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CHANGE OF ADDRESS

From 20 January 1980, the address of the URSI Secretariat will be as follows:

URSI Secretariat,
Avenue Albert Lancaster 32,
B-1180 Brussels, Belgium.

Cables: URSISEC BRUSSELS.

The new telephone number will be announced later.

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URSI BANK ACCOUNTS

1. Please note that the URSI account with the Bank of America in San Francisco has been closed.

A new account has been opened at:

First City Bank,
Medical Center Branch,
6424 Fannin,
Houston, Texas 77030,
USA.

A/c No 00-0527-4.

2. There has been a change in the account number of our account at the Banque Degroof:

Banque Degroof,
Rue de l'Industrie 44,
B-1180 Bruxelles, Belgique.

A/c No 576-0900901-28.

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A TRIBUTE TO DR. C.M. MINNIS

As mentioned elsewhere in this Bulletin, Dr. C.M. Minnis has now left the General Secretariat of URSI after twelve years of devoted service. Born on 13 September 1912 in Saintfield, Northern Ireland, Dr. Campbell Morgan Minnis was educated at Queen's University, Belfast. From 1936 to 1962 he served in various capacities with the British Air Ministry, the Ministry of Aircraft Production and the Radio and Space Research Station at Slough. He participated in the development of Radar in the tense thirties and, from 1941 to 1944, served in the Royal Air Force as Squadron Leader in the Middle East and Europe. Having spent the years 1962 to 1967 as Secretary of the Special Committee for the International Years of the Quiet Sun, Dr. Minnis became Secretary General of URSI in 1968. A man of great affability, exceptional competence and sense of duty, he gave freely of his time to help URSI in the difficult months following Prof. Hontoy's illness, and in the transfer of the detailed financial responsibilities from the Secretary General to the Treasurer. President Christiansen expressed the thanks of the URSI community in the following terms:

"Dear Dr. Minnis,

" On behalf of URSI, I wish to express the thanks of
"the Union to you for your very fine work as Secretary
"General during the long term of your office and also for
"your generous and efficient help during the illness of
"Professor Hontoy. Your help during this difficult period
"was invaluable and we cannot express our gratitude too
"strongly.

" With best wishes for the future.
" Yours sincerely,

" W.N. Christiansen
" President of URSI".

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THE H.G. BOOKER FELLOWSHIP

Former students, colleagues and friends of Henry G. Booker, Honorary President of URSI, in gratitude for his guidance, inspiration and example, have established a fund at the National Academy of Sciences, the income of which will support the travel of the Henry George Booker Fellow to each General Assembly of URSI. The intention is that the Fellow, a promising young radio scientist, be selected by the Academy with the assistance of the US National Committee, that the Fellow attend the Assembly as a member of the US Delegation, and that the Fellow be recognized at the Assembly as the Henry George Booker Fellow to the General Assembly.

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DIVISION OF RESPONSIBILITIES IN THE URSI BOARD OF OFFICERS

Starting with the 19th General Assembly (Helsinki), the function of Secretary General has become an honorary, part-time position. Some of the responsibilities of the Secretary General have been transferred to the individual members of the Board as follows:

1. Relations with ICSU: The President.
2. Scientific Programme for the period 1979-1981, including the 20th General Assembly: Prof. Gordon, in consultation with Prof. Stumpers, Sir Granville Beynon and Prof. Van Bladel.
3. Financial matters: Prof. Gordon (Treasurer).
4. Publications, excluding Review of Radio Science: The Secretary General and Mme Stevanovitch.
5. Advisory Committee on URSI Awards: Prof. Stumpers.
6. Relations with ITU, CCIR and CCITT: Prof. Stumpers.
7. Liaison with Member Committees of URSI and national engineering societies: Profs Stumpers and Smolinski in consultation.
8. Standing Committee on Future URSI Assemblies: Prof. Smolinski.
9. Standing Committee on Membership of URSI: Dr. Mitra.
10. Liaison with COSTED: Dr. Mitra.
11. UNESCO and relations with developing countries:
M. Voge and later Dr. Mitra.

