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In your reply refer to our ref:

## NEWSLETTER NO. 3 JANUARY 1981

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

While exchanging good wishes for 1981, we must express our sympathy for all those who have suffered in the recent earthquake catastrophes in Algeria and Italy. It is sobering to realise that these events were not exceptionally large by seismological standards, but that their effects were aggravated by their closeness to populated areas, where there did not appear to be adequate precautions to withstand shaking of such violence. One of the chief aims of seismologists must be to continue to seek ways of alleviating such suffering, both by the understanding of earthquakes themselves and by learning to apply this knowledge to produce safer structures.

IASPEI looks forward in 1981 to holding its 21st General Assembly, and we wish all colleagues a prosperous and successful year.

*Robin Adams*

R D Adams  
Secretary-General

## GENERAL ASSEMBLY, LONDON, ONTARIO 21-30 JULY 1981

The call for papers has been circulated through convenors and national correspondents. The second circular, with full details of registration procedures and scientific and social programmes, is to be issued by the Local Organizing Committee this month. Copies of a publicity poster are enclosed with this Newsletter, and national correspondents are asked to distribute these in their countries.

Please note the following deadlines:

- 1 March 1981 Abstracts to be submitted to:-  
Prof A E Beck  
Department of Geophysics  
University of Western Ontario  
London, CANADA, N6A 5B7  
with copy to the appropriate convenor
- 1 April 1981 Final date for registration at reduced fee.  
(Can \$95 regular, \$25 student or guest)

### Business Sessions

Would national correspondents please take this Newsletter as formal notice of plenary sessions to be held as follows:

Tuesday 21 July 0900 - 1100  
Thursday 30 July 1600 - 1730

Some brief business sessions will be held as needed during the Assembly, and it is planned to hold an informal open meeting to discuss Association affairs on the evening of Monday 27 July.

### Revision of Statutes

The main item of formal business concerns a revision of statutes. This is not intended to be a major revision, but some inconsistencies have to be removed and action taken on a Resolution passed at the last Assembly. The present version of the statutes is published in the Comptes Rendus of the XVI General Assembly of IUGG (Grenoble 1975) pp 184-188. Those who do not have access to this may request a copy from the Secretary-General.

Would national correspondents please take this Newsletter as formal notice that the following changes will be proposed:

- |                                    |  |
|------------------------------------|--|
| 1. Article 5, line 6               | Insert a comma between "may" and "with".   |
| 2. Article 9, line 1               | "Committees" to have lower-case "c".   |
| 3. Article 9, paragraph 3          | Now to read, "The Executive Committee may appoint an Associate Secretary, who will be ex-officio a Member of the Executive Committee, but without vote." |
| 4. Section V                       | Delete "and Central Bureau" from heading.  |
| 5. Article 11                      | To be deleted.   |
| 6. Articles 12 and 13              | To be re-numbered 11 and 12.   |
| 7. Article 14                      | To be deleted. (Note that the printed English version has one line missing.)   |
| 8. Articles 15 to 25               | To be re-numbered 13 to 23.  |
| 9. Former article 19 Last sentence | Replace word "him" by "the Treasurer".   |
| 10. By-Laws                        |  |
| Introduction, Last sentence        | Change "Article 21" to "Article 19".   |
| 11. By-Law 2, lines 7 and 8        | Replace "men" with "persons".  |

Changes 3, 4 and 7 are a consequence of the Association no longer operating a Central Bureau. Changes 9 and 11 follow the directive of Resolution 8 adopted at the 1979 General Assembly, and other changes reflect consequent re-numbering of articles, or minor changes in expression.

Under Article 21 (c), national correspondents who will not be present or represented at the 1981 Assembly are hereby invited to forward their vote on these changes to the Secretary-General before the Assembly.

### EUROPEAN SEISMOLOGICAL COMMISSION

The ESC met 21-29 August 1980 at Budapest, Hungary, in conjunction with the European Geophysical Society.

