the Assembly will then have to be formally approved by the three sponsoring bodies. We hope the programme will be able to include all aspects of seismological, tectonic and related studies relevant to Africa, and will attract many participants both from within and outside Africa.

HONOURS

Among Fellows of the American Geophysical Union elected this year are our Executive Committee Member, Professor B.L.N. Kennet of the Australian National University, and Professor J.R. Rice of Harvard University, who has also been active in IASPEI affairs.

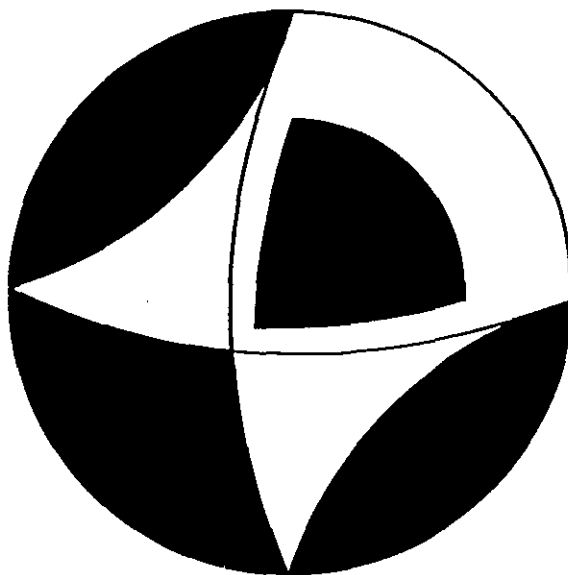
We congratulate Professor V.I. Keilis-Borok, former Vice-President of IASPEI, and now President of IUGG, on his election to the Academy of Sciences of USSR.

IASPEI SYMBOL

The Bureau has been considering a suitable symbol or 'logo' for IASPEI, particularly in order to have some identifying symbol on publications and reprints of our Assembly proceedings.

At present we favour this design which is closely modelled on the IUGG symbol. In the coloured version, the upper part would be green and the lower blue, but the symbol may also be used in black and white as here.

Although it would be nice to include more seismological detail, we have deliberately kept the symbol simple, so that it may be reduced in size for letterheads and other purposes.



INTERNATIONAL DECADE FOR NATURAL DISASTER REDUCTION

The United Nations has appointed an International Ad Hoc Group of Experts for the IDNDR, which held its first meeting in Geneva, early in July. The Group has broad representation geographically, and by discipline, and includes among its 24 members the following earth scientists and earthquake engineers: C Allegre (France), A S Arya (India), D Bensari (Morocco), J C I Dooge (Ireland), A A Giesecke (Peru), V. Karnik (Czechoslovakia), V I Keilis-Borok (USSR), R L Kintinar (Philippines), J Petrovski (Yugoslavia), E Rosenbleuth (Mexico) and L-1 Xie (China).

The first meeting was chaired by Professor Frank Press, on whose initiative the decade was established. The Group's task is to prepare recommendations for the Secretary-General of UN on the operation of the Decade. Further meetings of the Group will be open to interested observers, and we hope that IASPEI will be represented, either directly or through IUGG.

A NOTABLE CENTENARY

On 13 May 1988, Miss Inge Lehmann celebrated her 100th birthday. She was present at a small gathering in Copenhagen where an address was given by Professor V. I. Keilis-Borok, not only in his capacity as an eminent seismologist, but as President of IUGG. Our Association was represented by our President, Professor St. Mueller, who also attended a small dinner party for Miss Lehmann that evening. Formal greetings from IASPEI were conveyed to Miss Lehmann, and we have received a letter of thanks from her. From all reports, it seems that Miss Lehmann enjoyed the occasion, and still takes a lively interest in seismological matters, as befits the discoverer of the Earth's inner core.

FORTHCOMING MEETINGS

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

- 1988 Oct 3-8 WORKSHOP ON VOLCANIC SEISMOLOGY
 Capri, Italy
 Prof. Paolo Gasparino, Dipartimento di Geofisica and
 Vulcanologia, Universita di Napoli, 80138 Naples, ITALY
- 1988 Nov 14 EXPLORATION AND DEVELOPMENT OF GEOTHERMAL RESOURCES
 Kumamoto and Beppu, Japan
 Geothermal Research Society, c/o Geological Survey of Japan,
 1-1-3 Higashi, Yatabe, Tsukuba, Ibaraki 305, JAPAN
- 1988 Nov 14-18 SEMINAR ON THE PREDICTION OF EARTHQUAKES
 Lisbon, Portugal
 Economic Commission for Europe
 Laboratorio Nacional de Engenharia Civil, Av. do Brasil, 101,
 1799 Lisbon Codex, PORTUGAL
- 1989 Feb 1-3 STRUCTURE AND DYNAMICS OF THE INDIAN LITHOSPHERE
 Hyderabad, India
 Dr. R.N. Singh, NGRI, Hyderabad 500007, INDIA
- 1989 Mar 27 - STRESS, STRENGTH AND VISCOSITY IN THE LITHOSPHERE
 Apr 2 Potsdam, German Democratic Republic
 Prof. E. Hurtig, ZIPE, Potsdam, DDR 1561, GDR
- 1989 Apr 13-14 SEISMICITY, SEISMOTECTONIC AND SEISMIC RISK OF THE
 IBERO-MAGHREBIAN REGION
 Madrid, Spain
 Catedra de Geofisica, Universidad Complutense, 28040 Madrid
 SPAIN
- 1989 Jul 9-19 28th INTERNATIONAL GEOLOGICAL CONGRESS
 Washington, DC, USA
 IGC, P.O. Box 1001, Herndon, Va., 22070, USA
- 1989 Aug 2-4 PREPAREDNESS, MITIGATION AND MANAGMENT OF NATURAL DISASTERS
 Roorkee, India
 Dr R C Agrawal, Dept. of Earthquake Engineering, University
 of Roorkee, Roorkee 247 667, INDIA
- 1989 Aug 21 - 25th GENERAL ASSEMBLY, IASPEI
 Sep 1 Istanbul, Turkey
 IASPEI Conference Organization Committee, Bayindirlik ve
 Iskan Bakanligi, Necatibey Caddesi 63, Ankara, TURKEY
- 1989 Sep 4-9 4th INTERNATIONAL SYMPOSIUM ON ANALYSIS OF SEISMICITY AND
 SEISMIC RISK
 Bechyne, Czechoslovakia
 Dr. Z. Schenkova, Geophysical Institute, Bocni II,
 14131 Prague 4, CZECHOSLOVAKIA
- 1991 Aug 11-24 XX GENERAL ASSEMBLY, IUGG
 Vienna, Austria