Prof. Hontoy was elected as Secretary General at the

Assembly, and took office right after. However, he fell ill in November 1978, and was unable to take any active part in the work of the Secretariat; Dr. Minnis agreed to serve as Acting Secretary General during the period of Prof. Hontoy's convalescence. In September 1979, Prof. Hontoy regretfully felt obliged to tender his resignation, and Prof. J. Van Bladel, on request by the President of URSI, agreed to serve as Secretary General as from 1 October 1979.

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SCIENTIFIC PROGRAMME
FOR THE 1981 GENERAL ASSEMBLY

In order to develop suitable guidelines for the elaboration of the programme of the Washington General Assembly, the Steering Committee polled, through a questionnaire, some 1,000 delegates to the 1978 Assembly. The goal of this operation was to obtain valuable feedback from the "grassroot level". Some 40% of the delegates answered the questionnaire, a very satisfactory figure indeed.

The questions related to the main components of the programme, i.e.:

1. Open Symposia, the contributions to which result from a Call for Papers. These Symposia have been included to broaden the base of participation to the General Assembly, and to allow a large number of young scientists to be involved in URSI activities.
2. General lectures, on subjects of interest to a large number of delegates. They should not conflict time-wise with other sessions.
3. The technical sessions organised by single Commissions.
4. The technical sessions organised by two or more Commissions, which are termed "joint technical sessions". The speakers at the technical sessions of both types are normally invited.

A careful analysis of the answers led the Steering Committee to reach the following decisions:

1. With respect to the Open Symposia (OS)

On the whole, the delegates were in favour of the Helsinki type of OS, but found their number, and number of sessions, slightly too large. Also, there were complaints about interference between parallel sessions. To solve the latter problem, a majority of delegates accepted, if necessary, the idea of starting the OS ahead of the Assembly, and even of extending them beyond the Assembly. The questionnaire proposed thirteen Symposium topics to the delegates, and asked them to classify the topics in order of importance and interest.

The Steering Committee decided to reduce the number of OS to three, to hold them in chronological sequence (and not in parallel), and to choose the topics of highest statistical interest to the delegates. These were, in order of popularity:

- OS1 Remote sensing,
- OS2 Millimetre and submillimetre waves,
- OS3 Mathematical models in radio propagation.

These topics are of interest to several Commissions. The names of the supporting Commissions, and those of the organizers of the OS, will be published in a later Bulletin.

The Steering Committee recommends that the OS include opening tutorial papers, contributed papers covering current work, and a summary paper defining the outstanding problems in the area and directions for future research.

2. With respect to the General Lectures (GL)

This is a new idea for an URSI Assembly, although such lectures are quite common at Assemblies of other Scientific Unions. The statistics show that the delegates want the number of GL to be comprised between a minimum of 2.2 and a maximum of 3.9. The Steering Committee opted for three, and decided, following the wish of a majority of delegates, to hold them as a first item in the daily programme, e.g. at 9 AM. Several topics and names of speakers have already been proposed. Sir Granville Beynon (Department of Physics, University College of Wales, Aberystwyth SY23 3BZ, United Kingdom) is in charge of that part of the programme.

3. With respect to Technical Sessions (TS)

Although the contents of these sessions are the responsibility of the various Commissions, whose specific requirements are often somewhat divergent, it is of interest to note that a strong majority of the delegates recommends including, in each Commission's programme, tutorial papers presenting, for the benefit of non-specialists, recent progress in the disciplines of the Commission.

