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INTERNATIONAL RADIO CONSULTATIVE COMMITTEE

C.C.I.R.

DOCUMENTS

OF

IXth PLENARY ASSEMBLY

LOS ANGELES, 1959

VOLUME V

MINUTES OF PLENARY MEETINGS



INTERNATIONAL TELECOMMUNICATION UNION
GENEVA



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**INTERNATIONAL TELECOMMUNICATION UNION
GENEVA**

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M I N U T E S

OF THE

OPENING MEETING OF THE IXTH PLENARY ASSEMBLY OF THE C.C.I.R.

Thursday, April 2, 1959 at 11.00 a.m.

The opening meeting of the IXth Plenary Assembly of the International Radio Consultative Committee took place at 11.00 a.m. in the Plenary meeting hall at the Hotel Biltmore in Los Angeles.

Dr. Metzler, Director of the C.C.I.R., called the meeting to order and declared the IXth Plenary Assembly open. He then read out the text of a telegram he had received, as follows :

"Dr. Ernst Metzler, Director, C.C.I.R. Please give my greetings to the participants in the Ninth Plenary Assembly of the International Radio Consultative Committee. The findings and recommendations of this Committee have contributed significantly to progress in the field of international telecommunications by bringing together experts from around the world to cooperate in the solution of common technological problems. It has fostered international understanding and strengthened the foundations of peace. It is a pleasure to send best wishes for a memorable conference and for the continued success of the work of this Committee. Dwight D. Eisenhower."

(Prolonged applause).

Dr. Metzler then stated that, in accordance with the provisions of Chapter 13, paragraph 4 of the General Regulations, attached to the International Telecommunication Convention, the Plenary Assembly would be presided over by the Head of the Delegation of the country in which the meeting was held. Consequently, the Head of the Delegation of the United States would assume the Chair, and he had the honour of introducing Dr. Arthur Lebel, Assistant Chief of the Telecommunications Division of the Department of State.

Dr. Lebel, Chairman : "Thank you, Mr. Director. Your Honour, Ladies and Gentlemen :

It is always a great honour and a great distinction to be called upon to preside over so outstanding a body as the C.C.I.R. Plenary Assembly. I am deeply and sincerely grateful that this honour has been bestowed upon me.

"With the help and advice of my distinguished colleagues of this Assembly I am sure that I shall be able to discharge the duties of this office in such a manner that this meeting will be one of the most successful, if not the most successful, in the history of the C.C.I.R. Thank you again!

Now, I wish to present the Honorable W.T.M. Beale, Deputy Assistant Secretary of State for Economic Affairs. Because of the great interest of the United States in the C.C.I.R. and its work, Mr. Beale has come to Los Angeles with a message for this Assembly on this historic occasion. And therefore, without further introduction, the Chair recognizes the Honorable W.T.M. Beale."

Mr. Beale : "Mr. Chairman, Ladies and Gentlemen :

It is an honour and a pleasure to welcome you on behalf of the Government of the United States.

This country has been greatly privileged; for it was at Washington that the International Radio Consultative Committee was created in 1927, and it was at Atlantic City in 1947 that the Radio Conference adopted the principle of the engineered allocation of frequencies to communications services. Now the City of Los Angeles takes its place in a roster which contains many famous names. For we should not forget that this Committee traces its origin back to the founding in Paris, ninety-four years ago, of the International Telegraph Union. When the first International Telegraph Convention was signed on May 17, 1865, our Civil War had only just drawn to a close and our country had suffered the loss of the Great Emancipator, Abraham Lincoln. At that time, this great State of California had belonged to the Union only fifteen years.

Let me recall for a minute some of the highlights in the historical background against which we are meeting today. When the Paris Convention was revised in 1868 in Vienna, Franz Josef the First was Emperor of Austria and King of Hungary. When it was again revised in Rome in 1872, Italy had been unified for only a year. And by 1875, when the Union met in St. Petersburg, the Czar Alexander the Second had emancipated the serfs.

A listing of these events serves to point out how relatively young the C.C.I.R. is, and at the same time emphasizes the rapidity of developments during the lifetime of your organization. To many of us, for whom the memory of Lindbergh's historic flight is still vivid, the year 1927 is not ancient history. But I feel quite certain that, had the Conference been held in Los Angeles in that year, I would not then have flown from Washington solely to welcome you, as I have done on this occasion.

"It is not my purpose, however, to dwell on past history and the progress already made by your organization, especially since the end of World War II. You can take pride indeed in your past accomplishments. And I am certain that you welcome the challenging tasks you will undertake in the years immediately ahead. Today you are studying the requirements for communication service with outer space on an urgent basis. Only a few years ago the need for such studies seemed indefinitely far in the future. But as you have recognized, the requirements for this new service are a very real, practical, current problem for which the Radio Administrative Conference at Geneva will have to consider frequency allocation needs. I am confident that this Committee will make a solid contribution to the understanding and resolution of these problems. It is also important for the future that you have under active consideration the problems of still another new service - stereophonic broadcasting - through which new dimensions and depth will be given to the transmission of sound.

It is a tribute to the farsightedness of the originators of the C.C.I.R. and must be a source of gratification to all of you, that the many technical problems brought about by the expansion of the art of radio into the broad technical field of electronics development could be met and solved through the years on an international basis with such success.

If questions concerning newly developing services and techniques have not become major international telecommunications problems, it is because the C.C.I.R. has anticipated them and recommended procedures for their resolution at an early stage.

The attributes of the C.C.I.R. have been many. It has anticipated future communication requirements and recognized the importance of flexibility for research and development in new areas of communication. It has never waited for problems to become acute. Particularly in the period since 1947 when, as I have remarked, the change in approach to the allocation of frequencies for radio communication service was made, the C.C.I.R. has put into early study a great many technical problems.

You are all familiar with most of these problems, but I would still like to recall some of them, such as those of the propagation characteristics of various frequencies, the operational characteristics and techniques for particular services to provide for maximum efficiency and capacity for each service. This had the long-range view not only of providing for future expansion of communication service, but also of providing for conservation of the frequency spectrum.

The C.C.I.R. has emphasized the need for future standardization for international communication service to the widest extent possible. It has also called for the development of more efficient transmitters, receivers and complete communications systems, and for accuracy in monitoring and in standardizing frequency signals.

It is important to remember, however, that the results of which you are proud could only have been achieved by adherence to the main objectives of the International Telecommunication Union. Let me recall to your minds that these objectives are, first, to maintain and extend international cooperation for the improvement and rational use of telecommunications; second, to promote the development of technical facilities and their most efficient operations; and lastly, to harmonize the actions of nations in the attainment of these common ends. I would emphasize the words international cooperation, development of technical facilities, and harmonize the actions of nations.

To me they are worth emphasizing, first, because my Government recognizes the vital international importance of the work which is the particular responsibility of this Committee, and second, because these are the objectives which my Government seeks to achieve through its foreign economic policy.

We believe that these principles of international cooperation, technical assistance and mutual aid should be applied not only in dealing with the problems of telecommunication, but in carrying out the numerous other activities pursued under the aegis of the United Nations. That is why my Government attaches such great importance to other specialized agencies of the U.N., several of which work closely with the I.T.U., such as I.C.A.O., U.N.E.S.C.O. and W.M.O.

Today we live in an era of interdependence. An event in one part of the world has repercussions in other parts, adverse or favourable. If you will forgive me for borrowing from your phraseology, there are times when the political and economic frequency bands seem over-crowded and one could wish that in those fields we might duplicate your success in agreeing on allocations.

As communicators you have solved many technical problems. I doubt not that you will resolve many more. But you are also citizens in an inter-dependent world and as such you bear additional responsibilities. In your expert capacity you have contributed to the tremendous advance that has been made in our ability to communicate with each other. In your other capacity you must share the deep concern of all men of good will that the ideas we communicate should promote the peace and well-being of all nations.

In this audience today are representatives of 54 countries. I do not know how many of you are visiting this country for the first time. Many, I hope, we can count as old friends. During the weeks you will spend in this delightful city and state, I hope you will come to know and understand us, or learn to know us better as the case may be. I recognize that, to you who communicate so freely, no parts of the world, and no peoples, are wholly unfamiliar. But I would hope that this Conference would not only advance the art of communication but assist the communication of ideas.

"Let me remind you that it is not only in the field of communications that the world has changed, and this country with it. Few of those who attended the Conference in Washington in 1927 could have imagined that the Marshall Plan would already be in operation when they met again in 1947. And today this country can point to many developments in the field of foreign economic policy which you will want to take into account in arriving at your understanding of our country. For, as I have suggested, we have sought to apply in this broad field the principles you have found so effective in your own special field of interest.

In doing so my Government has associated itself with others in multilateral organizations for the expansion of international trade and the promotion of economic development. We take some considerable pride that our country, in cooperation with many others, has brought about substantial reductions of the trade barriers which stifle the exchange of goods and services throughout the world. Through the International Monetary Fund we have helped to promote exchange stability and to alleviate balance-of-payments difficulties. With other members of the World Bank we have been able to render development assistance through loans. We have collaborated with other international organizations, including many agencies of the U.N. in their efforts to improve economic conditions and raise living standards throughout the world. Moreover, when needs have arisen which could not be met by other means, we have sought to supplement those international efforts from our own resources through institutions established for that purpose.

In mentioning what we have done in recent years, I do so not to solicit your praise. My sole purpose is that you may have a better understanding of the development of our national thinking. We would have you see behind the form to the substance, so that we may encourage that communication of ideas which your achievements facilitate.

I repeat, we are happy to welcome you to this country. May your work prove useful as in the past, may you enjoy yourselves and make many friends, and may you return to these shores many times to forward the vitally important work of this Committee!"

(Prolonged applause).

The Chairman : "Thank you very much, Mr. Beale. I believe I can speak for my colleagues at this Assembly in telling you that your words are indeed most heartening and they will inspire us as our work progresses during the next few weeks.

The Chair now wishes to present the distinguished Chief Executive of the City of Los Angeles, about which, I am sure, we shall hear and see more as time goes on. I therefore recognize the Honourable Norris Poulson, Mayor of the City of Los Angeles."

Mr. Poulson : "The City of Los Angeles is proud to receive here today the IXth Plenary Assembly of the C.C.I.R. and I want to repeat personally my expression of good wishes to you, and to stress that I hope that the scientific work you are doing in this connection will contribute to the level of education. As you may know, illiteracy is a very widespread evil - in fact, as much as 90% of some populations are still illiterate. The improvement in communications, which is your task, will speed up tremendously the transmission of intelligence - by which word I mean information and knowledge - to all parts of the world which are hungry for it. Undoubtedly it will be a problem which will always require professional experts, such as you who are meeting here today, but the constructive effort constantly remains to improve contact with peoples everywhere, and which could lead only to a better understanding, which is our original greatest need for this day and hour.

I hope that your stay will be happy and a fruitful one. I hope that you will have the opportunity to enjoy the educational facilities, all the possibilities for recreation and pleasure for which Los Angeles is known everywhere, and you will, in so far as your time permits, be able to see and learn something about our great City. After talking with Dr. Lebel about the programme, I can only say that, if you do not, it will be your loss.

I might tell you that in Los Angeles everyone is a real estate salesman. What I mean by that is that we are so sold on Los Angeles and we have such a great sympathy for those who cannot live here, that we are always willing to try and sell them Los Angeles in some way or another.

I do apologize for my inability to stay and listen to your most interesting discussions. Naturally I should benefit from them, and no doubt I need it, but in a city which is growing like Los Angeles we do have our problems. In this particular area statistics show that people are coming here at the rate of one every 2 2/3 minutes to live permanently, and unfortunately they do not bring with them their public utilities and such things, which means that, as I said, in a city exploding with such rapid growth as in Los Angeles, we do have many problems. I think it might interest you to know something about our City Government. Unlike most countries or areas where they have a Lord Mayor, who serves as the official welcomer, and who generally has a cloak of office, in this State the Mayor of the City of Los Angeles has powers similar to those of the President of the United States - namely, he has executive responsibilities in addition to the social obligations. In our democratic way we do not put the word "Lord" in front of Mayor. He is just "Mayor" and the people are often anxious to add a distinguishing adjective, which is not always complimentary! However, we like it, and that is one thing in being a Mayor - you have to take it!

Once more expressing my regret in having to leave you now, I will see you all again tonight at dinner in this room."

(Prolonged applause).

The Chairman : "In the name of the Assembly, thank you very much, Mayor Poulson, for your good wishes, and in particular for your obvious understanding of our purposes which we take very seriously, and sometimes, perhaps, rather grimly. You may be assured that all of us will take every opportunity to see and learn as much as possible about the magnificent City of Los Angeles and its surroundings.

And now it is fitting and time for us to hear from the Honourable Delegate of the People's Republic of Poland, in whose country the VIIIth Plenary Assembly of the C.C.I.R. was held in 1956. The Chair, therefore, recognizes the Delegate of the People's Republic of Poland, Mr. Konrad Kozłowski."

Mr. Kozłowski : "Mr. Chairman, Ladies and Gentlemen,:

In accordance with a practice which has become traditional in our organization, although it has not yet been put into the C.C.I.R. texts, I have the great pleasure of expressing, in my capacity as Head of the Delegation of the People's Republic of Poland, where the VIIIth Plenary Assembly of the C.C.I.R. was held in 1956, and on behalf of all foreign delegations, our cordial thanks to our kind hosts, the Government of the United States of America and the City of Los Angeles, which have so kindly invited us to this country and, as we have been able to see with our own eyes, given us first-rate working conditions and made such strenuous efforts to prepare the IXth Plenary Assembly of the C.C.I.R. At the same time I should like to remind you all that at the Warsaw Assembly, the invitation of the United States Delegation to hold the IXth Plenary Assembly in Los Angeles was unanimously accepted with great satisfaction by all delegations.

The considerable number of delegates and persons accompanying them here in Los Angeles is a striking proof of the interest they take in your beautiful country, in spite of the distance, and emphasizes the importance of this Plenary Assembly.

If you look back on the development of the C.C.I.R., you will see that the importance of this organization and the part it plays in international collaboration for peace are steadily increasing and contributing more and more to regular progress in the various fields of radio.

These facts are also confirmed by the ever increasing number of documents and by the high quality of their drafting, which is also very important.

There is no doubt whatever that much of the credit for this is due to Dr. Metzler, Director of the C.C.I.R., Mr. Leslie Hayes, Vice-Director and the Secretariat of the C.C.I.R., both for the preparatory work of the Assembly proper and its organization during the interim period. We tender to them our most heartfelt thanks.

"Further, on behalf of delegations, I must assure our hosts that our work during this Assembly will constitute a constructive effort, in order to obtain the best results, just as at the VIIIth Plenary Assembly in Warsaw and the interim study group meetings in Moscow and Geneva .

It is probable that the rapid progress achieved in the various fields of world technique will also require from our organization an increased effort to find solutions for important radio problems.

The great success obtained by the Union of Soviet Socialist Republics and the United States in the conquest of outer space will doubtless give us new technical information required for our work, particularly as regards radio propagation, and in future will make it necessary to set new study programmes in subjects which have so far not been our province.

It happens that, just as in 1927, when the C.C.I.R. met during the Washington Radiotelegraph Conference, the present Assembly, also held in the United States, is preceding the Plenipotentiary Conference, one of the duties of which will be to recast the structure of the I.T.U., including the C.C.I.R.

I therefore trust that this IXth Plenary Assembly will also, to some extent, help towards a happy solution of these problems of organization which are so important for our committee in its role of consultative organ of the I.T.U.

The wonderful climate of California and the programme drawn up by our generous hosts for our stay here will also help our discussions to be untroubled and our leisure agreeable.

In these circumstances, the results of our work, which is to last several weeks, will further the progress of radio and will constitute a step forward towards international understanding and the guarantee of world-wide peace, so firmly desired by us all."

(Prolonged applause).

The Chairman : "Thank you very much, Mr. Kozłowski, for your encouraging, enlightening and informative words. I am happy, as the other members are, that we shall have you with us during the next few weeks and that perhaps we shall be able to discuss with you individually some of the interesting aspects of our work to which you have referred.

And now we come to the man who is the heart and soul of this organization and whose long and valuable contribution in the field of international telecommunications is such that he needs no introduction in this forum - particularly to us old-timers. The Chair recognizes the Director of the C.C.I.R. - Dr. Ernst Metzler!"

(Applause).

Dr. Metzler, Director, C.C.I.R. : "Thank you. Mr. Chairman, Mr. Deputy Assistant Secretary of State, Mr. Mayor of the City of Los Angeles, Mr. Acting Secretary General of the Union, Ladies and Gentlemen :

It is customary, during the opening session of the Plenary Assembly of the International Radio Consultative Committee, for the Director of this organization to say a few short words. This honour devolves upon me today for the first time since I took up office, and in taking the floor I would first of all wish to associate myself with the expression of thanks just uttered by the Head of the Delegation of the People's Republic of Poland to those officials who have bid us welcome here, to Los Angeles, and to all their collaborators.

Certainly, the enormous amount of preparatory work carried out by our hosts fulfills a major condition for the ultimate success that we all wish for this Plenary Assembly. I would, in particular, address the Deputy Assistant Secretary of State for Economic Affairs, who has honoured us by his presence at this opening session, and request him to express our warm thanks to the inviting Government.

Mr. Mayor, we are very happy that California has been chosen as the site of this conference. For most of us, California is a distant part of the globe, famous for the splendour of its colours and for its picturesque and sunny landscapes. Moreover, American - and, especially, Californian - industry and scientific institutions are taking an all important place in the technical and scientific development of the whole world. We shall also have the privilege of visiting several Californian establishments which are concerned with electronics and radiocommunications.

As the Deputy Assistant Secretary of State for Economic Affairs has remarked, our organization was founded following the decision of the International Radio Conference, held in Washington in 1927, under the Chairmanship of that eminent American statesman, Mr. Herbert Hoover. In fact, the first Plenary Assembly of the C.C.I.R. was convened in 1929 in The Hague, in Holland, where my distinguished predecessor, Professor van der Pol was born. It was followed by meetings in Copenhagen, Lisbon, Bucharest, Stockholm, Geneva, London, Warsaw - and this meeting which opens today here in Los Angeles.

Without going into details of the development of the C.C.I.R. since its foundation, it is nevertheless permissible to mention that its functions, within the framework of the International Telecommunication Union, do not cease to grow in importance.

I am very happy, in this connection, to note the presence, in this auditorium, of Dr. Dellinger who, if I am not mistaken, is the only one amongst us all who participated in that decisive conference of 1927, and who, since the very birth of our organization, has always taken such an active part in its work. I take this opportunity of paying tribute to this eminent pioneer of the C.C.I.R. and of the U.R.S.I. and to thank him on behalf of the Committee.

(Hearty applause).

Let us also pay homage to all those collaborators in the work of the C.C.I.R. who are no longer with us today, but who, by their personal support of our organization, have contributed to the scientific and technical development of international radiocommunications.

If our role within the I.T.U. is consultative by definition, the C.C.I.R. nevertheless assumes great responsibility in the development of radio throughout the world. We are very conscious of this key-role which implies, on the one hand, a close contact with scientific progress and, on the other, imposes a realistic view of the technical possibilities and the needs of the users of radio in every sense, who are represented here at this Plenary Assembly, by their respective international organizations. From the scientific viewpoint, we can congratulate ourselves on the help we receive from the International Scientific Radio Union, for example, often due to the direct personal contacts existing between the C.C.I.R. and that body.

'We are living in a scientific age!' That sentence, uttered some time ago by one of the great leaders of the American electronics and radio industry, is very characteristic of our present era. The inter-relation uniting the various branches of contemporary science makes close cooperation and reciprocal aid more and more necessary. The C.C.I.R. in its own interests, cannot get away from this law, which is the basis of the progress of our knowledge.

As an example, I have just cited the U.R.S.I., which is today requesting the help of the C.C.I.R., that we may, at the time of the International Radio Conference, back their efforts to facilitate the development of a relatively new branch of the science - that of Radio Astronomy. This branch originated with the discoveries of the American engineer, Karl G. Jansky in 1932. Today it covers a vast field of research, frequently in direct relation with the technical problems raised by radiocommunications.

I have already mentioned the role of the C.C.I.R. within the framework of the I.T.U. The importance of the work of this IXth Plenary Assembly is no doubt accentuated by the fact that, next summer, the International Radio Conference opens in Geneva. The recommendations which our Plenary Assembly may draw up will not be without a certain influence on the new technical international radio regulations. One of the thorniest tasks of international radio conferences is that of frequency allocation. For the moment, the physical space available to practical solutions of the problem is still limited by the surface of the earth and by the ionized layers of the upper atmosphere.