The new Bureau is:

- |                     |  |
|---------------------|--|
| President           | - Dr A R Ritsema (Netherlands)                             |
| Vice-Presidents     | - Dr E Bisztricsany (Hungary)<br>Dr N V Kondorskaya (USSR) |
| Secretary-General   | - J M VanGils (Belgium)                                    |
| Assistant-Secretary | - Dr L Waniek (Czechoslovakia)                             |

New sub-commissions were formed on Earthquake Prediction Research (Chairman Prof H Berckhemer) and on Engineering Seismology (Chairman Dr A Lopez-Arroyo).

Specialised seismological symposia were held as follows:

#### Earthquake Hazard and Prediction

Twenty-two papers were presented on various precursory phenomena, e.g., variation of  $V_p/V_s$ , earthquake lights and changes in the electro-magnetic field. The other topics covered related to earthquake hazard assessment and earthquake patterns in space and time, as well as descriptions of instrumental systems for monitoring seismicity and precursory phenomena. Finally, existing projects on earthquake prediction research in the European area were described.

(V Karnik, Convenor)

#### European Digital Seismograph Network

The "EDSNET" Symposium brought together the problems and opportunities of the new seismology in the framework of the actual potentialities of European systems, with the communication possibilities which were now offered via satellites. In particular, a free channel on the existing "Meteosat" and its projected successor was offered for the use of any agency which was prepared to equip itself with a suitable ground terminal, but delegates seemed to feel that it was too early to formulate plans for concerted action in this or other areas. The possibilities for future development will continue, however, to be explored by correspondence and personal contact between members of the European community, taking into account the wider consultations in the IASPEI Commission on Digital Seismology.

(P L Willmore, Convenor)

The IASPEI President, Professor Bruce Bolt, gave an invited lecture on "Strong Motion Seismology" and various IASPEI groups took the opportunity of meeting. The Commission on Practice held an informal meeting of those present, and its Sub-Commission on Magnitude held a joint meeting with the Magnitude Working Group of ESC. The main item discussed at the Commission meeting was the question of possible revision of the Manual of Seismological Observatory Practice.

#### INTERNATIONAL HEAT FLOW COMMISSION

The IHFC met twice in open session during the Budapest meetings of the European Geophysical Society in August 1980.

One of the main points of concern was the difficulty of assembling most of the members of the Heat Flow Commission on a regular basis. It was concluded that part of the problem lay in the lack of specific objectives for which external financing could be obtained to assist members to attend Commission meetings. Therefore, one of the principal decisions taken was to prepare a three-year plan incorporating much of the preliminary work carried out by Commission members on proposals for standardizing terminology, compiling data on, and possibly classifying, geothermal areas, preparing data for world heat flow maps, and specifically to regard the meetings at London (1981) Liblice (1982) and Hamburg (1983) as important target dates for which financing will be sought to bring members together to discuss and resolve some of the many problems.

Dr Herbert Meyers of the World Data Center for Solid Earth Geophysics, USA, presented the Commission with a draft of a new Global Heat Flow Map prepared on the basis of old data plus new data provided by the Chairman of our Working Group, Dr Chapman.

The President suggested that there was a need for a heat flow manual in which techniques and procedures could be recommended as part of the standardization procedure. Our Assistant Secretary, Dr Ryback, proposed that he collaborate with Dr Stegena and Dr Haenel to draw up a proposed list of contents which could be discussed at the London meeting.

(L Stegena, President)

## INTER-UNION COMMISSION ON THE LITHOSPHERE (ICL)

The joint IUGG/IUGS Steering Committee for the ICL met in Paris in July 1980, and finalized recommendations to be submitted to ICSU for the establishment of the new Commission, which is described as "an international programme of interdisciplinary research for improved understanding of the development of the Earth, especially those aspects on which human society depends for its well-being".