4. With respect to Joint Technical Sessions (JTS)

The Steering Committee strongly recommends that the total number of sessions organised by the nine Commissions be limited to nine. There could be, for example, seven technical sessions organised by A, B, C, E, F, G, H and two joint technical sessions organised jointly by D and J. Several topics for JTS have been proposed, in particular those of the Open Symposia which were not in the top three mentioned above, i.e. OS1, OS2 and OS3. The delegates have shown, through the questionnaire, considerable interest for the JTS and, in general, for everything which is multi-disciplinary and less specialised. Several people made the remark that this is the domain where URSI can play an important and specific rôle, as it brings together, at a General Assembly, people of various interests, although of similar technical background. A corollary is that the JTS will have to contain quite a few tutorial papers. The various considerations have been communicated to the Commission Chairmen for further action and consideration.

The temporary timetable for the Assembly is as follows:

Schedule for XX General Assembly
10-19 August 1981

Monday 10 August

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|----|----------------------------------|
| AM | Opening Session |
| PM | Scientific and Business Sessions |

Tuesday 11 August

| | |
|----|-----------------------------|
| AM | OS1 and Scientific Sessions |
| PM | OS1 and Scientific Sessions |

Wednesday 12 August

AM General Lecture; OS1 and Scientific Sessions
PM OS1 and Scientific Sessions

Thursday 13 August

AM OS2 and Scientific Sessions
PM OS2 and Scientific Sessions

Friday 14 August

AM General Lecture; OS2 and Scientific Sessions
PM OS2 and Scientific Sessions

Monday 17 August

AM General Lecture; OS3 and Scientific Sessions
PM OS3 and Scientific Sessions

Tuesday 18 August

AM OS3 and Scientific Sessions
PM OS3 and Scientific Sessions

Wednesday 19 August

AM Scientific Sessions
PM Closing Session.

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LIST OF FUTURE SYMPOSIA AND MEETINGS

The events included in the list are those likely to be of interest to radio scientists, whether or not they are sponsored by URSI.

4th Conference on Electromagnetic Compatibility and Technical Exhibition, 10-12 March 1980, Zurich, Switzerland.

Contact address: ETH Zentrum-HF,
CH - 8092 Zurich,
Switzerland.

International Conference on Plasma Physics, Nagoya, Japan,
7-11 April 1980.

Contact address: Local Organising Committee,
ICPP 1980,
Institute of Plasma Physics,
Nagoya University,
Nagoya, Japan.

URSI International Open Symposium on Effects of the Lower
Atmosphere on Radio Propagation at Frequencies above
1 GHz, Lennoxville, Canada, 26-30 May 1980.

Contact address: Dr. K.S. McCormick,
Communications Research Centre,
Post Box 11490, Station H,
Ottawa, Ontario,
Canada.

Symposium on Oceanography from Space, Venice, Italy,
26-30 May 1980.

Contact address: Mr. J.F.R. Gower,
Institute of Ocean Sciences,
P.O.Box 6000,
Sidney, British Columbia V8L 4B2,
Canada.

Symposium on Progress in Planetary Exploration, Budapest,
Hungary (during COSPAR Meeting), 2-5 June 1980.

Contact address: COSPAR Secretariat,
51 boulevard de Montmorency,
F - 75016 Paris, France.

Workshop on Experience with and Proposed Improvements of
the International Reference Ionosphere (IRI), Budapest,
Hungary (during COSPAR Meeting), 10-11 June 1980.

Contact address: COSPAR Secretariat,
51 boulevard de Montmorency,
F - 75016 Paris, France.

Conference on Precision Electromagnetic Measurements
(CPEM), Braunschweig, FR Germany, 23-27 June 1980.

Contact address: Prof. Dr. H. Capptuller,
Technical Programme Chairman,
Physikalisch-Technische Bundesanstalt,
Bundesallee 100,
D - 33000 Braunschweig, FR Germany.

URSI International Symposium on Electromagnetic Waves and
Biology, Jouy en Josas, France, 30 June - 4 July 1980.

Contact address: Dr. A.J. Berteaud,
CNRS,
2 rue Henry Dunant,
F - 94320 Thiais, France.