It is indeed true that the moon can send us radio signals back and thus serve, under certain conditions, as a sort of passive relay station between two earth stations. But other even more promising perspectives are now being offered to us. These perspectives allow us to envisage a revolution in frequency allocation for long distance circuits. I am speaking about the sputniks and the explorers, placed in suitable orbits, and acting as extraterrestrial radio relays, whether active or passive.

"New problems will one day be put to the I.T.U. in the radio field and the C.C.I.R. will be called upon to collaborate in finding their solution. Thus, upon the initiative of the International Astronautical Federation, and in particular that of its active President, Mr. Andrew Haley, who is with us here today, the C.C.I.R. has undertaken to study certain questions of wave propagation which reach the very core of the problem of circuits between here and outer space.

It is quite obvious that the need for international cooperation is more than ever necessary in this new field, if we only think of the possibilities of interference.

Ladies and Gentlemen, I would now like to say just a word on a somewhat more down-to-earth question - that of the organization of the work of the C.C.I.R.

The total volume of the documents of our Committee has never stopped increasing during the last few years. To facilitate the work of the delegations, the Plenary Assembly in Warsaw decided to encourage, on a trial basis, the organization of interim meetings of our Study Groups. In the interval between the VIIIth and IXth Plenary Assemblies, nine of our fourteen Study Groups followed this recommendation. It would be premature at this time to try and give a definite idea of this new working method, and it will only be when we have a comprehensive view - namely, towards the end of this Plenary Assembly - that we shall be able to make a decision on the organization of future work.

Will you allow me, in closing, to bring up a subject which is of very pressing interest to the United Nations as a whole, and to the I.T.U. in the specialized field of telecommunications. How can we support the efforts made by several members of the Union in various parts of the world to develop their telecommunication systems? At its last session the Administrative Council of the I.T.U. studied this problem and formulated several resolutions which requested the collaboration of both International Consultative Committees to aid in this task. Is it not rather shocking to note that, of the 97 Members of the Union, for example, only about 40 would appear to collaborate in the work of the C.C.I.R.? Is there not something wrong here? Be this as it may, the present Plenary Assembly should certainly examine certain aspects of the complex question of the aid to be given to a majority of the Members of the Union. I feel that this would be a noble task to accomplish, and a task for which the collaboration of the C.C.I.R. has been requested.

I am certain, Ladies and Gentlemen, that the constructive spirit which has always animated C.C.I.R. meetings, will not fail during this Plenary Assembly in Los Angeles, and that the good wishes of complete success which our hosts have addressed to us will be fulfilled during the few weeks that we shall be meeting here together, in this beautiful country of California.

And now I would like to read to you the text of the telegram which I propose to send to President Eisenhower, in reply to his message to us received here this morning :

" : The President
The White House
Washington, D.C.

I have conveyed your message to the participants in the ninth plenary assembly of the international radio consultative committee who join me in expressing deep appreciation for your message of greeting.

This appreciation is enhanced by the realization that notwithstanding your weighty responsibilities, you have taken the time to send your greetings personally.

Your message once again accentuates the traditional hospitality extended by the American people.' "

(Prolonged applause.)

The Chairman : "Thank you very much, Dr. Metzler. I take it from your applause, gentlemen, that this constitutes a ratification by the Members of the Plenary Assembly for the despatching of that telegram to the White House.

At this point in our business I think we have reached a very convenient spot to interrupt the proceedings of the Plenary Assembly for this opening session, and, unless there are any questions from the floor, I shall now adjourn this meeting."

The meeting rose at 12.10 p.m.

Rapporteur :

R. Umberg-Hauben

Secretary :

R.V. Lindsey

Chairman :

A. Lebel

MINUTES

OF THE

FIRST PLENARY MEETING

Thursday, 2 April 1959, at 3 p.m.

Chairman : Dr. A. Lebel

Subjects discussed :

1. Election of the Vice-Chairmen of the IXth Plenary Assembly.
2. Formation of spécial committees :
 - a) Drafting
 - b) Finance
 - c) Technical Assistance
 - d) Organization.
3. Approval of the Secretariat.
4. Languages.
5. Working schedule.
6. Changes in the Chairmanship and Vice-Chairmanship of Study Groups.
7. Documents submitted to the Plenary Assembly direct (Nos. 15, 16, 94, 96, 99 and 185).
8. Other business.

Present :

Administrations of Members of the Union :

Australia, Austria, Belgium, Bielorussian S.S.R., P.R. of Bulgaria (represented by Czechoslovakia), Canada, China, Denmark, Spain, United States of America, Finland, France, Guatemala, Republic of India, Ireland, Italy, Japan, Monaco, Norway, New Zealand, Netherlands, P.R. of Poland, Portugal, Federal Republic of Germany, Ukrainian S.S.R., United Kingdom of Great Britain and Northern Ireland, Sweden, Switzerland, Czechoslovakia, Group of the different territories represented by the French Overseas Postal and Telecommunication Agency, Turkey, Union of South Africa, Union of Soviet Socialist Republics, Venezuela.

Recognized private operating agencies

International Marine Radio Co. Ltd. (I.M.R.C.); American Telephone & Telegraph Co. (Am. T. & T. Co.), Cable & Wireless; Kokusai Denshin Denwa Co., (K.D.D.), Nippon Telegraph & Telephone Public Corporation (N.T.T.), Nippon Hoso Kyokai (N.H.K.), Marconi International Marine Communication Co., (M.I.M.C.C.), Companhia Portuguesa Radio Marconi, British Broadcasting Corporation (B.B.C.), Independent Television Authority (I.T.A.), South African Broadcasting Corporation (S.A.B.C.).

International Organizations

Comité International Radio-Maritime (C.I.R.M.), International Special Committee on Radio Interference (C.I.S.P.R.), International Broadcasting and Television Organisation (I.B.T.O.), International Chamber of Shipping (I.C.S.), International Scientific Radio Union (U.R.S.I.).

Specialized Agencies in relation with the United Nations

World Meteorological Organization (W.M.O.)

Permanent organ of the I.T.U.

International Frequency Registration Board (I.F.R.B.)

The Acting Secretary-General of the I.T.U., Mr. Gerald C. Gross, was also present.

1. Election of the Vice-Chairmen of the IXth Plenary Assembly

The Chairman proposed that the heads of the delegations of Japan, Finland, Venezuela and Ireland be appointed Vice-Chairmen of the Assembly.(*)

The proposal was approved by acclamation.

2. Formation of special committees

a) Drafting Committee : On a proposal by the Chair, the delegate of France was appointed Chairman of the Drafting Committee. Delegates wishing to participate in the work of the committee would hand him their names.

b) Finance Committee : On a proposal by the Chair, the delegate of India was appointed Chairman of the Finance Committee. Delegates wishing to participate in the work of the committee would hand him their names.

c) Technical Assistance Committee : On a proposal by the Chair, the delegate of the U.S.S.R. was appointed Chairman of the Technical Assistance Committee. Delegates wishing to participate in the work of the committee would hand him their names.

d) Organization Committee : The Chairman explained that the terms of reference of the new Organization Committee would be broader than those of the former Organization Committee, which would become the committee of Chairmen and Vice-Chairmen of Study Groups. Some of the duties of the new committee would be :

(*) Note by Secretariat : See also Doc. 740, page 2.

- 1) To study the constitution of new Study Groups, as well as the amalgamation or the discontinuance of existing Study Groups.
- 2) To prepare the list of candidates for the chairmanship and vice-chairmanship of Study Groups.
- 3) To organize the work of the C.C.I.R. and of the Study Groups in the interim period between Plenary Assemblies.
- 4) To study the future of the technical apparatus of the C.C.I.R.
- 5) To study the presentation of the results of the IXth Plenary Assembly in printed form, since Volume I of the collected documents was becoming too bulky.

On a proposal by the Chair, the delegate of New Zealand was appointed Chairman of the Organization Committee. Delegates wishing to participate in the work of the committee would hand him their names.

The Chairman pointed out that, under the Regulations, all delegates were free to attend any meeting of any committee although, in his view, too large an attendance might reduce efficiency.

3. Approval of the Secretariat

The following Secretariat was approved :

Secretary of the Conference - Mr. Robert V. Lindsey
Assistant Secretary for Documents - Mr. Jean Revoy
Assistant Secretary for Finance - Mr. René Prélaz
Assistant Secretary for meeting arrangements - Mr. George Koontz.

4. Languages

The Chairman announced that :

- a) in accordance with Chapter 14, paragraph 1 of the General Regulations annexed to the Buenos Aires Convention, the working languages of the Assembly would be English, French and Spanish;
- b) the technical installations, but not interpreters, for interpretation into Russian would also be provided, the expenses to be borne by the countries which had requested the use of that language.

5. Working schedule

It was decided that, as a general rule, meetings would be held from 9.30 a.m. to 12.30 p.m., and from 2.30 to 5.30 p.m. There would be no meetings on Saturdays and Sundays unless stress of work made such meetings indispensable.

6. Changes in the Chairmanship and Vice-Chairmanship of Study Groups

The Director of the C.C.I.R. informed the Assembly as follows :

Study Groups I to III : no change;

Study Group IV : The Chairman, Prof. Sacco, and the Vice-Chairman, Mr. Millington, had resigned. It would be for the Organization Committee to consider their definitive replacement. In the meantime, Dr. Smith-Rose had agreed to assume the interim chairmanship.

Study Groups V to VII : no change.

Study Group VIII : The Chairman, Mr. Campbell, had been unable to attend the Assembly on account of serious illness in his family. He would be provisionally replaced by Mr. Turner.

Study Groups IX to XII : no change.

Study Group XIII : The Chairman, Mr. van der Toorn, having retired from public life, would be provisionally replaced by the Vice-Chairman, Mr. Spøberg. It would be for the Organization Committee to study his definitive replacement.

Study Group XIV : The Chairman, Prof. Gorio, having resigned, had been replaced by the Vice-Chairman, Mr. Villeneuve.

The delegate of the United Kingdom proposed that the Assembly should send a letter to Mr. van der Toorn, Prof. Sacco and Prof. Gorio, expressing thanks for the great work they had done for the C.C.I.R., and wishing them well.

The Director of the C.C.I.R. proposed that a letter should also be sent to Mr. Campbell, expressing the sympathy of the Assembly.

Approved.

7. Documents submitted to the Plenary Assembly direct (Nos. 15, 16, 94, 96, 99 and 185)

Document 15 : referred to the Organization and Finance Committees. It would afterwards revert to the Plenary Assembly for transmission to the Administrative Council.

Document 16 : referred to the Organization Committee.

Document 94 : referred to the Technical Assistance Committee and the Organization Committee.

Document 96 : referred to the Drafting Committee for verification of the parallelism of the texts in the three languages. To be afterwards approved or rejected by the Plenary Assembly without discussion, since the document was a proposed Recommendation from a joint C.C.I.R./C.C.I.T.T. Study Group.

Document 99 : referred to the Organization Committee, any concrete financial conclusions to be afterwards referred to the Finance Committee.

Document 185 :

The delegate of India, Dr. Sarwate, gave some further explanations.

The main objective of the invitation was the desire of the Indian Administration to see that the benefit of C.C.I.R. work was extended to countries where it had hitherto been unavailable. The C.C.I.R. had mostly met in Europe and was now meeting in the United States. India had never had the advantage of a large-scale meeting to exchange ideas and benefit from the experience and expert knowledge of the C.C.I.R., which those countries that needed to improve their basic telecommunication services would so highly appreciate. He therefore urged that due consideration be given at the appropriate time to the motive underlying the invitation.

It was decided to discuss Document 185 at a later Plenary Meeting.

8. Other business

a) Representation of China

The delegate of the U.S.S.R. made the following statement :

"On behalf of the Soviet delegation I should like to express my regret that the Telecommunication Administration of the Chinese People's Republic is not represented at the IXth Plenary Assembly of the C.C.I.R.

The representatives of the Chiang-Kai-Shekists who are illegitimately occupying the place of China in the International Telecommunication Union have no right to represent China. The only persons entitled to do so are those appointed by the Government of the Chinese People's Republic."

The delegate of China said :

"The Delegation of the Republic of China feels bound to give a statement as a rebuttal against the malicious statements made by the U.S.S.R. and its echoing satellites whose perverted mind has evidently led them to flout this solemnized Plenary Assembly of the C.C.I.R. with political propaganda. We must vociferously state that the Government of the Republic of China is the only legitimate government of China, for it is a Charter-Member of the United Nations and it is a signatory to the I.T.U. Convention; consequently, its right to represent China in this C.C.I.R. Plenary Assembly as well as in all other Conferences to be held under the aegis of the I.T.U. cannot be questioned at all.

"The preposterous statements made by the Soviet Block are not only unjustifiable but, briefly speaking, out of order, because para. 1, Art. 7, of the Convention plainly provides that the duties of the C.C.I.s are purely technical in character; therefore all questions of non-technical non-operating and non-traffic character should be ruled out at once.

Now with regard to the so-called 'Chinese People's Republic', it is not a sovereign country; it is a puppet regime sponsored by the U.S.S.R. What is more, it is a proved criminal before the eyes of the free world.

Its oppression of the mainland populace has been notorious since its inception. With the newly enforced enslavement of all the family members of labouring masses of the whole mainland, under a coined term called the commune-system, in which all Chinese ethical criteria are trampled under foot, the red regime in China has contrived to deprive the traditionally cultured people of the last shred of dignity of decent humanity. Needless to add that the reds in China are digging their graves because the general mass on the mainland are planning to crush down the demoniac regime by wholesale uprisings to redress the wrongs which have fanned up their hatred to the intolerable extremes.

With the above fact in view the Delegation of the Republic of China wishes to solicit the collaboration of all the Delegations from the freedom-loving countries to guard against all subversive attempts engineered by certain delegations with a view to securing political ends to the disgrace of this solemnized Plenary Assembly of the C.C.I.R."

The delegate of the U.S.S.R. said :

"It is beneath my country's dignity to answer the libellous statement made by the representative of the Chiang-Kai-Shek clique. He could not have been expected to speak otherwise. What else can the representative of a clique thrown out of the country by the will of the great Chinese people be capable of expressing, if not slander?"

The delegate of the Ukrainian S.S.R. made the following statement :

"On behalf of the Ukrainian delegation, I should like to draw attention to the fact that the absence from the present Plenary Assembly of observers from the Administrations of countries non-Members of the International Telecommunication Union is contrary to the aims of the Union set out in Article 3 of the International Telecommunication Convention."

The delegate of Czechoslovakia, after pointing out that a telegram had been sent from the People's Republic of Bulgaria authorizing Czechoslovakia to represent that country, stated that both Czechoslovakia and the People's Republic of Bulgaria fully shared the views of the U.S.S.R. on the representation of countries at meetings of the C.C.I.R.

b) Drafting Committee business

The delegate of France, Chairman of the Drafting Committee, explained that it was customary for the French-speaking countries to provide rapporteurs for the study group meetings. As the delegates of those countries were few in number, he hoped that reports would be required only for Plenary meetings of the study groups and not for the working parties.

He also pointed out that if the Drafting Committee were to work efficiently, it would be indispensable for the study groups to give full attention to the texts in the three languages before approving them, so that no doubt would remain as regards the substance of the texts.

The meeting rose at 4.30 p.m.

Rapporteur :

H. Heaton

Secretary :

R.V. Lindsey

Chairman :

A. Lebel

M I N U T E S
OF THE
SECOND PLENARY MEETING

Monday, 20 April 1959, at 2.30 p.m.

Chairman : Dr. A. Lebel

Subjects discussed :

1. Minutes of the first Plenary Meeting (Doc. 223).
2. Texts submitted by the Drafting Committee :
 - a) Originating from Study Group II : Docs. Nos. 385, 411, 457, 409, 440, 460 and 454.
 - b) Originating from Study Group VI : Docs. Nos. 292, 288, 289, 291, 295, 315, 316, 317, 319 and 379.
 - c) Originating from Study Group VII : Docs. Nos. 313 and 314
 - d) Originating from Study Group IX : Docs. Nos. 318, 320, 321, 322, 323, 324, 325, 326 and 294.
3. Closing date of the IXth Plenary Assembly.

Present :

Administrations of Members of the Union :

Argentine Republic, Australia, Austria, Belgium, Bielorussian S.S.R., P.R. of Bulgaria (represented by Czechoslovakia), Canada, China, Denmark, Spain, United States of America, Finland, France, Guatemala, Republic of India, Ireland, Italy, Japan, Norway, New Zealand, Pakistan, Netherlands, P.R. of Poland, Portugal, Federal Republic of Germany, F.P.R. of Yugoslavia, Ukrainian S.S.R., Roumanian P.R., United Kingdom of Great Britain and Northern Ireland, Sweden, Switzerland, Czechoslovakia, Group of the different territories represented by the French Overseas Postal and Telecommunication Agency, Turkey, Union of South Africa, Union of Soviet Socialist Republics, Venezuela.

Recognized private operating agencies :

K.D.D., N.T.T., M.I.M.C.C., Radio Austria A.G., RAI, Am.T.& T., B.B.C., I.T.A., Cable & Wireless Ltd., S.A.B.C., R.C.A., N.H.K., Companhia Portuguesa Radio Marconi.

International organizations:

C.I.R.M., I.C.S., I.B.T.O., U.R.S.I.

Permanent organs of the I.T.U.

I.F.R.B., C.C.I.T.T.

The Chairman opened the meeting by welcoming the delegates who had arrived since the first Plenary Meeting. He also extended a cordial welcome to Mr. J. Rouvière, Director of the C.C.I.T.T.

1. Minutes of the first Plenary Meeting (Doc. 223)

Approved, subject to minor editorial amendments.

2. Texts submitted by the Drafting Committee

Before opening discussion of the texts themselves, the Chairman asked the delegates to confine their remarks to matters of substance and to submit any purely editorial or typographical changes to the Secretariat direct. He hoped that there would not be too many changes of substance, since the texts had already been thoroughly examined.

a) Texts originating from Study Group II (Docs. Nos. 385, 411, 457, 409, 440, 460 and 454)

Mr. Henry (France), Chairman of the Drafting Committee, said that throughout the documents the name "Commission électrotechnique internationale" should be spelled out in full, since the abbreviation C.E.I. could be taken to mean Study Group I (French text only).

It was understood that the Secretariat would add the word "UNANIMOUSLY" before "RECOMMENDS" or "RESOLVES", wherever appropriate throughout the texts.

Document 385 : Approved unanimously.

Document 411 : Approved unanimously.

Document 457 : Approved unanimously.

Document 409 : Approved unanimously, with the following amendments : in the 8th line of point 2.7, for "50 kc/s" read "500 kc/s". In the last line of the same point, for "which can be extremely serious" read "which could be serious."

Document 440 : Approved unanimously

Document 460 : Approved unanimously.

Document 454 : Discussion deferred, since the document was not listed on the English agenda.

b) Texts originating from Study Group VI (Docs. Nos. 292, 288, 289, 291, 295, 315, 316, 317, 319 and 379).

Document 292 :

The delegate of India raised the general point of whether a Resolution was the proper form for such a text.

Dr. Bailey (United States), Chairman of Study Group VI, said that there would be other examples of the same kind and suggested that the text be approved as it stood and that the Organization Committee should study the general point for the benefit of future Plenary Assemblies.

The delegate of Czechoslovakia having asked for further explanations of the operative part of the text, a discussion arose and it was finally decided to amend the first line under "RESOLVES" to read as follows:

"1. that the working party formed in accordance with Recommendation No. 121 should be continued, to promote further work on the design ..."

With the above amendment, Document 292 was approved unanimously.

Document 288 : Approved unanimously with the following amendment: replace the first five words of c) under "CONSIDERING" by : "c) that improved equipment now in operation ..."

Document 289 : Approved unanimously.

Document 291 : Approved unanimously.

Document 295 : Approved unanimously, with the addition of a note to the effect that it would be brought to the attention of the World Meteorological Organization. A similar note would be appended to Document 291.

Document 315 : Approved unanimously.

Document 316 : Approved unanimously.

Document 317 : Approved unanimously, with a drafting change in the French text.

Document 319 : Approved unanimously.

Document 379 : Approved unanimously.

c) Texts originating from Study Group VII (Docs. Nos. 313 and 314)

Document 313 : Approved unanimously, with the figures 13 and 3 in considering b) replaced by 15 and 5.

Mr. Roberts (I.F.R.B.) felt that there should be a reference to the I.F.R.B. in paragraph 7 of the Recommendation, to bring it into line with the relevant Report.