The following officers have been nominated:

President	Prof Raymond A Price, Canada, IUGS
Secretary-General	Dr Edward A Flinn, USA, IUGG
Bureau Members	Prof E V Artyushkov, USSR, IUGG
	Dr Umberto Cordani, Brazil, IUGS
	Prof Henning Illies, FRG, IUGS
	Prof Kurt Lambeck, Australia, IUGG
	Prof Seiya Uyeda, Japan, IUGG-IUGS

It has been recommended that the following Working Groups be created to initiate the programme:

1. Precambrian Lithosphere
2. Recent (younger than 10,000 years) Plate Motions and Deformations
3. The Subduction Process
4. Phanerozoic Orogenic Belts
5. Intraplate Phenomena
6. Internal Processes and Properties in Lithospheric Evolution

Various Committees have also been proposed, including:

Committee on Environmental Geology and Geophysics  
 Committee on Mineral and Energy Resources  
 Committee on the Participation of Developing Countries  
 Committee on Data Centers and Exchange

Various Regional Committees will be created as required to meet the need for groupings of scientists interested in particular regions.

### STANDARD EARTH MODEL

A paper "Preliminary Reference Earth Model" has now been prepared for the Standard Earth Model Committee of IUGG, by Profs A M Dziewonski, of Harvard University, and D L Anderson, of California Institute of Technology. It is hoped that this will be published within the next few months in "Physics of the Earth and Planetary Interiors". This model will be discussed at an open meeting at the London Assembly, at which comments will be asked for. The authors consider that in particular the subjects of anisotropy, attenuation, discontinuities in the upper mantle, structure of the D" region, properties of the outer and inner core are among those that deserve special attention.

Those requiring full details of the model may obtain a preprint from the authors.

### RECENT CRUSTAL MOVEMENTS

The First International Symposium on Recent Crustal Movements in Africa is being organized by the UN Economic Commission for Africa, in co-operation with the Commission on Recent Crustal Movements, in Addis Ababa, Ethiopia, 5-16 May 1981. Its objectives may be summarized as:

1. To foster the study and monitoring of crustal movements in connection with the safety of constructions arising from economic development, e.g., large dams and long pipelines.
2. To review recent researches on continental drift and geological correlation,

with application to exploration for minerals and oil.

3. To plan field operations which should be carried out on crustal movement in Africa.
4. To study practical problems relevant to these plans.

Those interested should contact Mr A M Wassef, Economic Commission for Africa, Box 3001, Addis Ababa.

Please note also that during the General Meeting of IAG, in Tokyo, 7-20 May 1982, there will be a Symposium on "Recent Crustal Movements and Phenomena Associated with Earthquakes and Volcanism". This Symposium will be devoted to new results on recent crustal movement studies on local, regional and global scales, and special attention will be paid to geodetic applications in earthquake and volcanic prediction. Papers from the Asian and Pacific areas will be especially welcome.

Further information may be obtained from Dr P Vyskocil, ICRCM, CS-250 66 ZDIBY, 98, Czechoslovakia.

### EARTHQUAKE ENGINEERING

The 7th World Conference on Earthquake Engineering, in Istanbul in September 1980, was interrupted by the change of government on 12 September. Among the topics scheduled for discussion on that day was a session on "Political and Sociological Effects"!

The new President of the International Association of Earthquake Engineering is Prof D E Hudson of California Institute of Technology, and Dr Y Osawa, of Tokyo, continues as Secretary-General. The next meeting is provisionally planned to be held in the United States.

### EARTHQUAKE PREDICTION RESEARCH

A new journal with the above title is to be published from October 1981, edited by Prof Rikitake, of the Tokyo Institute of Technology. The journal will be published quarterly, and may be ordered from D Reidel Publishing Company in the Netherlands or USA, at an annual subscription of US \$35 (Dfl 70), plus handling.

### OBITUARY

It is with extreme sorrow that we learn of the death, on 1 January 1981, of Prof Y U Riznichenko, of Moscow. We extend our deepest sympathy to his wife, Prof I P Kosminskaya, his family and colleagues.