6th International Symposium on Equatorial Aeronomy,
Puerto Rico, USA, 17-24 July 1980.

Contact address: Dr. T.E. VanZandt,
NOAA R445,
325 So. Broadway,
Boulder, CO 80303, USA.

Symposium on Middle Atmosphere Dynamics and Transport,
Urbana, Illinois, USA, 28 July - 1 August 1980.

Contact address: Dr. T.E. VanZandt,
NOAA R445,
325 So. Broadway,
Boulder, CO 80303, USA.

URSI Symposium on Millimetre Wave Technology, with
Emphasis on Radio Astronomy Applications, Grenoble,
France, 18-22 August 1980.

Contact address: Dr. E.J. Blum,
IRAM,
53 avenue des Martyrs,
F - 38026 Grenoble Cedex, France.

URSI International Symposium on Electromagnetic Waves,
Munich, FR Germany, 26-29 August 1980.

Contact address: Dr. H. Hochmuth,
International URSI Symposium,
Postfach 70 00 73,
D - 8000 Munchen 70, FR Germany.

10th European Microwave Conference, Warsaw, Poland, 8-11 September 1980.

Contact address: Dr. T. Dryzek,
S.E.P.,
ul. Czackiego 3/5,
Warszawa, Poland.

6th European Conference on Optical Communication, York, United Kingdom, 16-18 September 1980.

Contact address: Prof. W.A. Gambling,
University of Southampton,
Department of Electronics,
Southampton SO9 5NH, United Kingdom.

First European Signal Processing Conference, Lausanne, Switzerland, 16-19 September 1980.

Contact address: Mrs C. Stehlé,
EUSIPCO-80,
Department of Electrical Engineering,
Swiss Federal Institute of Technology,
16 chemin de Bellerive,
CH - 1007 Lausanne, Suisse;

5th Symposium on Electromagnetic Compatibility, Wroclaw, Poland, 17-19 September 1980.

Contact address: Mr. W. Moron,
EMC Symposium,
Box 2141,
51-645 Wroclaw, Poland.

2nd International Conference on Distributed Computing Systems, Orsay, France, September 1980.

Contact address: M. E. Gelenbe,
Laboratoire de Recherche en Informatique,
Université de Paris-Sud,
Bâtiment 490,
F - 91405 Orsay Cedex, France.

Specialist Meeting on Active and Passive Microwave Signatures of the Earth, Lawrence, Kansas, USA, 5-8 January 1981.

Contact address: Dr. R.K. Moore,
Remote Sensing Laboratory,
The University of Kansas,
Lawrence, Kansas 66045, USA.

Second International Conference on Antennas and Propagation,
York, United Kingdom, 13-16 April 1981.

Contact address: IEE Conference Department,
Savoy Place,
London WC2R OBL,
United Kingdom.

Symposium on Wave Dynamics, Radio Probing of Ocean
Surface and Related Topics, Miami, Florida, USA,
15-22 April 1981.

Contact address: Dr. S. Wickerts,
Chairman, IUCRM,
Dept. 3,
National Defence Research Institute,
S - 104 50 Stockholm 80, Sweden.

Symposium on Extragalactic Radio Sources, Albuquerque,
New Mexico, 3-7 August 1981.

Contact address: Dr. K.I. Kellerman,
NRAO,
P.O.Box 2,
Green Bank, W.Virginia 24944,
USA.

XX General Assembly of URSI, including Open Symposia on

- Remote Sensing,
- Millimetre and Submillimetre Waves,
- Mathematical Models in Radio Propagation,

Washington D.C., USA, 9-19 August 1981.

Contact address: URSI Secretariat,
avenue Albert Lancaster 32,
B - 1180 Brussels,
Belgium.

7th European Conference on Optical Communication, Copenhagen, Denmark, 8-11 September 1981.

Contact address: Mr. M. Danielsen,
Electromagnetics Institute,
Technical University of Denmark,
Building 348,
BK - 2800 Lyngby, Denmark.