It was agreed that such an addition, if found necessary, would be made retroactively when the Report came up for consideration.

Document 314 : Approved unanimously, with the expression "normal accuracy" replaced by "moderate accuracy" in paragraph 3 of the English text only.

d) Texts originating from Study Group IX (Docs. Nos. 318, 320, 321, 322, 323, 324, 325, 326 and 294)

Document 318 : Approved unanimously, with the expression "high quality" in the second line of the second paragraph on page 1 replaced by "good quality".

Document 320 : Approved unanimously, with the addition of the words "hypothetical reference" before "circuits" in considering b).

Document 321 : Approved unanimously, with the same addition as in Doc. 320, considering b) and the addition of the word "telephone" after "120" in the title.

Document 322 : Approved unanimously, with minor corrections.

Document 323 : Approved unanimously, with minor corrections.

Document 324 : Approved unanimously, with minor corrections.

Document 325 : Approved unanimously, with minor corrections.

Document 326 : Approved unanimously.

Document 294 and corrigendum :

The delegate of Italy felt that the Resolution in Doc. 294 had little point, since the Plan Committee was an organ of the C.C.I.T.T. and the C.C.I.R. was already taking part in the work.

Mr. Clarkson (New Zealand), Chairman of the Organization Committee, said that the matter might usefully be considered by the Organization Committee, which was already studying other matters affecting collaboration between the C.C.I.T.T. and the C.C.I.R.

Mr. Rouvière, Director of the C.C.I.T.T., began by thanking the Chairman for his kind words of welcome.

He did not clearly understand the nature of the responsibility which the C.C.I.R. wished to see transferred to the Plan Committee. That Committee was already dealing with the international connections required "for linking to the world telephone network regions not yet connected thereto" and the last session of the Administrative Council of the I.T.U. had extended its mandate to all parts of the world. The Resolution in question therefore appeared superfluous.

It was agreed to leave consideration of the matter to the Organization Committee.

The Chairman expressed his very sincere thanks to the delegates, who had collaborated with the Chair in handling the work so expeditiously.

3. Closing date of the IXth Plenary Assembly

The delegate of India said that, although it had been proposed that the Assembly should end its work on 29 April 1959, the proposal should be confirmed formally in plenary session.

The motion was supported by the delegates of Italy and the United Kingdom.

There was no opposition and it was therefore formally confirmed that the IXth Plenary Assembly of the C.C.I.R. would conclude its work on 29 April 1959.

The meeting rose at 5.10 p.m.

Rapporteur :

H. Heaton

Secretary :

R.V. Lindsey

Chairman :

A. Lebel

M I N U T E S
OF THE
THIRD PLENARY MEETING

Wednesday, 22 April 1959, at 9:30 a.m.

Chairman : Dr. A. Lebel

Subjects discussed :

1. Texts submitted by the Drafting Committee :

- a) originating from Study Group IV : Docs. Nos. 436 and 468
- b) originating from Study Group V : Docs. Nos. 375, 376, 387, 439,
386, 377, 438 and 453
- c) originating from Study Group VI : Docs. Nos. 290, 378, 381, 382,
388 and 437
- d) originating from Study Group IX : Docs. Nos. 372 and 374
- e) originating from Study Group XIII : Docs. Nos. 456 and 455
- f) originating from Study Group I : Docs. Nos. 384, 441, 452, 449
and 451

2. Any other business.

Present :

Administrations of Members of the Union :

Argentine Republic, Australia, Belgium, Bielorussian S.S.R.,
P.R. of Bulgaria (represented by Czechoslovakia), Canada, China, Denmark,
Spain, United States, Finland, France, Guatemala, Republic of India,
Ireland, Italy, Japan, Norway, New Zealand, Pakistan, Netherlands, P.R.
of Poland, Portugal, Federal Republic of Germany, F.P.R. of Yugoslavia,
Ukrainian S.S.R., Roumanian P.R., United Kingdom of Great Britain and
Northern Ireland, Sweden, Switzerland, Czechoslovakia, Group of the dif-
ferent territories represented by the French Overseas Postal and Tele-
communication Agency, Union of South Africa, Union of Soviet Socialist
Republics, Venezuela.

Recognized private operating agencies :

K.D.D., N.T.T., N.H.K., M.I.M.C.C.; RAI, Am. T. & T., B.B.C.,
S.A.B.C., Companhia Portuguesa Radio Marconi.

International organizations

C.I.R.M., I.C.S., U.R.S.I., I.B.T.O.

Specialized agencies in relation with the United Nations

World Meteorological Organization.

Permanent organs of the I.T.U.

I.F.R.B., C.C.I.T.T.

1. Texts submitted by the Drafting Committee

The Chairman reminded delegates of the need to speed up the study of the documents submitted for approval as much as possible; to that end, any document not giving rise to comments would be regarded as approved unanimously.

a) Texts originating from Study Group IV

Document 436 : Approved unanimously.

Document 468 :

Mr. Henry (France), Chairman of the Drafting Committee; explained that there was no need to change the number of Recommendation No. 168, since the amendment to operative paragraph 1 proposed in Doc. 468 applied only to the French version.

Document 468 was approved unanimously.

b) Texts originating from Study Group V

Document 375 :

Mr. Henry (France), Chairman of the Drafting Committee, pointed out a typing error in the formula in the English version; he recalled that the original document (Annex p(V)) included a footnote that the text of the draft Recommendation was the same as in Annex C(IV) to Doc. 4. Hence only one document would be required in Volume I of the Los Angeles documents.

Various amendments were proposed to the Note at the end of the document; at the Chairman's suggestion, it was agreed that Dr. Smith-Rose (United Kingdom), Chairman of S.G. V., Mr. Allen (United States), Vice-Chairman, and Mr. Henry (France), Chairman of the Drafting Committee, would jointly prepare a final text in three languages.

With the amendments indicated and any formal amendment to the Note, Document 375 was approved unanimously.

Document 376 : Approved unanimously with the addition at the end of a reference : "10. Doc. 132 (U.S.S.R.), Los Angeles, 1959".

Document 387 : Approved unanimously subject to any slight amendments or clarifications by the Secretariat.

Document 439 : Approved unanimously, with the addition of clarifications to items 5, 6, 10 and 11 of the Bibliography. The text would be transmitted directly to the Secretariat.

Document 386 : Approved unanimously.

Document 377 :

Dr. Smith-Rose (United Kingdom), Chairman of Study Group V, suggested that the term "wide-band radio systems" should be replaced in the title and throughout the text by the term "radio-relay systems" generally used in other documents.

Mr. Allen (United States), Vice-Chairman of Study Group V, pointed out that on page 2, line 1 of the English text "1%" had been omitted from the series.

Document 377 as amended was approved unanimously.

Document 438 : Approved unanimously subject to the correction of an error in the formula at the bottom of page 3 of the French text (sign integrating F to infinity omitted).

Document 453 :

Mr. Henry (France), Chairman of the Drafting Committee, said that since the amendment to Recommendation No. 111 in Document 247 had been adopted, a reference to that document could replace the mention of Annex B(IV). On page 1, line 2, "500 Mc/s" would also have to be amended to "600 Mc/s".

Document 453 as amended was approved unanimously.

c) Texts originating from Study Group VI

Document 290 :

Mr. Henry (France), Chairman of the Drafting Committee, said that he would submit directly to the Secretariat the various clarifications to the references on pages 10 and 11. Also, the reference to Annex C(VI) could be replaced by a reference to Document 288, which had been approved at the previous plenary meeting.

The delegate of the Netherlands said that the curve on the extreme left of Fig. 5 should be numbered 70.

Dr. Bailey (United States), Chairman of Study Group VI, thought that the footnote on page 1 was incorrect, for Report No. 65 had not been revised and its curves had not been modified but had merely been slightly amended; it would therefore be preferable to depart from the usual procedure and to state that Document 290 was a second edition of Report No. 65 which would retain its number.

The delegate of Switzerland said that many other documents differed only very slightly from existing Recommendations or Reports and that a similar procedure could be followed for all documents in the same position.

The delegate of France said that he had thought of making a similar proposal; however, in order not to delay consideration of the texts, it would be preferable to return to the question under Any Other Business.

It was so decided.

The delegate of Czechoslovakia was surprised that some of the bibliography was given in the middle of the document on page 5 and the remainder on pages 10 and 11. He proposed that all the references should be included in a single bibliography.

Dr. Bailey (United States), Chairman of Study Group VI, explained that the literature listed on pages 10 and 11 was readily obtainable, whereas the literature listed on page 5 was not accessible to everybody.

The delegate of Czechoslovakia regretted that unobtainable documents should be mentioned, but would not insist and withdrew his proposal.

Document 290 was approved unanimously, on the understanding that the principle of renumbering documents would be further studied under Any Other Business.

Document 378 : Approved unanimously, subject to the exact reference to appear below the title.

Document 381 :

Dr. Bailey (United States), Chairman of Study Group VI, suggested a minor amendment to the English title and proposed that the Note at the end should be amended to read :

"In carrying out the above studies note should be taken of related studies in URSI".

Document 381 as amended was approved unanimously.

Document 382 :

The delegate of the U.S.S.R. considered that the reasons for the proposed studies were already clearly stated under "considering", and so there was no need to mention in paragraph 5 under "recommends" (page 3) the fact that the Administrations and the IFRB needed to have reliable curves available. That section should be deleted.

After hearing explanations from Dr. Bailey, Mr. Roberts (IFRB) and Mr. Henry, giving reasons for drafting paragraph 5 in that form, the delegate of the U.S.S.R. withdrew his proposal.

The delegate of Switzerland pointed out an apparent omission in the French version of paragraph 5 - the failure to translate the phrase : "in the light of present knowledge".

Mr. Henry (France), Chairman of the Drafting Committee, said that the word "revising" obviously meant that present knowledge would be taken into account, but he saw nothing against adding : "à la lumière des connaissances actuelles" to the French version.

Dr. Bailey (United States), Chairman of Study Group VI, said that the reference to Recommendation No. 52 should be replaced by a reference to "Annex A(IV), figures 6 and 10".

With these modifications, Document 382 was unanimously approved.

Document 383 :

Dr. Bailey proposed the following new version of paragraph 1 under "recommends" :

"1. The space and time distribution (for example, Rayleigh, normal and log-normal) of short-period field strength variations ranging from less than 10^{-4} seconds to as much as several minutes. Such results may also be measured as space and time correlation and power spectra."

With the above amendment, Document 383 was approved unanimously.

Document 437 :

Dr. Bailey stressed the great importance of the document, one of the two which Study Group VI would like submitted to the next Radio Conference. Indeed, on it depended the very existence of radio astronomy.

Paragraphs 3 and 6 under "recommends" might usefully be recast as a single paragraph.

The delegate of Denmark, while realizing the importance of the document, considered that great care was required where the CCIR had to give an opinion on a frequency allocation question. His delegation would have difficulty in approving the Recommendation in its present form, and at the next Radio Conference the CCIR would certainly be unable to justify the allocation of all the frequencies listed in paragraph 6.

Denmark could not approve Document 437 in that form.

The delegate of the United Kingdom said that his Administration appreciated the fundamental importance of radio-astronomy, and therefore its need for necessary frequency provision to be made when appropriate. However, it should be pointed out that the present Conference was not capable of making such provisions, which was entirely the domain of the Radio Conference. The CCIR was merely concerned with making technical recommendations to assist that conference and it was only on that basis that he could consider the document. Because of the present congestion of the spectrum, provision of the required protection would of necessity be a long-term view, and it must be stressed that acceptance of the document, either in its present, or in any subsequently modified form, could in no way commit Administrations regarding the actual frequency allocation issue.

The Chairman assured the delegate of the United Kingdom that it could not be the intention of the CCIR Recommendation to commit Administrations to any course of action with respect to proposals or negotiations at the forthcoming Radio Conference or to modify the Table of Frequency Allocations in any way.

As a basis of science and technology, and not as a basis for committing Administrations at the Radio Conference, he did not consider that there would be any great risk in accepting the document.

Speaking as delegate of the United States, he could say that such would be the position of his Administration.

The delegate of the United Kingdom said that, in view of the Chairman's assurance, he was prepared to approve the Recommendation in principle, but the document would have to be modified and he would like, inter alia, to amend paragraph g) under "considering" as follows :

"g) that, nevertheless, it is impracticable to afford adequate protection without some international agreement;"

There was some overlapping between paragraphs 3 and 6 under "recommends", and they would certainly require redrafting; with regard to the frequencies to be allocated, international agreement would be required for some but not for others, for some Administrations might not want to use certain frequencies. That point would have to be studied very carefully and paragraph 6 would therefore require amendment.

Dr. Dellinger (U.R.S.I.), speaking as the Chairman of the Working Group which had drafted the Recommendation, approved the proposed amendment to paragraph g) and the principle of recasting paragraphs 3 and 6. Perhaps paragraph 3 could be amended to include the phrase : "and particularly frequencies near the following frequencies : ".

Also, the reference to Recommendation No. 179 in paragraph 5 should be deleted.

The delegate of the U.S.S.R. shared the doubts expressed on the advisability of submitting such a document, which his delegation could, in any case, accept only if paragraph 6 were deleted and paragraph 3 retained.

The Working Group had wondered whether the document should be submitted to the Radio Conference as a Resolution rather than a Recommendation, and he proposed to submit that point to the decision of the Plenary Assembly.

After consultation with Mr. Allen and Mr. Herbstreit (U.S.A.), Dr. Bailey proposed as a compromise solution merely the addition after paragraph 3 of the words : "Frequencies close to the following frequencies are suitable for radio astronomy", to be followed by the list of the proposed frequencies.

The delegate of the United Kingdom approved the proposed amendment and suggested that there should be added after the list : "the exact frequencies would be determined by agreements at national level."

The delegate of Denmark said that he could approve the document as thus amended, provided that the whole discussion appeared in the record.

The delegate of Canada, who also approved the proposed amendments, suggested adding the words : "if possible" in paragraph 3.

The delegate of Italy was doubtful whether a document submitted in that form would be of any use. It would be preferable to emphasise the importance of radio astronomy for radiocommunications in a paragraph under "considering", for if radio astronomy did not concern radio-communications, there was no reason for the Recommendation.

Dr. Metzler, Director of the C.C.I.R., felt some concern at the last speaker's remark on the usefulness of such a Recommendation and recalled the CCIR had definite commitments to organizations actively collaborating with it. U.R.S.I., in particular, was giving very effective assistance. For instance, the C.C.I.R. had raised 26 questions at the U.R.S.I. General Assembly and, although the questions were certainly not so interesting to U.R.S.I. as to the C.C.I.R., U.R.S.I. had nevertheless undertaken the necessary studies and replied to all the C.C.I.R. questions. He appealed to the Assembly's sense of fairness. Those considerations should be borne in mind and the Recommendation placed before the Radio Conference.

The delegate of Italy said that, while fully appreciating the usefulness of U.R.S.I.'s cooperation with the C.C.I.R., he wondered whether the Assembly should exceed the commitments of the C.C.I.R. to U.R.S.I. if the latter requested something not allowed by the Convention.

It was essential not to exceed the scope of the Convention, which was why he had previously insisted on the need to emphasize the link between the work of U.R.S.I. and of the C.C.I.R. Study Programme No. 96(VI) providing precisely the means for doing that.

Dr. Metzler, Director of the C.C.I.R., said that he was pleased with the last speaker's viewpoint, for it seemed to remove any misunderstanding.

The delegate of the U.S.S.R. requested that, in view of the form in which the document had been submitted and of the many amendments thereto, a further document should be prepared for submission to a subsequent meeting.

It was accordingly decided to set up a small working group consisting of Dr. Bailey, Chairman of Study Group VI, Dr. Dellinger (URSI), Dr. Smith-Rose (United Kingdom), Mr. Nielsen (Denmark), Mr. Ehle (Netherlands), Mr. Henry (France), Chairman of the Drafting Committee, Dr. Nicotera (Italy) and Mr. Joachim (Czechoslovakia). The group would study the possibility of submitting as a Resolution a version of Document 437, including the various proposed amendments.

d) Texts originating from Study Group IX

Document 372 : Approved unanimously with a typographical correction to the English text.

Document 374 : Approved unanimously.

e) Texts originating from Study Group XIII

Document 456 : Approved unanimously.

Document 455 :

The delegates of the United States and Italy considered that the document should be submitted as a Resolution rather than as a Report.

After an exchange of views it was decided to return the document to the Drafting Committee for submission as a Resolution and for clarification of the wording of paragraph 3; the same amendment would therefore be required to paragraph 3 of Document 456.

f) Documents originating from Study Group I

Document 384 : Approved unanimously with a minor amendment to the French text only.

Document 441 : Approved unanimously with a minor drafting amendment.

Document 452 : Colonel Lochard (France), Chairman of Study Group I, said that : "par le service fixe" should be added to the end of line 2 of the French text and that in the footnote "Programme d'Etudes No. 31" should be amended to "Programme d'Etudes No. 41 (I)."

Document 452 was then approved unanimously.

Document 449 :

Colonel Lochard said that the amendment just made to Document 452 to cover the work of Study Group XIII would also be required in Question No. 20 and that the words : "and its use also extends to the mobile services" should be added to paragraph a).

Document 449 was approved unanimously.

Document 451 : Approved unanimously.

3. Any other business

The Chairman opened discussion on the question of renumbering the Reports, raised in connection with consideration of Document 290.

Dr. Metzler, Director of the C.C.I.R., reminded the meeting that Dr. Bailey, Chairman of Study Group VI, now absent, had pointed out that since the amendments proposed in Document 290 were purely material ones, it would be preferable not to renumber Report No. 65, for engineers often referred to it and a change in its number might cause difficulties.

Speaking on behalf of the Secretariat, he was prepared to edit Report No. 65, which would be published with the mention "2nd edition", but he did not consider that procedure advisable in other cases, for two different texts with the same number might cause confusion. Also, there was no need to amend a Report or a Recommendation in the case of very minor changes.

Mr. Henry (France), Chairman of the Drafting Committee, stressed that Dr. Bailey's proposed amendment was general in scope. He fully agreed with Dr. Metzler, and in this Assembly, as in subsequent Assemblies, it should be possible to refer to accurate texts. The exception proposed for Report No. 65 should therefore be unique.

The delegate of Italy, seconded by the delegate of India, proposed on a point of order, that the question should be studied by the Organization Committee.

The various proposals having been withdrawn, discussion on the matter was closed.

The meeting rose at 12.25 p.m.

Rapporteur :

M. Cahn-Bunel

Secretary :

R.V. Lindsey

Chairman :

A. Lebel

M I N U T E S
OF THE
FOURTH PLENARY MEETING

Thursday, 23 April 1959 at 2.30 p.m.

Chairman : Dr. A. Lebel

Subjects discussed :

1. Announcement by Chairman
2. Texts submitted by the Drafting Committee
 - a) Originating from Study Group I : Docs. Nos. 442, 486, 487 and 488
 - b) Originating from Study Group III : Docs. Nos. 519, 520, 521, 522, 523 and 524.
 - c) Originating from Study Group IV : Docs. Nos. 443, 444 and 480.
 - d) Originating from Study Group V : Docs. Nos. 481, 482, 489, 526, 527, 528, 529 and 530.
 - e) Originating from Study Groups V and VI : Doc. No. 531.
 - f) Originating from Study Group VI : Docs. Nos. 380, 534, 535, 536, 537, 538, 539 and 573.
 - g) Originating from Study Group IX : Docs. Nos. 483, 484, 552, 554 and 599.

Present :

Administrations of Members of the Union :

Argentine Republic, Australia, Austria, Belgium, Bielorussian S.S.R., R.P. of Bulgaria (represented by Czechoslovakia), Canada, China, Denmark, Spain, United States of America, Finland, France, Guatemala, Republic of India, Ireland, Italy, Japan, Norway, New Zealand, Pakistan, Netherlands, P.R. of Poland, Portugal, Federal Republic of Germany, F.P.R. of Yugoslavia, Ukrainian S.S.R., Roumanian P.R., United Kingdom of Great Britain and Northern Ireland, Sweden, Switzerland, Czechoslovakia, Turkey, Union of South Africa, Union of Soviet Socialist Republics, Venezuela.

Recognized private operating agencies :

Am. T.&T. Co, B.B.C., Cable & Wireless Ltd., I.T.A., I.M.R.C., K.D.D., M.I.M.C.C., Radio Austria A.G., RAI, S.A.B.C.

