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## XIIth Plenary Assembly of the CCIR

**T**he January 1970 issue of our "Journal" has brought to the attention of our readers the results of the final meetings of CCIR Study Groups held in Geneva, in autumn 1969.

The XIIth Plenary Assembly was held in New Delhi from 21 January to 11 February 1970 under the chairmanship of the head of the host delegation, Mr. N. C. Shrivastava, Secretary of Department of Communications, Government of India, assisted by Mr. J. Rodríguez Galán (Argentina), Mr. G. Pedersen (Denmark), Mr. B. Desta (Ethiopia) and Mr. A. L. Badalov (USSR). As a result of these deliberations, some 600 new or modified texts prepared by the different CCIR Study Groups were adopted and some 300 existing texts maintained as shown in the table on page 209.

Other subjects discussed at the Plenary Assembly were:

- preparation for the World Administrative Radio Conference for Space Telecommunications to be held in Geneva in 1971;
- technical co-operation;
- reorganization of the CCIR work.

In order to provide the necessary information within the scope of the CCIR for the World Administrative Radio Conference for Space Telecommunications (scheduled to open in Geneva on 7 June 1971), the Director of the CCIR will convene a special joint meeting of the Study Groups concerned to consider those aspects of their work which relate to the agenda of the Conference. The Plenary Assembly prepared the programme of work for the meeting and invited administrations and other organizations associated with the work of the CCIR to carry out the necessary studies and to submit contributions

not later than three months before the opening date of this meeting, which should be convened in Geneva in the early part of February 1971.

It was decided that the Chairman of the joint meeting would be Mr. J. R. Marchand (Canada) and the Vice-Chairman Mr. W. Klein (Switzerland).

In the field of technical co-operation, the increasing participation of delegations of new or developing countries in CCIR meetings should stimulate an increase in activity of all participants in CCIR work. In this regard, the CCIR Director was instructed to ask all administrations participating in the work of the CCIR to explain in full detail their internal organization in respect to CCIR activities. This material when collected by the CCIR Specialized Secretariat will be published and distributed to all participants.





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In line with the proposals of the International Working Party PLEN/1, established in Oslo 1966, the following new organization of CCIR Study Groups was agreed:

## ● Study Group 1—Spectrum utilization, monitoring

Chairman: Mr. Y. Place (France)  
Vice-Chairman: Professor S. Ryzko (People's Republic of Poland)

### *Terms of reference:*

- to study, in collaboration with the other Study Groups, questions relating to the efficient use of the radio frequency spectrum and, in particular, problems of frequency sharing, bearing in mind the attainable characteristics of radio equipment (transmitters, receivers, antennae, etc.) and systems;
- to study principles for classifying emissions;
- to develop means of specifying and measuring the characteristics of emissions and other forms of radiation likely to give rise to harmful interference;
- to study techniques for measuring at a distance the parameters of emissions and spectrum occupancy; to devise means for identifying emissions and for locating sources of harmful interference; and to improve, in collaboration with the IFRB, procedures for presenting the corresponding reports.

## ● Study Group 2—Space research and radioastronomy services

Chairman: Professor I. Ranzi (Italy)  
Vice-Chairman: Professor J. Hagen (United States)

### *Terms of reference:*

- to study questions relating to communications for scientific satellites, space probes, spacecraft, and exploration satellites (e.g. meteorological and geodetic);
- to study questions relating to interference problems concerning the radio-astronomy and radar astronomy services.

## ● Study Group 3—Fixed services below about 30 MHz

Chairman: Mr. S. Aritake (Japan)  
Vice-Chairman: Professor N. I. Tchistiakov (USSR)

### *Terms of reference:*

- to study questions relating to complete systems for the fixed services and terminal equipment associated therewith (excluding radio-relay systems). Systems using the so-called ionospheric-scatter mode of propagation, even when working on frequencies above 30 MHz, are included.

## ● Study Group 4—Fixed services using satellites

Chairman: Mr. W. Klein (Switzerland)  
Vice-Chairman: Mr. E. R. Craig (Australia)

### *Terms of reference:*

- to study questions relating to systems of radio communication for the fixed services using satellites (including the associated tracking, telemetry, and telecommand functions).

## ● Study Group 5—Propagation in non-ionized media

Chairman: Mr. J. A. Saxton (United Kingdom)  
Vice-Chairman: Mr. A. I. Kalinin (USSR)

### *Terms of reference:*

- to study the propagation of radio waves (including radio noise)
  - a) at the surface of the earth;
  - b) through the non-ionized regions of the earth's atmosphere;
  - c) in space where the effect of ionization is negligible, with the object of improving radio communication.