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ANNUAL EUROPEAN CONFERENCES
ON OPTICAL COMMUNICATION

The European Conferences on Optical Communication are held in September of every year, and coordinated with the biennial series of International Conferences on Integrated Optics and Optical Fibre Communications.

Prof. W.A. Gambling, Chairman of the European Management Committee, has drawn attention to the planned series of ECOC Conferences for the next 8 or 9 years, and invited the organisations interested to avoid as far as possible arranging conflicting events.

The following venues for the next ten years have been agreed:

| <u>Year</u> | <u>Country</u> | <u>Dates</u> |
|-------------|----------------|--------------------|
| 1980 | United Kingdom | 16-18 September |
| 1981 | Denmark | 8-11 September |
| 1982 | France | probably September |
| 1983 | Switzerland | " " |
| 1984 | FR Germany | " " |
| 1985 | to be decided | " " |
| 1986 | Italy | " " |
| 1987 | to be decided | " " |
| 1988 | Netherlands | " " |
| 1989 | to be decided | " " |

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MICROWAVE POWER CONFERENCE

The International Microwave Power Institute's 15th Annual Microwave Power Symposium will be held at the

University of Iowa Center for Conferences and Institutes, Iowa City, Iowa, USA from 6 to 9 May 1980. The Symposium will include technical sessions as well as short courses on microwave power.

Among the topics selected by the Technical Programme Committee are: Biomedical applications, and Biological effects on humans, animals and microbiological systems, which may be of interest to scientists associated with URSI.

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URSI SYMPOSIUM ON MILLIMETRE WAVE TECHNOLOGY,
WITH EMPHASIS ON RADIO ASTRONOMY APPLICATIONS

This Symposium will be held at Grenoble, France, from 18 to 22 August 1980.

The Co-Chairmen of the Scientific Organizing Committee are J.W. Baars and P.J. Encrenaz, and the following topics are tentatively planned:

- Antennas and their interaction with observations.
- Coherent and incoherent detection techniques.
- Oscillators and interferometer distribution schemes.
- Backends.
- Observing techniques and problems.

Astronomical results will be presented in one or two review papers only. Submillimetre techniques will be part of the programme, and a specialised workshop (by invitation only) is planned at Bonn, just before the Symposium.

Because of the highly specialised character of the Symposium, attendance will be limited to about 100 invited participants; travel grants may be available for a few young scientists.

A second announcement will be issued in mid-March 1980.

Further information is available from:

Dr. E.J. Blum,
I.R.A.M.,
53 avenue des Martyrs,
F - 38026 Grenoble Cedex,
France.

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INTERNATIONAL GEOPHYSICAL CALENDAR 1980

The Operational Edition of the Calendar (see following pages) has been issued by the International Ursigram and World Days Service (IUWDS) and copies are available on request from:

Dr. P. Simon,
Ursigrammes Observatoire,
F - 92190 Meudon,
France,

or

Miss J.V. Lincoln,
WDC-A for Solar-Terrestrial Physics,
NOAA,
Boulder, Colorado 80303,
USA.

On the back of the Calendar, there is a summary (not reproduced here) of the recommended observational programmes in various branches of atmospheric physics and in studies of certain interplanetary phenomena.

International Geophysical Calendar for 1980

(See other side for information on the use of this Calendar)

JANUARY

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JANUARY 1981

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- 17 Regular World Day (RWD)
- 14 Priority Regular World Day (PRWD)
- 16 Quarterly World Day (QWD)
also a PRWD and RWD
- 2 Regular Geophysical Day (RGD)
- 16 Day of Solar Eclipse

- 16* Dark Moon Geophysical Day (DMGD)
- 7-8 World Geophysical Interval (WGI)
- 6-7 Airglow and Aurora Period
- [3, 27] Day with unusual meteor shower activity,
Northern, [, or Southern,] Hemisphere

NOTES:

1. Solar Maximum Year continues throughout the year.
2. Flare Buildup Study (FBS) Alert Period May-June, 1980.
3. Study of Energy Release in Flares (SERF) Alert Period September 15 - October 15, 1980.
4. IAGA/URSI Working Group on Passive Electromagnetic Probing of the Magnetosphere International Campaign June 22 - July 19, 1980.
5. Middle Atmosphere Program, MAP, will have:
 - Preliminary Map Project-1 Coordinated Study of the Behavior of the Middle Atmosphere in Winter continues January-March 1980.
 - Preliminary Map Project-2 Equatorial Wave Dynamics throughout 1980 corresponding to NIMBUS-G observations.
 - Preliminary Map Project-3 Study of Photochemical Processes in the Upper Stratosphere and Mesosphere by Complementary Spacecraft, in Situ and Ground Measurements - July 1980.

OPERATIONAL EDITION, September 1979

see other side

NAMES AND ADDRESSES

URSI OFFICERS

AND

OFFICERS OF MEMBER COMMITTEES

Note: An alphabetical index of names, with page reference, is reproduced at the back of this Bulletin.

HONORARY PRESIDENTS

Prof. H.G. Booker (USA)
M. B. Decaux (France)
Prof. W. Dieminger (FR Germany)
Mr. J.A. Ratcliffe (UK)
Dr. R.L. Smith-Rose (UK)

BOARD OF OFFICERS

President: Prof. W.N. Christiansen (Australia)
Past President: M. J. Voge (France)
Vice-Presidents: Prof. W.E. Gordon (USA) (Treasurer)
Dr. A.P. Mitra (India)
Prof. A. Smolinski (Poland)
Prof. F.L.H.M. Stumpers (Netherlands)
Secretary General: Prof. J. Van Bladel (Belgium)

URSI STANDING COMMITTEES

Steering Group for Coordination of URSI Scientific Programme

Chairman: Prof. W.E. Gordon (USA)
Members: Sir Granville Beynon (UK)
Prof. F.L.H.M. Stumpers (Netherlands)
Prof. J. Van Bladel (Belgium)

Standing Finance Committee

Chairman: Dr. J.A. Saxton (UK)
Members: Prof. R.H.T. Bates (New Zealand)
Prof. M.-Y. Bernard (France)
Dr. A.P. Mitra (India)

Canada: Prof. J.A. Cummins
Czechoslovakia: Prof. Dr. O. Benda
Denmark: Prof. J. Bach Andersen
Egypt, Arab Republic of:
Finland: Assoc. Prof. I.V. Lindell
France: M. J.C. Bolomey
German D.R.: Prof.Dr.-Ing. M. Kummer
Germany, F.R.: Prof. Dr. G. Piefke
Hungary:
India: Prof. G.S. Sanyal
Ireland, Republic of:
Israel: Prof. I. Cederbaum
Italy: Dr. G. Gerosa
Japan: Prof. T. Sekiguchi
Netherlands: Prof. Dr. A.T. de Hoop
New Zealand: Dr. H.A. Whale
Nigeria:
Norway: Prof. Dr. T. Wessel-Berg
Peru:
Poland: Dr. S. Przewdziecki
Portugal:
South Africa: Dr. J.A.G. Malherbe
Spain: Prof. M. Rodriguez Vidal
Sweden: Dr. H. Scheffe
Switzerland: Prof. Dr. F. Gardiol
Taiwan: Prof. Chun-Hsiung Chen
United Kingdom: Prof. A.L. Cullen
USA: Prof. G.A. Deschamps
USSR: Prof. L.D. Bakhrakh
Yugoslavia:

Commission C - Signals and Systems

Chairman: Prof. V. Zima (Czechoslovakia)

Vice-Chairman: Prof. J.K. Wolf (USA)

Official Members:

Argentina:
Australia: Prof. D.G. Lampard
Austria:
Belgium: Prof. J. Charles
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