International organizations

C.I.R.M., I.C.S., I.B.T.O., U.R.S.I.

Specialized agencies of the United Nations

W.M.O.

Permanent organs of the I.T.U.

I.F.R.B., C.C.I.T.T.

1. Announcement

The Chairman opened the meeting by saying :

"We are in what I consider to be a critical position with regard to the possibility of finishing our work on time. It has been estimated, first by the Chairman of the Drafting Committee, and then by members of the secretariat, whom I have consulted, that we can anticipate having a total of 280 documents for the approval of this Plenary Assembly. The two previous Plenary meetings have adopted 51 of them, and there are 36 for consideration today, which will leave 190 documents yet to come up for consideration. At the rate of 60 documents per day, 190 documents would represent a little more than three days work - if we begin tomorrow morning. We cannot rely on next Monday, Tuesday and Wednesday for the examination of pink documents, because we have fifteen or twenty items of business for discussion then, and some of these items are expected to consume a considerable amount of time. There is therefore no alternative but to hold Plenary meetings not only this afternoon, but also on Saturday and Sunday, if we are to terminate our work.

Furthermore, there now faces us another and more serious problem: we cannot hold all these Plenary meetings unless we have the necessary staff available to feed the Plenary Assemblies with documents, and in my judgement there is serious doubt that this will be the case, unless we are prepared in some way to recognize the efforts which have been made so far by the staff, and which are, in my view, quite beyond the call of duty. I have therefore discussed this matter with the Director, and with a number of delegates (as many as I could contact in the time available) and we have come to the decision that, subject to your approval, I would authorize arrangements to be made so that some form of gratification can be given to these employees, in recognition of their efforts. This would involve certain categories of staff only, because these steps cannot be taken for all. Can I assume that the Assembly agrees with my proposed action in this case?"

The Assembly agreed.

2. Texts submitted by the Drafting Committee

a) Originating from Study Group I

Document 442 : Approved unanimously.

Document 486 : Approved unanimously.

Document 487 : Approved unanimously, subject to a comment by Mr. Allen (U.S.A.) concerning the definition given in para. 1.2 on page 3. He did not believe that the definition of necessary bandwidth to be correct, and feared that it might later give rise to difficulties within the C.C.I.R. However, he did not wish to stress this point and was prepared to accept the document.

Document 488 : Approved unanimously.

b) Originating from Study Group III

Document 519 : The delegate of the U.S.S.R. thought that the document was insufficiently clear as regards the effect of distances and geographical features on signal-to-noise ratios, as described in Doc. No. 129. The data in Doc. No. 519 were only an approximation.

Dr. van Duuren (Netherlands), Chairman of Study Group III, said that the protection ratios were for stable or steady-state conditions only, so that distances or circuit lengths were not involved.

The delegate of the U.S.S.R. said that, rather than formulate a reservation, he would accept the document, provided a note explaining his position was inserted in the document itself. He would give the text of the note to the Drafting Committee.

The delegate of Czechoslovakia said that, since the Recommendation under consideration replaced Recommendation No. 163, he would be glad if the reservation made by his delegation and the delegation of the P.R. of Bulgaria at the Warsaw meeting, in connection with Recommendation No. 163, could be recorded with the new Recommendation.

The delegate of the Ukrainian S.S.R. also wished to reserve his position on the new Recommendation.

Subject to the reservations mentioned above, Document 519 was approved.

Document 520 : Approved unanimously.

Document 521 : Approved unanimously, subject to three minor drafting changes decided by Study Group III and omitted from the text.

Document 522 : Approved unanimously.

Document 523 : Approved unanimously.

Document 524 : Approved unanimously.

c) Texts originating from Study Group IV

Document 443 : Approved unanimously, with the deletion of the reference to Report No. 61.

Document 444 : Approved unanimously.

Document 480 : Approved unanimously.

d) Texts originating from Study Group V

Document 481 : Approved unanimously.

Document 482 : Approved unanimously.

Document 489 : Approved unanimously, subject to the amendment of the Note on page 2, in accordance with the changes made to a similar Note in Doc. No. 375 and approved by the Third Plenary meeting.

Document 526 : Approved unanimously, subject to a small correction to the French text, and the addition of "1%", "10%" and "50%" against the three curves given on page 4.

Document 527 : Approved unanimously, subject to the following amendments :

- a) Page 3, third paragraph from the end, last line. Instead of "period 19 .. - 19 .." read "periods 1951 - 1955 and 1956 - 1960".
- b) a correction to the French text only, paragraph 5 on page 2.

Documents Nos. 528 and 529 being the same texts as Documents Nos. 481 and 482, respectively, were cancelled.

Document 530 : Approved unanimously.

e) Text originating from Study Groups V and VI

Document 531 : Capt. Booth (United Kingdom) raised similar objections to those he had mentioned during the discussion of Doc. No. 437 at the previous Plenary Session. At the present state of the art, could the requirements be stated so specifically ? He also expressed doubt as to the "narrow bands" referred to in paragraph 3 under "Recommends". Should the allocations be exclusive, or not ? He wondered whether the C.C.I.R. was doing its job thoroughly, i.e. giving sound technical guidance to the Administrative Radio Conference.

Dr. Smith-Rose (United Kingdom), Chairman of Study Group V, felt that the international bodies concerned should be looking ahead to the developments of the next few years and the requirements they would entail. If adequate steps were not taken at the present time, confusion might arise between frequency bands during the five years before the following Administrative Radio Conference. Technical progress was so rapid that it was desirable to anticipate some of the difficulties which might arise.

Dr. Bailey (U.S.A.), Chairman of Study Group VI, said that the situation was already chaotic, since transmission from space-vehicles could cover nearly a whole hemisphere. Bands should certainly be set aside for the new services, but it was inadvisable to specify exact bands, since national Administrations were making proposals to the Administrative Radio Conference. But it was quite appropriate for the C.C.I.R. to give technical advice on the matter.

Capt. Booth realized that it was the duty of the C.C.I.R. to advise the Administrative Radio Conference on this problem, but did the Recommendation as it stood give sound advice? The spectrum was already almost fully occupied; it was therefore essential to know whether the proposed allocations would be exclusive and what their bandwidths would be. In existing circumstances, he thought it would be at least as helpful if the text could be framed in more general terms.

The delegate of Canada said that a well-known problem had again arisen: could the C.C.I.R. recommend frequency allocations or not? He suggested an amendment to paragraph 1 of the Recommendation to make it less imperative.

The delegate of New Zealand agreed with the delegate of the United Kingdom, but did not think the solution proposed by the delegate of Canada quite covered the point. In his view, the question of whether or not such allocations should be exclusive, or could be shared, should be studied before an opinion could be expressed. He would prefer the deletion of paragraph 1.

Dr. Dellinger (U.S.A.), representative of U.R.S.I., strongly supported the proposed Recommendation. It covered the four different requirements for the service in question, with the four points under "Recommends". He did not feel that the C.C.I.R. was trespassing on the ground of the Administrative Radio Conference - no specific bands were being proposed. He thought the C.C.I.R. was performing excellently the very function for which it had been created, and the change suggested by the delegate of Canada covered the problems raised very well.

Capt. Booth, having considered the comments of Dr. Dellinger and the delegate of New Zealand, stated that he could accept the document if paragraph 1 of the "recommends" were redrafted to read :

"1. that consideration be given to the use of a number of small frequency bands well spaced throughout the HF and higher bands for telecommunication services with and between space vehicles."

Subject to the amendment proposed by Captain Booth, Doc. No. 531 was approved unanimously.

f) Texts originating from Study Group VI

Document 380 : Approved unanimously, subject to the insertion of "Los Angeles Doc. No. 6" on page 1, last paragraph, third line, after "see Annex I(VI)".

Document 534 : Approved unanimously.

Document 535 : Approved unanimously, subject to two minor drafting changes, and the transformation of the Recommendation into a Resolution.

Document 536 : Approved unanimously, subject to a small drafting change and the transformation of the Recommendation into a Resolution.

Document 537 : Approved unanimously.

Document 538 : Approved unanimously, subject to the replacement of the word "transmission" by "propagation" in para. 1, lines 1 and 4, on page 2.

Document 539 : Approved unanimously.

Document 573 : The delegate of Czechoslovakia said that the document proposed to use the term "classical MUF", taking into account ionospheric refraction exclusively and not scatter. His delegation felt that the word "classical" was hardly correct and had suggested an alternative in Doc. No. 278. There had been insufficient time for Study Group VI to study the proposed alternative and it had been agreed that it might be brought up in the Plenary Assembly. He had got into touch with several other delegations who agreed with him that it would be better to use the expression "simplified MUF". It seemed advisable to reach a decision forthwith, so that the future technical literature could be based on a correct, officially adopted term.

There was no support for the proposal by the delegate of Czechoslovakia, who said that he would be satisfied if his views were recorded in the minutes.

Document No. 573 was approved.

g) Texts originating from Study Group IX

Document 483 : Approved unanimously.

Document 484 : Approved unanimously.

Document 552 : Approved unanimously, with the addition of "of 600 channels or more" after "systems" on page 1, "considering" b), 3rd line.

Document 554 : Approved unanimously, with an amendment to paragraph c) under "considering", page 1; to bring it into line with Docs. No. 320 and 321. Read : "c) that hypothetical reference circuits for radio-relay systems should be in agreement as far as possible with the hypothetical reference circuits specified by the C.C.I.T.T. for cable systems."

Document 596 : Approved unanimously.

Document 599 : Approved unanimously.

The meeting rose at 4.40 p.m.

Rapporteur :

V. Bouladon

Secretary :

R.V. Lindsey

Chairman :

A. Lebel

M I N U T E S

OF THE

FIFTH PLENARY MEETING

Friday, 24 April 1959, at 9.45 a.m.

Chairman : Dr. A. Lebel

Subjects discussed :

Texts submitted by the Drafting Committee :

- a) Originating from Study Group I : Docs. 517 and 518
- b) Originating from Study Group II : Docs. 410, 459, 478, 479, 485 and 490.
- c) Originating from Study Group VI : Docs. 532, 533, 541 and 542.
- d) Originating from Study Group VII : Docs. 547 and 548.
- e) Originating from Study Group XI : Doc. 604.
- f) Originating from Study Group XII : Doc. 606.
- g) Originating from Study Group XIII: Docs. 582 and 583.

Present :

Administrations of Members of the Union :

Argentine Republic, Australia, Austria, Belgium, Bielorussian S.S.R., P.R. of Bulgaria (represented by Czechoslovakia), Canada, China, Denmark, Spain, United States of America, France, Guatemala, Republic of India, Ireland, Italy, Japan, Norway, New Zealand, Netherlands, P.R. of Poland, Portugal, Federal Republic of Germany, F.P.R. of Yugoslavia, Ukrainian S.S.R., United Kingdom of Great Britain and Northern Ireland, Sweden, Switzerland, Czechoslovakia, Group of the different territories represented by the French Overseas Postal and Telecommunications Agency, Union of South Africa, Union of Soviet Socialist Republics.

Recognized private operating agencies :

Am. T. & T. Co., B.B.C., Cable & Wireless Ltd., Companhia Portuguesa Radio Marconi, K.D.D., M.I.M.C.C., N.H.K., N.T.T., Radio Austria A.G., R.C.A., RAI, S.A.B.C.

International organizations

C.I.R.M., I.C.S., I.B.T.O., U.R.S.I.

Permanent organs of the I.T.U.

I.F.R.B.

Texts submitted by the Drafting Committee

a) Texts originating from Study Group I

Document 517 : Approved unanimously.

Document 518 : Approved unanimously.

b) Texts originating from Study Group II

Document 410 : Approved unanimously.

Document 459 : Approved unanimously.

Document 478 : Approved unanimously.

Document 479 : Approved unanimously.

Document 485 : Approved unanimously subject to the insertion of references.

Document 490 :

Capt. Booth, (United Kingdom) proposed that paragraphs d) and e) of the considerations and paragraph 2 under "recommends" should be omitted. The aim was to determine the preferred intermediate frequencies and to utilize them as far as possible in such a way as to avoid interference from high-power stations. The measure advocated might complicate the assignment of frequencies.

Mr. David (France), Chairman of Study Group II, observed that it was a matter of a Question and that the C.C.I.R. would like to know whether it was possible to attain the aim specified.

Capt. Booth (United Kingdom) doubted that a final answer could be given to that Question.

Mr. Allen (United States) supported Capt. Booth's proposal. The question was whether a few intermediate frequencies could be used, and if so, which. It was only after it had been found that the number of frequencies could be limited that the allocation as such would be made; the C.C.I.R. could then issue a Resolution or, more suitably, a Recommendation.

Mr. Nielsen (Denmark) and Mr. Nicotera (Italy) shared the views of Capt. Booth and Mr. Allen.

Mr. Henry (France), Chairman of the Drafting Committee, while recognizing that the Question was one to which the C.C.I.R. would have to provide an answer at the next Plenary Assembly, believed that the Administrations' attention should be drawn to the consequences that that reply might entail. Paragraph 2 under "recommends" might be regarded as consisting of two parts; the object of the main part was to propose that a few intermediate frequencies be used. When that aim had been attained, an effort would be made to avoid installing high-power transmitters in the vicinity of coast stations. As a compromise, the first part of paragraph 2 might be retained; the second part, which was liable to affect the allocation of frequencies, could be deleted.

It was decided to delete paragraphs d) and e) of the considerations and the second part of paragraph 2 under "recommends", which would now read :

"2. Is it possible to propose a few intermediate frequencies for maritime mobile receivers?"

Subject to the above amendment, Document 490 was approved unanimously.

c) Texts originating from Study Group VI

Document 532 : Approved unanimously.

Document 533 : Approved unanimously.

Document 541 : Approved unanimously, subject to the insertion of a reference.

Document 542 : Approved unanimously.

d) Texts originating from Study Group VII

Document 547 : Approved unanimously.

Document 548 :

The delegate of the U.S.S.R. felt that, to bring the text into line with paragraph e) of the considerations, the words "(between 15 and 25 kc/s)" should be inserted in the first line of paragraph 4 under "recommends".

Following a discussion between Mr. Decaux (France), Chairman of Study Group VII, the delegate of the United States and the delegate of the U.S.S.R., as to whether the words "centred on 20 kc/s or in the vicinity of 20 kc/s" should be retained before the addition proposed by the U.S.S.R. delegate, the Chairman suggested that the final text might be drafted, by common agreement, by the interested delegations and the Drafting Committee.

Agreed.

Document 548 was approved unanimously, subject to the above reservation and to certain drafting amendments.

e) Text originating from Study Group XI

Document 604 : Approved unanimously.

f) Text originating from Study Group XII

Document 606 : Approved unanimously, subject to an amendment
concerning the French text only.

g) Texts originating from Study Group XIII

Document 582 : Approved unanimously.

Document 583 :

The delegate of Poland reserved the position of his Administration which could not accept the limit of 2.5 μ W specified in paragraph 2.2 under "recommends" for spurious radiation other than intermodulation products.

Subject to the above reservation, Document 583 was approved.

The meeting rose at 11.00 a.m.

Rapporteur :
H. Baileff

Secretary :
R.V. Lindsey

Chairman :
A. Lebel

MINUTES
OF THE
SIXTH PLENARY MEETING
(Friday, 24 April 1959, at 2.30 p.m.)

Chairman : Dr. A. Lebel

Subjects discussed :

1. Consideration of texts submitted by the Drafting Committee :
 - a) Originating from Study Group I : Docs. Nos. 570, 571, 572, 584 and 590
 - b) Originating from Study Group III : Docs. Nos. 525 and 591
 - c) Originating from Study Group VI : Docs. Nos. 540, 543, 544, 546 and 574
 - d) Originating from Study Group VII : Docs. Nos. 575 and 612
 - e) Originating from Study Group VIII : Docs. Nos. 549 and 577
 - f) Originating from Study Group IX : Docs. Nos. 553, 579, 593, 597, 601, 602 and 614
 - g) Originating from Study Group XIII : Docs. Nos. 555, 556, 557, 558, 559 and 580.
2. Any other business.

Present

Administrations of Members of the Union

Australia, Austria, Belgium, Bielorussian S.S.R., P.R. of Bulgaria (represented by Czechoslovakia), Canada, China, Denmark, Spain, United States of America, France, Guatemala, Republic of India, Ireland, Italy, Japan, Norway, New Zealand, Pakistan, Netherlands, P.R. of Poland, Portugal, Federal Republic of Germany, F.P.R. of Yugoslavia, Ukrainian S.S.R., Roumanian P.R., United Kingdom of Great Britain and Northern Ireland, Sweden, Switzerland, Czechoslovakia, Turkey, Union of South Africa, U.S.S.R., Venezuela.

Recognized private operating agencies

Am. T. & T. Co., B.B.C., Cable & Wireless Ltd., Companhia Portuguesa Radio Marconi, I.M.R.C., K.D.D., M.I.M.C.C., N.H.K., N.T.T., Radio Austria A.G., RAI, S.A.B.C., R.C.A.

International organizations

C.I.R.M., I.C.S., I.B.T.O., U.R.S.I.

Permanent Organs of the I.T.U.

I.F.R.B., C.C.I.T.T.

1. Consideration of texts submitted by the Drafting Committee

a) Texts originating from Study Group I

Document 570 : approved unanimously

Document 571 : approved unanimously, subject to a minor drafting change concerning the French text only.

Document 572 : approved unanimously.

Document 584 :

Mr. Bray (U.K.), Chairman of Study Group IX, had a comment to make on behalf of his Study Group. He felt that the increase in tolerance proposed in Note 9 following the table was not justified, and proposed the deletion of the Note.

Colonel Lochard (France), Chairman of Study Group I, said that certain delegations had requested its insertion. He pointed out that the wording of the Note mentioned "certain transmitters" and was therefore not necessarily applicable to transmitters of concern to Study Group IX. Mr. Bray thereupon expressed his agreement with the retention of Note 9.

The delegate of the P.R. of Poland wished to draw attention to the tolerances for television in Band 29.7 to 100 Mc/s. In Doc. I/42 (Geneva) and in a letter contained in Doc. TEMP/80, Study Group XI expressed the opinion that 1000 c/s should be maintained only for sound and that a tolerance of 500 c/s was sufficient in general for television, though in special cases tighter tolerances might be necessary. This correction should be made.

Mr. Esping (Sweden), Chairman of Study Group XI, explained that the letter was somewhat late and had not yet come to hand in Study Group I. He fully supported the view of the Delegate of Poland.

The delegate of the U.S.A. said that his delegation would not be willing to accept the figure of 500 c/s, as a value of 1,000 c/s was used in the United States. Perhaps the problem could be solved by adding a note to those on page 8 of the document.

It was agreed that a Note 10 would be added, taking account of Doc. TEMP/80 once it came to hand, and adding : "It is recognized that certain services might require tighter tolerances for technical and operational reasons."

The delegate of India was of the opinion that the further changes proposed since Recommendation No. 148 had been revised during the interim meetings in Geneva, were not based on adequate data, and there was no justifiable reason for considering c). It was not always so easy merely to modify existing equipment, and often entailed replacing the equipment entirely. However, since this point had been discussed in meetings of the Study Group, and its sub-groups, he had no alternative but to state that his Administration wished to reserve its views on this document. He also requested the Secretariat to contact him on this matter after his return to India, in order that, after consultation with his Administration, it could be decided whether this reservation should be printed in the Green Book of final documents.

This was agreed.

In answer to a query by the delegate of Czechoslovakia, Colonel Lochard explained that the "mean power" mentioned merely applied to the antenna input.

Subject to the reservation by the delegate of India, Doc. No. 584 was approved.

Document 590 : approved unanimously, subject to a small correction of the French text.

b) Texts originating from Study Group III

Document 525 : approved unanimously.

Document 591 : approved unanimously.

c) Texts originating from Study Group VI

Document 540 : approved unanimously, subject to a minor drafting change.

Document 543 : approved unanimously, with a rewording of para. 2 of considering b), proposed by Dr. Bailey, (U.S.A.), Chairman of Study Group VI : viz : "the practical limiting distance of one-hop propagation when the Pedersen ray and practical antenna patterns are considered";

Document 544 : approved unanimously with a minor drafting change.

Document 546 : approved unanimously, with insertion at the end of para. 3 of the word "influencing" before "factors".

Document 574 : in answer to a query by Mr. Henry (France), Chairman of the Drafting Committee, Dr. Bailey stated that the report referred to in point 3 of the resolves was not yet ready, but could, for convenience sake, be added later, as the Study Programme to which it referred had already been approved.