### FORTHCOMING MEETINGS

The following is a selection of meetings, from March 1981, in the fields of interest of the Association:

- |      |                  |   |
|------|------------------|---|
| 1981 | Mar 23-25        | SEISMOLOGICAL SOCIETY OF AMERICA - ANNUAL MEETING<br>Berkeley, California, USA<br>Dr R A Uhrhammer, Seismographic Station,<br>University of California, Berkeley, Ca 94720, USA   |
| 1981 | Mar 23-<br>Apr 3 | EARLY EVOLUTION OF THE EARTH AND PLANETS<br>Newcastle-upon-Tyne, England<br>Nato Advanced Study Institute<br>School of Physics, The University, Newcastle-upon-Tyne, UK   |
| 1981 | May 5-16         | FIRST INTERNATIONAL SYMPOSIUM ON RECENT CRUSTAL MOVEMENTS IN AFRICA<br>Addis Ababa, Ethiopia<br>UN Economic Commission for Africa, Commission on Recent Crustal Mvnts.<br>Mr A M Wassef, ECA, Box 3001, Addis Ababa, ETHIOPIA |

- 1981 May 18-23 SECOND SYMPOSIUM ON ANALYSIS OF SEISMICITY AND ON SEISMIC HAZARD  
Liblice, Czechoslovakia  
ESC and KAPG  
Dr V Karnik, Geophysical Institute, Prague, CZECHOSLOVAKIA
- 1981 May 25-29 INTERNATIONAL TSUNAMI SYMPOSIUM  
Sendai-Ohfunato, Japan  
IUGG Tsunami Commission  
Prof K Kajiura, ERI, University of Tokyo, JAPAN
- 1981 May 25-29 AGU SPRING MEETING  
Baltimore, Maryland, USA  
American Geophysical Union  
2000 Florida Avenue NW, Washington DC 20009, USA
- 1981 Jul 21-30 IASPEI GENERAL ASSEMBLY  
London, Ontario, Canada  
Prof Beck, Dept of Geophysics, University of Western Ontario,  
London, CANADA N6A 5B7
- 1981 Aug 24-29 EUROPEAN GEOPHYSICAL SOCIETY MEETING  
Uppsala, Sweden  
Mr C R Argent, Royal Society, 6 Carlton Hse Terrace, London, UK
- 1981 Nov 2- 7 SYMPOSIUM ON PHYSICAL AND GEODYNAMICAL PROCESSES IN EARTHQUAKE FOCAL  
REGIONS  
Potsdam, GDR  
ESC, KAPG  
Prof E Hurtig, Zentralinstitut fuer Physik der Erde, Potsdam, GDR
- 1981 Nov 30-  
Dec 4 FIRST INTERNATIONAL WORKSHOP SHAKEISTICS  
Rome, Italy  
Italian National Committee for Nuclear Energy  
RAD-RSI-INGSITO, CSN-CASACCIA, CNEN, C.P. 2400, Rome, ITALY
- 1982 May 7-20 GENERAL MEETING IAG (Recent Crustal Movements and Phenomena Associated  
with Earthquake and Volcanism)  
Tokyo, Japan  
IAG, CRCM
- 1982 Aug 23-27 EUROPEAN SEISMOLOGICAL COMMISSION  
Leeds, England  
ESC  
Prof J C Briden, Dept of Earth Sciences, The University, Leeds, UK
- 1982 Sep 6-11 SEVENTH EUROPEAN CONFERENCE ON EARTHQUAKE ENGINEERING  
Athens, Greece  
EAEE  
Technical Chamber of Greece, 4 Karageorgi Servias str, Athens,  
125 GREECE
- 1983 Aug 15-26 XVIII GENERAL ASSEMBLY OF IUGG  
Hamburg, FRG  
International Union of Geodesy and Geophysics
- 1983 Aug 27 CENTENNIAL COMMEMORATION OF MOUNT KRAKATAU EXPLOSION  
Indonesia  
Indonesian Institute of Sciences  
LIPI, Jl. Teuku Chik Ditiro 43, Jakarta, INDONESIA