## ● Study Group 6—Ionospheric propagation

Chairman: Mr. D. K. Bailey (United States)  
Vice-Chairman: Mr. C. Terzani (Italy)

### *Terms of reference:*

- to study the propagation of radio waves (including noise) through the ionosphere, with the object of improving radio communication.



1.

At the inaugural meeting of the XIIth Plenary Assembly of the CCIR. From left to right: Mr. J. W. Herbstreit, Director of the CCIR; Mr. M. Mili, Secretary-General of the ITU; Mr. Satya Narayana Sinha, Indian Minister of Information, Broadcasting and Communications; Mr. V. M. Gogte, Deputy Wireless Adviser, Ministry of Communications of India; Mr. N. V. Gadadhar, Senior Counsellor, CCIR

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Mr. N. C. Shrivastava, Secretary of Department of Communications, Government of India, Chairman of the XIIth Plenary Assembly of the CCIR

#### ● Study Group 7—Standard frequency and time-signal services

Chairman: Mr. J. T. Henderson (Canada)  
Vice-Chairman: Mr. G. Becker (Federal Republic of Germany)

##### Terms of reference:

— to co-ordinate a world-wide service of standard frequency and time-signal emissions;

— to study the technical aspects of emission and reception in this service, and to improve the accuracy of measurement.

#### ● Study Group 8—Mobile services

Chairman: Mr. G. H. M. Gleadle (United Kingdom)  
Vice-Chairman: Mr. P. Mortensen (Norway)

##### Terms of reference:

— to study the technical and operating aspects of the aeronautical mobile, maritime mobile, land mobile and radio-determination services, including the use of satellites.

#### ● Study Group 9—Fixed services using radio-relay systems

Chairman: Mr. E. Dietrich (Federal Republic of Germany)  
Vice-Chairman: Mr. T. Kilvington (United Kingdom)

##### Terms of reference:

— to study questions relating to the line-of-sight and transhorizon radio-relay systems operating via terrestrial stations at frequencies above about 30 MHz.

#### ● Study Group 10—Sound broadcasting service

Chairman: Mr. A. Prose Walker (United States)  
Vice-Chairman: Mr. S. S. Aiyar (India)

##### Terms of reference:

— to study

- the technical aspects of the sound broadcasting service, including the use of satellites;
- the special problems of sound broadcasting in the tropical zone taking into account standards required for good quality service; interference in the shared bands; power required for an acceptable service; design of suitable transmitting antennae; receiving equipment; optimum conditions for the utilization of fre-

quency bands and other associated questions;

- standards for sound recording to facilitate the international exchange of programmes.

#### ● Study Group 11—Television broadcasting service

Chairman: Mr. E. Esping (Sweden)  
Vice-Chairman: Professor M. I. Krivocheev (USSR)

##### Terms of reference:

— to study

- the technical aspects of the television broadcasting service, including the use of satellites;
- standards for television recording to facilitate the international exchange of programmes.

#### ● Joint CCIR/CCITT Study Group CMTT (CCIR/CCITT Joint Commission for television and sound transmission)

Chairman: Professor Y. Angel (France)  
Vice-Chairman: Mr. W. G. Simpson (United Kingdom)

##### Terms of reference:

— to study in co-operation with the Study Groups of the CCIR and CCITT, the specifications to be satisfied by telecommunication systems to permit the transmission of sound and television broadcasting programmes over long distances.

#### ● Joint CCIR/CCITT Study Group—Vocabulary\*

Chairman: Mr. R. Villeneuve (France)  
Vice-Chairman: Mr. B. A. Duran (Spain)\*\*

##### Terms of reference:

— to study, in collaboration with the Study Groups of the CCIR and CCITT, technical terminology and related subjects (graphical and letter symbols and other means of expression, systematic classifications, units of measurements, etc.) in order to meet the needs of these Study Groups, and making the best possible use of the joint co-operation groups established between the CCI's and the corresponding Technical Committee of the International Electrotechnical Commission (IEC)—e.g. TC 1 for vocabulary and TC 3 for graphical symbols.

\* Subject to agreement by the next Plenary Assembly of the CCITT.

\*\* Interim Vice-Chairman appointed by the Plenary Assembly of the CCIR.

	Recommendations	Reports	Opinions	Resolutions	Questions	Study programmes
SG I	7	15	1	1	4	8
SG II	7	21	2	1	13	3
SG III	25	36	—	—	15	9
SG IV	20	56	—	1	21	13
SG V	7	22	—	4	6	8
SG VI	6	31	2	12	13	18
SG VII	7	10	5	3	6	11
SG VIII	6	19	5	4	14	4
SG IX	42	25	2	1	16	16
SG X	19	30	2	1	19	23
SG XI	8	25	3	1	10	21
SG XII	9	6	—	—	6	4
SG XIII	19	12	3	1	13	7
SG XIV	3	4	—	4	—	—
CMTT	5	18	1	—	7	14