This was agreed and Doc. No. 574 was unanimously approved, subject to a minor drafting change.

d) Texts originating from Study Group VII

Document 575 : approved unanimously with a minor drafting change in para. a).

Document 612 : approved unanimously. The delegate of India pointed out that in the morning a document (No. 548) had been considered concerning a band of 100 c/s in the vicinity of 20 kc/s (between 15 and 25 kc/s) and he believed it would be well if the wording of that document and Doc. No. 612 could be brought more into line. This was agreed.

e) Texts originating from Study Group VIII

Document 549 : the delegate of the U.S.S.R. wished to reserve the opinion of his delegation on this document. He had explained his reasons at a meeting of the Working Group and did not therefore consider it necessary to expound them at this time.

The delegations of Czechoslovakia (also on behalf of the P.R. of Bulgaria), the Roumanian P.R., the Ukrainian S.S.R. and the Bielorussian S.S.R. also expressed reservations on this document, and the latter added that he would submit his reasons in writing to the Secretariat to avoid delay in the Assembly.

With these reservations Doc. No. 549 was approved.

Document No. 577 : The Chairman of the Drafting Committee drew attention to the fact that this document resulted from examination by the Drafting Committee of Doc. No. 328 and Doc. TEMP/117 which made modifications to the former. He proposed minor drafting changes, one concerning only the French text.

The delegate of the U.S.S.R. wished to amend para. e) to read : "that satisfactory methods for identifying some multi-channel types of transmission are not as yet in general use."

Mr. Turner (U.S.A.), Acting-Chairman of Study Group VIII, said that the matter had been discussed at some considerable length in the Study Group, and that Recommendation No. 220 and Report No. 91 did, in fact, set forth methods which would serve the purpose intended, and therefore he would prefer that this paragraph be not amended. He was supported by the delegate of Portugal.

In view of the fact that his proposal was not supported the delegate of the U.S.S.R. wished to reserve his opinion on the document.

The delegate of the Ukrainian S.S.R. also wished to reserve his opinion.

With these reservations Doc. No. 577 was approved.

f) Texts originating from Study Group IX

Document 553 : approved unanimously, with two minor drafting changes in the French text and one in the English.

Document 579 : Mr. Henry (France) stated that as the document indicated certain preferred characteristics, he would suggest that the footnote concerning these characteristics be completed to read : "particularly in France the sub-carrier frequency is 10 Mc/s".

Document No. 579 was approved unanimously with this addition.

Document 593 : The Chairman of the Drafting Committee suggested that the words "input and output levels" on page 2, be changed to "input and output voltages."

With this suggestion and a minor drafting change, Document No. 593 was unanimously approved.

Document 597 : approved unanimously.

Document 601 : approved unanimously with the correction of a typographical error in the English text only.

Document 602 : Mr. Bray (U.K.), Chairman of Study Group IX, proposed a rewording of para. (g) to read : "that on the other hand, in order to facilitate and to cheapen filter construction the measuring channels should not be positioned too near these limits."

With this amendment Doc. No. 602 was approved unanimously.

Document 614 : The Chairman of Study Group IX pointed out that this Resolution had the object of making formal an arrangement already in existence, namely that of the Joint C.C.I.T.T./C.C.I.R. Working Party on Circuit Noise. The document was approved unanimously.

g) Texts originating from Study Group XIII

Document 555 : The delegate of the U.S.A. wished to amend para. 10 to read : "..... preferably, on the frequency of the common calling and safety channel 156.80 Mc/s."

With this amendment the document was approved unanimously .

Document 556 : Mr. Spøberg (Norway), Chairman of Study Group XIII, regretted that this document was inadvertently identical with Document No. 580 and recommended that the former be deleted. This was agreed.

Document 557 : With the addition of a footnote : "This Recommendation concludes the study of Question No. 164" the document was unanimously approved.

Document 558 : Upon a suggestion by the delegate of the U.S.A., supported by the delegate of the U.K., it was decided that this document should represent a Resolution instead of a Recommendation, and, as such, was unanimously approved.

Document 559 : With the addition of a footnote : "This Recommendation concludes the study of Question No. 159", the document was approved unanimously.

Document 580 : Approved unanimously, with a minor drafting change in para. a).

2. Any other business :

The Chairman announced that documents had become available in greater numbers and that the plenary session's work had advanced more rapidly than had been anticipated, and hence it would not be necessary for the Plenary Assembly to meet until the latter part of Saturday. He also announced that, in view of the excursion planned for the next day, delegates were requested to be sure to pick up their documents at 4 p.m. on Saturday, for the next plenary meeting, as these documents could unfortunately not be available to them sooner.

Dr. Sarwate (India) requested that the numbers be chalked up on the blackboard and this was agreed. He then requested that a meeting of the Finance Committee take place immediately subsequent to the close of the present Plenary meeting, which was agreed.

Mr. Henry, Chairman of the Drafting Committee, stated that approximately 90% of the work entrusted to the Drafting Committee had already been terminated, and it would be of considerable assistance to their work if Study Group Chairmen could indicate how many documents they still had outstanding, and their approximate length. This was agreed.

The meeting rose at 3.50 p.m.

Rapporteur :

Secretary :

Chairman :

R. Umberg-Hauben

R.V. Lindsey

A. Lebel

M I N U T E S
OF THE
SEVENTH PLENARY MEETING

Saturday, 25 April 1959, at 6 p.m.

Chairman : Dr. A. Lebel

Subjects discussed :

1. Minutes of the second Plenary Meeting (Doc. No. 629)
2. Texts submitted by the Drafting Committee :
 - a) Originating from Study Group III : Docs. Nos. 607, 608, 609, 610, 618, 648
 - b) Originating from Study Group II : Docs. Nos. 454, 494, 663, 664
 - c) Originating from Study Group VI : Docs. Nos. 545 and 611
 - d) Originating from Study Group IX : Docs. Nos. 551, 592, 594, 595, 598, 603, 613, 620, 621, 622, 623, 624, 625 and 641.
 - e) Originating from Study Group X : Docs. Nos. 639, 634, 631, 632, 636, 630, 637, 657, 638, 635, 656, 633, 654, 655 and 653.
 - f) Originating from Study Group XIII : Docs. Nos. 560, 581, 645 and 659.
 - g) Originating from the Technical Assistance Committee : Docs. Nos. 628 and 627.

Present :

Administrations of Members of the Union

Argentine Republic, Australia, Austria, Belgium, Bielorussian S.S.R., P.R. of Bulgaria (represented by Czechoslovakia), Canada, China, Denmark, Spain, United States of America, France, Republic of India, Ireland, Italy, Japan, Norway, New Zealand, Pakistan, Netherlands, P.R. of Poland, Portugal, Federal Republic of Germany, F.P.R. of Yugoslavia, Ukrainian S.S.R., Roumanian P.R., United Kingdom of Great Britain and Northern Ireland, Sweden, Switzerland, Czechoslovakia, Turkey, Union of South Africa, Union of Soviet Socialist Republics.

Recognized private operating agencies

K.D.D., N.T.T., N.H.K., M.I.M.C.C., Radio Austria A.G., RAI, Am. T.&T., B.B.C., I.T.A., Cable & Wireless Ltd., Companhia Portuguesa Radio Marconi, S.A.B.C.

International organizations

C.I.R.M., I.C.S., I.B.T.O., U.R.S.I.

Permanent organs of the I.T.U.

I.F.R.B., C.C.I.T.T.

1. Minutes of the second Plenary Meeting (Doc. No. 629)

Approved unanimously.

2. Texts submitted by the Drafting Committee

a) Originating from Study Group III

Document 607 : Approved unanimously, with minor corrections.

Document 608 : Approved unanimously, subject to i) the French equivalent of "time-modulation system" in para. d) to be verified by Dr. van Duuren (Netherlands), Chairman of Study Group III, and Mr. Henry (France), Chairman of the Drafting Committee, and ii) the removal of the dashes in para. 1.3 on page 2 of the English text, which might be taken for minus signs.

Document 609 : Approved unanimously, with "A9c" instead of "A9b" in para. 1.2.1 and line 3 of para. 1.2.2. on page 2.

Document 610 : Approved unanimously.

Document 618 : Approved unanimously, with minor corrections to the French text.

Document 648 : Approved unanimously, with the addition of "Doc. 607" after "Recommendation No. ..." for each reference.

b) Texts originating from Study Group II

Document 454 : Approved unanimously.

Document 494 : Approved unanimously, with minor corrections.

Document 663 : Approved unanimously.

Document 664 : Approved unanimously.

c) Texts originating from Study Group VI

Document 545 : Approved unanimously, with "Doc. 381" instead of "Annex AM(VI)" in the penultimate line.

Document 611 : Approved unanimously, with the following changes :

- i) Remove "the" and "region" from the first line of the title.
- ii) Instead of last three words of "considering" c) read:
"... required by communications engineers" and in f) remove "general" and replace "radiocommunication" by "communications engineers".
- iii) On page 2, para. 3, first line, add : "the following should be specified when data are reported" and delete "should be reported" from the last line.
- iv) Paragraph 5, add an asterisk after "anomaly" and insert a footnote at the bottom of the page: "*See Report No... (Doc. No. 666, Los Angeles)."

d) Texts originating from Study Group IX

Document 551 : Approved unanimously, with the interchange of "telephony" and "television" in the title.

Document 592 : Approved unanimously, with a minor correction to the French text.

Document 594 : Approved unanimously.

Document 595 : Approved unanimously, subject to a correction to the French text, and a correction to the diagram on page 4; the original of the diagram would be handed to the Secretary.

Document 598 : Approved unanimously.

Document 603 : Approved unanimously, with the deletion of the first reference in brackets under f) on page 1.

Document 613 : Approved unanimously, with the deletion of the sub-title "(For consideration ... Conference)".

Document 620 : Approved unanimously.

Document 621 : Approved unanimously. Figure 1, which would shortly be available in French and Spanish, to be reproduced again; the original would be handed to the Secretary.

Document 622 : Approved unanimously.

Document 623 : Approved unanimously.

Document 624 : Approved unanimously. Mr. Bray (United Kingdom), Chairman of Study Group IX, would hand the Secretary the original of the drawing reproduced on page 4, so that the curves could be drawn smoothly, and the references a, b, and c could be made to indicate more clearly to which curves they applied.

Document 625 : Approved unanimously.

Document 641 : Approved unanimously.

e) Texts originating from Study Group X

Document 639 : Approved unanimously.

Document 634 : Approved unanimously

Document 631 : Approved unanimously.

Document 632 : Approved unanimously, with the following changes: i) "affected" should read "effected " on page 2, para. 5, first line of quotation, and ii) delete asterisk after "Commission" in the same paragraph, and start a new paragraph with the words that follow, i.e. "As far ...".

Document 636 : Approved unanimously.

Document 630 : Approved unanimously.

Document 637 : Approved unanimously, with the addition of "Doc. 496" at the end of the last line of the penultimate paragraph.

Document 657 : The delegate of Denmark proposed the addition of the words "and that there is no appreciable attenuation at this frequency due to receiver selectivity" at the end of Note 2.

Mr. Gayer (I.F.R.B.) referred to the observations he had made on behalf of the I.F.R.B. at the meeting of Study Group X and pointed out that Question No. 149 was not answered. He appreciated the amendment proposed by the delegate of Denmark, which was helpful as regards the work of the Board. The I.F.R.B. was of the opinion that it might have been appropriate to have a full report with more details on the matter.

In reply to a question by the delegate of India, Mr. Prose-Walker (United States), Chairman of Study Group X, explained that the Recommendation was based on Documents Nos. X/1 (United Kingdom), X/19 (France) and X/20 (India).

The delegate of the U.S.S.R. considered the Danish amendment to be unnecessary, since few receivers provided such attenuation. In addition, there were practically no receivers with 5 kc/s filters. He proposed the deletion of Note 2.

The delegate of the United Kingdom could accept the Danish amendment.

The delegate of Sweden supported the Danish amendment.

In reply to a request from the delegate of the U.S.S.R., Mr. Prose-Walker (United States), Chairman of Study Group X, explained that when transmitter carriers were separated by 7 kc/s or less, the main nuisance value of the interference came from the heterodyne between carriers. It had therefore been necessary to assume that receivers had no 5 kc/s filter.

The delegate of Denmark explained that if a receiver provided an IF passband of, for instance, + 3 kc/s, there would be considerable attenuation at 5 kc/s. That was the reason for his amendment.

The delegate of the United States could accept the Danish amendment. The Recommendation would be meaningless if the Note were deleted.

The delegate of the F.P.R. of Yugoslavia could accept the proposed amendment, but felt that the Note was not absolutely necessary.

The delegate of France, in reply to a question by the delegate of Czechoslovakia, explained that the attenuation for an average receiver of the type referred to in Document No. X/19, at 5 kc/s, was between 3 and 6 db.

He then proposed the following compromise amendment :

Delete Note 2, and after "recommends" read : "that at least with receivers currently in use, the ratio of median ... (etc.)".

The delegate of Denmark could not accept the amendment by the delegate of France. It might apply to the average receiver, but there were receivers in use for which it was not true.

The delegate of Czechoslovakia could accept the French compromise proposal, in the light of the explanations given.

The delegate of the U.S.S.R. insisted that Note 2 be deleted. The proposed amendments were irrational and, if they were accepted, he would have to file a reservation.

Mr. Hayes, Vice-Director of the C.C.I.R., suggested a new wording for note 2: "It is assumed that normal unmodified HF broadcasting receivers are used (e.g. no 5 kc/s filter is used)".

The delegate of Austria supported the amendment.

The delegate of the United States proposed a rewording of the French delegate's amendment "that at least with the majority of receivers currently in use ... (etc.)".

The delegate of France agreed to the change.

The delegate of the United Kingdom could accept the text in its original form, the amendment proposed by Mr. Hayes, or the amendment proposed by the delegate of France modified by the delegate of the United States.

The delegate of Denmark was prepared to accept the French amendment, as modified by the delegate of the United States.

Document 657 was approved unanimously, with the deletion of Note 2 and the inclusion of "that at least with the majority of receivers currently in use, the ratio (etc.)" at the beginning of the text under "Recommends".

During the discussion, the delegate of India said that the Recommendation was too vague. It would have been preferable to have a full, detailed report on the matter. For instance, what was the reason for the figure 50 c/s in the last line?

Mr. Prose-Walker (United States), Chairman of Study Group X, explained that information provided at the Mexico City HF Broadcasting Conference (1948-9) had shown that a carrier separation of 100 c/s produced the maximum audio nuisance value. The Study Group had agreed to alter that figure to 50 c/s to ensure closer synchronisation.

The delegate of India was still not quite satisfied, as experience in India had shown that the maximum nuisance was produced by tones between 500 and 1000 c/s. However, since the Question in Document 638 called for further study of the matter, he would not insist.

Document 638 : Approved unanimously.

Document 635 : Approved unanimously.

Document 656 : Approved unanimously.

Document 633 : Approved unanimously, with a minor correction to the French text.

Document 654 : Approved unanimously, with "(See Note)" in the middle of paragraph a) placed after "compatible".

Document 655 : Approved unanimously.

Document 653 : Approved unanimously.

f) Texts originating from Study Group XIII

Document 560 : Approved unanimously.

Document 581 : Approved, with the deletion of the word "two" in the English text, page 4, penultimate line of paragraph 1.3.5.

The delegate of Poland stated that his delegation would like to study the technical and economical consequences of certain points of Document 581, and therefore reserved its opinion.

The delegate of the U.S.S.R. said that he had made lengthy comments on this document when it had come up for discussion in the Study Group. He would not repeat those comments, but requested that the Minutes of the meeting show that the U.S.S.R. delegation reserved its position as regards Document 581.

Document 645 : Approved, with the addition of "161 and " in the sub-title, after "Questions Nos. 107 ...".

The delegate of France asked for his reservation to be recorded in the Minutes. His delegation could not agree with certain figures for spurious radiation, such as 25 μ W, given in para. 1.7.3.1.

The delegate of Poland filed a similar reservation to those he had made on other documents dealing with spurious radiation.

The delegate of Belgium wished to record the reservation of his delegation on Document 645 for the same reason as that of the French delegate.

The delegate of the Roumanian P.R. also made a reservation on Document 645 as regards the figures for spurious radiation.

The delegate of the F.P.R. of Yugoslavia also made a reservation on Document 645.

Document 659 : Approved unanimously.

g) Texts originating from the Technical Assistance Committee

Document 628 : Approved unanimously, subject to the adjustment of the French text to correspond to the English text in paras. a) and 1 on page 1.

Document 627 : Approved unanimously, with the following change to the English text : The first line under "Resolves" to read : "that the I.T.U. organs might take into account, among other things, the ...".

The meeting rose at 8.10 p.m.

Rapporteur :

Secretary :

Chairman :

V. Bouladon

R.V. Lindsey

A. Lebel

M I N U T E S
OF THE
EIGHTH PLENARY MEETING

Monday, 27 April 1959 at 9.00 a.m.

Chairman : Dr. A. Lebel

Subjects discussed :

Texts submitted by the Drafting Committee :

- a) originating from Study Group I : Docs. Nos. 646, 651 and 652
- b) originating from Study Group II : Docs. Nos. 408 and 669
- c) originating from Study Group VII : Doc. No. 576
- d) originating from Study Group VIII: Docs. Nos. 647, 670, 671, 672, 673
674 and 675
- e) originating from Study Group IX : Docs. Nos. 373, 619, 642, 644 and
693
- f) originating from Study Group X : Docs. Nos. 640, 658, 680, 694, 695,
696, 697 and 698
- g) originating from Study Group XI : Doc. 626
- h) originating from Study Group XII : Docs. Nos. 676 and 677
- i) originating from Study Group XIII: Doc. No. 678
- j) originating from the C.M.T.T. : Doc. No. 287 (Monte Carlo Doc. No.
31)

Present :

Administrations of Members of the Union :

Australia, Austria, Belgium, Bielorussian S.S.R., P.R. of Bulgaria (represented by Czechoslovakia), Canada, China, Denmark, Spain, United States of America, France, Guatemala, Republic of India, Ireland, Italy, Japan, Norway, New Zealand, Pakistan, Netherlands, P.R. of Poland, Federal Republic of Germany, F.P.R. of Yugoslavia, Ukrainian S.S.R., Roumanian P.R., United Kingdom of Great Britain and Northern Ireland, Sweden, Switzerland, Czechoslovakia, Group of the different territories represented by the French Overseas Postal and Telecommunication Agency, Turkey, Union of South Africa, Union of Soviet Socialist Republics, Venezuela.

Recognized private operating agencies :

Am. T. & T. Co., B.B.C., Cable & Wireless Ltd., N.T.T., Radio Austria, RAI, S.A.B.C.

International organisations :

C.I.R.M., I.C.S., I.B.T.O., U.R.S.I.

Permanent organs of the I.T.U.

I.F.R.B., C.C.I.T.T.

Announcement from the Chair : Decease of Sir Stanley Angwin

The Chairman regretted to have to inform the Assembly of the decease of Sir Stanley Angwin, of the United Kingdom, on 21 April. He had known him personally for many years, as had so many other delegates present. All those who had followed his work would agree that he was an international personality who could claim a brilliant and outstanding record of service in the world of telecommunication and in other fields.

The Assembly stood to observe one minute's silence in memory of Sir Stanley Angwin.

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Texts submitted by the Drafting Committee

a) Originating from Study Group I

Document 646 : Approved unanimously, with the following amendment: in the second footnote on page 2, for "... the recommendations of this paragraph ..." read " ... the coding system indicated in this paragraph ..."

Document 651 : Approved with minor corrections, and a reservation by the French delegation, for the same reasons as those concerning the other documents dealing with spurious radiation.

Document 652 : Approved unanimously, with the following amendments: under g) of the considerations, insert the full title of the List of Definitions; in para. 1 under "recommends", the French text to be brought into line with the English text.

b) Texts originating from Study Group II

Document 408 : Mr. Henry (France), Chairman of the Drafting Committee, said that the Note referring to Column 8 on page 6 should be reworded as follows : "the relative frequency variation is the largest of the variations obtained when the power supply voltage varies". (the rest remains unchanged).

Subject to the above amendment and a minor correction to the English text, Document 408 was approved unanimously.

Document 669 : Approved unanimously.

c) Texts originating from Study Group VII

Document 576 : Approved unanimously.

d) Texts originating from Study Group VIII

Document 647 : Approved unanimously, subject to minor corrections to be handed in by Mr. Turner, Chairman of Study Group VIII, direct to the Secretariat.

Document 670 : Approved unanimously.

Document 671 : Approved unanimously.

Document 672 : Approved unanimously.

Document 673 : Approved unanimously.

Document 674 : Approved unanimously.

Document 675 : Approved unanimously.

e) Texts originating from Study Group IX

Document 373 : Approved unanimously.

Document 619 : Mr. Henry (France), Chairman of the Drafting Committee, said that the text should be amended since the document as it stood might be misinterpreted. Point 2 in the French text should be brought into line with the English text, while Fig. 1 in the English text should be made to correspond to that in the French text. Finally, as regards the element tolerances, the French and the Spanish texts should be modelled on the English text.

Subject to the above amendments which would be incorporated in the document by Mr. Bray (United Kingdom), Chairman of Study Group IX, and the Chairman of the Drafting Committee, Document 619 was approved unani- mously.

Document 642 : Approved unanimously.

Document 644 : Approved unanimously, subject to the reference to Document No. 9 (replaced by Docs. Nos. 320 and 321) being deleted from operative para. 2.

Document 693 : Approved unanimously.

f) Texts originating from Study Group X

Document 640 : Approved unanimously

Document 658 : Mr. Prose Walker (United States), Chairman of Study Group X, said that the sign before the median field values in operative para. 4 should be deleted.

The delegate of the United States made reservations on this document as a whole, since his Administration applied different standards.

The delegate of Canada made the same reservations, since his Administration was in the same position as the United States Administration.

Subject to these reservations and to the aforesaid amendment, Document 658 was approved.

Document 680 : Mr. Henry (France), Chairman of the Drafting Committee, proposed the following amendment to para. e) : "that it is desirable to achieve standardisation internationally of transmission parameters so as to make possible the standardisation of some parts of receivers for stereophonic broadcasting;"

Document 680 as amended was approved unanimously.

Document 694 : Mr. Prose Walker (United States), Study Group Chairman, thought it necessary to point out that all the documents assigned to his Study Group had been carefully studied by the Sub-Groups, and the documents which were now to be submitted to the Assembly had been carefully studied by Sub-Group X D under Mr. Sastry; contrary to the normal procedure, however, the Study Group had not had time to study documentation fully.

Document 694 was approved unanimously.

Document 695 : approved unanimously.

Document 696 : approved unanimously.

Document 697 : Mr. Henry (France), Chairman of the Drafting Committee, said that "en ondes décimétriques" should be inserted in the French text, paragraph 2, immediately before the interrogation mark.

Document 697 as amended was approved unanimously.

Document 698 : Mr. Henry (France), Chairman of the Drafting Committee, proposed that to bring the title into line with the text under "considering", it should be amended to: "Measurement of audio noise for broadcasting and in sound recording systems."

Document 698 as amended was approved unanimously.

g) Text originating from Study Group No. XI

Document 626 : Mr. Esping (Sweden), Study Group Chairman, said that in paragraph b) "(phase errors)" should be amended to "(in-phase errors)" in the English text.

Document 626 as amended was approved unanimously.

h) Texts originating from Study Group XII

Document 676 : In reply to a question by Mr. Allen (United States), the Secretariat said that the curves 1, 2 and 3 mentioned in the last paragraph would be included in Volume I of the Los Angeles documents.

Document 676 was approved unanimously.

Document 677 : Mr. Henry (France), Chairman of the Drafting Committee, said that Document 677 was the outcome of the Drafting Committee's study of Document No. 510 (not 509).

Subject to corrections of typing errors, Document 677 was approved unanimously.

i) Text originating from Study Group XIII

Document 678 : Approved unanimously.

j) Text proposed by the Drafting Committee after consideration of C.M.T.T. Document No. 31 of Monte Carlo

Mr. Henry (France), Chairman of the Drafting Committee, explained to the Plenary Assembly how the Drafting Committee had studied Document No. 31 of Monte Carlo. That document, prepared by the joint C.C.I.R./C.C.I.T.T. Committee, contained certain information on long-distance monochrome television transmission, but at the time of its submission in October 1958 the information subsequently provided for the Assembly by Document No. 228 (Japan) and from other sources was not available. Also, the head of the Belgian delegation, who was a member of the Drafting Committee, had been able to provide further information which had served as a basis for an up-to-date document, Document No. 287.

The delegates of the United States, United Kingdom and Spain were also members of the Drafting Committee, where no objection had ever been raised against expanding the document in the event that the document were to be expanded and not amended.

The delegate of the United States said that, while fully appreciating the reasons for submitting Document No. 287, he regretted he could not approve the procedure.

He proposed that approval should be given to Document No. 31 of Monte Carlo as attached to Document No. 96 of Los Angeles.

Dr. Metzler, Director of the C.C.I.R., said that he would have liked Mr. Angel, Chairman of the C.M.T.T., to have been present. A question of principle was undoubtedly involved. Document No. 31 was the result of a joint study by the C.C.I.R. and C.C.I.T.T. and could be approved or rejected, but hardly amended by the Plenary Assembly. Since, as Mr. Henry had explained, it was proposed merely to expand the document, the best procedure seemed to be to avoid any ambiguity by submitting any further information as such in the form of an addendum to the original document.

The delegate of the United Kingdom said that since Document 31 had been adopted by the C.M.T.T., not the slightest change could be made to it. For the rest, any addition would first have to be proposed to the C.M.T.T., for the additions took the form of fresh and as yet unapproved information. The United Kingdom could approve only Document 31 and no other.

The delegate of Japan fully agreed with the delegates of the United States and United Kingdom.

The delegate of Belgium said that the amendments proposed by his Administration concerned only domestic information which had subsequently proved to be out-of-date. He had no objection to the further information being submitted in the form of an addendum.

The Chairman proposed that the Assembly should either remove the added data from Document No. 287 and publish them as an addendum, or refer them to the C.M.T.T. for study under its normal procedure.

The delegate of the United States was surprised that Study Groups IX and XI were unaware of the further information; any new item of information had to be submitted to the C.M.T.T., which should then prepare a further Report.

The Chairman proposed that all the new data should be removed from Document 287 and the Administrations be left to submit them to the C.M.T.T.

Mr. Bray (United Kingdom), Chairman of Study Group IX, said that it might be advisable to point out to the C.M.T.T. that Study Group IX had adopted the value of X-8 db for the signal-to-weighted-noise ratio during more than 0.1 % of any month.

It was so decided.

C.M.T.T. Document No. 31 of Monte Carlo was approved unanimously. Any further data obtained would be submitted to the C.M.T.T.

The meeting rose at 10.25 a.m.

Rapporteur :
M. Cahn-Bunel

Secretary :
R.V. Lindsey

Chairman :
A. Lebel

MINUTES

OF THE

NINTH PLENARY MEETING

Tuesday, 28 April 1959, at 9.30 a.m.

Chairman : Dr. A. Lebel

Subjects discussed :

1. Minutes of the third, fourth and fifth Plenary meetings
(Docs. 689, 690 and 691).
2. Texts submitted by the Drafting Committee :
 - a) Originating from Study Group II : Doc. No. 721
 - b) Originating from Study Group IV : Doc. No. 445
 - c) Originating from Study Group V : Doc. No. 388
 - d) Originating from Study Group VI : Docs. Nos. 437(rev.), 662, 684
685, 705 and 707
 - e) Originating from Study Group IX : Doc. No. 643
 - f) Originating from Study Group X : Docs. Nos. 699 and 702
 - g) Originating from Study Group XI : Doc. No. 722
 - h) Originating from Study Group XIV : Docs. Nos. 615 and 616.

Present :

Administrations of Members of the Union :

Australia, Austria, Belgium, Bielorussian S.S.R., P.R. of Bulgaria (represented by Czechoslovakia), Canada, China, Denmark, Spain, United States of America, France, Republic of India, Ireland, Italy, Japan, Monaco, Norway, New Zealand, Pakistan, Netherlands, P.R. of Poland, Federal Republic of Germany, F.P.R. of Yugoslavia, Ukrainian S.S.R., Roumanian P.R., United Kingdom of Great Britain and Northern Ireland, Sweden, Switzerland, Czechoslovakia, Group of the different territories represented by the French Overseas Postal and Telecommunications Agency, Turkey, Union of South Africa, Union of Soviet Socialist Republics, Venezuela.

Recognized private operating agencies :

Am. T. & T. Co., B.B.C., K.D.D., S.A.B.C.

International organizations :

C.I.R.M., I.C.S., I.B.T.O., E.B.U., U.R.S.I.

Permanent organs of the I.T.U. :

I.F.R.B., C.C.I.T.T.

1. Minutes of the third, fourth and fifth Plenary Meetings :

Doc. 689 (Minutes of the Third Meeting) :

The Chairman wished the Minutes (of the First Meeting (Doc. 223)), to be amended to include the announcement of the election of Mr. Hamada (Japan), Mr. Sainio (Finland), Mr. Malone (Ireland) and Mr. Morales (Venezuela) as Vice-Chairmen of the Plenary Assembly.

Dr. Bailey (United States), Chairman of Study Group VI, thought that the wording of his remark on page 5 of Doc. 689, referring to the literature on pages 10 and 11 of Doc. 290, might be misleading, and would prefer the expression : "was not accessible to everybody" to be amended to : "was no longer available".

The delegate of the U.S.S.R. pointed out that the Soviet Union should be added as having taken part in the Working Group set up to examine Document 437.

With these amendments and some minor editorial corrections, Doc. 689 was approved unanimously.

Doc. 690 (Minutes of the Fourth Meeting) :

Mr. Allen (United States) with the support of Capt. Booth (United Kingdom) and Mr. Nielsen (Denmark) proposed that the word "use" in the first line of page 7 be changed to "provision".

The Soviet delegate stated that, after further examination of Doc. 519, his delegation maintained its reservation, as mentioned at the bottom of page 3 of Doc. 690.

Subject to this statement and with minor editorial amendments Doc. 690 was approved unanimously.

Doc. 691 (Minutes of the Fifth Meeting) : Approved unanimously as written.

2. Texts submitted by the Drafting Committee :

a) Originating from Study Group II

Document 721 : approved unanimously, with the deletion of the last paragraph in the French text, to bring it into line with the English.

b) Originating from Study Group IV

Document 445 : approved unanimously, with the addition in the bibliography of three works by M. Argirović, as given in C.C.I.R. Recommendation No. 169, as these references were still a useful contribution to the literature.

c) Originating from Study Group V

Document 388 : approved unanimously.

d) Originating from Study Group VI

Document 437 (rev.) :

Dr. Dellinger (U.R.S.I.), as Chairman of the Working Group, set up to revise the document, explained that there was now a new corrigendum sheet which, in conjunction with the revised document, represented a unification of the many divergent views expressed.

With an amendment to the Spanish text only (the note showing suggested frequencies had been omitted), this document, together with the corrigendum, was approved unanimously.

Document 662 : Upon a remark by Mr. Henry (France), Dr. Bailey (United States), Chairman of Study Group VI, proposed amending para. 21 on page 7 to read : "..... the crossover point for the curves representing these noise sources". He added that in paras. 7 and 15, the word "formula" should be changed to : "relation".

Following a proposal by the delegate of Czechoslovakia, it was agreed that the words : "in the pertinent direction" be added after both the transmitting and the receiving antenna gain at the base of page 2.

There ensued a discussion between the delegate of Czechoslovakia and the Chairman of the Study Group, concerning the directivity of antennas, and it was decided that they would come to an agreement on the subject outside the Plenary Assembly.

Subject to the above amendments, Doc. 662 was approved unanimously.

Document 684 : Approved unanimously.

Document 685 : Approved unanimously.

Document 705 : Approved unanimously, with the amendment of a typographical error in the English text ("Doc. VI/69" in the penultimate line, instead of "VI/9").

Document 707 : Approved unanimously, subject to a drafting change in the heading (reference to Doc. 339) and three amendments to the English text only (1947 instead of 1957 on page 5 point 5.4; (foE)⁴ in 5.5 and $R_3 = 170$ instead of $R_3 + 170$ in point 5.6 on page 6.)

e) Texts originating from Study Group IX

Document 643 : Mr. Bray (United Kingdom), Chairman of Study Group IX, suggested that, in keeping with previous texts on the subject, the words "for Telephony and Television" in the heading should be interchanged.

Mr. Nicotera (Italy) stated : "We have a reservation to make on this document. We consider that, for radio relay systems operating in the 2000 and 4000 Mc/s bands, it would be desirable to have one single channel arrangement for the whole world.

Since Study Group IX has thought it advisable to recommend an arrangement different from that used in the United States, but allowing for the possibility of using the latter arrangement, as shown in Fig. 3, we believe that this possibility should have been extended to the whole world and not restricted to Regions 2 and 3, as stated in the Note attached to the Recommendation.

We accordingly reserve our position as regards this Recommendation.

I would ask for my statement to be inserted in the Minutes and for my reservation to be added to the Recommendation as a footnote, in the same way as for Recommendation No. 194."

With this reservation, and the above amendment, Document 643 was approved.

f) Texts originating from Study Group X

Document 699 : Approved unanimously.

Document 702 :

Mr. Prose-Walker (United States), Chairman of Study Group X, said that this document, together with Doc. 637, which had already been approved, formed a replacement of Recommendation No. 211.

Doc. 702 was approved unanimously, with an amendment to the French text .

g) Texts originating from Study Group XI

Document 722 : Approved unanimously.

h) Texts originating from Study Group XIV

Document 615 : Mr. Henry (France), Chairman of the Drafting Committee, drew attention to an error in the heading of the French text, in which Doc. 565 should refer to Doc. 398. He also wished to amend the third line of considering a) to read : "(Radio Regulations, Article 2, para. 10)".

Mr. Allen (United States) stated that the U.S. delegation had participated in the work of Study Group XIV and had attempted to obtain agreement there for the inclusion of some of the ideas and principles that his delegation felt should be incorporated into the document. He could not agree with the recommendation that the term : "Hertz" should replace the term : "cycles per second". No recommendation should try to force any nation to accept one term and to reject another well-known term in common usage. The United States had adopted Recommendation No. 225 with some trepidation in London, and its fears now appeared to be grounded. He would propose some modifications to the text to make it acceptable for long-term use.

Mr. Bouchier (Belgium) supported Mr. Allen's views. He deplored the use of the term "Hertz", and thought the existing terminology was more clear and concise. He did not consider it as a justification that the **C.C.I.T.T.** used this terminology. He therefore wished to make a reservation on the document in its present edition.

Mr. Villeneuve (France), Chairman of Study Group XIV, regretted that agreement could not now be found after the long work in the Study Group and Working Parties. He had proposals to make for a compromise solution.

The delegates of New Zealand and Japan supported the remarks of the United States delegate.

Mr. Joachim (Czechoslovakia) felt this was a good occasion for an international assembly to express homage to the great German physicist Heinrich Hertz. In view of the fact that the Working Party and the Drafting Committee had approved this document, and that there were only a few opposing views within the Study Group, he was in favour of its adoption in its present form.

The delegate of Poland supported Mr. Joachim's views, as the term "Hertz" was formally adopted for use in his country.

The delegate of Venezuela recognized the great merits of the scientist Hertz, but wished to support the views of the United States and Belgium.

The delegate of China had previously expressed his disagreement with the new terminology, and wished to support the United States proposal.

The delegates of Canada and the United Kingdom supported the U.S. proposal. Capt. Booth (U.K.) added that he, personally, had always advocated the idea of band numbers. He thought it would be wise to take a long-term view on the question of terminology.

The delegate of the U.S.S.R. favoured the adoption of the document as it stood.

The Chairman, summing up the situation, in view of the many arguments put forward, said that there were five possible solutions :

1. to adopt the document and to record the reservations, which would not be of much value, as there were so many;
2. to send it back to the Study Group for further revision, which was hardly possible at this late hour;
3. to alter it paragraph by paragraph in plenary session, which was too cumbersome;
4. to postpone consideration of the Recommendation until a later Plenary Assembly;
5. or to consider the possibility of adopting the compromise proposal submitted by Mr. Allen and supported by several delegations.

The Chair was in favour of the last possibility, not because Mr. Allen was a member of the United States delegation, but because it was the accepted procedure to examine proposals from the floor.

Mr. Lalou (C.C.I.T.T.) explained that it was the practice in the C.C.I.T.T. to use the term "Hertz" for frequency designation in French texts, and the term "cycles" in English texts. He proposed that this practice be followed in the C.C.I.R.

Upon a suggestion by the delegate of Italy, the meeting was adjourned for approximately 20 minutes, to reach a compromise solution.

When the proceedings were resumed, Mr. Allen went through the amendments proposed point by point, and each point was separately approved, as follows :

delete considering b) and re-letter the subsequent paragraphs accordingly;

in new considering b) read : "... Hertz (symbol Hz) as a name for the unit of frequency ...", instead of "the unit".

Recommends 1 to read : "that the Hertz (Hz) be accepted for use alternatively with cycles per second (c/s) as the name for the unit of frequency";

Recommends 2 to read : "that it is proper to characterize bands by means of progressive whole numbers in accordance with the following table, intended to be substituted, at a later conference of the I.T.U., for Article 2, para. 10 of the Radio Regulations of Atlantic City."

The table to stand, with the wording "kHz or kc/s" in the French text all the way down the column and : "kc/s or kHz" in the English text, thus showing the preferred form for designation in each language.

Note 1 to read : "Band N extends from 0.3×10^N Hz (c/s) to 3×10^N Hz (c/s) with a similar inversion according to language.

Likewise, in Note 2, either MHz or Mc/s should have priority, according to the language of the text, with the choice placed in paranthesis.

Delete the three asterisks at foot of page, and add a Note 3, viz:

"Note 3 :

Abbreviations :

k = kilo (10^3)
M = Mega (10^6)
G = Giga (10^9)
T = Tera (10^{12}).

The addition, in the English text only, of a Note 4, which would give, for each band, the number of corresponding approved adjective designations, making the required information available to anyone having cause to use adjective designation.

With the above amendments, Document 615 was approved unanimously.

Document 616 : Approved unanimously, with a correction in the heading of the French text, and with the deletion of the quotation marks from the expression : "active collaborators" on page 2.

In view of the time taken up by the discussion of Doc. 615, the Chairman proposed that the rest of the documents listed on the agenda given in Doc. ADM./83 be postponed for consideration at the afternoon meeting of the Plenary Assembly at 2.30 p.m., at which time the documents listed in Doc. ADM./84 should also be brought to the meeting.

The meeting rose at 12.15 p.m.

Rapporteur :

Secretary :

Chairman :

R. Umberg-Hauben

R.V. Lindsey

A. Lebel

M I N U T E S

OF THE

TENTH PLENARY MEETING

Tuesday, 28 April 1959 at 2.30 p.m.

Chairman : Dr. A. Lebel

Subjects discussed :

1. Communications by the Director
2. Consideration of the Report of the Organization Committee (Doc. 679)
 - a) Pages 1 and 2
 - b) Annex I
 - c) Annex II
 - d) Annex III
 - e) Annex IV
3. Consideration of texts submitted by the Drafting Committee :
Docs. 703, 704, 725 and 414.
4. Consideration of the Report by the Director of the C.C.I.R. :
(Doc. 15, Addendum 1 and Addendum 2):
 - a) Extension of the office of the Vice-Director
 - b) Staff
 - c) Report by the C.C.I.R. Representative on the Special Committee
of the I.G.Y. (C.S.A.G.I.)
 - d) Representation of the C.C.I.R. by its Director, Vice-Director,
or Counsellor at meetings outside Geneva.

Present :

Administrations of Members of the Union :

Australia, Austria, Belgium, Bielorussian S.S.R., P.R. of Bulgaria (represented by Czechoslovakia), Canada, China, Denmark, Spain, United States of America, France, Guatemala, Republic of India, Ireland, Italy, Japan, Monaco, Norway, New Zealand, Pakistan, Netherlands, P.R. of Poland, Federal Republic of Germany, F.P.R. of Yugoslavia, Ukrainian S.S.R., Roumanian P.R., United Kingdom of Great Britain and Northern Ireland, Sweden, Switzerland, Czechoslovakia, Group of the different Territories represented by the French Overseas Postal and Telecommunication Agency, Turkey, Union of South Africa, Union of Soviet Socialist Republics, Venezuela.

Recognized private operating agencies :

Am. T. & T., B.B.C., K.D.D., S.A.B.C.

International organizations

I.B.T.O., U.R.S.I.

Permanent organs of the I.T.U. :

I.F.R.B., C.C.I.T.T.

1. Communications by the Director

Dr. Metzler, Director of the C.C.I.R., recalled that it had been decided at the first plenary meeting on 2 April 1959 that letters should be sent to certain Study Group Chairmen who could not be present at the IXth Plenary Assembly. Two communications had been received in reply :

i) Telegram from Mr. Campbell, Chairman of Study Group VIII

"Deeply appreciate good wishes IXth Plenary Assembly C.C.I.R. and Study Group VIII. Glad to report daughter making steady progress to recovery. Best wishes for successful conclusion to IXth Assembly and continued success C.C.I.R."

ii) Letter from Mr. Stanesby, Chairman of Study Group IX

"It was with pleasure that I received your letter of 7th April containing the message from the IXth Plenary Assembly, which I greatly appreciate. I am sorry not to be with you during the present Plenary Assembly and I hope you will convey my kind regards to my many friends there, including yourself."

2. Report of the Organization Committee (Doc. 679)

a) Pages 1 and 2

Mr. Clarkson (New Zealand), Chairman of the Organization Committee, introduced the Report.

The conclusions of the Organization Committee appeared : 1) in the form of two Resolutions, contained in Docs. 703 and 704; 2) in the form of Annexes to the Report, submitted to the Plenary Meeting for approval. They concerned internal matters and seemed to have lesser status than that of a Resolution. If they were approved by the Plenary Meeting, they would revert to the authority of the Director, who would exercise his discrimination in carrying out the actual work implied.

One or two opinions regarding organizational matters in general had been expressed by the Chairman in the Report. For example, the last

paragraph on page 2 referred to the possibility of improving the capacity of the Plenary Assembly for handling organizational matters in the future. The presentation of an opinion by the Chairman did not necessarily imply that it had been decided upon by the Committee and he realized that the procedure was a little irregular.

In answer to a query from Dr. Metzler, Director of the C.C.I.R., it was unanimously decided that the concept of coordinating committees, as described on page 12 of the Warsaw documents, should be retained.

Document 679 was approved unanimously, subject to the following correction : page 1, paragraph 5 : the abbreviation should be "C.M.T.T.".

Thanks were expressed to the Chairman of the Organization Committee.

b) Annex I to Document 679

Approved unanimously, with the addition of a new paragraph 4, referring to Study Group XI and its terms of reference : television techniques.

c) Annex II to Document 679

Approved unanimously, with the following changes :

1. Volume III to be classified by Study Groups in the same way as Volume I.
2. Replacing "of" by "and" in the first line of para. 6 under Volume I.
3. Replacing "of" by "and" in the first line of para. 6 under Volume III on page 5.
4. The addition "and space systems" after "4) mobile services" on page 4.
5. The deletion of the text between brackets in the first paragraph on page 5; and the following explanations :
 - i) On page 3, under Volume I, para. 1 : "Table of contents of all volumes" was intended to indicate in which Volume various types of documents were to be found, as on page 7 of Volume I of the Warsaw documents.
 - ii) If the Secretariat should have doubt as to the listing of any Recommendation that concerned more than one subject, they should include it under the subject to which it mainly referred, adding a cross-reference in brackets to the other subjects concerned.

d) Annex III

Approved unanimously, with the insertion of a reference to Administrative Council Resolution No. 292, stating that the Plenary Assemblies of the C.C.I.s should organize representation at the meeting of the Committee for the General Plan for Development of the International Network.

The Director referred to Document 94, which said that any members of the C.C.I.R. who wished to take part in the Tokyo meeting of the Plan Committee should do so as representatives of their respective Administrations.

The delegates of New Zealand and the United Kingdom did not consider that it was necessary to have an official C.C.I.R. delegation. There were no financial resources for such participation. It would be hard to define the duties of such representatives, who were in any case representing their Administration, the expenditure involved being paid by the latter. The Director of the C.C.I.R. would be present and naturally all representatives going there after the C.C.I.R. Assembly would take into account the work of the C.C.I.R. and give the Director their full support.

Annex III was approved unanimously, with the addition of a sentence to the effect that the same form of representation of the C.C.I.R. would be applied to the next meeting of the Plan Committee in 1962.

With the approval of Annex III, Doc. 294, which had been pending, was automatically withdrawn from the consideration of the Plenary Assembly.

e) Annex IV

Approved unanimously with :

1. Adjustment of the title to indicate that the Special Committees listed were those set up by the IXth Plenary Assembly, and were given for guidance only.
2. "Organisation" instead of "Organising" in the penultimate line.
3. The addition of "Coordinating Committee".
4. The replacement of the Note by a statement that experience at the IXth Plenary Assembly had shown the wisdom of setting up such Committees immediately, and in particular the Organization Committee; subsequent Plenary Assemblies were urged to do so at the earliest possible date. The Director would invite Administrations to prepare any proposals on administrative matters well in advance. It should be recorded in the Minutes, and also in the Director's report for the next Plenary Assembly that it was only in this way that an effective organization plan could be worked out without delay. The delegates of the United Kingdom and New Zealand emphasized that one of the weaknesses in organization which had caused difficulty on important matters was that they had been inadequately studied and insufficiently prepared, and owing to lack of time it would not be possible to deal with them. There was not sufficient provision for the work to be done between Plenary Assemblies and the situation at the IXth Plenary Assembly should not be allowed to recur.

The delegate of Sweden referred to discussions in the C.M.T.T. and the possible transfer of some items on the programme of Study Group XI to the former. He requested the approval of that procedure by the Plenary Assembly, although the exact list of items would not be available until later. The above course of action was unanimously approved.

3. Texts submitted by the Drafting Committee

Document 703 : Approved unanimously, with the following changes :

1. Page 1, paragraph 1. Replace the last five words by : "to improve the efficiency of the work by correspondence;"
2. Page 2, paragraph 4. Replace the last seven words by: "has consulted his Members and his Administrations and obtained the agreement of the majority of the Members of his Study Group;"
3. The insertion of a new paragraph 4 a): "that the work to be carried out during the interim meetings shall be confined to the work which it has not been possible to deal with by correspondence."
4. Checking that the terms "interim report" and "final report" are correctly used in each case.

Document 704 : Approved unanimously.

The Chairman conveyed the thanks of the Assembly to Mr. Clarkson, Chairman of the Organisation Committee, for the fine work he had done, so efficiently, in such a limited time. (Applause)

Mr. Clarkson (New Zealand) said that the thanks were really due to the members of his Committee.

Documents 725 and 414 : Approved unanimously.

4. Report by the Director of the C.C.I.R. (Doc. 15, with Addenda 1 and 2)

The Director introduced the Report and referred to its salient points. In particular, the meeting of Study Group XI in Moscow had proved very fruitful and had confirmed the technical advantages of holding Study Group meetings outside Geneva.

The main points of the report were discussed as follows :

a) Extension of office of the Vice-Director (page 14, paragraph 3 b)

The Director said that he had always appreciated very highly the cooperation and services rendered by Mr. Hayes, and that he would see his period of office extended with much pleasure, as was possible under the Staff Regulations.

The delegate of Sweden proposed the following Resolution :

"The C.C.I.R.,

CONSIDERING that

- a) the Vice-Director of the C.C.I.R. will reach the normal retiring age on 31 December 1961;
- b) the next Plenary Assembly of the C.C.I.R. will normally not take place until nine months after the date of the Vice-Director's retirement;
- c) the Vice-Director of the C.C.I.R. is appointed by the Plenary Assembly of the C.C.I.R.;
- d) it would not be desirable to prejudice the decision of the forthcoming Plenipotentiary Conference on the future organization of the Union;

RESOLVES

- 1. not to take any decision about the extension of the services of the Vice-Director beyond the date of his normal retirement;
- 2. to request the Plenipotentiary Conference, provided it does not take decisions which would make it contrary to the Convention and General Regulations, to authorize the Administrative Council to :
 - i) grant extension of service to the Vice-Director up to the closing date of the Xth Plenary Assembly of the C.C.I.R.;
 - ii) take the necessary preliminary steps for an election to the post of Vice-Director to be held during the Xth Plenary Assembly."

The above Resolution was approved unanimously.

b) Staff (page 14, para 3 c)

The Director summed up the situation and referred to the proposals contained in Annex III, pages 24 and 25. The financial implications would be covered in a report which would be submitted to the Administrative Council.

The delegate of the U.S.S.R. said that it had been the opinion of the Organization Committee that the staff establishment of the permanent organs of the Union was the prerogative of the Administrative Council. However, that did not prevent the Plenary Assembly from expressing an opinion. It had been shown very clearly in the Organization Committee that the volume of work to be performed by the C.C.I.R. Secretariat was increasing and he therefore believed it would be quite appropriate for the Assembly to confirm the necessity of increasing the staff, and invited the Director to draw the attention of the Administrative Council to that necessity.

The delegate of Italy agreed entirely. There was no doubt that the Administrative Council alone could decide upon the staff establishment as they alone were responsible for the budget. He would agree to asking the Administrative Council to take into consideration the fact that the volume of work had increased and therefore the staff should be increased, without going into detail.

The delegate of New Zealand supported the above views. He felt that it was not only appropriate for the Plenary Assembly to draw the attention of the Administrative Council to the situation, but also their duty.

The delegate of the United States agreed. They could not take any decisions as to detail, having insufficient information at their disposal. However, the estimates given in the Director's Report might have to be changed as a result of decisions in the Plenary Assembly regarding procedures.

The delegate of the United Kingdom and the delegate of India supported the previous statements, and emphasized the point raised by the delegate of the United States, that the new organization, and more efficient methods that were being put into practice, might change staff requirements. The Plenary Meeting was not competent to deal with detailed proposals such as those contained on pages 24 and 25. However, the attention of the Administrative Council should be drawn to the fact that adequate staff was required to deal with the growing volume of work.

It was unanimously decided that the Minutes of the meeting would be brought to the attention of the forthcoming session of the Administrative Council.

c) Report by the C.C.I.R. representative on the Special Committee of the I.G.Y. (C.S.A.G.I.)

The Director referred to the report prepared by his predecessor, Prof. Dr. Balth. van der Pol, and attached to the Report as Annex I. He proposed that a letter be sent to Dr. van der Pol, acknowledging receipt of the report and expressing the thanks of the Assembly and their very high respect.

This course of action was approved, the letter also to contain greetings from the IXth Plenary Assembly and the expression of their goodwill.

d) Representation of the C.C.I.R. by its Director, Vice-Director, or Counsellor at Meetings outside Geneva (paragraph 2d) of Doc. 15)

The delegate of Italy thought that great benefit would be derived by all from the inclusion in the Journal of accounts of such missions, not only by the Director and Vice-Director, but also by any other officials of the C.C.I.R.

The Director agreed that such accounts might be interesting but felt that in connection with the missions listed in Doc. 15, they had lost their interest in view of the lapse of time.

The delegate of Italy did not insist on his proposal.

However, the Director's suggestion that such accounts should in future be published in the Journal, where practicable, was approved.

The delegate of the U.S.S.R. felt that the activities of the C.C.I.R. since the last Plenary Assembly had been fruitful, thanks to the work carried out by the Director of the C.C.I.R. and the Secretariat. Their efforts had also contributed to the successful outcome of the IXth Plenary Assembly. The report submitted by the Director showed very clearly the work covered during that period, and the delegation of the U.S.S.R. therefore proposed that Doc. 15 be accepted, with an expression of thanks to the Director for his report, and for the successful work carried out.

Document 15 was approved unanimously, as a whole, apart from its financial aspects which would be examined at the eleventh Plenary Meeting.

The meeting rose at 5.40 p.m.

Rapporteur :

V. Bouladon

Secretary :

R.V. Lindsey

Chairman :

A. Lebel

M I N U T E S

OF THE

ELEVENTH PLENARY MEETING

Wednesday, 29 April 1959, at 9.30 a.m.

Chairman : Dr. A. Lebel

Subjects discussed :

1. Extension of the term of office of the Vice-Director of the C.C.I.R.
2. Minutes of the 6th, 7th and 8th Plenary Meetings (Docs. 731, 732 and 739).
3. Texts submitted by the Drafting Committee :
 - a) originating from Study Group VI : Docs. 706, 708, 709 and 720
 - b) originating from Study Group XI : Doc. 719.
4. Validity of Recommendations appearing in Warsaw Volume I.
5. Appointment of Chairmen and Vice-Chairmen of Study Groups (Doc. 733).
6. Treatment of unpublished reports (Doc. 734).
7. Report of the Finance Committee (Doc. 735) :
 - a) Agreement with the United States Administration
 - b) Appreciation of the cooperation extended by the United States Administration
 - c) Approval of the final accounts
 - d) Appreciation of the hospitality shown by the U.S.S.R. and Monaco
 - e) Ex gratia payment to staff.

Present :

Administrations of Members of the Union :

Australia, Austria, Belgium, Bielorussian S.S.R., P.R. of Bulgaria (represented by Czechoslovakia), Canada, China, Denmark, Spain, United States of America, France, Guatemala, Republic of India, Ireland, Italy, Japan, Monaco, Norway, New Zealand, Pakistan, Netherlands, P.R. of Poland, Federal Republic of Germany, F.P.R. of Yugoslavia, Ukrainian S.S.R., Roumanian P.R., United Kingdom of Great Britain and Northern Ireland, Sweden, Switzerland, Czechoslovakia, Group of the different territories represented by the French Overseas Postal and Telecommunication Agency; Turkey, Union of South Africa; Union of Soviet Socialist Republics, Venezuela.

Recognized private operating agencies :

Am. T. & T. Co., B.B.C., K.D.D., N.T.T., S.A.B.C., Cable & Wireless.

International organizations :

C.I.R.M., I.B.T.O., U.R.S.I.

Specialized agencies of the United Nations :

W.M.O.

Permanent organs of the I.T.U. :

I.F.R.B., C.C.I.T.T.

1. Extension of the term of office of the Vice-Director of the C.C.I.R.

The Chairman opened the meeting by suggesting that the Plenary Assembly should record a formal notice to the Vice-Director, Mr. Leslie W. Hayes, of the Resolution adopted at the previous plenary meeting in connection with the extension of the term of office of the Vice-Director of the C.C.I.R. He made the suggestion, not only as a tribute to his long and worthy service with the C.C.I.R., but also as a token of the high personal regard in which the members held him. (Applause).

Mr. Hayes, Vice-Director of the C.C.I.R., replied :

"Mr. Chairman, thank you very much for your kind words. I must confess I am confused. In fact, I am not quite sure on which side congratulations lie - whether you should congratulate me for having to put up with the C.C.I.R. for another year, or whether you should congratulate the C.C.I.R. on having to put up with me for another year.

I should just like to assure you that I shall do my best to be of service to the C.C.I.R. and to help the Director, Dr. Metzler, as much as I possibly can, to run the Secretariat efficiently.

If you value my services at their lowest, as Dr. van der Pol sometimes did, I hope that I may continue, in his words : 'to be a helpful colleague, especially in matters concerning the English language'. (Warsaw Doc. 1007-E)".

2. Minutes of the Sixth, Seventh and Eighth Plenary Meetings (Docs. 731, 732 and 739)

a) Minutes of the Sixth Plenary Meeting (Doc. 731)

Approved unanimously, subject to minor modifications.

b) Minutes of the Seventh Plenary Meeting (Doc. 732)

Approved unanimously, subject to minor editorial corrections.

c) Minutes of the Eighth Plenary Meeting (Doc. 739)

Approved unanimously, subject to minor editorial corrections.

3. Texts submitted by the Drafting Committee :

a) Originating from Study Group VI (Docs. 706, 708, 709 and 720)

Document 706 : Approved unanimously.

Document 708 : Approved unanimously.

Document 709 : Approved unanimously, subject to a minor drafting change.

Document 720 : Approved unanimously, subject to the addition of the following at the beginning of para. 6, in the French text only :

"6. Toutes ces considérations conduisent à penser que l'énergie doit franchir, sans subir de réflexions intermédiaires sur le sol, de longues distances ...".

b) Originating from Study Group XI (Doc. 719)

Document 719 : Approved, subject to the recording of the following discussion :

Mr. Esping (Sweden), Chairman of Study Group XI, introducing the document, said that he would hand in minor drafting changes to the Secretariat. However, he pointed out that in para. 5.13.2 on page 10, the following words should be added at the end : ".... if 5.5 Mc/s separation between vision and sound carriers is adopted." An asterisk should also be added after the tenth line on page 14, together with a footnote, to read : " *) The possibility of fully using an 8 Mc/s channel bandwidth, but retaining 5.5 Mc/s separation of vision and sound carriers, was also discussed."

In reply to a request for clarification from the delegate of Czechoslovakia, Mr. Esping explained that the matter would be taken up further at the forthcoming meeting of the relevant Sub-Group.

The delegate of the United States proposed the addition of the words : "in Europe" to the title, but, in face of the objection that the C.C.I.R. work should be on an international plane, withdrew his proposal. However, he wished it to be recorded that, in his view, the document was not of universal application, since it did not cover the western hemisphere and other countries which had made different decisions.

The delegate of the Roumanian People's Republic stated :

"The Administration of the Roumanian People's Republic is greatly interested in the possibility of uniform standards for television in bands IV and V, since this will largely facilitate frequency planning and the international exchange of television programmes.

The Roumanian Administration announces that the monochrome television system that will be used in the Roumanian People's Republic in bands IV and V will have the following characteristics :

definition : 625 lines;

channel width : 8 Mc/s;

the vision carrier will be 1.25 Mc/s above the lower channel limit, and the unmodulated sound carrier 0.25 Mc/s below the upper limit. Thus the spacing between these two carriers will be 6.5 Mc/s.

The above values are in conformity with the I.B.T.O. standards now in use for bands I and III."

4. Validity of Recommendations appearing in Warsaw Volume I

After explanations had been given by the Secretary of the Conference, it was decided to delete the following Recommendations appearing in Warsaw Volume I : Recommendations Nos. 174(S.G.VI), 187(S.G.IX), 208 (S.G.X), 213(S.G.XI) and 32 (on simultaneous interpretation).

5. Appointment of Chairmen and Vice-Chairmen of Study Groups (Doc. 733)

Approved by acclamation.

The Chairman thanked the Assembly for its applause, on behalf of the Director and his colleagues and the numerous delegates who, in consultation, had prepared the document, not as a proposal, but as a convenient means of solving a very complex problem.

The delegate of Italy conveyed the thanks of his Administration to the Director, his colleagues and the members of the Assembly for the honour they had done Italy. The Italian representatives concerned would certainly do their very best to further the work of the C.C.I.R.

6. Treatment of unpublished reports (Doc. 734)

The Director of the C.C.I.R., introducing the document, said that the Plenary Assembly had gone through a very critical period and the Chairman had had to convene a special meeting of Heads of Delegations and Chairmen, which had prepared the document under consideration. The documents which had not been considered in Plenary meeting, for lack of time, would be circulated to Administrations for their comments to be received by correspondence. The Secretariat would then put the finishing touches to the drafting. Three months might be allowed for receipt of Administrations' views, since the documents had to be published and some of them would be required for submission to the Ordinary Administrative Radio Conference.

He would not try to hide the fact that some infringement of the normal procedure was involved and the pertinent conclusion should be drawn. Attempts should be made, as far as possible, to conform to the working methods adopted at the previous meeting. There would then be ~~no~~ similar trouble in future.

Mr. Henry (France), Chairman of the Drafting Committee, said that the documents which were listed as not having ~~been~~ issued as pink sheets for discussion in the Plenary Assembly, represented 34% of the total output in pages of the Assembly.

On a proposal by the delegate of the United States, it was decided that the deadline for the receipt of replies from Administrations would be Friday, 31 July 1959, so that firm plans for publication could begin on 3 August.

On a proposal by the delegate of Canada, it was agreed to change the third line of the title to read : "but not examined by the Plenary Assembly".

The delegate of Italy, referring to the remarks by the Director about the new organization of the C.C.I.R., said that Document 703 of the Organization Committee was perfectly precise. There was no question of conforming with the new methods "as far as possible". Everyone, beginning with the Director of the C.C.I.R., merely had to conform.

The Director of the C.C.I.R. assured the delegate of Italy that he would do his utmost to conform "as far as possible". The methods adopted at Warsaw were not being criticized, but achievements were required, not texts. He had merely been appealing to the better understanding of the Assembly.

The delegate of the Union of Soviet Socialist Republics stated :

"A number of C.C.I.R. documents were not examined in the Study Groups. Consequently, the Soviet Delegation feels bound to make its views known with regard to some of these documents.

The Soviet Delegation is maintaining its reservation in respect of Recommendations 161, 164 and 19 (Warsaw) and Resolution 19.

It likewise reserves its opinion in respect of Report 91 (Los Angeles Doc. 330).

I should like the above statement to be recorded in the Minutes and in the final version of the documents."

The delegate of the Bielorussian Soviet Socialist Republic stated:

"At the sixth plenary meeting held on 24 April 1959, the delegation of the Bielorussian Soviet Socialist Republic reserved its opinion in respect of Los Angeles Doc. 549.

The Bielorussian Delegation likewise reserves its views on Los Angeles Docs. 519 and 577, a fact which I should like recorded in the documents of the IXth Plenary Assembly.

In addition, we maintain the reservation made in respect of Recommendations 19, 161 and 164 (Warsaw), Resolution 19 (Warsaw) and Report 91 (Warsaw) or Doc. 578 (Los Angeles), should it replace the report."

The delegate of the Ukrainian S.S.R. supported the reservations on the above-mentioned documents.

With the above comments and reservations, Doc. 734 was approved.

7. Report of the Finance Committee (Doc. 735)

Dr. Sarwate (India), Chairman of the Finance Committee, introduced the report and pointed out the features therein which called for a decision by the Plenary Assembly. They were taken in order as follows :

a) Agreement with the United States Administration

Paragraph 3.1 of the Report was unanimously approved.

b) Appreciation of the cooperation extended by the United States Administration

Paragraph 3.3 of the Report was approved by acclamation.

c) Approval of the final accounts

Paragraph 4.4 of the Report was approved unanimously.

d) Appreciation of the hospitality shown by the U.S.S.R. and Monaco

On a proposal by the delegate of Italy, it was decided by acclamation to add a sentence to para. 6.2 of the Report, expressing the cordial thanks of the Assembly to the Administrations of the Soviet Union and Monaco for the generous hospitality they had shown to Study Group XI and the C.M.T.T., respectively.

e) Ex gratia payment to staff (paragraph 4.3 and Doc. 738)

Paragraph 4.3 and Doc. 738 were approved unanimously.

The Finance Report (Doc. 735) as a whole was approved unanimously.

The Chairman conveyed the heartiest thanks of the Assembly to Dr. Sarwate and his group for their splendid performance of a very difficult task. (Applause).

The meeting rose at 11.05 a.m.

Rapporteur :

H. Heaton

Secretary :

R.V. Lindsey

Chairman :

A. Lebel

M I N U T E S

OF THE

TWELFTH AND LAST PLENARY MEETING

Wednesday, 29 April 1959, at 3 p.m.

Chairman : Dr. A. Lebel

1. Place and Date of Xth Plenary Assembly of C.C.I.R.
2. Question of Approval of Minutes after Close of Meeting.
3. Closing Speeches.

Present :

Administrations of Members of the Union :

Australia, Austria, Belgium, Bielorussian S.S.R., P.R. of Bulgaria (represented by Czechoslovakia), Canada, China, Denmark, Spain, United States, France, Guatemala, Republic of India, Ireland, Italy, Japan, Monaco, Norway, New Zealand, Pakistan, Netherlands, P.R. of Poland, Federal Republic of Germany, F.P.R. of Yugoslavia, Ukrainian S.S.R., Roumanian P.R., United Kingdom of Great Britain and Northern Ireland, Sweden, Switzerland, Czechoslovakia, Group of the different territories represented by the French Overseas Postal and Telecommunication Agency, Turkey, Union of South Africa, Union of Soviet Socialist Republics, Venezuela.

Recognized private operating agencies :

Am. T. & T., B.B.C., Cable & Wireless Ltd., K.D.D., N.T.T., RAI, S.A.B.C..

International organizations :

I.C.S., I.B.T.O., U.R.S.I.

Specialized agencies of the United Nations :

W.M.O.

Permanent organs of the I.T.U.:

I.F.R.B.

The Chairman opened the Meeting by announcing that Mr. van der Toorn, Director-General of the Netherlands P.T.T., who was well-known to most delegates, and who was former Chairman of Study Group XIII, had been

nominated a Member of the Order of Orange-Nassau. He assumed the Assembly would wish the Director to send an appropriate communication to Mr. van der Toorn from this Assembly, congratulating him for this distinction. (Hearty applause).

1. Place and Date of Xth Plenary Assembly

Dr. Sarwate (India) wished to add a few words to the letter which had been contained in Doc. 185 and circulated to all Administrations, in which the Government of India invited the C.C.I.R. to hold its Xth Plenary Assembly in New Delhi. He would be very happy if this invitation could be accepted, as it would give India the opportunity to show what it had accomplished during the past few years. As far as pure technology was concerned, it would probably be found that India did not stand in the forefront. However, mere progress was insufficient, it was the basic need for human understanding that counted, and this could be achieved by an exchange of ideas throughout the world.

If the invitation were accepted, this would be the first major Conference the I.T.U. would hold in that part of the world, and his Government would do its utmost to see that the same success would result as in other parts of the world.

Following the practice proposed for the C.C.I.R. Plenary Assembly, this Conference should be held in October 1962. However, the climate in New Delhi was very warm at that time, and he would propose that this be changed either to November 1962 or January 1963.

The Chairman : "I am sure that you would all want the record to show our appreciation and sincere thanks to Dr. Sarwate and the Government of India for this very kind invitation, and also to show that the invitation was accepted by acclamation."

(The invitation was accepted by acclamation.)

Mr. Henry (France) stated that it had been the intention of his Administration to invite the Plenary Assembly to meet in Paris. However, after discussions with Dr. Sarwate, it had been decided that no conflict should exist between two members of the C.C.I.R., and the French Administration had therefore agreed to withdraw its invitation. As a voyage had been started which had led the C.C.I.R. from Warsaw, through Los Angeles to New Delhi, he hoped that the space vehicles of Study Group IV would one day land in Paris. (Hearty applause).

Dr. Sarwate wished to thank the Assembly, on behalf of the Government of India, for accepting the invitation and to thank the delegates for their acclamation and appreciation. He hoped that as many as possible would take the opportunity of bringing their families with them to New Delhi.

2. Approval of Minutes after Close of Meeting

The Chairman stated that in the past it had been customary to entrust the approval of Minutes not considered for approval by the Plenary Assembly to the Chairman. This procedure was approved.

3. Closing Speeches

Dr. Lebel, Chairman of IXth Plenary Assembly :

"Ladies and Gentlemen : We have now concluded the work of the Ninth Plenary Assembly of the C.C.I.R. During the last few weeks you have investigated a large number of problems vitally important in the field of telecommunications and have made available the fruit of your painstaking labour, through recommendations, reports and other materials which will be welcomed and studied throughout the world. For the volume, scope and importance of your accomplishments at this Plenary Assembly you are to be sincerely and warmly congratulated!

It would be impossible, in the short time available, to demonstrate the great value of your contribution by describing the manner in which your advice and recommendations will benefit the many who will use them, such as private individuals, manufacturing firms, operators of radio services, administrations, international conferences and organizations.

It is certain, however, that the extremely difficult tasks of the Radio Conference which will begin in Geneva next August, will be considerably lightened by the information which you have provided. Perhaps the most important, the most difficult task of that Conference will be the revision of the frequency allocation table.

It is not news to the members of this Assembly that the radio spectrum has become so crowded that it is already impossible in many countries to satisfy the frequency demands in the case of a significant percentage of prospective users of radio.

From relatively simple devices used mainly to call for help and to exchange brief communications, radio has developed to the point where there is hardly a human activity which does not have to use radio, or could not use it to great advantage.

In addition to carrying messages or providing visual and aural entertainment, radio produces flight and sailing courses or course computations accurate within yards at hundreds of miles from destination; it determines precise distances from a given point to any other points; it obtains data by which weather conditions can be determined for specific purposes; with radio we can sit in a workshop and observe, as soon as they develop, even minute failures of airframes and aircraft engines being tested in flight; we determine the relative location, composition and size of

of heavenly bodies at fantastic distances from earth. And so on. This list is necessarily incomplete. And while I'm talking about it new applications of radio are being conceived.

And yet, the radio spectrum still remains the same; it is the scarcest commodity we have. We can find more iron, tin, copper, gold or diamonds; but no one can make a single additional kilocycle. The members of the I.T.U. must therefore accept responsibility to do two things : first, endeavour conscientiously to accommodate new operations in the radio spectrum, and here I include new operations needed by those areas of the world where communications are inadequate to meet domestic and international requirements. Secondly, keep on improving the efficiency and usefulness of services already existing.

I have gone to some lengths to describe what, at first glance, might be considered to be a general problem of the I.T.U., rather than a specific responsibility of the C.C.I.R. But the C.C.I.R.'s share in the responsibility for the solution of this problem constitutes a large part of its terms of reference.

It is true that some relief can be offered to the overcrowding of the radio spectrum by such devices as : efficient international radio frequency control or management; the use of other techniques than radio where services can be operated with comparable efficiency by these other techniques; the enforcement of circuit discipline and more expeditious communications procedures. And there are other methods still.

But these remedies, while extremely helpful, have definite limitations. And I am convinced that, in the long run, the main contribution toward relief of the very critical problem of spectrum crowding will be technical and scientific; the improvement of equipment of all kinds; the discovery of new techniques and systems; a better understanding of the propagation media, below and above Earth's atmosphere, new methods of using these media, and the manner in which extraneous natural or man-made phenomena affect them. This, of course, is describing a large part of the task of the C.C.I.R. and this task the C.C.I.R. has accomplished in the past, always with great credit to itself.

Because this Ninth C.C.I.R. Plenary Assembly has made a long step in the advancement of the programme which I have just outlined broadly, I am convinced that it will take its place amongst the most successful and the most forward-looking assemblies in the history of the Committee. For this, Ladies and Gentlemen, I say to you again that you have earned most sincere and unqualified congratulations.

It is now my pleasant duty to thank those who have contributed to the accomplishment of our task. And first, I shall mention the unseen persons who, without the satisfaction of public notice, have laboured diligently in an effort to provide us with the services we needed to proceed without tasks. I refer, of course, to the Secretariat. I should

like to single out here the translators and interpreters, and especially the Secretary of the Conference. I am sure you will wish to join me in expressing our sincere thanks to them. (Applause)

I am also sure that you will agree with me that special thanks are due to the Chairmen, Vice-Chairmen and Rapporteurs of the Study Groups, Sub-groups, Special Committees and Sub-committees, for these delegates have accepted more than their share of the Assembly's work-load. For persons such as these it seems pitifully little merely to say : thank you; but that much, we do in all sincerity. (Applause)

I should like to extend my thanks and yours to Mr. van der Mark, to Mr. Leslie Hayes, the Vice-Director, and to Dr. Metzler, the Director, for their valuable advice and collaboration during the Conference. Dr. Metzler, in particular, has during this Assembly added yet another page to an already brilliant record. Without his counsel, it would have been difficult for your Chairman properly to perform his duties. (Applause)

Finally, to you the Members of this Assembly, I express my most sincere and most heartfelt gratitude for the great distinction and privilege of serving with you as your Chairman, and of sharing in the credit for your truly outstanding achievements.

The United States has been honoured, happy and proud to be your host during these few short weeks.

May you enjoy the remainder of your stay in this country! May you then have a safe and pleasant journey back to your homes! May you remember the United States pleasantly and, I hope, with affection! May we come together again often! Thank you, Ladies and Gentlemen." (Prolonged applause)

Dr. Sarwate (India) : "Thank you, Mr. Chairman, Ladies and Gentlemen :

Four weeks ago we met in the inaugural session of the present Assembly, and we heard such distinguished persons as the Deputy Assistant Secretary of State for Economic Affairs and the Mayor of the City of Los Angeles. We were filled with a certain amount of excitement and of confidence regarding the work which lay before us. We passed on from day to day, the mounting tempo of the work punctuated from time to time by the weekend trip which provided such an agreeable contrast.

We visited the University of California, and heard many eminent persons speak on subjects of technical interest, where the vast progress achieved in this country was put to the benefit of the delegates.

We visited Disney Land, where, in the company of the younger generation we relaxed and were young again and many of us have pictorial records of that occasion proving that we behaved that day in just the way one would be expected, in our enjoyment of Disney Land.

And then we were invited to the beautiful island of Santa Catalina, where we were received with such honour and dignity that, as a sign of recognition, we were given the keys of the City of Avalon, and we literally did enjoy the freedom of the island. We heard lovely singing, we saw wonderful dancing, we had the opportunity to become acquainted with the warm-hearted population, who spared no effort to make us as happy and as comfortable as we could be. I personally consider that this trip formed the climax of the Plenary Assembly.

I shall not refer to the important work that this Assembly has accomplished, because you have heard the illustrious address of our Chairman on this subject. But I might recall the words of Dr. Metzler in April 1957, when he proposed to the Administrative Council the holding of this Plenary Assembly just prior to the Radio Conference. He was quite sure at that time of the significance and the importance of this Assembly, and he has proved to be quite right. We have our proof in the vast amount of documentation we have put out in the past few days : pink documents, which show the identity of our views : Recommendations, Reports for the technical records.

But we have other things for the record too - sweet memories of the efforts made by the local population and by the officials of your Government to make our stay here most comfortable. We have felt quite informal, lighter in heart and in thought, and it is perhaps a test of how much one feels at home in a strange place if one is accepted by others. I have lived intimately in the City of Los Angeles. It is not a strange place, because it does not belong to anyone in particular - everyone is a stranger here, so everyone is at home. They take it for granted that you come from somewhere else. And if you really want to capture the heart of the Los Angeles population you must introduce 'smog' into your conversation (Laughter). In my lighter moments I have discovered many things here, amongst them that 'honey' is not merely a syrup, but a member of the human species with the quality of a bee, including its sting! (Laughter).

And if we have been so comfortable and so at home here it shows how excellent the organization of this Assembly has been. So now I would like to take the opportunity of expressing our great appreciation and gratitude to the Administration of the United States in inviting our Plenary Assembly to carry out its work here, and in providing it with every facility to help it to be as successful as any Plenary Assembly I have ever attended. To them go our heartfelt thanks and congratulations for the great success this Conference has achieved. (Hearty applause)

To you, Mr. Chairman, also go our deepest thanks. We have watched you preside over this Conference every day in your capable way.

We have seen your sympathy, your unfailing courtesy and your clear and perfect grasp of the situation and your masterly handling of many difficult problems. The Assembly wishes to thank you and to pay tribute to you, Mr. Chairman, for the great success of this Conference is due to your efforts and your lucidity. (Hearty applause).

Now our thanks go to the C.C.I.R. Secretariat and to the local Secretariat who have worked so untiringly for many hours, to the Interpreters, Translators, Typists, Clerks, to the Document Distribution staff and the Roneo operators, and to the Finance Division. We should also like to thank the Income Tax Department who helped us to fill in our forms and to make our exit gracefully, and last but not least our Bus Captains and Leaders of our expeditions.

Our thanks for all the excellent arrangements made for our entertainment. Time does not allow me to list here all the many organizations to whom our thanks are due and who have participated in making our leisure hours agreeable and our Assembly such a success.

Our thanks also to the City and to the Mayor of Los Angeles, and to the personnel of the Biltmore Hotel.

I would not like to conclude without mentioning the excellent arrangements made for the entertainment of our ladies, which far exceeded expectations, and which enabled them to leave their husbands in peace to carry out their work. (Laughter). May I thank you on our and their behalf.

We shall certainly carry sweet memories home with us."
(Prolonged applause)

Dr. Metzler, Director of the C.C.I.R. :

"It would be difficult for me to add to the speech we have just heard by Dr. Sarwate, and so I will merely limit myself to a few facts.

The IXth Plenary Assembly of the C.C.I.R. has finished its work, and I think we are all glad of it.

For my part I would wish to associate myself with the expressions of warm gratitude which have been made to our hosts by the Delegate of India.

Certainly great efforts have been entailed by all of us to arrive at such a satisfactory result as that we have obtained, and I would like to thank all the delegates who have contributed to this success, under the leadership of our distinguished Chairman, Dr. Lebel.

I much appreciate the words addressed to the Secretariat. Many of the administrative staff from Geneva have indeed been submitted to a very heavy test, and they have come through this test with flying colours. In fact, if we compare the present Assembly with that of Warsaw we will see that, in 20% less time, we have had to prepare an approximately 10% greater quantity of documents, which represents an increase in work-load

of approximately 40% compared to the Warsaw figures. But let us not dwell too long on figures. The new working method adopted will, we hope, make up for all this.

I must thank my immediate colleagues for the efficient collaboration they have given me in carrying out my tasks. I must add that my excellent Technical Counsellor, Mr. van der Mark, will probably not take part in the next Plenary Assembly, as he will have reached the age limit. We will all miss him.

In conclusion, I can state that we all regret having to leave the beautiful surroundings of California and this great City of Los Angeles, which will from now on occupy an important place in the history of the C.C.I.R. for the role it has played in our work today. Dr. Sarwate has already mentioned the friendliness of the population of this City, and of its Mayor, Mr. Poulson.

Finally, I hope you will be in agreement with me when I say, may the spirit of international collaboration which has been shown here continue to prevail in the C.C.I.R.! " (Prolonged applause)

Mr. Kozłowski (P.R. of Poland): "I would like to take the opportunity to express our great satisfaction at the results obtained in Los Angeles; to express our thanks and appreciation to the Chairman, Dr. Lebel, who presided over our work in such an excellent and capable manner.

Associating myself with the words expressed by our Chairman, the Polish delegation would like to draw the attention of the Assembly to the fact that during our stay here the IXth Plenary Assembly has accepted a quantity of Recommendations and other documents which will play an important role in the field of telecommunications, broadcasting and television, under the condition that these recommendations are respected by all the countries of the world. Only under these conditions can the C.C.I.R. fulfil its aims. Unfortunately, the Polish Delegation wishes to express its regret that during this meeting certain Administrations have not been present, notably the Administration of the People's Republic of China, which represents the great Chinese nation. This limits the efficacy of our decisions, and we are sure that an equitable and fair solution of this problem will contribute to increase the scope of the C.C.I.R."

Mr. Chistiakov (U.S.S.R.) : "We have been here for quite a long while, and now we are preparing to return to our own homes and countries. I should like on behalf of the Soviet delegation, to express my thanks. It has been a very fruitful and friendly month's work. The decisions taken by the IXth Plenary Assembly will, without doubt, contribute to the advancement and improvement of all means of communication. This has been a Conference of very great collaboration and friendly understanding between the individual countries. The support and cooperation which has been given from the very beginning of our work has ensured the good results which have been obtained. We hope that this collaboration and these friendly relations which we have found here will continue to grow and to be strengthened in the future, for the sake of peace throughout the whole world.

We should like to express our thanks to the representatives of the United States Administration, and to the officials of the City of Los Angeles for the great endeavours they have made to ensure the fruitful work of this Assembly, and for the opportunity which has been given to the delegates to get to know the achievements of American technology and to become acquainted with the country itself.

We should like to express our gratitude to Dr. Lebel, our Chairman, who has so superbly conducted the work of this Assembly. We should also like to thank the staff of the C.C.I.R. Secretariat, the interpreters, translators, finance services, mimeograph operators, document distribution, etc., and all those who are too numerous to mention but without whom this Conference would not have been the success it has been.

In conclusion, we should like to wish every success to the people of the United States, who have shown us such great hospitality in their country."
(Prolonged applause)

The Chairman : "Thank you. I am sure that the various groups of ladies and gentlemen whom you have thanked will be grateful to hear of your appreciation and I shall convey the message which you have directed to the responsible officials of the United States Government. I thank you, too, for the very kind words you have said about my work."

Mr. Mendoza (Guatemala) : "I have been extremely happy to participate in the IXth Plenary Assembly of the C.C.I.R. Guatemala was not able to contribute very much, but what it did was done with good will. Guatemala is only a very small country. The number of its inhabitants may be smaller than it is in many of your cities. However, the desire for cooperation and collaboration is greater in extent than its territories. We have been called "the country of eternal Spring", but we feel that the springtime will be complete when one day the opportunity may arise for the C.C.I.R. to hold a meeting there.

Guatemala would like to express its thanks to all those people who participated and who gave such help to the aims of the C.C.I.R. work."
(Applause)

In reply to a question by Dr. Sarwate, Mr. Henry, Chairman of the Drafting Committee, assured him that this Committee had indeed completed all its work.

The Chairman said that he had paid tribute to the enormous task of Mr. Henry and his Committee at an earlier meeting, but he felt that they deserved still further thanks. (Applause)

The Chairman then officially declared the IXth Plenary Assembly of the C.C.I.R. closed at 4 p.m.

Rapporteur :

R. Umberg-Hauben

Secretary :

R.V. Lindsey

Chairman :

A. Lebel